Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

Assumptions for shadow calculations

Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

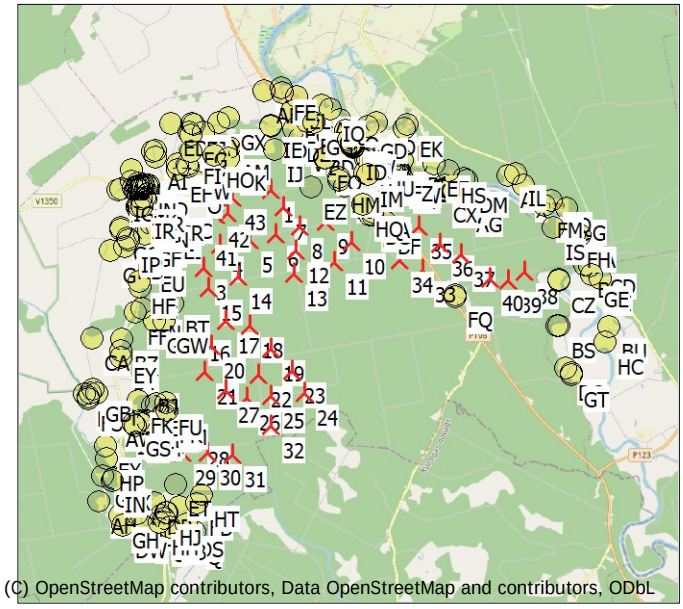
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

Monthly aggregation of real case reduction
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Elevation Grid Data Object: ground.wpg (1)
Receptor grid resolution: 1.0 m

All coordinates are in
Latvian TM LKS92-LKS92 (LV)



Scale 1:200 000
New WTG
Shadow receptor

WTGs

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
1	356 701	339 077	9.5	V-2_1 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
2	355 537	338 516	8.5	V-2_3 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
3	354 834	337 091	11.9	V-2_6 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
4	355 315	337 686	11.7	V-2_7 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
5	356 078	337 808	12.7	V-2_8 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
6	356 773	337 912	13.1	V-2_9 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
7	357 025	338 624	12.0	V-2_10 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
8	357 422	338 106	14.2	V-2_11 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
9	358 128	338 197	13.3	V-2_12 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
10	358 787	337 647	12.2	V-2_13 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
11	358 318	337 151	14.9	V-2_14 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
12	357 303	337 459	15.6	V-2_15 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
13	357 236	336 872	15.5	V-2_17 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
14	355 764	336 829	14.3	V-2_19 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
15	354 956	336 553	12.3	V-2_20 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
16	354 605	335 513	12.9	V-2_21 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
17	355 391	335 665	14.5	V-2_22 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
18	356 035	335 522	14.8	V-2_24 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
19	356 554	334 892	16.0	V-2_25 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
20	354 970	335 047	13.9	V-2_27 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
21	354 780	334 358	13.5	V-2_30 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
22	356 211	334 226	14.6	V-2_32 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
23	357 096	334 294	15.9	V-2_33 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
24	357 423	333 693	14.4	V-2_34 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
25	356 527	333 657	14.5	V-2_35 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
26	355 882	333 621	14.9	V-2_36 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
27	355 322	333 845	15.1	V-2_37 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
28	354 488	332 712	13.1	V-2_40 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
29	354 092	332 249	12.3	V-2_41 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
30	354 780	332 196	12.7	V-2_42 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
31	355 434	332 125	13.2	V-2_43 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
32	356 466	332 869	12.2	V-2_45 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
33	360 651	336 837	12.3	V-2_84 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
34	360 051	337 132	12.4	V-2_85 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
35	360 572	338 004	12.9	V-2_86 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8
36	361 157	337 531	13.6	V-2_87 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	200.0	2 137	10.8

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

	Y	X	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
37	361 687	337 212	14.4	V-2_88 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	159.0	2 140	10.8
38	363 353	336 692	19.3	V-2_91 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	159.0	2 140	10.8
39	362 906	336 483	18.0	V-2_92 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	159.0	2 140	10.8
40	362 419	336 540	16.5	V-2_93 (Ventspils-2)	Yes	NORDEX	N175/6.X-8 000	8 000	200.0	159.0	2 140	10.8
41	354 857	338 012	7.8	T92 (Envirsus)	Yes	NORDEX	N175/6.X-8 000	8 000	180.0	180.0	2 139	10.8
42	355 224	338 498	7.3	T93 (Envirsus)	Yes	NORDEX	N175/6.X-8 000	8 000	180.0	180.0	2 139	10.8
43	355 673	338 930	7.1	T94 (Envirsus)	Yes	NORDEX	N175/6.X-8 000	8 000	180.0	180.0	2 139	10.8

Shadow receptor-Input

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A	Akmentini	353 206	339 256	11.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B	Alksnini	354 051	338 303	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C	Amatnieki	353 493	338 299	9.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D	Apsini	353 364	338 596	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
E	Araji	353 118	339 220	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F	Aug š dzikli	365 095	336 782	13.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G	Ausekli	353 011	339 465	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H	Austrinas	354 953	340 678	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I	Austrumi	352 609	333 103	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J	Avoti	353 399	339 266	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K	Abolini	353 370	338 802	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L	Balo ž i	353 985	330 776	12.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M	Bambali	364 700	337 721	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N	Berzi	353 213	338 721	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O	Berznieki	354 690	339 391	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P	Birznieki	353 105	333 115	13.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Q	Bitnieki	354 355	330 121	12.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R	Bolderkrogs	361 821	339 228	13.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S	Brenci	351 728	333 907	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
T	Brie ž kalni	353 016	330 318	11.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U	Brivzemnieki	353 457	330 210	11.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
V	Bru ž i	357 512	340 414	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W	Bruveri	353 563	330 402	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X	Burtnieki B	363 395	338 979	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y	Budini	355 381	340 919	11.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z	Bukas	353 605	340 199	10.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA	Buras	358 673	339 124	9.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AB	Celaraji	353 439	338 133	8.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AC	Ceplabelnieki	360 581	339 585	7.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AD	Cepli	360 175	339 340	9.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AE	Cerini	353 672	340 242	11.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AF	Cerpi	356 609	341 724	6.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AG	Ciruli	361 800	338 657	14.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AH	Ciekuri	351 849	331 022	11.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AI	Dambji	353 666	340 070	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AJ	Dangas	355 046	340 164	11.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AK	Dangas A	363 015	339 268	16.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AL	Dapatas	353 044	339 756	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AM	Darznieki	355 657	340 244	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AN	Dimanti	353 363	338 679	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AO	Dimzas B	359 560	340 760	7.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AP	Di ž abelnieki	360 196	339 768	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AQ	Di ž graveri	358 602	340 875	7.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AR	Di ž pulki	357 100	341 637	6.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AS	Diknieki	358 132	341 280	6.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AT	Doni	359 379	338 321	9.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AU	Druvas	353 375	338 918	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AV	Duli	351 671	333 811	8.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AW	Dunkuri	352 310	333 313	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AX	Dzilnas A	353 413	339 355	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
AY	Dzintari A	353 161	333 052	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AZ	Dzintari B	353 241	333 107	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BA	Dzintarini	353 490	330 563	11.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BB	Dzikli	364 970	336 825	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BC	Dzipari	353 246	338 729	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BD	Elki	357 940	340 312	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BE	Ezeri	359 296	338 340	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BF	Ezerkrogs	359 687	338 148	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BG	Ezermali	359 359	338 406	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BH	Edene A	359 989	339 542	7.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BI	Edene B	359 989	339 586	7.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BJ	Franci	353 193	334 147	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BK	Gailkalni	354 247	339 858	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BL	Grantkalni	353 893	338 230	9.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BM	Gra š i	353 752	333 323	13.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BN	Graveri	354 584	340 687	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BO	Gundegas	353 368	338 736	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BP	Intari	353 344	339 280	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BQ	Jansoni	353 384	333 525	13.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BR	Jaunandzmani	364 177	335 273	8.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BS	Jaunandzmani A	364 238	335 231	7.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BT	Jaunaraji	353 988	336 199	11.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BU	Jaunaraji A	365 531	335 173	9.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BV	Jaunbirznieki A	354 514	339 817	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BW	Jaunbirznieki B	354 533	339 790	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BX	Jaunbrie ž i	352 267	331 627	11.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BY	Jaundobri	364 530	333 987	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BZ	Jaunsamie š i	352 600	335 278	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CA	Jaunsudrabini	351 809	335 348	7.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CB	Jaunventas	359 248	339 835	7.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CC	Jaunzemji	353 129	336 641	7.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CD	Jorgi	365 310	336 883	18.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CE	Josati	353 171	338 806	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CF	Jostnieki A	361 305	339 080	12.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CG	Jostnieki B	361 308	338 956	14.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CH	Jostnieki C	361 420	338 984	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CI	Jostnieki D	361 497	338 988	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CJ	Jostnieki E	361 460	338 979	14.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CK	Jostnieki F	361 422	339 009	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CL	Jostnieki G	361 463	339 006	14.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CM	Jostnieki H	361 274	338 963	14.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CN	Jostnieki I	361 300	338 929	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CO	Jostnieki J	361 299	338 913	14.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CP	Jostnieki K	361 284	338 934	13.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CQ	Jostnieki L	361 283	338 917	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CR	Jostnieki M	361 261	338 899	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CS	Jostnieki N	361 243	338 912	13.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CT	Jostnieki O	361 242	338 928	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CU	Jostnieki P	361 230	338 931	14.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CV	Jostnieki R	361 227	338 915	13.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CW	Jostnieki S	361 208	338 919	12.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CX	Jostnieki T	361 214	338 934	14.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CY	Kaleji A	364 272	336 466	8.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
CZ	Kaleji B	364 253	336 439	7.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DA	Kaleji C	354 673	340 915	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DB	Kalnaraji A	352 690	338 245	8.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DC	Kalnieki	354 125	338 766	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DD	Kalnrozes	358 787	340 225	7.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DE	Kapsetnieki	353 669	338 242	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DF	Kliedini	352 984	333 118	12.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DG	Klintnieki	364 520	338 343	13.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DH	Kniplokkalni	353 077	333 036	13.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DI	Krasti A	359 930	339 543	7.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DJ	Krasti B	359 882	339 623	2.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
DK	Krastini	358 740	340 610	6.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DL	Krastkalni	352 850	330 647	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DM	Kraujas	361 899	339 177	13.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DN	Krumini	353 169	336 095	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DO	Kurpnieki	364 350	334 109	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DP	Kveldes	353 273	338 834	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DQ	Lagzdienas Kalni	364 140	338 560	16.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DR	Lagzdini	353 329	330 949	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DS	Laucinieki	354 148	330 325	11.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DT	Laucini	360 292	340 600	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DU	Lazdaine	353 140	338 799	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DV	Lazdkalni	353 324	339 376	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DW	Lei š i	352 468	330 349	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DX	Lielbrie ž i	352 244	331 600	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DY	Liepas	352 567	334 811	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
DZ	Liepnieki	357 368	340 669	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EA	Liepzari	353 149	339 262	10.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EB	Lici	353 719	330 265	10.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EC	Maki	357 348	341 148	6.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ED	Maurini	354 117	340 941	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EE	Mazabelnieki	361 060	339 627	8.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EF	Mazabelnieki	354 239	339 701	11.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EG	Mazbruveri	353 557	330 498	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EH	Mazdunkuri	353 667	333 277	14.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EI	Mazjorgi	365 356	336 457	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EJ	Mazkaleji	354 723	340 905	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EK	Mazlaucnieki	360 377	340 703	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EL	Mazpulki	357 459	341 515	6.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EM	Mazratnieki	351 884	333 891	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EN	Mazru š ki	351 586	333 865	7.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EO	Malaraji	357 734	340 849	7.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EP	Mednieki	353 623	333 244	14.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EQ	Meldri	353 375	338 891	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ER	Melki	353 931	338 711	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ES	Mendeli	353 453	333 551	12.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ET	Me ž araji	353 915	331 394	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EU	Me ž gali	353 361	337 372	6.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EV	Me ž rozes	358 817	340 118	7.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EW	Metras	353 256	338 650	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EX	Mucenieki	352 086	332 488	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EY	Mui ž araji	352 575	335 003	9.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
EZ	Nikas	357 781	339 126	13.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FA	Novadlauki	364 877	337 625	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FB	Olkalni	354 448	330 874	12.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FC	Ornamenti	353 372	338 830	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FD	O š enieki	356 752	340 765	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FE	O š i	357 074	341 793	6.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FF	Ozoli	353 005	335 970	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FG	Ozolini	354 652	340 618	10.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FH	Ozolkalni	364 709	337 628	9.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FI	Ozolnieki	354 620	340 166	11.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FJ	Palasites	353 178	338 669	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FK	Pauni	352 980	333 653	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FL	Pilad ž i	353 153	338 762	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FM	Plavnieki	363 945	338 439	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FN	Priednieki A	358 193	339 874	8.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FO	Priednieki B	358 156	339 886	9.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FP	Priedulaji	361 495	336 096	13.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FQ	Priedulaji 2	361 490	336 166	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FR	Prie ž gali	353 748	333 354	13.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FS	Puili	351 649	333 735	7.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FT	Pumpuri	359 215	339 457	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FU	Punaki	353 737	333 560	13.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FV	Purenes	353 463	339 280	10.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
FW	Pucmaja A	360 123	339 483	7.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FX	Pucmaja B	360 089	339 467	7.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FY	Pucmaja C	360 077	339 558	7.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
FZ	Pucmaja D	360 107	339 539	7.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GA	Rasas	359 299	339 826	7.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GB	Ratnieki	351 799	333 988	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GC	Rebekas	352 690	338 184	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GD	Reipuseri	359 314	340 669	7.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GE	Remesi	365 123	336 556	9.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GF	Rijnieki	353 324	338 038	8.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GG	Rijvalki	357 916	340 829	7.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GH	Robe ž nieki	352 407	330 614	10.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GI	Rolli	352 877	332 994	13.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GJ	Rozes	353 204	339 313	10.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GK	Ro ž kalni	355 592	339 979	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GL	Ro ž lejas	353 445	339 013	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GM	Rubini	353 278	338 568	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GN	Rudevici	353 471	338 540	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GO	Ruki š i	353 295	339 290	10.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GP	Saulgrie ž i	353 457	339 119	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GQ	Saulie š i	353 065	339 275	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GR	Saulites	352 372	337 639	7.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GS	Saulstari	352 831	333 037	13.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GT	Sendobri	364 507	333 947	11.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GU	Silaraji	353 501	335 757	11.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GV	Silini B	351 981	331 705	12.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GW	Silnieki	353 753	335 749	12.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GX	Smiltnieki B	355 643	341 024	11.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GY	Spridi š i	353 261	339 301	10.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
GZ	Stari	353 374	338 861	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HA	Strautini	359 345	338 597	10.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HB	Strazdi	352 778	337 732	8.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HC	Strazdini A	365 417	334 758	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HD	Strazdini B	353 483	339 312	11.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HE	Sturi š i	353 184	339 392	10.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HF	Svires	353 110	336 797	7.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HG	Šalkas	353 259	338 685	10.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HH	Terandes mui ž a	353 424	330 402	11.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HI	Terandnieki A	353 633	330 641	11.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HJ	Terandnieki B	353 654	330 637	11.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HK	Terces	353 249	339 209	11.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HL	Uplejas A	358 520	339 349	8.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HM	Uplejas B	358 497	339 289	9.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HN	Vaivari	353 169	339 321	10.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HO	Valcenieki	355 231	340 050	10.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HP	Valkaraji	352 099	332 150	11.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HQ	Vanagi	359 131	338 631	9.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HR	Varpas	353 376	338 946	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HS	Veckrastnieki	361 447	339 449	11.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HT	Vecpriednieki	354 577	331 096	12.5	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HU	Vendzavas	359 504	339 684	7.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HV	Ventaskrasti A	358 817	340 344	5.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HW	Ventaskrasti B	358 870	340 244	5.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HX	Ventaskrasti C	358 922	340 177	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HY	Ventaskrasti D	358 876	340 225	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
HZ	Ventaskrasti E	358 898	340 199	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IA	Ventaskrasti F	358 905	340 188	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IB	Ventaskrasti G	358 923	340 163	5.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IC	Ventaskrasti H	358 885	340 213	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
ID	Ventaskrasti I	358 939	340 154	5.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IE	Vetiecirknis	356 758	340 810	9.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IF	Vesmas	352 649	339 248	9.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IG	Vetras	352 724	339 264	9.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IH	Vilni š i A	353 261	338 975	10.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Y	X	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
II	Vir š i	353 180	338 770	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IJ	Vizuli	356 838	340 153	9.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IK	Vitoli A	353 372	338 995	9.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IL	Zaki	363 200	339 308	16.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IM	Zeltini	359 293	339 420	8.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IN	Ziemelbrie ž i	352 221	331 572	11.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IO	Ziru skola A	352 867	337 946	8.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IP	Ziru skola B	352 883	337 906	7.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IQ	Ziles	358 364	341 153	7.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IR	Zilites	353 271	338 799	9.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
IS	Zu š i	364 143	337 841	12.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
A	Akmentini	7:29	29	0:21	1:25
B	Alksnini	152:44	261	1:08	37:36
C	Amatnieki	48:40	131	0:39	12:24
D	Apsini	30:49	101	0:26	6:50
E	Araji	6:56	28	0:20	1:25
F	Aug š dzikli	10:30	33	0:27	3:02
G	Ausekli	0:00	0	0:00	0:00
H	Austrinas	12:32	42	0:23	1:42
I	Austrumi	22:18	67	0:27	5:28
J	Avoti	16:38	61	0:23	3:18
K	Abolini	18:20	60	0:25	4:32
L	Balo ž i	0:00	0	0:00	0:00
M	Bambali	14:45	43	0:28	2:56
N	Berzi	15:37	56	0:24	4:01
O	Berznieki	149:07	197	1:12	26:06
P	Birznieki	62:26	145	0:53	15:36
Q	Bitnieki	0:00	0	0:00	0:00
R	Bolderkrogs	32:30	92	0:28	5:11
S	Brenci	0:00	0	0:00	0:00
T	Brie ž kalni	0:00	0	0:00	0:00
U	Brivzemnieki	0:00	0	0:00	0:00
V	Bru ž i	42:35	78	0:45	6:38
W	Bruveri	0:00	0	0:00	0:00
X	Burtnieki B	0:00	0	0:00	0:00
Y	Budini	0:00	0	0:00	0:00
Z	Bukas	0:00	0	0:00	0:00
AA	Buras	114:13	186	1:07	21:45
AB	Celaraji	49:13	140	0:29	13:37
AC	Ceplabelnieki	17:08	40	0:38	2:26
AD	Cepli	59:09	70	1:01	8:14
AE	Cerini	0:00	0	0:00	0:00
AF	Cerpi	0:00	0	0:00	0:00
AG	Ciruli	74:03	134	0:48	13:31
AH	Ciekuri	0:00	0	0:00	0:00
AI	Dambji	0:00	0	0:00	0:00
AJ	Dangas	64:36	111	0:55	9:43
AK	Dangas A	0:00	0	0:00	0:00
AL	Dapatas	0:00	0	0:00	0:00
AM	Darznieki	47:27	110	0:43	6:56
AN	Dimanti	18:59	62	0:26	4:55
AO	Dimzas B	0:00	0	0:00	0:00
AP	Di ž abelnieki	10:28	36	0:22	1:24
AQ	Di ž graveri	0:00	0	0:00	0:00
AR	Di ž pulki	0:00	0	0:00	0:00
AS	Diknieki	0:00	0	0:00	0:00

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
AT	Doni	173:52	221	1:41	36:25
AU	Druvas	17:51	59	0:25	4:14
AV	Duli	0:00	0	0:00	0:00
AW	Dunkuri	8:53	32	0:23	1:53
AX	Dzilnas A	16:28	63	0:22	3:02
AY	Dzintari A	59:14	130	0:57	13:55
AZ	Dzintari B	63:08	133	0:57	13:51
BA	Dzintarini	0:00	0	0:00	0:00
BB	Dzikli	17:55	49	0:32	5:08
BC	Dzipari	16:06	57	0:24	4:07
BD	Elki	39:16	103	0:28	6:18
BE	Ezeri	176:04	203	1:54	36:52
BF	Ezerkrogs	204:31	240	1:20	45:35
BG	Ezermali	172:20	209	1:46	34:32
BH	Edene A	27:57	62	0:31	3:54
BI	Edene B	25:35	60	0:30	3:33
BJ	Franci	68:14	204	0:30	17:37
BK	Gailkalni	50:40	137	0:45	7:56
BL	Grantkalni	125:14	262	0:47	30:44
BM	Gra š i	144:29	214	1:10	28:42
BN	Graveri	19:42	62	0:22	2:41
BO	Gundegas	18:45	60	0:25	4:45
BP	Intari	15:32	61	0:22	3:07
BQ	Jansoni	113:05	247	0:43	26:43
BR	Jaunandzmani	2:35	25	0:09	0:47
BS	Jaunandzmani A	3:41	28	0:11	1:08
BT	Jaunaraji	162:17	286	0:50	43:45
BU	Jaunaraji A	0:00	0	0:00	0:00
BV	Jaunbirznieki A	68:57	133	0:52	10:36
BW	Jaunbirznieki B	71:06	135	0:53	10:59
BX	Jaunbrie ž i	13:36	42	0:25	5:00
BY	Jaundobri	0:00	0	0:00	0:00
BZ	Jaunsamie š i	9:34	32	0:23	3:12
CA	Jaunsudrabini	0:00	0	0:00	0:00
CB	Jaunventas	25:07	70	0:25	3:57
CC	Jaunzemji	37:47	113	0:27	10:56
CD	Jorgi	7:26	28	0:23	2:08
CE	Josati	14:33	56	0:23	3:40
CF	Jostnieki A	54:46	99	0:42	8:46
CG	Jostnieki B	59:47	111	0:40	9:52
CH	Jostnieki C	52:21	112	0:37	8:41
CI	Jostnieki D	49:45	112	0:35	8:18
CJ	Jostnieki E	51:23	114	0:36	8:34
CK	Jostnieki F	50:41	110	0:37	8:20
CL	Jostnieki G	49:12	111	0:36	8:07
CM	Jostnieki H	61:51	109	0:42	10:08
CN	Jostnieki I	63:24	114	0:41	10:33
CO	Jostnieki J	65:11	116	0:45	10:53
CP	Jostnieki K	64:34	113	0:43	10:40
CQ	Jostnieki L	66:35	114	0:45	11:03
CR	Jostnieki M	71:15	116	0:49	11:49
CS	Jostnieki N	71:46	114	0:50	11:48
CT	Jostnieki O	69:31	112	0:47	11:23
CU	Jostnieki P	71:01	111	0:48	11:35
CV	Jostnieki R	87:36	113	1:13	14:13
CW	Jostnieki S	88:17	112	1:13	14:16
CX	Jostnieki T	72:39	110	0:49	11:48
CY	Kaleji A	73:38	125	0:50	23:59
CZ	Kaleji B	80:21	137	0:51	26:14
DA	Kaleji C	0:00	0	0:00	0:00
DB	Kalnaraji A	0:00	0	0:00	0:00
DC	Kalnieki	105:16	205	0:52	22:55
DD	Kalnrozes	1:02	11	0:07	0:08

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case: Shadow hours per year [h/year]	Shadow, worst case: Shadow days per year [days/year]	Shadow, worst case: Max shadow hours per day [h/day]	Shadow, expected values: Shadow hours per year [h/year]
DE	Kapsetnieki	85:58	213	0:41	21:18
DF	Kliedini	43:25	94	0:51	9:56
DG	Klintnieki	22:34	62	0:25	3:32
DH	Kniplokkalni	50:17	99	0:55	11:49
DI	Krasti A	28:53	66	0:30	4:02
DJ	Krasti B	26:23	64	0:29	3:40
DK	Krastini	0:00	0	0:00	0:00
DL	Krastkalni	0:00	0	0:00	0:00
DM	Kraujas	35:29	96	0:28	5:50
DN	Krumini	63:18	174	0:30	20:13
DO	Kurpnieki	0:00	0	0:00	0:00
DP	Kveldes	16:22	59	0:24	4:03
DQ	Lagzdienas Kalni	2:15	16	0:11	0:19
DR	Lagzdini	0:00	0	0:00	0:00
DS	Laucinieki	0:00	0	0:00	0:00
DT	Laucini	0:00	0	0:00	0:00
DU	Lazdaine	13:56	54	0:22	3:31
DV	Lazdkalni	14:48	60	0:21	2:47
DW	Lei š i	0:00	0	0:00	0:00
DX	Lielbrie ž i	13:20	42	0:25	4:56
DY	Liepas	0:00	0	0:00	0:00
DZ	Liepnieki	20:56	52	0:29	3:10
EA	Liepzari	6:59	28	0:20	1:22
EB	Lici	0:00	0	0:00	0:00
EC	Maki	0:00	0	0:00	0:00
ED	Maurini	0:00	0	0:00	0:00
EE	Mazabelnieki	16:15	44	0:27	2:23
EF	Mazabelnieki	57:24	145	0:48	9:25
EG	Mazbruveri	0:00	0	0:00	0:00
EH	Mazdunkuri	136:26	220	1:00	27:33
EI	Mazjorgi	7:37	28	0:23	2:21
EJ	Mazkaleji	0:00	0	0:00	0:00
EK	Mazlaucnieki	0:00	0	0:00	0:00
EL	Mazpulki	0:00	0	0:00	0:00
EM	Mazratnieki	0:00	0	0:00	0:00
EN	Mazru š ki	0:00	0	0:00	0:00
EO	Malaraji	20:20	56	0:25	3:09
EP	Mednieki	131:57	224	1:00	27:03
EQ	Meldri	18:09	61	0:25	4:21
ER	Melki	84:21	199	0:40	18:40
ES	Mendeli	116:21	239	0:45	26:50
ET	Me ž araji	32:30	89	0:29	12:16
EU	Me ž gali	56:43	162	0:31	17:54
EV	Me ž rozes	6:27	28	0:17	0:55
EW	Metras	16:35	57	0:24	4:22
EX	Mucenieki	8:38	30	0:23	2:26
EY	Mui ž araji	9:58	34	0:23	3:27
EZ	Nikas	259:35	239	2:29	49:33
FA	Novadlauki	11:45	38	0:27	2:44
FB	Olkalni	0:00	0	0:00	0:00
FC	Ornamenti	18:22	61	0:25	4:30
FD	O š enieki	19:11	44	0:39	2:52
FE	O š i	0:00	0	0:00	0:00
FF	Ozoli	23:51	73	0:28	7:20
FG	Ozolini	21:16	64	0:23	2:54
FH	Ozolkalni	17:05	42	0:36	3:45
FI	Ozolnieki	56:12	98	0:47	7:47
FJ	Palasites	15:07	56	0:23	3:58
FK	Pauni	45:38	135	0:27	10:54
FL	Pilad ž i	14:17	53	0:23	3:39
FM	Plavnieki	3:21	19	0:13	0:28
FN	Priednieki A	55:59	135	0:45	9:57
FO	Priednieki B	55:14	135	0:43	9:51

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
FP	Priedulaji	116:25	130	1:16	41:56
FQ	Priedulaji 2	129:45	138	1:16	46:11
FR	Prie ž gali	139:14	209	1:08	27:16
FS	Puili	0:00	0	0:00	0:00
FT	Pumpuri	39:18	86	0:53	6:04
FU	Punaki	100:49	174	0:52	18:30
FV	Purenes	18:04	64	0:23	3:28
FW	Pucmaja A	28:40	62	0:33	3:59
FX	Pucmaja B	30:26	64	0:33	4:15
FY	Pucmaja C	25:17	58	0:31	3:31
FZ	Pucmaja D	25:31	58	0:31	3:32
GA	Rasas	24:39	74	0:25	3:54
GB	Ratnieki	0:00	0	0:00	0:00
GC	Rebekas	0:00	0	0:00	0:00
GD	Reipuseri	0:00	0	0:00	0:00
GE	Remesi	10:40	34	0:26	3:16
GF	Rijnieki	42:00	129	0:27	11:54
GG	Rijvalki	22:26	66	0:24	3:31
GH	Robe ž nieki	0:00	0	0:00	0:00
GI	Rolli	39:38	84	0:51	9:45
GJ	Rozes	7:25	30	0:20	1:20
GK	Ro ž kalni	101:14	137	1:28	15:57
GL	Ro ž lejas	19:08	63	0:25	4:21
GM	Rubini	17:39	60	0:25	4:47
GN	Rudevici	42:43	121	0:34	9:43
GO	Ruki š i	14:38	58	0:21	2:59
GP	Saulgrie ž i	18:49	65	0:24	4:01
GQ	Saulie š i	0:00	0	0:00	0:00
GR	Saulites	0:00	0	0:00	0:00
GS	Saulstari	36:58	82	0:49	9:00
GT	Sendobri	0:00	0	0:00	0:00
GU	Silaraji	99:20	210	1:03	28:42
GV	Silini B	0:00	0	0:00	0:00
GW	Silnieki	115:56	215	1:17	30:46
GX	Smiltnieki B	0:00	0	0:00	0:00
GY	Spridi š i	13:51	55	0:21	2:50
GZ	Stari	18:19	61	0:25	4:27
HA	Strautini	165:11	181	1:27	31:24
HB	Strazdi	6:36	26	0:20	2:12
HC	Strazdini A	0:00	0	0:00	0:00
HD	Strazdini B	18:24	65	0:23	3:25
HE	Sturi š i	0:00	0	0:00	0:00
HF	Svires	51:17	163	0:27	15:31
HG	Šalkas	16:38	58	0:24	4:20
HH	Terandes mui ž a	0:00	0	0:00	0:00
HI	Terandnieki A	0:00	0	0:00	0:00
HJ	Terandnieki B	0:00	0	0:00	0:00
HK	Terces	14:04	56	0:21	3:03
HL	Uplejas A	104:03	167	1:02	18:45
HM	Uplejas B	114:15	171	1:05	20:32
HN	Vaivari	7:07	29	0:20	1:18
HO	Valcenieki	79:17	116	1:18	12:00
HP	Valkaraji	9:20	30	0:23	3:00
HQ	Vanagi	185:17	178	1:42	35:39
HR	Varpas	17:52	60	0:24	4:13
HS	Veckrastnieki	31:34	74	0:30	4:58
HT	Vecpriednieki	0:00	0	0:00	0:00
HU	Vendzavas	39:12	90	0:46	5:46
HV	Ventaskrasti A	0:00	0	0:00	0:00
HW	Ventaskrasti B	0:00	0	0:00	0:00
HX	Ventaskrasti C	6:55	30	0:18	1:00
HY	Ventaskrasti D	0:00	0	0:00	0:00
HZ	Ventaskrasti E	0:00	0	0:00	0:00

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
IA	Ventaskrasti F	0:00	0	0:00	0:00
IB	Ventaskrasti G	7:35	31	0:19	1:06
IC	Ventaskrasti H	0:00	0	0:00	0:00
ID	Ventaskrasti I	8:19	32	0:19	1:13
IE	Vetiecirknis	3:53	20	0:14	0:32
IF	Vesmas	0:00	0	0:00	0:00
IG	Vetras	0:00	0	0:00	0:00
IH	Vilni š i A	15:28	56	0:23	3:39
II	Vir š i	14:48	55	0:23	3:46
IJ	Vizuli	112:22	94	1:30	17:12
IK	Vitoli A	17:26	59	0:24	4:04
IL	Zaki	0:00	0	0:00	0:00
IM	Zeltini	41:45	84	0:54	6:24
IN	Ziemelbrie ž i	13:07	43	0:24	4:52
IO	Ziru skola A	7:09	26	0:21	2:15
IP	Ziru skola B	15:20	56	0:22	4:16
IQ	Ziles	0:00	0	0:00	0:00
IR	Zilites	16:26	57	0:24	4:07
IS	Zu š i	59:50	86	1:01	9:33

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
1	V-2_1 (Ventspils-2)	267:04	52:11
2	V-2_3 (Ventspils-2)	218:22	42:29
3	V-2_6 (Ventspils-2)	216:21	47:14
4	V-2_7 (Ventspils-2)	109:13	24:38
5	V-2_8 (Ventspils-2)	20:22	3:50
6	V-2_9 (Ventspils-2)	24:30	4:03
7	V-2_10 (Ventspils-2)	176:43	36:03
8	V-2_11 (Ventspils-2)	143:07	27:02
9	V-2_12 (Ventspils-2)	341:00	65:51
10	V-2_13 (Ventspils-2)	280:05	50:51
11	V-2_14 (Ventspils-2)	106:02	17:50
12	V-2_15 (Ventspils-2)	12:44	1:51
13	V-2_17 (Ventspils-2)	0:00	0:00
14	V-2_19 (Ventspils-2)	14:47	5:29
15	V-2_20 (Ventspils-2)	220:05	64:08
16	V-2_21 (Ventspils-2)	152:31	37:25
17	V-2_22 (Ventspils-2)	29:36	8:13
18	V-2_24 (Ventspils-2)	0:00	0:00
19	V-2_25 (Ventspils-2)	0:00	0:00
20	V-2_27 (Ventspils-2)	71:07	17:44
21	V-2_30 (Ventspils-2)	126:42	34:30
22	V-2_32 (Ventspils-2)	0:00	0:00
23	V-2_33 (Ventspils-2)	0:00	0:00
24	V-2_34 (Ventspils-2)	0:00	0:00
25	V-2_35 (Ventspils-2)	0:00	0:00
26	V-2_36 (Ventspils-2)	0:00	0:00
27	V-2_37 (Ventspils-2)	44:23	15:49
28	V-2_40 (Ventspils-2)	152:56	33:38
29	V-2_41 (Ventspils-2)	257:40	47:52
30	V-2_42 (Ventspils-2)	82:22	14:50
31	V-2_43 (Ventspils-2)	50:02	15:52
32	V-2_45 (Ventspils-2)	0:00	0:00
33	V-2_84 (Ventspils-2)	46:11	7:49
34	V-2_85 (Ventspils-2)	190:48	34:20
35	V-2_86 (Ventspils-2)	361:21	68:57
36	V-2_87 (Ventspils-2)	187:22	30:27
37	V-2_88 (Ventspils-2)	15:21	2:06
38	V-2_91 (Ventspils-2)	190:06	50:28
39	V-2_92 (Ventspils-2)	87:28	24:51

To be continued on next page...

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts

SHADOW - Main Result

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
40	V-2_93 (Ventspils-2)	104:22	38:05
41	T92 (Envirsus)	254:31	64:22
42	T93 (Envirsus)	222:33	48:12
43	T94 (Envirsus)	277:26	52:21

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: A - Akmentini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February			March	April	May	June	July	August	September	October			November			December
1	09:14	08:36			07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36			07:43		08:18 (41)	08:47
	16:01	17:00			18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11			16:52	20	08:38 (41)	15:59
2	09:14	08:34			07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38			07:45		08:19 (41)	08:49
	16:03	17:03			18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09			16:49	19	08:38 (41)	15:58
3	09:13	08:32			07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40			07:48		08:21 (41)	08:50
	16:04	17:05			18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06			16:47	16	08:37 (41)	15:57
4	09:13	08:30			07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42			07:50		08:24 (41)	08:52
	16:05	17:07			18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03			16:45	12	08:36 (41)	15:56
5	09:12	08:28		08:58 (41)	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44			07:52		08:26 (41)	08:54
	16:07	17:09	5	09:03 (41)	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00			16:43	9	08:35 (41)	15:55
6	09:12	08:26		08:56 (41)	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46			07:54		08:29 (41)	08:55
	16:08	17:12	9	09:05 (41)	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58			16:40	4	08:33 (41)	15:54
7	09:11	08:24		08:54 (41)	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48			07:57			08:57
	16:10	17:14	13	09:07 (41)	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55			16:38			15:54
8	09:10	08:21		08:51 (41)	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51			07:59			08:58
	16:11	17:16	16	09:07 (41)	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52			16:36			15:53
9	09:10	08:19		08:49 (41)	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53			08:01			09:00
	16:13	17:19	19	09:08 (41)	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50			16:34			15:53
10	09:09	08:17		08:48 (41)	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55			08:03			09:01
	16:15	17:21	20	09:08 (41)	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47			16:32			15:52
11	09:08	08:15		08:48 (41)	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57			08:06			09:02
	16:16	17:23	21	09:09 (41)	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44			16:30			15:52
12	09:07	08:12		08:48 (41)	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59			08:08			09:04
	16:18	17:26	20	09:08 (41)	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42			16:28			15:51
13	09:06	08:10		08:48 (41)	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01			08:10			09:05
	16:20	17:28	21	09:09 (41)	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39			16:26			15:51
14	09:05	08:08		08:48 (41)	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03			08:12			09:06
	16:22	17:30	20	09:08 (41)	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36			16:24			15:51
15	09:04	08:05		08:49 (41)	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06			08:14			09:07
	16:24	17:33	19	09:08 (41)	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34			16:22			15:51
16	09:02	08:03		08:50 (41)	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08			08:17			09:08
	16:26	17:35	16	09:06 (41)	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31			16:20			15:51
17	09:01	08:00		08:52 (41)	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10			08:19			09:09
	16:28	17:37	14	09:06 (41)	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29			16:19			15:51
18	09:00	07:58		08:53 (41)	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12			08:21			09:10
	16:30	17:40	10	09:03 (41)	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26			16:17			15:51
19	08:58	07:56			06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14			08:23			09:10
	16:32	17:42			18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23			16:15			15:51
20	08:57	07:53			06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16			08:25			09:11
	16:34	17:44			18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21			16:14			15:52
21	08:55	07:51			06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19			08:27			09:12
	16:36	17:46			18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18			16:12			15:52
22	08:54	07:48			06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21			08:29			09:12
	16:38	17:49			18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16			16:10			15:52
23	08:52	07:46			06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23		09:25 (41)	08:31			09:13
	16:40	17:51			18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	6	09:31 (41)	16:09			15:53
24	08:51	07:43			06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25		09:23 (41)	08:33			09:13
	16:42	17:53			18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	11	09:34 (41)	16:07			15:54
25	08:49	07:40			06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:28		08:21 (41)	08:35			09:14
	16:45	17:56			18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	14	08:35 (41)	16:06			15:54
26	08:47	07:38			06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30		08:20 (41)	08:37			09:14
	16:47	17:58			18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	17	08:37 (41)	16:05			15:55
27	08:45	07:35			06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32		08:19 (41)	08:39			09:14
	16:49	18:00			19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	18	08:37 (41)	16:03			15:56
28	08:44	07:33			06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34		08:19 (41)	08:41			09:14
	16:51	18:02			19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	19	08:38 (41)	16:02			15:57
29	08:42				07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36		08:18 (41)	08:43			09:14
	16:53				20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	20	08:38 (41)	16:01			15:58
30	08:40				07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39		08:17 (41)	08:45			09:14
	16:56				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	21	08:38 (41)	16:00			15:59
31	08:38				07:09		04:50		05:28	06:32		07:41		08:18 (41)				09:14
	16:58				20:10		22:14		21:52	20:36		16:54	20	08:38 (41)				16:00
Potential sun hours	231	264			366	428	512	534	534	472	385	322			244			211
Total, worst case			223										146			80		
Sun reduction			0.33										0.42			0.23		
Oper. time red.			0.94										0.94			0.94		
Wind dir. red.			0.59										0.59			0.59		
Total reduction			0.19										0.24			0.13		
Total, real			41										34			10		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: B - Alksnini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June	
1	09:14		10:16 (15)	08:36		10:05 (3)	07:30		08:10 (4)	07:06		08:46 (41)	05:48		06:16 (43)	04:49	
	16:01	25	10:41 (15)	17:00	29	10:34 (3)	18:05	29	08:39 (4)	20:12	32	09:18 (41)	21:16	48	07:26 (42)	22:16	
2	09:13		10:16 (15)	08:34		10:05 (3)	07:27		08:09 (4)	07:03		08:47 (41)	05:45		06:14 (43)	04:48	
	16:03	25	10:41 (15)	17:03	28	10:33 (3)	18:07	31	08:40 (4)	20:14	29	09:16 (41)	21:19	50	07:25 (42)	22:17	
3	09:13		10:07 (3)	08:32		10:06 (3)	07:25		08:08 (4)	07:01		08:48 (41)	05:43		06:13 (43)	04:47	
	16:04	31	10:42 (15)	17:05	26	10:32 (3)	18:09	32	08:40 (4)	20:16	25	09:13 (41)	21:21	50	07:24 (42)	22:19	
4	09:13		10:05 (3)	08:30		10:08 (3)	07:22		08:08 (4)	06:58		08:51 (41)	05:41		06:12 (43)	04:46	
	16:05	35	10:42 (15)	17:07	24	10:32 (3)	18:11	32	08:40 (4)	20:18	19	09:10 (41)	21:23	51	07:24 (42)	22:20	
5	09:12		10:04 (3)	08:28		10:09 (3)	07:20		08:08 (4)	06:55		08:56 (41)	05:38		06:12 (43)	04:45	
	16:07	39	10:43 (15)	17:09	21	10:30 (3)	18:13	32	08:40 (4)	20:21	9	09:05 (41)	21:25	48	07:22 (42)	22:21	
6	09:12		10:03 (3)	08:26		10:11 (3)	07:17		08:07 (4)	06:52			05:36		06:10 (43)	04:44	
	16:08	40	10:43 (15)	17:12	17	10:28 (3)	18:16	33	08:40 (4)	20:23			21:27	48	07:20 (42)	22:23	
7	09:11		10:03 (3)	08:23		10:14 (3)	07:14		08:03 (41)	06:50			05:34		06:10 (43)	04:43	
	16:10	40	10:43 (15)	17:14	12	10:26 (3)	18:18	36	08:39 (4)	20:25			21:29	45	07:19 (42)	22:24	
8	09:10		10:02 (3)	08:21			07:12		07:59 (41)	06:47			05:32		06:10 (43)	04:42	
	16:11	42	10:44 (15)	17:16			18:20	40	08:39 (4)	20:27			21:31	41	07:17 (42)	22:25	
9	09:10		10:02 (3)	08:19			07:09		07:56 (41)	06:44			05:29		06:10 (43)	04:41	
	16:13	42	10:44 (15)	17:19			18:22	42	08:38 (4)	20:29			21:33	36	07:14 (42)	22:26	
10	09:09		10:02 (3)	08:17			07:06		07:32 (5)	06:42			05:27		06:10 (43)	04:40	
	16:15	42	10:44 (15)	17:21			18:24	52	08:37 (4)	20:31			21:35	25	06:35 (43)	22:27	
11	09:08		10:02 (3)	08:14			07:03		07:29 (5)	06:39		07:11 (2)	05:25		06:10 (43)	04:40	
	16:16	43	10:45 (15)	17:23			18:27	58	08:36 (4)	20:33	12	07:23 (2)	21:38	24	06:34 (43)	22:28	
12	09:07		10:02 (3)	08:12			07:01		07:27 (5)	06:36		07:07 (2)	05:23		06:11 (43)	04:39	
	16:18	43	10:45 (15)	17:26			18:29	62	08:35 (4)	20:36	18	07:25 (2)	21:40	24	06:35 (43)	22:29	
13	09:06		10:01 (3)	08:10			06:58		07:25 (5)	06:34		07:06 (2)	05:21		06:11 (43)	04:39	
	16:20	44	10:45 (15)	17:28			18:31	63	08:33 (4)	20:38	21	07:27 (2)	21:42	23	06:34 (43)	22:30	
14	09:05		10:01 (3)	08:08			06:55		07:24 (5)	06:31		07:04 (2)	05:19		06:12 (43)	04:38	
	16:22	44	10:45 (15)	17:30			18:33	65	08:31 (4)	20:40	24	07:28 (2)	21:44	22	06:34 (43)	22:30	
15	09:03		10:00 (3)	08:05			06:53		07:23 (5)	06:28		07:03 (42)	05:17		06:12 (43)	04:38	
	16:24	45	10:45 (15)	17:33			18:35	64	08:29 (41)	20:42	26	07:29 (2)	21:46	21	06:33 (43)	22:31	
16	09:02		10:01 (3)	08:03			06:50		07:23 (5)	06:26		07:01 (42)	05:15		06:12 (43)	04:38	
	16:26	44	10:45 (15)	17:35			18:38	66	08:30 (41)	20:44	28	07:29 (2)	21:48	20	06:32 (43)	22:32	
17	09:01		10:00 (3)	08:00			06:47		07:23 (5)	06:23		07:00 (42)	05:13		06:14 (43)	04:38	
	16:28	44	10:44 (15)	17:37			18:40	67	08:30 (41)	20:46	30	07:30 (2)	21:50	18	06:32 (43)	22:32	
18	09:00		10:00 (3)	07:58			06:44		07:22 (5)	06:20		06:58 (42)	05:11		06:15 (43)	04:38	
	16:30	43	10:43 (15)	17:40			18:42	68	08:30 (41)	20:49	32	07:30 (2)	21:52	15	06:30 (43)	22:33	
19	08:58		10:00 (3)	07:55			06:42		07:22 (5)	06:18		06:57 (42)	05:09		06:16 (43)	04:38	
	16:32	43	10:43 (15)	17:42			18:44	68	08:30 (41)	20:51	33	07:30 (2)	21:53	13	06:29 (43)	22:33	
20	08:57		10:00 (3)	07:53			06:39		07:24 (5)	06:15		06:56 (42)	05:07		06:18 (43)	04:38	
	16:34	42	10:42 (15)	17:44			18:46	65	08:30 (41)	20:53	34	07:30 (2)	21:55	10	06:28 (43)	22:34	
21	08:55		10:00 (3)	07:51			06:36		07:24 (5)	06:13		06:55 (42)	05:05		06:20 (43)	04:38	
	16:36	40	10:40 (15)	17:46			18:48	64	08:30 (41)	20:55	35	07:30 (2)	21:57	4	06:24 (43)	22:34	
22	08:54		10:00 (3)	07:48			06:33		07:26 (5)	06:10		06:54 (42)	05:04			04:38	
	16:38	33	10:33 (3)	17:49			18:51	59	08:29 (41)	20:57	35	07:29 (42)	21:59			22:34	
23	08:52		10:00 (3)	07:45			06:31		07:29 (5)	06:08		06:54 (42)	05:02			04:38	
	16:40	33	10:33 (3)	17:51			18:53	52	08:28 (41)	20:59	35	07:29 (42)	22:01			22:34	
24	08:51		10:00 (3)	07:43		08:19 (4)	06:28		07:42 (41)	06:05		06:53 (42)	05:00			04:38	
	16:42	34	10:34 (3)	17:53	12	08:31 (4)	18:55	46	08:28 (41)	21:01	35	07:28 (42)	22:03			22:34	
25	08:49		10:00 (3)	07:40		08:17 (4)	06:25		07:42 (41)	06:02		06:53 (42)	04:59			04:39	
	16:45	34	10:34 (3)	17:55	18	08:35 (4)	18:57	46	08:28 (41)	21:04	36	07:29 (42)	22:04			22:34	
26	08:47		10:01 (3)	07:38		08:14 (4)	06:22		07:42 (41)	06:00		06:53 (42)	04:57			04:39	
	16:47	33	10:34 (3)	17:58	22	08:36 (4)	18:59	44	08:26 (41)	21:06	36	07:29 (42)	22:06			22:34	
27	08:45		10:01 (3)	07:35		08:12 (4)	06:20		07:42 (41)	05:57		06:53 (42)	04:56			04:40	
	16:49	33	10:34 (3)	18:00	25	08:37 (4)	19:01	43	08:25 (41)	21:08	35	07:28 (42)	22:08			22:34	
28	08:44		10:02 (3)	07:33		08:12 (4)	06:17		07:43 (41)	05:55		06:53 (42)	04:54			04:40	
	16:51	32	10:34 (3)	18:02	27	08:39 (4)	19:03	42	08:25 (41)	21:10	35	07:28 (42)	22:10			22:34	
29	08:42		10:02 (3)				07:14		08:43 (41)	05:53		06:21 (43)	04:53			04:41	
	16:53	32	10:34 (3)				20:06	40	09:23 (41)	21:12	42	07:28 (42)	22:11			22:34	
30	08:40		10:03 (3)				07:11		08:43 (41)	05:50		06:18 (43)	04:51			04:42	
	16:56	31	10:34 (3)				20:08	39	09:22 (41)	21:14	45	07:26 (42)	22:13			22:33	
31	08:38		10:04 (3)				07:09		08:44 (41)				04:50				
	16:58	30	10:34 (3)				20:10	36	09:20 (41)				22:14				
Potential sun hours	231			264			366			428			512			534	
Total, worst case		1161			261			1516			741			636			
Sun reduction		0.28			0.33			0.46			0.55			0.61			
Oper. time red.		0.94			0.94			0.94			0.94			0.94			
Wind dir. red.		0.60			0.60			0.60			0.64			0.66			
Total reduction		0.15			0.19			0.26			0.33			0.38			
Total, real		180			49			390			241			241			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: B - Alksnini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:42			05:30		06:21 (43)	06:34		07:10 (2)	07:36		08:05 (5)	07:43			08:47		09:44 (3)
	22:33			21:50	24	06:45 (43)	20:34	12	07:22 (2)	19:11	63	09:14 (4)	16:52			15:59	43	10:27 (15)
2	04:43			05:32		06:20 (43)	06:36			07:38		08:07 (5)	07:45			08:48		09:45 (3)
	22:32			21:48	25	06:45 (43)	20:31			19:09	60	09:15 (4)	16:49			15:58	43	10:28 (15)
3	04:44			05:34		06:20 (43)	06:38			07:40		08:09 (5)	07:48			08:50		09:46 (3)
	22:32			21:45	28	07:20 (42)	20:28			19:06	54	09:15 (4)	16:47			15:57	42	10:28 (15)
4	04:45			05:36		06:20 (43)	06:40			07:42		08:11 (5)	07:50		09:43 (3)	08:52		09:47 (3)
	22:31			21:43	38	07:25 (42)	20:26			19:03	47	09:15 (4)	16:45	13	09:56 (3)	15:56	42	10:29 (15)
5	04:46			05:38		06:20 (43)	06:42			07:44		08:34 (41)	07:52		09:40 (3)	08:54		09:48 (3)
	22:30			21:41	43	07:28 (42)	20:23			19:00	41	09:15 (4)	16:43	18	09:58 (3)	15:55	40	10:28 (15)
6	04:47			05:40		06:21 (43)	06:44			07:46		08:38 (41)	07:54		09:39 (3)	08:55		09:49 (3)
	22:29			21:39	44	07:29 (42)	20:20			18:58	38	09:16 (4)	16:40	22	10:01 (3)	15:54	40	10:29 (15)
7	04:48			05:42		06:21 (43)	06:46		08:51 (41)	07:48		08:43 (4)	07:57		09:37 (3)	08:57		09:51 (3)
	22:29			21:37	48	07:31 (42)	20:17	8	08:59 (41)	18:55	33	09:16 (4)	16:38	24	10:01 (3)	15:54	38	10:30 (15)
8	04:50			05:44		06:21 (43)	06:48		08:46 (41)	07:51		08:43 (4)	07:59		09:37 (3)	08:58		09:53 (3)
	22:28			21:34	49	07:32 (42)	20:15	18	09:04 (41)	18:52	33	09:16 (4)	16:36	26	10:03 (3)	15:53	36	10:31 (15)
9	04:51			05:46		06:21 (43)	06:50		08:43 (41)	07:53		08:43 (4)	08:01		09:36 (3)	09:00		09:55 (3)
	22:27			21:32	50	07:32 (42)	20:12	24	09:07 (41)	18:50	32	09:15 (4)	16:34	28	10:04 (3)	15:53	31	10:30 (15)
10	04:52			05:48		06:22 (43)	06:52		08:40 (41)	07:55		08:42 (4)	08:03		09:36 (3)	09:01		10:06 (15)
	22:26			21:30	50	07:33 (42)	20:09	29	09:09 (41)	18:47	32	09:14 (4)	16:32	29	10:05 (3)	15:52	25	10:31 (15)
11	04:54			05:50		06:23 (43)	06:54		08:38 (41)	07:57		08:43 (4)	08:06		09:35 (3)	09:02		10:06 (15)
	22:25			21:27	49	07:34 (42)	20:06	32	09:10 (41)	18:44	31	09:14 (4)	16:30	30	10:05 (3)	15:52	25	10:31 (15)
12	04:55			05:52		06:25 (43)	06:57		08:36 (41)	07:59		08:43 (4)	08:08		09:35 (3)	09:03		10:06 (15)
	22:23			21:25	47	07:34 (42)	20:04	36	09:12 (41)	18:42	30	09:13 (4)	16:28	31	10:06 (3)	15:51	25	10:31 (15)
13	04:56			05:54		06:27 (43)	06:59		08:35 (41)	08:01		08:44 (4)	08:10		09:34 (3)	09:05		10:07 (15)
	22:22			21:22	45	07:35 (42)	20:01	38	09:13 (41)	18:39	28	09:12 (4)	16:26	32	10:06 (3)	15:51	25	10:32 (15)
14	04:58			05:57		06:29 (43)	07:01		08:34 (41)	08:03		08:44 (4)	08:12		09:35 (3)	09:06		10:08 (15)
	22:21			21:20	39	07:35 (42)	19:58	39	09:13 (41)	18:36	26	09:10 (4)	16:24	32	10:07 (3)	15:51	25	10:33 (15)
15	04:59			05:59		07:00 (42)	07:03		08:32 (41)	08:06		08:46 (4)	08:14		09:34 (3)	09:07		10:08 (15)
	22:20			21:18	35	07:35 (42)	19:55	42	09:14 (41)	18:34	24	09:10 (4)	16:22	33	10:07 (3)	15:51	25	10:33 (15)
16	05:01			06:01		07:00 (42)	07:05		08:31 (41)	08:08		08:47 (4)	08:17		09:35 (3)	09:08		10:09 (15)
	22:18			21:15	35	07:35 (42)	19:53	44	09:15 (41)	18:31	21	09:08 (4)	16:20	33	10:08 (3)	15:51	24	10:33 (15)
17	05:03			06:03		07:00 (42)	07:07		08:30 (41)	08:10		08:49 (4)	08:19		09:34 (3)	09:09		10:09 (15)
	22:17			21:13	35	07:35 (42)	19:50	45	09:15 (41)	18:29	16	09:05 (4)	16:19	34	10:08 (3)	15:51	25	10:34 (15)
18	05:04			06:05		07:00 (42)	07:09		08:29 (41)	08:12		08:52 (4)	08:21		09:34 (3)	09:10		10:10 (15)
	22:15			21:10	35	07:35 (42)	19:47	46	09:15 (41)	18:26	10	09:02 (4)	16:17	34	10:08 (3)	15:51	24	10:34 (15)
19	05:06			06:07		07:00 (42)	07:11		08:29 (41)	08:14			08:23		09:35 (3)	09:10		10:11 (15)
	22:14			21:08	35	07:35 (42)	19:44	46	09:15 (41)	18:23			16:15	33	10:08 (3)	15:51	24	10:35 (15)
20	05:08			06:09		07:00 (42)	07:13		08:28 (41)	08:16			08:25		09:35 (3)	09:11		10:10 (15)
	22:12			21:05	35	07:35 (42)	19:42	47	09:15 (41)	18:21			16:14	33	10:08 (3)	15:52	25	10:35 (15)
21	05:09			06:11		07:00 (42)	07:15		08:12 (5)	08:19			08:27		09:36 (3)	09:12		10:11 (15)
	22:10			21:03	35	07:35 (2)	19:39	59	09:15 (41)	18:18			16:12	40	10:16 (15)	15:52	25	10:36 (15)
22	05:11			06:13		07:00 (42)	07:17		08:09 (5)	08:21			08:29		09:36 (3)	09:12		10:11 (15)
	22:09			21:00	35	07:35 (2)	19:36	63	09:14 (41)	18:16			16:10	42	10:18 (15)	15:52	25	10:36 (15)
23	05:13		06:29 (43)	06:15		07:00 (42)	07:19		08:08 (5)	08:23			08:31		09:37 (3)	09:13		10:12 (15)
	22:07	7	06:36 (43)	20:57	33	07:33 (2)	19:33	65	09:14 (41)	18:13			16:09	42	10:19 (15)	15:53	25	10:37 (15)
24	05:15		06:27 (43)	06:17		07:00 (42)	07:21		08:06 (5)	08:25			08:33		09:38 (3)	09:13		10:13 (15)
	22:05	12	06:39 (43)	20:55	33	07:33 (2)	19:31	67	09:13 (41)	18:11			16:07	43	10:21 (15)	15:54	24	10:37 (15)
25	05:17		06:25 (43)	06:19		07:01 (42)	07:23		08:05 (5)	07:27			08:35		09:38 (3)	09:14		10:13 (15)
	22:03	15	06:40 (43)	20:52	31	07:32 (2)	19:28	68	09:13 (41)	17:08			16:06	44	10:22 (15)	15:54	24	10:37 (15)
26	05:18		06:24 (43)	06:21		07:02 (42)	07:25		08:05 (5)	07:30			08:37		09:39 (3)	09:14		10:13 (15)
	22:02	17	06:41 (43)	20:50	30	07:32 (2)	19:25	67	09:12 (41)	17:06			16:05	44	10:23 (15)	15:55	25	10:38 (15)
27	05:20		06:24 (43)	06:24		07:03 (42)	07:27		08:04 (5)	07:32			08:39		09:39 (3)	09:14		10:13 (15)
	22:00	18	06:42 (43)	20:47	28	07:31 (2)	19:22	67	09:11 (41)	17:03			16:03	45	10:24 (15)	15:56	25	10:38 (15)
28	05:22		06:23 (43)	06:26		07:04 (42)	07:30		08:04 (5)	07:34			08:41		09:41 (3)	09:14		10:14 (15)
	21:58	21	06:44 (43)	20:44	26	07:30 (2)	19:20	65	09:10 (41)	17:01			16:02	44	10:25 (15)	15:57	25	10:39 (15)
29	05:24		06:22 (43)	06:28		07:05 (2)	07:32		08:05 (5)	07:36			08:43		09:42 (3)	09:14		10:15 (15)
	21:56	21	06:43 (43)	20:42	23	07:28 (2)	19:17	64	09:11 (4)	16:59			16:01	44	10:26 (15)	15:58	24	10:39 (15)
30	05:26		06:22 (43)	06:30		07:06 (2)	07:34		08:05 (5)	07:39			08:45		09:43 (3)	09:14		10:15 (15)
	21:54	22	06:44 (43)	20:39	21	07:27 (2)	19:14	65	09:13 (4)	16:56			16:00	43	10:26 (15)	15:59	25	10:40 (15)
31	05:28		06:21 (43)	06:32		07:07 (2)				07:41						09:14		10:15 (15)
	21:52	24	06:45 (43)	20:36	18	07:25 (2)				16:54						16:00	25	10:40 (15)
Potential sun hours	534			472			385			322			244			211		
Total, worst case		157			1102			1156			619			916			899	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.67			0.65			0.60			0.60			0.60			0.61	
Total reduction		0.38			0.36			0.28			0.24			0.13			0.13	
Total, real		59			393			322			148			118			116	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: C - Amatnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April		May	June
1	09:14		08:36		09:11 (3)		07:30		07:06	05:48	04:49
	16:01		17:00	16	09:27 (3)		18:05		20:12	21:17	22:16
2	09:14		08:34		09:09 (3)		07:27		07:03	05:45	04:48
	16:03		17:03	19	09:28 (3)		18:07		20:14	21:19	22:17
3	09:13		08:32		09:08 (3)		07:25		07:01	05:43	04:47
	16:04		17:05	21	09:29 (3)		18:09		20:16	21:21	22:19
4	09:13		08:30		09:08 (3)		07:22	07:49 (4)	06:58	05:41	04:46
	16:05		17:07	23	09:31 (3)		18:11	11 08:00 (4)	20:18	21:23	22:20
5	09:12		08:28		09:07 (3)		07:20	07:46 (4)	06:55	05:38	04:45
	16:07		17:10	24	09:31 (3)		18:13	16 08:02 (4)	20:21	21:25	22:21
6	09:12		08:26		09:07 (3)		07:17	07:44 (4)	06:52	07:18 (2)	05:36	04:44
	16:08		17:12	25	09:32 (3)		18:16	19 08:03 (4)	20:23	7 07:25 (2)	21:27	22:23
7	09:11		08:23		09:07 (3)		07:14	07:44 (4)	06:50	07:16 (42)	05:34	04:43
	16:10		17:14	26	09:33 (3)		18:18	20 08:04 (4)	20:25	12 07:28 (2)	21:29	22:24
8	09:10		08:21		09:06 (3)		07:12	07:42 (4)	06:47	07:13 (42)	05:32	04:42
	16:11		17:16	26	09:32 (3)		18:20	23 08:05 (4)	20:27	16 07:29 (2)	21:31	22:25
9	09:10		08:19		09:07 (3)		07:09	07:41 (4)	06:44	07:10 (42)	05:29	04:41
	16:13		17:19	26	09:33 (3)		18:22	24 08:05 (4)	20:29	19 07:29 (2)	21:33	22:26
10	09:09		08:17		09:06 (3)		07:06	07:41 (4)	06:42	07:09 (42)	05:27	04:41
	16:15		17:21	26	09:32 (3)		18:25	23 08:04 (4)	20:31	21 07:30 (2)	21:36	22:27
11	09:08		08:15		09:07 (3)		07:03	07:41 (4)	06:39	07:07 (42)	05:25	04:40
	16:16		17:23	26	09:33 (3)		18:27	24 08:05 (4)	20:33	23 07:30 (2)	21:38	22:28
12	09:07		08:12		09:07 (3)		07:01	07:41 (4)	06:36	07:06 (42)	05:23	04:39
	16:18		17:26	25	09:32 (3)		18:29	23 08:04 (4)	20:36	24 07:30 (2)	21:40	22:29
13	09:06		08:10		09:08 (3)		06:58	07:41 (4)	06:34	07:06 (42)	05:21	04:39
	16:20		17:28	24	09:32 (3)		18:31	22 08:03 (4)	20:38	24 07:30 (42)	21:42	22:30
14	09:05		08:08		09:08 (3)		06:55	07:25 (41)	06:31	07:05 (42)	05:19	04:38
	16:22		17:30	22	09:30 (3)		18:33	34 08:02 (4)	20:40	24 07:29 (42)	21:44	22:30
15	09:04		08:05		09:10 (3)		06:53	07:22 (41)	06:28	07:05 (42)	05:17	04:38
	16:24		17:33	20	09:30 (3)		18:35	38 08:01 (4)	20:42	24 07:29 (42)	21:46	22:31
16	09:02		08:03		09:10 (3)		06:50	07:21 (41)	06:26	07:05 (42)	05:15	04:38
	16:26		17:35	18	09:28 (3)		18:38	38 08:00 (4)	20:44	23 07:28 (42)	21:48	22:32
17	09:01		08:00		09:13 (3)		06:47	07:19 (41)	06:23	07:06 (42)	05:13	04:38
	16:28		17:37	14	09:27 (3)		18:40	38 07:58 (4)	20:46	22 07:28 (42)	21:50	22:32
18	09:00		07:58		09:16 (3)		06:44	07:18 (41)	06:20	07:05 (42)	05:11	04:38
	16:30		17:40	7	09:23 (3)		18:42	33 07:54 (4)	20:49	22 07:27 (42)	21:52	22:33
19	08:58		07:55				06:42	07:16 (41)	06:18	07:07 (42)	05:09	04:38
	16:32		17:42				18:44	28 07:44 (41)	20:51	19 07:26 (42)	21:54	22:33
20	08:57		07:53				06:39	07:16 (41)	06:15	07:07 (42)	05:07	04:38
	16:34		17:44				18:46	29 07:45 (41)	20:53	18 07:25 (42)	21:55	22:34
21	08:55		07:51				06:36	07:15 (41)	06:13	07:09 (42)	05:05	04:38
	16:36		17:46				18:48	30 07:45 (41)	20:55	14 07:23 (42)	21:57	22:34
22	08:54		07:48				06:33	07:15 (41)	06:10	07:10 (42)	05:04	04:38
	16:38		17:49				18:51	29 07:44 (41)	20:57	10 07:20 (42)	21:59	22:34
23	08:52		07:46				06:31	07:14 (41)	06:08		05:02	04:38
	16:40		17:51				18:53	30 07:44 (41)	20:59		22:01	22:34
24	08:51		07:43				06:28	07:15 (41)	06:05		05:00	04:38
	16:42		17:53				18:55	29 07:44 (41)	21:01		22:03	22:34
25	08:49		07:40				06:25	07:14 (41)	06:03		04:59	04:39
	16:45		17:56				18:57	29 07:43 (41)	21:04		22:05	22:34
26	08:47		07:38				06:23	07:14 (41)	06:00		04:57	04:39
	16:47		17:58				18:59	28 07:42 (41)	21:06		22:06	22:34
27	08:45		07:35				06:20	07:15 (41)	05:58		04:56	04:40
	16:49		18:00				19:01	25 07:40 (41)	21:08		22:08	22:34
28	08:44		07:33				06:17	07:16 (41)	05:55		04:54	04:40
	16:51		18:02				19:03	24 07:40 (41)	21:10		22:10	22:34
29	08:42						07:14	08:17 (41)	05:53		04:53	04:41
	16:53						20:06	21 08:38 (41)	21:12		22:11	22:34
30	08:40	09:14 (3)					07:12	08:18 (41)	05:50		04:51	04:42
	16:56	8 09:22 (3)					20:08	17 08:35 (41)	21:14		22:13	22:33
31	08:38	09:12 (3)					07:09	08:20 (41)			04:50	
	16:58	13 09:25 (3)					20:10	12 08:32 (41)			22:14	
Potential sun hours	231		264		366		428		512	534	
Total, worst case	21		388		717		322			
Sun reduction	0.28		0.33		0.46		0.55			
Oper. time red.	0.94		0.94		0.94		0.94			
Wind dir. red.	0.58		0.58		0.61		0.64			
Total reduction	0.15		0.18		0.26		0.33			
Total, real	3		71		187		106			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: C - Amatnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August			September			October			November			December
1	04:43	05:30			06:34		07:06 (42)	07:36		08:20 (4)	07:43		08:36 (3)	08:47
	22:33	21:50			20:34	23	07:29 (2)	19:11	23	08:43 (4)	16:52	26	09:02 (3)	15:59
2	04:43	05:32			06:36		07:07 (42)	07:38		08:19 (4)	07:45		08:36 (3)	08:49
	22:32	21:48			20:31	21	07:28 (2)	19:09	24	08:43 (4)	16:49	26	09:02 (3)	15:58
3	04:44	05:34			06:38		07:08 (42)	07:40		08:19 (4)	07:48		08:36 (3)	08:50
	22:32	21:45			20:28	19	07:27 (2)	19:06	24	08:43 (4)	16:47	26	09:02 (3)	15:57
4	04:45	05:36			06:40		07:10 (42)	07:42		08:18 (4)	07:50		08:36 (3)	08:52
	22:31	21:43			20:26	16	07:26 (2)	19:03	24	08:42 (4)	16:45	26	09:02 (3)	15:56
5	04:46	05:38			06:42		07:12 (42)	07:44		08:18 (4)	07:52		08:36 (3)	08:54
	22:30	21:41			20:23	12	07:24 (2)	19:00	23	08:41 (4)	16:43	25	09:01 (3)	15:55
6	04:47	05:40			06:44		07:14 (2)	07:46		08:19 (4)	07:54		08:37 (3)	08:55
	22:30	21:39			20:20	7	07:21 (2)	18:58	22	08:41 (4)	16:40	24	09:01 (3)	15:54
7	04:49	05:42			06:46			07:48		08:20 (4)	07:57		08:38 (3)	08:57
	22:29	21:37			20:17			18:55	20	08:40 (4)	16:38	22	09:00 (3)	15:54
8	04:50	05:44			06:48			07:51		08:21 (4)	07:59		08:39 (3)	08:58
	22:28	21:34			20:15			18:52	17	08:38 (4)	16:36	21	09:00 (3)	15:53
9	04:51	05:46			06:50			07:53		08:22 (4)	08:01		08:40 (3)	09:00
	22:27	21:32			20:12			18:50	14	08:36 (4)	16:34	19	08:59 (3)	15:53
10	04:52	05:48			06:52			07:55		08:24 (4)	08:03		08:42 (3)	09:01
	22:26	21:30			20:09			18:47	8	08:32 (4)	16:32	16	08:58 (3)	15:52
11	04:54	05:50			06:55			07:57			08:06		08:43 (3)	09:02
	22:25	21:27			20:06			18:44			16:30	13	08:56 (3)	15:52
12	04:55	05:52			06:57		08:13 (41)	07:59			08:08		08:46 (3)	09:03
	22:23	21:25			20:04	11	08:24 (41)	18:42			16:28	8	08:54 (3)	15:51
13	04:56	05:54			06:59		08:10 (41)	08:01			08:10			09:05
	22:22	21:22			20:01	16	08:26 (41)	18:39			16:26			15:51
14	04:58	05:57			07:01		08:07 (41)	08:03			08:12			09:06
	22:21	21:20			19:58	21	08:28 (41)	18:36			16:24			15:51
15	04:59	05:59			07:03		08:06 (41)	08:06			08:14			09:07
	22:20	21:18			19:55	23	08:29 (41)	18:34			16:22			15:51
16	05:01	06:01			07:05		08:04 (41)	08:08			08:17			09:08
	22:18	21:15			19:53	26	08:30 (41)	18:31			16:20			15:51
17	05:03	06:03			07:07		08:03 (41)	08:10			08:19			09:09
	22:17	21:13			19:50	27	08:30 (41)	18:29			16:19			15:51
18	05:04	06:05			07:09		08:02 (41)	08:12			08:21			09:10
	22:15	21:10			19:47	28	08:30 (41)	18:26			16:17			15:51
19	05:06	06:07			07:11		08:01 (41)	08:14			08:23			09:10
	22:14	21:08			19:44	29	08:30 (41)	18:23			16:15			15:51
20	05:08	06:09			07:13		08:01 (41)	08:16			08:25			09:11
	22:12	21:05			19:42	29	08:30 (41)	18:21			16:14			15:52
21	05:09	06:11		07:15 (42)	07:15		08:00 (41)	08:19			08:27			09:12
	22:11	21:03	11	07:26 (42)	19:39	30	08:30 (41)	18:18			16:12			15:52
22	05:11	06:13		07:13 (42)	07:17		08:00 (41)	08:21			08:29			09:12
	22:09	21:00	15	07:28 (42)	19:36	29	08:29 (41)	18:16			16:10			15:53
23	05:13	06:15		07:10 (42)	07:19		08:00 (41)	08:23			08:31			09:13
	22:07	20:57	18	07:28 (42)	19:33	29	08:29 (41)	18:13			16:09			15:53
24	05:15	06:17		07:09 (42)	07:21		08:00 (41)	08:25		09:45 (3)	08:33			09:13
	22:05	20:55	20	07:29 (42)	19:31	28	08:28 (41)	18:11	9	09:54 (3)	16:07			15:54
25	05:17	06:19		07:08 (42)	07:23		08:00 (41)	07:27		08:42 (3)	08:35			09:14
	22:04	20:52	22	07:30 (42)	19:28	27	08:27 (41)	17:08	15	08:57 (3)	16:06			15:54
26	05:18	06:21		07:07 (42)	07:25		08:01 (41)	07:30		08:40 (3)	08:37			09:14
	22:02	20:50	23	07:30 (42)	19:25	36	08:39 (4)	17:06	19	08:59 (3)	16:05			15:55
27	05:20	06:24		07:07 (42)	07:27		08:01 (41)	07:32		08:39 (3)	08:39			09:14
	22:00	20:47	23	07:30 (42)	19:22	39	08:40 (4)	17:04	21	09:00 (3)	16:03			15:56
28	05:22	06:26		07:06 (42)	07:30		08:03 (41)	07:34		08:37 (3)	08:41			09:14
	21:58	20:44	24	07:30 (42)	19:20	39	08:42 (4)	17:01	23	09:00 (3)	16:02			15:57
29	05:24	06:28		07:06 (42)	07:32		08:05 (41)	07:36		08:37 (3)	08:43			09:14
	21:56	20:42	24	07:30 (42)	19:17	36	08:43 (4)	16:59	24	09:01 (3)	16:01			15:58
30	05:26	06:30		07:06 (42)	07:34		08:08 (41)	07:39		08:36 (3)	08:45			09:14
	21:54	20:39	24	07:30 (42)	19:14	30	08:43 (4)	16:56	25	09:01 (3)	16:00			15:59
31	05:28	06:32		07:06 (42)				07:41		08:36 (3)				09:14
	21:52	20:36	24	07:30 (2)				16:54	26	09:02 (3)				16:00
Potential sun hours	534	472			385			322			244			211
Total, worst case			228			631			361			252		
Sun reduction			0.59			0.50			0.42			0.23		
Oper. time red.			0.94			0.94			0.94			0.94		
Wind dir. red.			0.64			0.61			0.59			0.58		
Total reduction			0.35			0.29			0.23			0.13		
Total, real			81			181			84			32		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: D - Apsini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April		May	June
1	09:14		08:36		09:20 (3)		07:30		07:58 (41)	07:06		07:42 (42)	05:48	04:49
	16:01		17:00	23	09:43 (3)		18:05	14	08:12 (41)	20:12	22	08:04 (42)	21:17	22:16
2	09:14		08:34		09:19 (3)		07:27		07:55 (41)	07:03		07:42 (42)	05:45	04:48
	16:03		17:03	23	09:42 (3)		18:07	19	08:14 (41)	20:14	21	08:03 (42)	21:19	22:17
3	09:13		08:32		09:20 (3)		07:25		07:54 (41)	07:01		07:42 (42)	05:43	04:47
	16:04		17:05	22	09:42 (3)		18:09	21	08:15 (41)	20:16	20	08:02 (42)	21:21	22:19
4	09:13		08:30		09:21 (3)		07:22		07:53 (41)	06:58		07:43 (42)	05:41	04:46
	16:05		17:07	21	09:42 (3)		18:11	23	08:16 (41)	20:18	18	08:01 (42)	21:23	22:20
5	09:12		08:28		09:20 (3)		07:20		07:52 (41)	06:55		07:44 (42)	05:38	04:45
	16:07		17:10	21	09:41 (3)		18:13	24	08:16 (41)	20:21	15	07:59 (42)	21:25	22:21
6	09:12		08:26		09:22 (3)		07:17		07:51 (41)	06:52		07:46 (42)	05:36	04:44
	16:08		17:12	19	09:41 (3)		18:16	25	08:16 (41)	20:23	10	07:56 (42)	21:27	22:23
7	09:11		08:23		09:23 (3)		07:14		07:51 (41)	06:50			05:34	04:43
	16:10		17:14	18	09:41 (3)		18:18	26	08:17 (41)	20:25			21:29	22:24
8	09:10		08:21		09:24 (3)		07:12		07:51 (41)	06:47			05:32	04:42
	16:11		17:16	15	09:39 (3)		18:20	26	08:17 (41)	20:27			21:31	22:25
9	09:10		08:19		09:26 (3)		07:09		07:50 (41)	06:44			05:29	04:41
	16:13		17:19	12	09:38 (3)		18:22	26	08:16 (41)	20:29			21:33	22:26
10	09:09		08:17		09:29 (3)		07:06		07:50 (41)	06:42			05:27	04:40
	16:15		17:21	4	09:33 (3)		18:25	25	08:15 (41)	20:31			21:36	22:27
11	09:08		08:15				07:03		07:51 (41)	06:39			05:25	04:40
	16:16		17:23				18:27	24	08:15 (41)	20:34			21:38	22:28
12	09:07		08:12				07:01		07:52 (41)	06:36			05:23	04:39
	16:18		17:26				18:29	22	08:14 (41)	20:36			21:40	22:29
13	09:06		08:10				06:58		07:52 (41)	06:34			05:21	04:39
	16:20		17:28				18:31	20	08:12 (41)	20:38			21:42	22:30
14	09:05		08:08				06:55		07:53 (41)	06:31			05:19	04:38
	16:22		17:30				18:33	17	08:10 (41)	20:40			21:44	22:31
15	09:04		08:05				06:53		07:55 (41)	06:28			05:17	04:38
	16:24		17:33				18:35	12	08:07 (41)	20:42			21:46	22:31
16	09:02		08:03				06:50			06:26			05:15	04:38
	16:26		17:35				18:38			20:44			21:48	22:32
17	09:01		08:00				06:47			06:23			05:13	04:38
	16:28		17:37				18:40			20:46			21:50	22:32
18	09:00		07:58				06:44			06:20			05:11	04:38
	16:30		17:40				18:42			20:49			21:52	22:33
19	08:58		07:56				06:42			06:18			05:09	04:38
	16:32		17:42				18:44			20:51			21:54	22:33
20	08:57		07:53				06:39			06:15			05:07	04:38
	16:34		17:44				18:46			20:53			21:55	22:34
21	08:55		07:51				06:36			06:13			05:05	04:38
	16:36		17:46				18:48			20:55			21:57	22:34
22	08:54		09:28 (3)	07:48			06:33			06:10			05:04	04:38
	16:38	3	09:31 (3)	17:49			18:51			20:57			21:59	22:34
23	08:52		09:26 (3)	07:46			06:31			06:08			05:02	04:38
	16:40	8	09:34 (3)	17:51			18:53			20:59			22:01	22:34
24	08:51		09:24 (3)	07:43			06:28		06:54 (42)	06:05			05:00	04:38
	16:42	11	09:35 (3)	17:53			18:55	6	07:00 (42)	21:01			22:03	22:34
25	08:49		09:23 (3)	07:40			06:25		06:51 (42)	06:03			04:59	04:39
	16:45	15	09:38 (3)	17:56			18:57	11	07:02 (42)	21:04			22:05	22:34
26	08:47		09:20 (3)	07:38			06:23		06:48 (42)	06:00			04:57	04:39
	16:47	18	09:38 (3)	17:58			18:59	15	07:03 (42)	21:06			22:06	22:34
27	08:45		09:20 (3)	07:35			06:20		06:45 (42)	05:58			04:56	04:40
	16:49	19	09:39 (3)	18:00			19:01	18	07:03 (42)	21:08			22:08	22:34
28	08:44		09:19 (3)	07:33		08:01 (41)	06:17		06:44 (42)	05:55			04:54	04:40
	16:51	21	09:40 (3)	18:02	9	08:10 (41)	19:03	21	07:05 (42)	21:10			22:10	22:34
29	08:42		09:19 (3)				07:14		07:43 (42)	05:53			04:53	04:41
	16:53	22	09:41 (3)				20:06	22	08:05 (42)	21:12			22:11	22:34
30	08:40		09:19 (3)				07:12		07:42 (42)	05:50			04:51	04:42
	16:56	22	09:41 (3)				20:08	22	08:04 (42)	21:14			22:13	22:33
31	08:38		09:19 (3)				07:09		07:41 (42)				04:50	
	16:58	23	09:42 (3)				20:10	23	08:04 (42)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		162			187			462			106			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.57			0.57			0.61			0.64			
Total reduction		0.15			0.18			0.26			0.33			
Total, real		24			33			121			35			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: D - Apsini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September			October			November			December
1	04:42	05:30	06:34			07:36		08:31 (41)	07:43		08:58 (3)	08:47
	22:33	21:50	20:34			19:11	21	08:52 (41)	16:52	6	09:04 (3)	15:59
2	04:43	05:32	06:36			07:38		08:30 (41)	07:45		08:55 (3)	08:49
	22:32	21:48	20:31			19:09	23	08:53 (41)	16:49	12	09:07 (3)	15:58
3	04:44	05:34	06:38			07:40		08:29 (41)	07:48		08:53 (3)	08:50
	22:32	21:45	20:28			19:06	24	08:53 (41)	16:47	16	09:09 (3)	15:57
4	04:45	05:36	06:40			07:42		08:28 (41)	07:50		08:52 (3)	08:52
	22:31	21:43	20:26			19:03	25	08:53 (41)	16:45	18	09:10 (3)	15:56
5	04:46	05:38	06:42			07:44		08:27 (41)	07:52		08:51 (3)	08:54
	22:30	21:41	20:23			19:00	26	08:53 (41)	16:43	20	09:11 (3)	15:55
6	04:47	05:40	06:44		07:42 (42)	07:46		08:27 (41)	07:54		08:51 (3)	08:55
	22:30	21:39	20:20	10	07:52 (42)	18:58	26	08:53 (41)	16:40	21	09:12 (3)	15:54
7	04:49	05:42	06:46		07:39 (42)	07:48		08:27 (41)	07:57		08:50 (3)	08:57
	22:29	21:37	20:17	15	07:54 (42)	18:55	26	08:53 (41)	16:38	22	09:12 (3)	15:54
8	04:50	05:44	06:48		07:38 (42)	07:51		08:27 (41)	07:59		08:51 (3)	08:58
	22:28	21:34	20:15	17	07:55 (42)	18:52	25	08:52 (41)	16:36	22	09:13 (3)	15:53
9	04:51	05:46	06:50		07:36 (42)	07:53		08:27 (41)	08:01		08:50 (3)	09:00
	22:27	21:32	20:12	20	07:56 (42)	18:50	24	08:51 (41)	16:34	23	09:13 (3)	15:53
10	04:52	05:48	06:52		07:35 (42)	07:55		08:27 (41)	08:03		08:51 (3)	09:01
	22:26	21:30	20:09	21	07:56 (42)	18:47	23	08:50 (41)	16:32	22	09:13 (3)	15:52
11	04:54	05:50	06:55		07:34 (42)	07:57		08:29 (41)	08:06		08:50 (3)	09:02
	22:25	21:27	20:06	22	07:56 (42)	18:44	20	08:49 (41)	16:30	23	09:13 (3)	15:52
12	04:55	05:52	06:57		07:34 (42)	07:59		08:30 (41)	08:08		08:51 (3)	09:04
	22:24	21:25	20:04	22	07:56 (42)	18:42	17	08:47 (41)	16:28	22	09:13 (3)	15:51
13	04:56	05:54	06:59		07:33 (42)	08:01		08:32 (41)	08:10		08:51 (3)	09:05
	22:22	21:23	20:01	23	07:56 (42)	18:39	12	08:44 (41)	16:26	22	09:13 (3)	15:51
14	04:58	05:57	07:01		07:33 (42)	08:03		08:35 (41)	08:12		08:52 (3)	09:06
	22:21	21:20	19:58	22	07:55 (42)	18:36	5	08:40 (41)	16:24	21	09:13 (3)	15:51
15	04:59	05:59	07:03		07:33 (42)	08:06			08:14		08:53 (3)	09:07
	22:20	21:18	19:55	21	07:54 (42)	18:34			16:22	19	09:12 (3)	15:51
16	05:01	06:01	07:05		07:34 (42)	08:08			08:17		08:54 (3)	09:08
	22:18	21:15	19:53	19	07:53 (42)	18:31			16:20	18	09:12 (3)	15:51
17	05:03	06:03	07:07		07:36 (42)	08:10			08:19		08:56 (3)	09:09
	22:17	21:13	19:50	16	07:52 (42)	18:29			16:19	15	09:11 (3)	15:51
18	05:04	06:05	07:09		07:38 (42)	08:12			08:21		08:58 (3)	09:10
	22:15	21:10	19:47	12	07:50 (42)	18:26			16:17	11	09:09 (3)	15:51
19	05:06	06:07	07:11		07:40 (42)	08:14			08:23		09:01 (3)	09:10
	22:14	21:08	19:44	7	07:47 (42)	18:23			16:15	8	09:09 (3)	15:51
20	05:08	06:09	07:13			08:16			08:25		09:03 (3)	09:11
	22:12	21:05	19:42			18:21			16:14	3	09:06 (3)	15:52
21	05:09	06:11	07:15			08:19			08:27			09:12
	22:11	21:03	19:39			18:18			16:12			15:52
22	05:11	06:13	07:17			08:21			08:29			09:12
	22:09	21:00	19:36			18:16			16:10			15:52
23	05:13	06:15	07:19			08:23			08:31			09:13
	22:07	20:57	19:33			18:13			16:09			15:53
24	05:15	06:17	07:21			08:25			08:33			09:13
	22:05	20:55	19:31			18:11			16:07			15:54
25	05:17	06:19	07:23			07:28			08:35			09:14
	22:04	20:52	19:28			17:08			16:06			15:54
26	05:18	06:21	07:25			07:30			08:37			09:14
	22:02	20:50	19:25			17:06			16:05			15:55
27	05:20	06:24	07:27			07:32			08:39			09:14
	22:00	20:47	19:22			17:04			16:03			15:56
28	05:22	06:26	07:30		08:38 (41)	07:34			08:41			09:14
	21:58	20:44	19:20	10	08:48 (41)	17:01			16:02			15:57
29	05:24	06:28	07:32		08:35 (41)	07:36			08:43			09:14
	21:56	20:42	19:17	15	08:50 (41)	16:59			16:01			15:58
30	05:26	06:30	07:34		08:33 (41)	07:39			08:45			09:14
	21:54	20:39	19:14	19	08:52 (41)	16:56			16:00			15:59
31	05:28	06:32				07:41						09:14
	21:52	20:36				16:54						16:00
Potential sun hours	534	472	385			322			244			211
Total, worst case				291			297			344		
Sun reduction				0.50			0.42			0.23		
Oper. time red.				0.94			0.94			0.94		
Wind dir. red.				0.63			0.60			0.57		
Total reduction				0.29			0.24			0.12		
Total, real				85			71			42		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: E - Araji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:14	08:36		07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36		07:43	08:16 (41)	08:47
	16:01	17:00		18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11		16:52	11 08:27 (41)	15:59
2	09:14	08:34		07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38		07:45	08:19 (41)	08:49
	16:03	17:03		18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09		16:49	7 08:26 (41)	15:58
3	09:13	08:32		07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:21 (41)	08:50
	16:04	17:05		18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06		16:47	3 08:24 (41)	15:57
4	09:13	08:30		07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42		07:50		08:52
	16:05	17:07		18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45		15:56
5	09:12	08:28		07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44		07:52		08:54
	16:07	17:09		18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00		16:43		15:55
6	09:12	08:26		07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46		07:54		08:55
	16:08	17:12		18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58		16:40		15:54
7	09:11	08:24		07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48		07:57		08:57
	16:10	17:14		18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55		16:38		15:54
8	09:10	08:21	08:51 (41)	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59		08:58
	16:11	17:16	4 08:55 (41)	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52		16:36		15:53
9	09:10	08:19	08:49 (41)	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53		08:01		09:00
	16:13	17:19	8 08:57 (41)	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50		16:34		15:53
10	09:09	08:17	08:46 (41)	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55		08:03		09:01
	16:15	17:21	12 08:58 (41)	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47		16:32		15:52
11	09:08	08:15	08:44 (41)	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57		08:06		09:02
	16:16	17:23	15 08:59 (41)	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44		16:30		15:52
12	09:07	08:12	08:41 (41)	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59		08:08		09:04
	16:18	17:26	18 08:59 (41)	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42		16:28		15:51
13	09:06	08:10	08:41 (41)	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01		08:10		09:05
	16:20	17:28	19 09:00 (41)	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39		16:26		15:51
14	09:05	08:08	08:40 (41)	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03		08:12		09:06
	16:22	17:30	20 09:00 (41)	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36		16:24		15:51
15	09:04	08:05	08:40 (41)	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06		08:14		09:07
	16:24	17:33	20 09:00 (41)	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34		16:22		15:51
16	09:02	08:03	08:40 (41)	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08		08:17		09:08
	16:26	17:35	20 09:00 (41)	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31		16:20		15:51
17	09:01	08:00	08:41 (41)	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10		08:19		09:09
	16:28	17:37	19 09:00 (41)	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29		16:19		15:51
18	09:00	07:58	08:41 (41)	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12		08:21		09:10
	16:30	17:40	18 08:59 (41)	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26		16:17		15:51
19	08:58	07:56	08:43 (41)	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14		08:23		09:10
	16:32	17:42	15 08:58 (41)	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23		16:15		15:51
20	08:57	07:53	08:44 (41)	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16		08:25		09:11
	16:34	17:44	12 08:56 (41)	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21		16:14		15:52
21	08:55	07:51	08:46 (41)	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	09:16 (41)	08:27		09:12
	16:36	17:46	7 08:53 (41)	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	9 09:25 (41)	16:12		15:52
22	08:54	07:48		06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	09:14 (41)	08:29		09:12
	16:38	17:49		18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	13 09:27 (41)	16:10		15:52
23	08:52	07:46		06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	09:12 (41)	08:31		09:13
	16:40	17:51		18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16 09:28 (41)	16:09		15:53
24	08:51	07:43		06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	09:11 (41)	08:33		09:13
	16:42	17:53		18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	18 09:29 (41)	16:07		15:54
25	08:49	07:40		06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:10 (41)	08:35		09:14
	16:45	17:56		18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	19 08:29 (41)	16:06		15:54
26	08:47	07:38		06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:10 (41)	08:37		09:14
	16:47	17:58		18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	20 08:30 (41)	16:05		15:55
27	08:46	07:35		06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:10 (41)	08:39		09:14
	16:49	18:00		19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	20 08:30 (41)	16:03		15:56
28	08:44	07:33		06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:10 (41)	08:41		09:14
	16:51	18:02		19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	20 08:30 (41)	16:02		15:57
29	08:42			07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:10 (41)	08:43		09:14
	16:53			20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	20 08:30 (41)	16:01		15:58
30	08:40			07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:11 (41)	08:45		09:14
	16:56			20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	18 08:29 (41)	16:00		15:59
31	08:38			07:09		04:50		05:28	06:32		07:41	08:14 (41)			09:14
	16:58			20:10		22:14		21:52	20:36		16:54	15 08:29 (41)			16:00
Potential sun hours	231	264		366	428	512	534	534	472	385	322		244		211
Total, worst case			207									188		21	
Sun reduction			0.33									0.42		0.23	
Oper. time red.			0.94									0.94		0.94	
Wind dir. red.			0.59									0.59		0.59	
Total reduction			0.19									0.24		0.13	
Total, real			39									44		3	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: F - Aug š dzikli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March		April		May	June	July	August	September		October	November	December
1	09:13	08:35	07:29		07:05	19:01 (38)	05:47	04:48	04:42	05:29	06:33		07:35	07:42	08:46
	16:01	17:00	18:04		20:11	16 19:17 (38)	21:16	22:15	22:32	21:49	20:33		19:11	16:51	15:58
2	09:13	08:33	07:27		07:03	19:04 (38)	05:45	04:47	04:43	05:31	06:35		07:37	07:45	08:48
	16:02	17:02	18:06		20:13	9 19:13 (38)	21:18	22:16	22:31	21:47	20:30		19:08	16:49	15:57
3	09:12	08:31	07:24		07:00		05:42	04:46	04:44	05:33	06:37		07:39	07:47	08:49
	16:03	17:04	18:08		20:16		21:20	22:18	22:31	21:45	20:27		19:05	16:46	15:56
4	09:12	08:29	07:21		06:57		05:40	04:45	04:45	05:35	06:39		07:41	07:49	08:51
	16:05	17:06	18:10		20:18		21:22	22:19	22:30	21:42	20:25		19:02	16:44	15:55
5	09:11	08:27	07:19		06:54		05:38	04:44	04:46	05:37	06:41		07:43	07:51	08:53
	16:06	17:09	18:13		20:20		21:24	22:21	22:29	21:40	20:22		19:00	16:42	15:54
6	09:11	08:25	07:16		06:52		05:35	04:43	04:47	05:39	06:43		07:46	07:54	08:54
	16:08	17:11	18:15		20:22		21:26	22:22	22:29	21:38	20:19		18:57	16:40	15:54
7	09:10	08:23	07:13		06:49		05:33	04:42	04:48	05:41	06:46		07:48	07:56	08:56
	16:09	17:13	18:17		20:24		21:28	22:23	22:28	21:36	20:17		18:54	16:38	15:53
8	09:09	08:20	07:11		06:46		05:31	04:41	04:49	05:43	06:48		07:50	07:58	08:57
	16:11	17:16	18:19		20:26		21:31	22:24	22:27	21:33	20:14		18:52	16:35	15:52
9	09:09	08:18	07:08		06:44		05:29	04:40	04:50	05:45	06:50		07:52	08:00	08:59
	16:12	17:18	18:22		20:28		21:33	22:25	22:26	21:31	20:11		18:49	16:33	15:52
10	09:08	08:16	07:05		06:41		05:26	04:40	04:52	05:48	06:52	18:57 (38)	07:54	08:03	09:00
	16:14	17:20	18:24		20:31		21:35	22:26	22:25	21:29	20:08	9 19:06 (38)	18:46	16:31	15:51
11	09:07	08:14	07:03		06:38		05:24	04:39	04:53	05:50	06:54	18:54 (38)	07:56	08:05	09:01
	16:16	17:23	18:26		20:33		21:37	22:27	22:24	21:26	20:06	15 19:09 (38)	18:44	16:29	15:51
12	09:06	08:11	07:00		06:36		05:22	04:39	04:54	05:52	06:56	18:52 (38)	07:58	08:07	09:03
	16:18	17:25	18:28		20:35		21:39	22:28	22:23	21:24	20:03	18 19:10 (38)	18:41	16:27	15:51
13	09:05	08:09	06:57		06:33		05:20	04:38	04:56	05:54	06:58	18:50 (38)	08:00	08:09	09:04
	16:19	17:27	18:30		20:37		21:41	22:29	22:21	21:22	20:00	21 19:11 (38)	18:38	16:25	15:51
14	09:04	08:07	06:55		06:30		05:18	04:38	04:57	05:56	07:00	18:49 (38)	08:03	08:11	09:05
	16:21	17:30	18:33		20:39		21:43	22:30	22:20	21:19	19:57	23 19:12 (38)	18:36	16:23	15:50
15	09:03	08:04	06:52		06:28		05:16	04:37	04:59	05:58	07:02	18:48 (38)	08:05	08:14	09:06
	16:23	17:32	18:35		20:41		21:45	22:30	22:19	21:17	19:55	24 19:12 (38)	18:33	16:22	15:50
16	09:01	08:02	06:49		06:25		05:14	04:37	05:00	06:00	07:04	18:47 (38)	08:07	08:16	09:07
	16:25	17:34	18:37		20:43		21:47	22:31	22:17	21:14	19:52	25 19:12 (38)	18:30	16:20	15:50
17	09:00	08:00	06:46		06:22		05:12	04:37	05:02	06:02	07:06	18:46 (38)	08:09	08:18	09:08
	16:27	17:37	18:39		20:46		21:49	22:32	22:16	21:12	19:49	26 19:12 (38)	18:28	16:18	15:50
18	08:59	07:57	06:44	18:06 (38)	06:20		05:10	04:37	05:04	06:04	07:08	18:45 (38)	08:11	08:20	09:09
	16:29	17:39	18:41	6 18:12 (38)	20:48		21:51	22:32	22:14	21:09	19:46	27 19:12 (38)	18:25	16:16	15:50
19	08:57	07:55	06:41	18:05 (38)	06:17		05:08	04:37	05:05	06:06	07:10	18:45 (38)	08:13	08:22	09:10
	16:31	17:41	18:43	10 18:15 (38)	20:50		21:53	22:32	22:13	21:07	19:44	26 19:11 (38)	18:23	16:15	15:51
20	08:56	07:52	06:38	18:03 (38)	06:15		05:07	04:37	05:07	06:08	07:12	18:45 (38)	08:16	08:24	09:10
	16:33	17:43	18:45	14 18:17 (38)	20:52		21:55	22:33	22:11	21:04	19:41	25 19:10 (38)	18:20	16:13	15:51
21	08:55	07:50	06:35	18:01 (38)	06:12		05:05	04:37	05:09	06:10	07:14	18:45 (38)	08:18	08:26	09:11
	16:35	17:46	18:48	18 18:19 (38)	20:54		21:56	22:33	22:10	21:02	19:38	22 19:07 (38)	18:18	16:11	15:51
22	08:53	07:47	06:33	18:00 (38)	06:09		05:03	04:37	05:10	06:12	07:16	18:45 (38)	08:20	08:28	09:11
	16:37	17:48	18:50	21 18:21 (38)	20:56		21:58	22:33	22:08	20:59	19:35	19 19:04 (38)	18:15	16:10	15:52
23	08:51	07:45	06:30	18:00 (38)	06:07		05:01	04:37	05:12	06:14	07:18	18:46 (38)	08:22	08:31	09:12
	16:40	17:50	18:52	24 18:24 (38)	20:59		22:00	22:33	22:06	20:57	19:33	16 19:02 (38)	18:13	16:08	15:52
24	08:50	07:42	06:27	17:59 (38)	06:04		05:00	04:38	05:14	06:17	07:20	18:47 (38)	08:24	08:33	09:12
	16:42	17:53	18:54	26 18:25 (38)	21:01		22:02	22:33	22:04	20:54	19:30	12 18:59 (38)	18:10	16:07	15:53
25	08:48	07:40	06:24	17:58 (38)	06:02		04:58	04:38	05:16	06:19	07:23	18:48 (38)	07:27	08:35	09:13
	16:44	17:55	18:56	26 18:24 (38)	21:03		22:04	22:33	22:03	20:51	19:27	8 18:56 (38)	17:08	16:05	15:54
26	08:46	07:37	06:22	17:57 (38)	05:59		04:56	04:39	05:18	06:21	07:25	18:52 (38)	07:29	08:37	09:13
	16:46	17:57	18:58	27 18:24 (38)	21:05		22:05	22:33	22:01	20:49	19:24	2 18:54 (38)	17:05	16:04	15:54
27	08:45	07:34	06:19	17:58 (38)	05:57		04:55	04:39	05:20	06:23	07:27		07:31	08:38	09:13
	16:48	17:59	19:01	26 18:24 (38)	21:07		22:07	22:33	21:59	20:46	19:22		17:03	16:03	15:55
28	08:43	07:32	06:16	17:58 (38)	05:54		04:54	04:40	05:22	06:25	07:29		07:33	08:40	09:13
	16:51	18:02	19:03	25 18:23 (38)	21:09		22:09	22:33	21:57	20:44	19:19		17:00	16:01	15:56
29	08:41		07:14	18:58 (38)	05:52		04:52	04:40	05:23	06:27	07:31		07:36	08:42	09:13
	16:53		20:05	24 19:22 (38)	21:11		22:10	22:33	21:55	20:41	19:16		16:58	16:00	15:57
30	08:39		07:11	18:59 (38)	05:49		04:51	04:41	05:25	06:29	07:33		07:38	08:44	09:13
	16:55		20:07	21 19:20 (38)	21:14		22:12	22:32	21:53	20:38	19:13		16:56	15:59	15:58
31	08:37		07:08	19:00 (38)			04:49		05:27	06:31			07:40		09:13
	16:57		20:09	19 19:19 (38)			22:14		21:51	20:36			16:53		15:59
Potential sun hours	231	264	366		428		512	534	534	472	385		322	244	211
Total, worst case				287		25						318			
Sun reduction				0.46		0.55						0.50			
Oper. time red.				0.94		0.94						0.94			
Wind dir. red.				0.64		0.64						0.64			
Total reduction				0.28		0.33						0.30			
Total, real				79		8						95			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: G - Ausekli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:17	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: H - Austrinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:14		10:39 (43)	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47		10:34 (43)
	16:01	20	10:59 (43)	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59	2	10:36 (43)
2	09:14		10:40 (43)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49		10:31 (43)
	16:02	19	10:59 (43)	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58	8	10:39 (43)
3	09:13		10:40 (43)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50		10:30 (43)
	16:04	19	10:59 (43)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57	11	10:41 (43)
4	09:13		10:41 (43)	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52		10:30 (43)
	16:05	18	10:59 (43)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56	13	10:43 (43)
5	09:12		10:41 (43)	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54		10:29 (43)
	16:07	18	10:59 (43)	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55	15	10:44 (43)
6	09:12		10:42 (43)	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		10:28 (43)
	16:08	16	10:58 (43)	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54	16	10:44 (43)
7	09:11		10:44 (43)	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57	08:57		10:28 (43)
	16:10	15	10:59 (43)	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53	18	10:46 (43)
8	09:10		10:44 (43)	08:21	07:11	06:47	05:31	04:42	04:49	05:44	06:48	07:50	07:59	08:58		10:29 (43)
	16:11	14	10:58 (43)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53	18	10:47 (43)
9	09:10		10:46 (43)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00		10:28 (43)
	16:13	11	10:57 (43)	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:52	19	10:47 (43)
10	09:09		10:48 (43)	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01		10:29 (43)
	16:15	8	10:56 (43)	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52	19	10:48 (43)
11	09:08		10:51 (43)	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02		10:29 (43)
	16:16	3	10:54 (43)	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52	20	10:49 (43)
12	09:07			08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04		10:29 (43)
	16:18			17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51	21	10:50 (43)
13	09:06			08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:05		10:29 (43)
	16:20			17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51	21	10:50 (43)
14	09:05			08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06		10:30 (43)
	16:22			17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51	21	10:51 (43)
15	09:04			08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14	09:07		10:30 (43)
	16:24			17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51	21	10:51 (43)
16	09:02			08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08		10:30 (43)
	16:26			17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51	22	10:52 (43)
17	09:01			08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:09		10:31 (43)
	16:28			17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51	21	10:52 (43)
18	09:00			07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10		10:31 (43)
	16:30			17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51	22	10:53 (43)
19	08:58			07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10		10:32 (43)
	16:32			17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51	22	10:54 (43)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		10:31 (43)
	16:34			17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:13	15:51	23	10:54 (43)
21	08:55			07:51	06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12		10:32 (43)
	16:36			17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52	22	10:54 (43)
22	08:54			07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29	09:12		10:32 (43)
	16:38			17:49	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52	22	10:54 (43)
23	08:52			07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13		10:33 (43)
	16:40			17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53	22	10:55 (43)
24	08:51			07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13		10:34 (43)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53	22	10:56 (43)
25	08:49			07:40	06:25	06:02	04:58	04:39	05:16	06:19	07:23	08:27	08:35	09:14		10:34 (43)
	16:44			17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54	22	10:56 (43)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14		10:34 (43)
	16:47			17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	15:55	22	10:56 (43)
27	08:45			07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		10:35 (43)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56	22	10:57 (43)
28	08:44			07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		10:36 (43)
	16:51			18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:57	21	10:57 (43)
29	08:42				07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14		10:36 (43)
	16:53				20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58	21	10:57 (43)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45	09:14		10:37 (43)
	16:56				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59	21	10:58 (43)
31	08:38				07:09		04:50		05:28	06:32		07:41		09:14		10:38 (43)
	16:58				20:10		22:14		21:52	20:36		16:54		16:00	21	10:59 (43)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		161													591	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.61													0.61	
Total reduction		0.16													0.13	
Total, real		26													77	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: I - Austrumi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:23 (29)	07:06	05:48	04:49	04:43	05:30	06:34	07:36	08:07 (28)	07:43	08:47
	16:02	17:01	18:05	25 08:48 (29)	20:12	21:16	22:16	22:32	21:49	20:34	19:11	3 08:10 (28)	16:52	15:59
2	09:13	08:34	07:27	08:23 (29)	07:03	05:46	04:48	04:44	05:32	06:36	07:38		07:45	08:48
	16:03	17:03	18:07	24 08:47 (29)	20:14	21:18	22:17	22:32	21:47	20:31	19:09		16:50	15:58
3	09:13	08:32	07:25	08:24 (29)	07:01	05:43	04:47	04:45	05:34	06:38	07:40		07:48	08:50
	16:04	17:05	18:09	21 08:45 (29)	20:16	21:21	22:18	22:31	21:45	20:28	19:06		16:47	15:57
4	09:12	08:30	07:22	08:26 (29)	06:58	05:41	04:46	04:46	05:36	06:40	07:42		07:50	08:52
	16:06	17:07	18:11	18 08:44 (29)	20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	15:56
5	09:12	08:28	07:20	08:27 (29)	06:55	05:39	04:45	04:47	05:38	06:42	07:44		07:52	08:53
	16:07	17:10	18:14	14 08:41 (29)	20:21	21:25	22:21	22:30	21:41	20:23	19:01		16:43	15:55
6	09:11	08:25	07:17	08:31 (29)	06:53	05:36	04:44	04:48	05:40	06:44	07:46		07:54	08:55
	16:09	17:12	18:16	6 08:37 (29)	20:23	21:27	22:22	22:29	21:39	20:20	18:58		16:41	15:55
7	09:11	08:23	07:14		06:50	05:34	04:43	04:49	05:42	06:46	07:48		07:56	08:56
	16:10	17:14	18:18		20:25	21:29	22:23	22:28	21:36	20:17	18:55		16:39	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51	09:04 (29)	07:59	08:58
	16:12	17:17	18:20		20:27	21:31	22:25	22:27	21:34	20:15	18:52	11 09:15 (29)	16:36	15:53
9	09:09	08:19	07:09		06:44	05:30	04:42	04:51	05:46	06:51	07:53	09:01 (29)	08:01	08:59
	16:13	17:19	18:22		20:29	21:33	22:26	22:26	21:32	20:12	18:50	16 09:17 (29)	16:34	15:53
10	09:08	08:17	07:06		06:42	05:27	04:41	04:53	05:49	06:53	07:55	08:59 (29)	08:03	09:01
	16:15	17:21	18:25		20:31	21:35	22:27	22:25	21:29	20:09	18:47	20 09:19 (29)	16:32	15:53
11	09:08	08:14	07:03		06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:58 (29)	08:05	09:02
	16:17	17:24	18:27		20:33	21:37	22:28	22:24	21:27	20:06	18:44	22 09:20 (29)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:57 (29)	08:08	09:03
	16:19	17:26	18:29		20:36	21:39	22:29	22:23	21:25	20:04	18:42	24 09:21 (29)	16:28	15:52
13	09:06	08:10	06:58	07:24 (28)	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:56 (29)	08:10	09:04
	16:20	17:28	18:31	10 07:34 (28)	20:38	21:41	22:29	22:22	21:22	20:01	18:39	25 09:21 (29)	16:26	15:52
14	09:04	08:07	06:55	07:21 (28)	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:55 (29)	08:12	09:05
	16:22	17:31	18:33	15 07:36 (28)	20:40	21:43	22:30	22:21	21:20	19:58	18:37	26 09:21 (29)	16:24	15:51
15	09:03	08:05	06:53	07:19 (28)	06:28	05:17	04:39	05:00	05:59	07:03	08:06	08:55 (29)	08:14	09:07
	16:24	17:33	18:36	18 07:37 (28)	20:42	21:45	22:31	22:19	21:17	19:55	18:34	27 09:22 (29)	16:23	15:51
16	09:02	08:03	06:50	07:18 (28)	06:26	05:15	04:38	05:01	06:01	07:05	08:11 (28)	08:08	08:54 (29)	08:16	09:08
	16:26	17:35	18:38	21 07:39 (28)	20:44	21:47	22:31	22:18	21:15	19:53	6 08:17 (28)	18:31	27 09:21 (29)	16:21	15:51
17	09:01	08:00	08:32 (29)	06:47	07:17 (28)	06:23	05:13	04:38	05:03	06:03	07:07	08:07 (28)	08:10	08:54 (29)	08:19	09:08
	16:28	17:37	10 08:42 (29)	18:40	22 07:39 (28)	20:46	21:49	22:32	22:17	21:13	19:50	13 08:20 (28)	18:29	27 09:21 (29)	16:19	15:51
18	08:59	07:58	08:29 (29)	06:44	07:16 (28)	06:21	05:11	04:38	05:05	06:05	07:09	08:05 (28)	08:12	08:55 (29)	08:21	09:09
	16:30	17:40	15 08:44 (29)	18:42	23 07:39 (28)	20:48	21:51	22:33	22:15	21:10	19:47	16 08:21 (28)	18:26	26 09:21 (29)	16:17	15:52
19	08:58	07:55	08:27 (29)	06:42	07:15 (28)	06:18	05:09	04:38	05:06	06:07	07:11	08:03 (28)	08:14	08:55 (29)	08:23	09:10
	16:32	17:42	19 08:46 (29)	18:44	24 07:39 (28)	20:51	21:53	22:33	22:13	21:08	19:44	19 08:22 (28)	18:24	25 09:20 (29)	16:16	15:52
20	08:57	07:53	08:26 (29)	06:39	07:15 (28)	06:15	05:08	04:38	05:08	06:09	07:13	08:02 (28)	08:16	08:55 (29)	08:25	09:11
	16:34	17:44	21 08:47 (29)	18:46	24 07:39 (28)	20:53	21:55	22:33	22:12	21:05	19:42	21 08:23 (28)	18:21	24 09:19 (29)	16:14	15:52
21	08:55	07:50	08:24 (29)	06:36	07:15 (28)	06:13	05:06	04:38	05:10	06:11	07:15	08:00 (28)	08:19	08:56 (29)	08:27	09:11
	16:36	17:47	24 08:48 (29)	18:48	24 07:39 (28)	20:55	21:57	22:34	22:10	21:02	19:39	23 08:23 (28)	18:19	23 09:19 (29)	16:12	15:52
22	08:54	07:48	08:24 (29)	06:34	07:15 (28)	06:10	05:04	04:38	05:11	06:13	07:17	08:00 (28)	08:21	08:56 (29)	08:29	09:12
	16:38	17:49	25 08:49 (29)	18:51	23 07:38 (28)	20:57	21:59	22:34	22:09	21:00	19:36	23 08:23 (28)	18:16	21 09:17 (29)	16:11	15:53
23	08:52	07:45	08:23 (29)	06:31	07:15 (28)	06:08	05:02	04:39	05:13	06:15	07:19	07:59 (28)	08:23	08:57 (29)	08:31	09:12
	16:41	17:51	26 08:49 (29)	18:53	21 07:36 (28)	20:59	22:01	22:34	22:07	20:57	19:33	24 08:23 (28)	18:14	18 09:15 (29)	16:09	15:53
24	08:50	07:43	08:22 (29)	06:28	07:16 (28)	06:05	05:01	04:39	05:15	06:17	07:21	07:59 (28)	08:25	09:00 (29)	08:33	09:13
	16:43	17:53	27 08:49 (29)	18:55	20 07:36 (28)	21:01	22:02	22:34	22:05	20:55	19:31	23 08:22 (28)	18:11	14 09:14 (29)	16:08	15:54
25	08:49	07:40	08:23 (29)	06:25	07:17 (28)	06:03	04:59	04:39	05:17	06:20	07:23	07:58 (28)	07:27	08:02 (29)	08:35	09:13
	16:45	17:56	27 08:50 (29)	18:57	17 07:34 (28)	21:04	22:04	22:34	22:03	20:52	19:28	24 08:22 (28)	17:09	9 08:11 (29)	16:06	15:55
26	08:47	07:38	08:22 (29)	06:23	07:18 (28)	06:00	04:58	04:40	05:19	06:22	07:25	07:58 (28)	07:30		08:37	09:14
	16:47	17:58	27 08:49 (29)	18:59	14 07:32 (28)	21:06	22:06	22:34	22:01	20:50	19:25	23 08:21 (28)	17:06		16:05	15:55
27	08:45	07:35	08:22 (29)	06:20	07:20 (28)	05:58	04:56	04:40	05:21	06:24	07:28	07:59 (28)	07:32		08:39	09:14
	16:49	18:00	27 08:49 (29)	19:01	8 07:28 (28)	21:08	22:08	22:34	22:00	20:47	19:22	21 08:20 (28)	17:04		16:04	15:56
28	08:43	07:33	08:23 (29)	06:17		05:55	04:55	04:41	05:23	06:26	07:30	08:00 (28)	07:34		08:41	09:14
	16:52	18:02	26 08:49 (29)	19:03		21:10	22:09	22:34	21:58	20:44	19:20	19 08:19 (28)	17:01		16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	08:01 (28)	07:36		08:43	09:14
	16:54			20:06		21:12	22:11	22:33	21:56	20:42	19:17	17 08:18 (28)	16:59		16:01	15:58
30	08:40			07:12		05:50	04:52	04:42	05:26	06:30	07:34	08:03 (28)	07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14	12 08:15 (28)	16:57		16:00	15:59
31	08:38			07:09			04:51		05:28	06:32			07:41			09:14
	16:58			20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385		322		244	212	
Total, worst case		274		392							284		388			
Sun reduction		0.33		0.46							0.50		0.42			
Oper. time red.		0.94		0.94							0.94		0.94			
Wind dir. red.		0.60		0.61							0.61		0.60			
Total reduction		0.19		0.26							0.29		0.24			
Total, real		51		103							81		93			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: J - Avoti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April	May	June
1	09:14			08:36		09:08 (41)	07:30		07:57 (42)	07:06	05:48	04:49
	16:01			17:00	12	09:20 (41)	18:05	20	08:17 (42)	20:12	21:17	22:16
2	09:14			08:34		09:05 (41)	07:27		07:57 (42)	07:03	05:45	04:48
	16:03			17:03	15	09:20 (41)	18:07	20	08:17 (42)	20:14	21:19	22:17
3	09:13			08:32		09:03 (41)	07:25		07:57 (42)	07:01	05:43	04:47
	16:04			17:05	18	09:21 (41)	18:09	21	08:18 (42)	20:16	21:21	22:19
4	09:13			08:30		09:02 (41)	07:22		07:57 (42)	06:58	05:41	04:45
	16:05			17:07	21	09:23 (41)	18:11	20	08:17 (42)	20:18	21:23	22:20
5	09:12			08:28		09:01 (41)	07:20		07:56 (42)	06:55	05:38	04:44
	16:07			17:09	21	09:22 (41)	18:13	21	08:17 (42)	20:21	21:25	22:21
6	09:12			08:26		09:01 (41)	07:17		07:56 (42)	06:52	05:36	04:44
	16:08			17:12	22	09:23 (41)	18:16	20	08:16 (42)	20:23	21:27	22:23
7	09:11			08:24		09:02 (41)	07:14		07:58 (42)	06:50	05:34	04:43
	16:10			17:14	22	09:24 (41)	18:18	17	08:15 (42)	20:25	21:29	22:24
8	09:10			08:21		09:01 (41)	07:12		07:59 (42)	06:47	05:32	04:42
	16:11			17:16	22	09:23 (41)	18:20	14	08:13 (42)	20:27	21:31	22:25
9	09:10			08:19		09:02 (41)	07:09		08:00 (42)	06:44	05:29	04:41
	16:13			17:19	22	09:24 (41)	18:22	11	08:11 (42)	20:29	21:33	22:26
10	09:09			08:17		09:02 (41)	07:06			06:42	05:27	04:40
	16:15			17:21	21	09:23 (41)	18:25			20:31	21:36	22:27
11	09:08			08:15		09:03 (41)	07:03			06:39	05:25	04:40
	16:16			17:23	20	09:23 (41)	18:27			20:34	21:38	22:28
12	09:07			08:12		09:03 (41)	07:01			06:36	05:23	04:39
	16:18			17:26	19	09:22 (41)	18:29			20:36	21:40	22:29
13	09:06			08:10		09:04 (41)	06:58			06:34	05:21	04:39
	16:20			17:28	17	09:21 (41)	18:31			20:38	21:42	22:30
14	09:05			08:08		09:05 (41)	06:55			06:31	05:19	04:38
	16:22			17:30	14	09:19 (41)	18:33			20:40	21:44	22:31
15	09:04			08:05		09:08 (41)	06:53			06:28	05:17	04:38
	16:24			17:33	9	09:17 (41)	18:35			20:42	21:46	22:31
16	09:02			08:03			06:50			06:26	05:15	04:38
	16:26			17:35			18:38			20:44	21:48	22:32
17	09:01			08:00			06:47			06:23	05:13	04:38
	16:28			17:37			18:40			20:46	21:50	22:32
18	09:00			07:58			06:44			06:20	05:11	04:38
	16:30			17:40			18:42			20:49	21:52	22:33
19	08:58			07:56			06:42			06:18	05:09	04:37
	16:32			17:42			18:44			20:51	21:54	22:33
20	08:57			07:53			06:39			06:15	05:07	04:38
	16:34			17:44			18:46			20:53	21:55	22:34
21	08:55			07:51			06:36			06:13	05:05	04:38
	16:36			17:46			18:48			20:55	21:57	22:34
22	08:54			07:48			06:33			06:10	05:04	04:38
	16:38			17:49			18:51			20:57	21:59	22:34
23	08:52			07:46			06:31			06:08	05:02	04:38
	16:40			17:51			18:53			20:59	22:01	22:34
24	08:51			07:43			06:28			06:05	05:00	04:38
	16:42			17:53			18:55			21:02	22:03	22:34
25	08:49			07:40		08:08 (42)	06:25			06:02	04:59	04:39
	16:45			17:56	5	08:13 (42)	18:57			21:04	22:05	22:34
26	08:47			07:38		08:05 (42)	06:23			06:00	04:57	04:39
	16:47			17:58	10	08:15 (42)	18:59			21:06	22:06	22:34
27	08:45			07:35		08:02 (42)	06:20			05:57	04:56	04:40
	16:49			18:00	14	08:16 (42)	19:01			21:08	22:08	22:34
28	08:44			07:33		08:00 (42)	06:17			05:55	04:54	04:40
	16:51			18:02	17	08:17 (42)	19:03			21:10	22:10	22:34
29	08:42						07:14			05:53	04:53	04:41
	16:53						20:06			21:12	22:11	22:34
30	08:40		09:12 (41)				07:12			05:50	04:51	04:42
	16:56	3	09:15 (41)				20:08			21:14	22:13	22:33
31	08:38		09:10 (41)				07:09				04:50	
	16:58	8	09:18 (41)				20:10				22:14	
Potential sun hours	231			264			366			428	512	534
Total, worst case		11			321			164				
Sun reduction		0.28			0.33			0.46				
Oper. time red.		0.94			0.94			0.94				
Wind dir. red.		0.58			0.59			0.60				
Total reduction		0.15			0.18			0.26				
Total, real		2			59			42				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: J - Avoti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December
1	04:42	05:30	06:34	07:36			07:43		08:31 (41)	08:47
	22:33	21:50	20:34	19:11			16:52	22	08:53 (41)	15:59
2	04:43	05:32	06:36	07:38			07:45		08:31 (41)	08:49
	22:32	21:48	20:31	19:09			16:49	22	08:53 (41)	15:58
3	04:44	05:34	06:38	07:40			07:48		08:31 (41)	08:50
	22:32	21:46	20:28	19:06			16:47	22	08:53 (41)	15:57
4	04:45	05:36	06:40	07:42		08:39 (42)	07:50		08:31 (41)	08:52
	22:31	21:43	20:26	19:03	7	08:46 (42)	16:45	23	08:54 (41)	15:56
5	04:46	05:38	06:42	07:44		08:36 (42)	07:52		08:31 (41)	08:54
	22:30	21:41	20:23	19:00	13	08:49 (42)	16:43	22	08:53 (41)	15:55
6	04:47	05:40	06:44	07:46		08:35 (42)	07:54		08:32 (41)	08:55
	22:30	21:39	20:20	18:58	16	08:51 (42)	16:40	21	08:53 (41)	15:54
7	04:48	05:42	06:46	07:48		08:33 (42)	07:57		08:32 (41)	08:57
	22:29	21:37	20:17	18:55	18	08:51 (42)	16:38	20	08:52 (41)	15:54
8	04:50	05:44	06:48	07:51		08:32 (42)	07:59		08:34 (41)	08:58
	22:28	21:34	20:15	18:52	20	08:52 (42)	16:36	18	08:52 (41)	15:53
9	04:51	05:46	06:50	07:53		08:31 (42)	08:01		08:36 (41)	09:00
	22:27	21:32	20:12	18:50	21	08:52 (42)	16:34	15	08:51 (41)	15:53
10	04:52	05:48	06:52	07:55		08:30 (42)	08:03		08:39 (41)	09:01
	22:26	21:30	20:09	18:47	21	08:51 (42)	16:32	11	08:50 (41)	15:52
11	04:54	05:50	06:55	07:57		08:31 (42)	08:06		08:41 (41)	09:02
	22:25	21:27	20:06	18:44	21	08:52 (42)	16:30	7	08:48 (41)	15:52
12	04:55	05:52	06:57	07:59		08:31 (42)	08:08		08:44 (41)	09:04
	22:24	21:25	20:04	18:42	20	08:51 (42)	16:28	2	08:46 (41)	15:51
13	04:56	05:54	06:59	08:01		08:31 (42)	08:10			09:05
	22:22	21:23	20:01	18:39	19	08:50 (42)	16:26			15:51
14	04:58	05:57	07:01	08:03		08:33 (42)	08:12			09:06
	22:21	21:20	19:58	18:36	16	08:49 (42)	16:24			15:51
15	04:59	05:59	07:03	08:06		08:36 (42)	08:14			09:07
	22:20	21:18	19:55	18:34	12	08:48 (42)	16:22			15:51
16	05:01	06:01	07:05	08:08		08:38 (42)	08:17			09:08
	22:18	21:15	19:53	18:31	8	08:46 (42)	16:20			15:51
17	05:03	06:03	07:07	08:10		08:40 (42)	08:19			09:09
	22:17	21:13	19:50	18:29	3	08:43 (42)	16:19			15:51
18	05:04	06:05	07:09	08:12			08:21			09:10
	22:15	21:10	19:47	18:26			16:17			15:51
19	05:06	06:07	07:11	08:14			08:23			09:10
	22:14	21:08	19:44	18:23			16:15			15:51
20	05:08	06:09	07:13	08:16			08:25			09:11
	22:12	21:05	19:42	18:21			16:14			15:52
21	05:09	06:11	07:15	08:19			08:27			09:12
	22:11	21:03	19:39	18:18			16:12			15:52
22	05:11	06:13	07:17	08:21			08:29			09:12
	22:09	21:00	19:36	18:16			16:10			15:52
23	05:13	06:15	07:19	08:23			08:31			09:13
	22:07	20:57	19:33	18:13			16:09			15:53
24	05:15	06:17	07:21	08:25			08:33			09:13
	22:05	20:55	19:31	18:11			16:07			15:54
25	05:17	06:19	07:23	07:28			08:35			09:14
	22:04	20:52	19:28	17:08			16:06			15:54
26	05:18	06:21	07:25	07:30			08:37			09:14
	22:02	20:50	19:25	17:06			16:05			15:55
27	05:20	06:24	07:27	07:32		08:37 (41)	08:39			09:14
	22:00	20:47	19:22	17:03	10	08:47 (41)	16:03			15:56
28	05:22	06:26	07:30	07:34		08:34 (41)	08:41			09:14
	21:58	20:44	19:20	17:01	15	08:49 (41)	16:02			15:57
29	05:24	06:28	07:32	07:36		08:34 (41)	08:43			09:14
	21:56	20:42	19:17	16:59	17	08:51 (41)	16:01			15:58
30	05:26	06:30	07:34	07:39		08:32 (41)	08:45			09:14
	21:54	20:39	19:14	16:56	19	08:51 (41)	16:00			15:59
31	05:28	06:32		07:41		08:32 (41)				09:14
	21:52	20:36		16:54	21	08:53 (41)				16:00
Potential sun hours	534	472	385	322			244			211
Total, worst case					297			205		
Sun reduction					0.42			0.23		
Oper. time red.					0.94			0.94		
Wind dir. red.					0.59			0.58		
Total reduction					0.24			0.13		
Total, real					70			26		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: K - Abolini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:15 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	24 08:39 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:16 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	22 08:38 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:17 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20 08:37 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	08:18 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	18 08:36 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	08:19 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	14 08:33 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	08:21 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	9 08:30 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14		06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18		20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:56 (41)	07:59	08:58
	16:11	17:16	18:20		20:27	21:31	22:25	22:28	21:34	20:15	18:52	11 09:07 (41)	16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:53 (41)	08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50	16 09:09 (41)	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:51 (41)	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47	19 09:10 (41)	16:32	15:52
11	09:08	08:15	07:03		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:50 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44	22 09:12 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:49 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42	23 09:12 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:48 (41)	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39	24 09:12 (41)	16:26	15:51
14	09:05	08:08	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:47 (41)	08:12	09:06
	16:22	17:30	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36	25 09:12 (41)	16:24	15:51
15	09:04	08:05	06:53	07:18 (42)	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:48 (41)	08:14	09:07
	16:24	17:33	18:35	2 07:20 (42)	20:42	21:46	22:31	22:20	21:18	19:55	9 08:09 (42)	18:34	25 09:13 (41)	16:22	15:51
16	09:02	08:03	06:50	07:16 (42)	06:26	05:15	04:38	05:01	06:01	07:05	07:57 (42)	08:08	08:47 (41)	08:17	09:08
	16:26	17:35	18:38	9 07:25 (42)	20:44	21:48	22:32	22:18	21:15	19:53	14 08:11 (42)	18:31	25 09:12 (41)	16:20	15:51
17	09:01	08:00	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07	07:55 (42)	08:10	08:47 (41)	08:19	09:09
	16:28	17:37	18:40	13 07:26 (42)	20:46	21:50	22:32	22:17	21:13	19:50	17 08:12 (42)	18:29	24 09:11 (41)	16:19	15:51
18	09:00	07:58	06:44	07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09	07:54 (42)	08:12	08:48 (41)	08:21	09:10
	16:30	17:40	18:42	17 07:27 (42)	20:49	21:52	22:33	22:15	21:10	19:47	19 08:13 (42)	18:26	23 09:11 (41)	16:17	15:51
19	08:58	07:56	08:24 (41) 06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:53 (42)	08:14	08:48 (41)	08:23	09:10
	16:32	17:42	10 08:34 (41)	18:44	20 07:27 (42)	20:51	21:54	22:33	22:14	21:08	19:44	20 08:13 (42)	18:23	22 09:10 (41)	16:15	15:51
20	08:57	07:53	08:21 (41) 06:39	07:07 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:52 (42)	08:16	08:49 (41)	08:25	09:11
	16:34	17:44	15 08:36 (41)	18:46	21 07:28 (42)	20:53	21:55	22:34	22:12	21:05	19:42	22 08:14 (42)	18:21	20 09:09 (41)	16:14	15:52
21	08:55	07:51	08:19 (41) 06:36	07:06 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:51 (42)	08:19	08:50 (41)	08:27	09:12
	16:36	17:46	18 08:37 (41)	18:48	22 07:28 (42)	20:55	21:57	22:34	22:11	21:03	19:39	22 08:13 (42)	18:18	18 09:08 (41)	16:12	15:52
22	08:54	07:48	08:18 (41) 06:33	07:06 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:51 (42)	08:21	08:52 (41)	08:29	09:12
	16:38	17:49	21 08:39 (41)	18:51	22 07:28 (42)	20:57	21:59	22:34	22:09	21:00	19:36	22 08:13 (42)	18:16	14 09:06 (41)	16:10	15:52
23	08:52	07:46	08:17 (41) 06:31	07:05 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:51 (42)	08:23	08:54 (41)	08:31	09:13
	16:40	17:51	22 08:39 (41)	18:53	22 07:27 (42)	20:59	22:01	22:34	22:07	20:57	19:33	21 08:12 (42)	18:13	9 09:03 (41)	16:09	15:53
24	08:51	07:43	08:16 (41) 06:28	07:06 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:51 (42)	08:25		08:33	09:13
	16:42	17:53	23 08:39 (41)	18:55	21 07:27 (42)	21:02	22:03	22:34	22:05	20:55	19:31	20 08:11 (42)	18:11		16:07	15:54
25	08:49	07:40	08:16 (41) 06:25	07:06 (42)	06:02	04:59	04:39	05:17	06:19	07:23	07:52 (42)	07:28		08:35	09:14
	16:45	17:56	24 08:40 (41)	18:57	20 07:26 (42)	21:04	22:05	22:34	22:04	20:52	19:28	18 08:10 (42)	17:08		16:06	15:54
26	08:47	07:38	08:15 (41) 06:23	07:07 (42)	06:00	04:57	04:39	05:18	06:21	07:25	07:54 (42)	07:30		08:37	09:14
	16:47	17:58	25 08:40 (41)	18:59	17 07:24 (42)	21:06	22:06	22:34	22:02	20:50	19:25	15 08:09 (42)	17:06		16:05	15:55
27	08:45	07:35	08:15 (41) 06:20	07:07 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:56 (42)	07:32		08:39	09:14
	16:49	18:00	25 08:40 (41)	19:01	15 07:22 (42)	21:08	22:08	22:34	22:00	20:47	19:22	10 08:06 (42)	17:04		16:03	15:56
28	08:44	07:33	08:15 (41) 06:17	07:10 (42)	05:55	04:54	04:40	05:22	06:26	07:30	07:59 (42)	07:34		08:41	09:14
	16:51	18:02	25 08:40 (41)	19:03	10 07:20 (42)	21:10	22:10	22:34	21:58	20:44	19:20	5 08:04 (42)	17:01		16:02	15:57
29	08:42		07:14		05:53	04:53	04:41	05:24	06:28	07:32		07:36		08:43	09:14
	16:53		20:06		21:12	22:11	22:34	21:56	20:42	19:17		16:59		16:01	15:58
30	08:40		07:12		05:50	04:51	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56		20:08		21:14	22:13	22:33	21:54	20:39	19:14		16:56		16:00	15:59
31	08:38		07:09			04:50		05:28	06:32			07:41			09:14
	16:58		20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case		208	338						234	320		
Sun reduction		0.33	0.46						0.50	0.42		
Oper. time red.		0.94	0.94						0.94	0.94		
Wind dir. red.		0.60	0.61						0.62	0.60		
Total reduction		0.19	0.26						0.29	0.24		
Total, real		39	89						68	76		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: L - Balo ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:46	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:52	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:22	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: M - Bambali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June	July	August	September	October			November			December
1	09:13			08:35		16:06 (38)	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35			07:42		15:34 (38)	08:46
	16:01			17:00	18	16:24 (38)	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11			16:51	28	16:02 (38)	15:58
2	09:13			08:33		16:06 (38)	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37			07:45		15:34 (38)	08:48
	16:02			17:02	21	16:27 (38)	18:06	20:13	21:18	22:17	22:31	21:47	20:30	19:08			16:49	28	16:02 (38)	15:57
3	09:12			08:31		16:05 (38)	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39			07:47		15:33 (38)	08:49
	16:03			17:04	24	16:29 (38)	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05			16:46	28	16:01 (38)	15:56
4	09:12			08:29		16:05 (38)	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41			07:49		15:34 (38)	08:51
	16:05			17:06	26	16:31 (38)	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:02			16:44	28	16:02 (38)	15:55
5	09:11			08:27		16:05 (38)	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:43			07:51		15:34 (38)	08:53
	16:06			17:09	27	16:32 (38)	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00			16:42	27	16:01 (38)	15:54
6	09:11			08:25		16:04 (38)	07:16	06:52	05:35	04:43	04:47	05:39	06:43	07:46			07:54		15:34 (38)	08:54
	16:08			17:11	27	16:31 (38)	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57			16:40	27	16:01 (38)	15:54
7	09:10			08:23		16:04 (38)	07:13	06:49	05:33	04:42	04:48	05:41	06:46	07:48			07:56		15:34 (38)	08:56
	16:09			17:13	28	16:32 (38)	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54			16:38	27	16:01 (38)	15:53
8	09:10			08:21		16:04 (38)	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50			07:58		15:36 (38)	08:57
	16:11			17:16	28	16:32 (38)	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52			16:35	23	15:59 (38)	15:52
9	09:09			08:18		16:04 (38)	07:08	06:44	05:29	04:40	04:50	05:45	06:50	07:52			08:00		15:36 (38)	08:59
	16:12			17:18	28	16:32 (38)	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49			16:33	20	15:56 (38)	15:52
10	09:08			08:16		16:05 (38)	07:05	06:41	05:26	04:40	04:52	05:48	06:52	07:54			08:03		15:37 (38)	09:00
	16:14			17:20	27	16:32 (38)	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46			16:31	18	15:55 (38)	15:51
11	09:07			08:14		16:05 (38)	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56			08:05		15:38 (38)	09:01
	16:16			17:23	27	16:32 (38)	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44			16:29	14	15:52 (38)	15:51
12	09:06			08:11		16:06 (38)	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58			08:07		15:40 (38)	09:03
	16:18			17:25	26	16:32 (38)	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41			16:27	10	15:50 (38)	15:51
13	09:05			08:09		16:06 (38)	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00			08:09		15:41 (38)	09:04
	16:19			17:27	24	16:30 (38)	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38			16:25	7	15:48 (38)	15:50
14	09:04			08:07		16:08 (38)	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03			08:11		15:44 (38)	09:05
	16:21			17:30	22	16:30 (38)	18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36			16:23	2	15:46 (38)	15:50
15	09:03			08:04		16:08 (38)	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05			08:14			09:06
	16:23			17:32	20	16:28 (38)	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33			16:22			15:50
16	09:02			08:02		16:10 (38)	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07			08:16			09:07
	16:25			17:34	17	16:27 (38)	18:37	20:44	21:47	22:31	22:17	21:14	19:52	18:30			16:20			15:50
17	09:00			08:00		16:12 (38)	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09			08:18			09:08
	16:27			17:37	13	16:25 (38)	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28			16:18			15:50
18	08:59			07:57			06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11			08:20			09:09
	16:29			17:39			18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25			16:16			15:50
19	08:58			07:55			06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14			08:22			09:10
	16:31			17:41			18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23			16:15			15:51
20	08:56			07:52			06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16			08:24			09:10
	16:33			17:43			18:46	20:52	21:55	22:33	22:11	21:04	19:41	18:20			16:13			15:51
21	08:55			07:50			06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18			08:26			09:11
	16:35			17:46			18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18			16:11			15:51
22	08:53			07:47			06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20			08:29			09:12
	16:37			17:48			18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15			16:10			15:52
23	08:51			07:45			06:30	06:07	05:01	04:37	05:12	06:14	07:18	08:22			08:31			09:12
	16:40			17:50			18:52	20:59	22:00	22:34	22:06	20:57	19:33	18:13			16:08			15:52
24	08:50			07:42			06:27	06:04	05:00	04:38	05:14	06:17	07:20	08:25		16:45 (38)	08:33			09:12
	16:42			17:53			18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	7	16:52 (38)	16:07			15:53
25	08:48			07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27		15:41 (38)	08:35			09:13
	16:44			17:55			18:56	21:03	22:04	22:34	22:03	20:51	19:27	17:08	14	15:55 (38)	16:05			15:54
26	08:46			07:37			06:22	05:59	04:56	04:39	05:18	06:21	07:25	07:29		15:39 (38)	08:37			09:13
	16:46			17:57			18:58	21:05	22:06	22:33	22:01	20:49	19:24	17:05	18	15:57 (38)	16:04			15:54
27	08:45			07:35			06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31		15:37 (38)	08:39			09:13
	16:48			17:59			19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	21	15:58 (38)	16:03			15:55
28	08:43		16:12 (38)	07:32			06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:33		15:37 (38)	08:40			09:13
	16:51	2	16:14 (38)	18:02			19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	23	16:00 (38)	16:01			15:56
29	08:41		16:09 (38)				07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36		15:35 (38)	08:42			09:13
	16:53	7	16:16 (38)				20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	25	16:00 (38)	16:00			15:57
30	08:39		16:08 (38)				07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38		15:35 (38)	08:44			09:13
	16:55	11	16:19 (38)				20:07	21:14	22:12	22:32	21:53	20:38	19:13	16:56	26	16:01 (38)	15:59			15:58
31	08:37		16:07 (38)				07:08		04:49		05:27	06:31		07:40		15:34 (38)				09:13
	16:57	14	16:21 (38)				20:09		22:14		21:51	20:36		16:53	27	16:01 (38)				15:59
Potential sun hours	231			264			366	428	512	534	534	472	385	322			244			211
Total, worst case		34			403										161			287		
Sun reduction		0.28			0.33										0.42			0.23		
Oper. time red.		0.94			0.94										0.94			0.94		
Wind dir. red.		0.68			0.68										0.68			0.68		
Total reduction		0.17			0.21										0.27			0.15		
Total, real		6			85										43			42		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: N - Berzi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September		October		November	December
1	09:14	08:36		07:30	08:00 (41)	07:06	05:48	04:49	04:43	05:30	06:34		07:36		07:43	08:47
	16:01	17:00		18:05	21 08:21 (41)	20:12	21:17	22:16	22:33	21:50	20:34		19:11		16:52	15:59
2	09:14	08:34		07:27	07:59 (41)	07:03	05:45	04:48	04:43	05:32	06:36		07:38		07:45	08:49
	16:03	17:03		18:07	22 08:21 (41)	20:14	21:19	22:17	22:32	21:48	20:31		19:09		16:49	15:58
3	09:13	08:32		07:25	07:59 (41)	07:01	05:43	04:47	04:44	05:34	06:38		07:40	08:41 (41)	07:48	08:50
	16:04	17:05		18:09	23 08:22 (41)	20:16	21:21	22:19	22:32	21:45	20:28		19:06	10 08:51 (41)	16:47	15:57
4	09:13	08:30		07:22	07:58 (41)	06:58	05:41	04:46	04:45	05:36	06:40		07:42	08:38 (41)	07:50	08:52
	16:05	17:07		18:11	24 08:22 (41)	20:18	21:23	22:20	22:31	21:43	20:26		19:03	15 08:53 (41)	16:45	15:56
5	09:12	08:28		07:20	07:58 (41)	06:55	05:38	04:45	04:46	05:38	06:42		07:44	08:36 (41)	07:52	08:54
	16:07	17:10		18:13	23 08:21 (41)	20:21	21:25	22:21	22:30	21:41	20:23		19:00	18 08:54 (41)	16:43	15:55
6	09:12	08:26		07:17	07:58 (41)	06:52	05:36	04:44	04:47	05:40	06:44		07:46	08:36 (41)	07:54	08:55
	16:08	17:12		18:16	22 08:20 (41)	20:23	21:27	22:23	22:30	21:39	20:20		18:58	20 08:56 (41)	16:41	15:54
7	09:11	08:24		07:14	07:59 (41)	06:50	05:34	04:43	04:49	05:42	06:46		07:48	08:34 (41)	07:57	08:57
	16:10	17:14		18:18	21 08:20 (41)	20:25	21:29	22:24	22:29	21:37	20:17		18:55	22 08:56 (41)	16:38	15:54
8	09:10	08:21		07:12	07:59 (41)	06:47	05:32	04:42	04:50	05:44	06:48		07:51	08:33 (41)	07:59	08:58
	16:11	17:16		18:20	20 08:19 (41)	20:27	21:31	22:25	22:28	21:34	20:15		18:52	23 08:56 (41)	16:36	15:53
9	09:10	08:19		07:09	08:00 (41)	06:44	05:29	04:41	04:51	05:46	06:50		07:53	08:33 (41)	08:01	09:00
	16:13	17:19		18:22	17 08:17 (41)	20:29	21:33	22:26	22:27	21:32	20:12		18:50	23 08:56 (41)	16:34	15:53
10	09:09	08:17		07:06	08:02 (41)	06:42	05:27	04:40	04:52	05:48	06:52		07:55	08:32 (41)	08:03	09:01
	16:15	17:21		18:25	12 08:14 (41)	20:31	21:36	22:27	22:26	21:30	20:09		18:47	23 08:55 (41)	16:32	15:52
11	09:08	08:15		07:04	08:06 (41)	06:39	05:25	04:40	04:54	05:50	06:55		07:57	08:33 (41)	08:06	09:02
	16:16	17:23		18:27	5 08:11 (41)	20:34	21:38	22:28	22:25	21:27	20:06		18:44	23 08:56 (41)	16:30	15:52
12	09:07	08:12		07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:51 (42)	07:59	08:33 (41)	08:08	09:04
	16:18	17:26		18:29		20:36	21:40	22:29	22:24	21:25	20:04	8 07:59 (42)	18:42	22 08:55 (41)	16:28	15:51
13	09:06	08:10		06:58		06:34	05:21	04:39	04:56	05:54	06:59	07:48 (42)	08:01	08:33 (41)	08:10	09:05
	16:20	17:28		18:31		20:38	21:42	22:30	22:22	21:23	20:01	13 08:01 (42)	18:39	21 08:54 (41)	16:26	15:51
14	09:05	08:08		06:55		06:31	05:19	04:38	04:58	05:57	07:01	07:46 (42)	08:03	08:33 (41)	08:12	09:06
	16:22	17:30		18:33		20:40	21:44	22:31	22:21	21:20	19:58	16 08:02 (42)	18:36	19 08:52 (41)	16:24	15:51
15	09:04	08:05		06:53		06:28	05:17	04:38	04:59	05:59	07:03	07:45 (42)	08:06	08:36 (41)	08:14	09:07
	16:24	17:33		18:35		20:42	21:46	22:31	22:20	21:18	19:55	18 08:03 (42)	18:34	16 08:52 (41)	16:22	15:51
16	09:02	08:03		06:50		06:26	05:15	04:38	05:01	06:01	07:05	07:44 (42)	08:08	08:38 (41)	08:17	09:08
	16:26	17:35		18:38		20:44	21:48	22:32	22:18	21:15	19:53	19 08:03 (42)	18:31	12 08:50 (41)	16:20	15:51
17	09:01	08:00		06:47		06:23	05:13	04:38	05:03	06:03	07:07	07:43 (42)	08:10	08:40 (41)	08:19	09:09
	16:28	17:37		18:40		20:46	21:50	22:32	22:17	21:13	19:50	20 08:03 (42)	18:29	6 08:46 (41)	16:19	15:51
18	09:00	07:58		06:44		06:20	05:11	04:38	05:04	06:05	07:09	07:43 (42)	08:12		08:21	09:10
	16:30	17:40		18:42		20:49	21:52	22:33	22:15	21:10	19:47	20 08:03 (42)	18:26		16:17	15:51
19	08:58	07:56		06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:42 (42)	08:14		08:23	09:10
	16:32	17:42		18:44	3 07:10 (42)	20:51	21:54	22:33	22:14	21:08	19:44	20 08:02 (42)	18:23		16:15	15:51
20	08:57	07:53		06:39	07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:42 (42)	08:16		08:25	09:11
	16:34	17:44		18:46	8 07:13 (42)	20:53	21:55	22:34	22:12	21:05	19:42	20 08:02 (42)	18:21		16:14	15:52
21	08:55	07:51		06:36	07:02 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:44 (42)	08:19		08:27	09:12
	16:36	17:46		18:48	12 07:14 (42)	20:55	21:57	22:34	22:11	21:03	19:39	17 08:01 (42)	18:18		16:12	15:52
22	08:54	07:48		06:33	06:59 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:46 (42)	08:21		08:29	09:12
	16:38	17:49		18:51	16 07:15 (42)	20:57	21:59	22:34	22:09	21:00	19:36	13 07:59 (42)	18:16		16:10	15:53
23	08:52	07:46		06:31	06:56 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:48 (42)	08:23		08:31	09:13
	16:40	17:51		18:53	19 07:15 (42)	20:59	22:01	22:34	22:07	20:57	19:33	10 07:58 (42)	18:13		16:09	15:53
24	08:51	07:43		06:28	06:56 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:50 (42)	08:25		08:33	09:13
	16:42	17:53		18:55	20 07:16 (42)	21:02	22:03	22:34	22:05	20:55	19:31	5 07:55 (42)	18:11		16:07	15:54
25	08:49	07:40	08:08 (41)	06:25	06:55 (42)	06:03	04:59	04:39	05:17	06:19	07:23		07:28		08:35	09:14
	16:45	17:56	8 08:16 (41)	18:57	20 07:15 (42)	21:04	22:05	22:34	22:04	20:52	19:28		17:08		16:06	15:54
26	08:47	07:38	08:05 (41)	06:23	06:54 (42)	06:00	04:57	04:39	05:18	06:21	07:25		07:30		08:37	09:14
	16:47	17:58	13 08:18 (41)	18:59	21 07:15 (42)	21:06	22:06	22:34	22:02	20:50	19:25		17:06		16:05	15:55
27	08:45	07:35	08:02 (41)	06:20	06:54 (42)	05:58	04:56	04:40	05:20	06:24	07:27		07:32		08:39	09:14
	16:49	18:00	17 08:19 (41)	19:01	20 07:14 (42)	21:08	22:08	22:34	22:00	20:47	19:22		17:04		16:03	15:56
28	08:44	07:33	08:01 (41)	06:17	06:55 (42)	05:55	04:54	04:40	05:22	06:26	07:30		07:34		08:41	09:14
	16:51	18:02	20 08:21 (41)	19:03	19 07:14 (42)	21:10	22:10	22:34	21:58	20:44	19:20		17:01		16:02	15:57
29	08:42			07:14	07:56 (42)	05:53	04:53	04:41	05:24	06:28	07:32		07:36		08:43	09:14
	16:53			20:06	16 08:12 (42)	21:12	22:11	22:34	21:56	20:42	19:17		16:59		16:01	15:58
30	08:40			07:12	07:56 (42)	05:50	04:51	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56			20:08	14 08:10 (42)	21:14	22:13	22:33	21:54	20:39	19:14		16:56		16:00	15:59
31	08:38			07:09	07:58 (42)		04:50		05:28	06:32			07:41			09:14
	16:58			20:10	9 08:07 (42)		22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385		322		244	211
Total, worst case			58		407							199		273		
Sun reduction			0.33		0.46							0.50		0.42		
Oper. time red.			0.94		0.94							0.94		0.94		
Wind dir. red.			0.60		0.61							0.63		0.60		
Total reduction			0.19		0.26							0.29		0.24		
Total, real			11		107							58		65		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: O - Berznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May	June
1	09:14		10:46 (4)	08:36		09:25 (2)	07:30	08:10 (43)	07:06	05:48	04:49
	16:01	52	12:10 (41)	17:00	69	10:50 (42)	18:04	28	08:38 (43)	20:12	21:16	22:16
2	09:14		10:46 (4)	08:34		09:24 (2)	07:27	08:08 (43)	07:03	05:45	04:48
	16:03	52	12:10 (41)	17:02	68	10:49 (42)	18:07	31	08:39 (43)	20:14	21:19	22:17
3	09:13		10:17 (42)	08:32		09:23 (2)	07:25	08:07 (43)	07:01	05:43	04:46
	16:04	56	12:10 (41)	17:05	70	10:49 (42)	18:09	32	08:39 (43)	20:16	21:21	22:19
4	09:13		10:15 (42)	08:30		09:23 (2)	07:22	08:07 (43)	06:58	05:41	04:45
	16:05	59	12:10 (41)	17:07	70	10:49 (42)	18:11	33	08:40 (43)	20:18	21:23	22:20
5	09:12		10:14 (42)	08:28		09:21 (2)	07:19	08:05 (43)	06:55	05:38	04:44
	16:07	61	12:10 (41)	17:09	71	10:48 (42)	18:13	36	08:41 (43)	20:21	21:25	22:21
6	09:12		10:13 (42)	08:26		09:21 (2)	07:17	08:04 (43)	06:52	05:36	04:43
	16:08	63	12:10 (41)	17:12	71	10:48 (42)	18:16	37	08:41 (43)	20:23	21:27	22:23
7	09:11		10:12 (42)	08:23		09:21 (2)	07:14	08:03 (43)	06:50	05:34	04:43
	16:10	62	12:09 (41)	17:14	70	10:47 (42)	18:18	38	08:41 (43)	20:25	21:29	22:24
8	09:10		10:11 (42)	08:21		09:20 (2)	07:11	08:04 (43)	06:47	05:31	04:42
	16:11	63	12:09 (41)	17:16	70	10:46 (42)	18:20	37	08:41 (43)	20:27	21:31	22:25
9	09:10		10:11 (42)	08:19		09:20 (2)	07:09	08:03 (43)	06:44	05:29	04:41
	16:13	62	12:09 (41)	17:19	68	10:45 (42)	18:22	38	08:41 (43)	20:29	21:33	22:26
10	09:09		10:10 (42)	08:17		09:20 (2)	07:06	08:03 (43)	06:42	05:27	04:40
	16:15	61	12:08 (41)	17:21	65	10:43 (42)	18:24	37	08:40 (43)	20:31	21:35	22:27
11	09:08		10:10 (42)	08:14		09:20 (2)	07:03	08:02 (43)	06:39	05:25	04:40
	16:16	57	12:07 (41)	17:23	62	10:42 (42)	18:27	38	08:40 (43)	20:33	21:38	22:28
12	09:07		10:10 (42)	08:12		09:20 (2)	07:01	08:03 (43)	06:36	05:23	04:39
	16:18	54	12:06 (41)	17:26	57	10:39 (42)	18:29	37	08:40 (43)	20:36	21:40	22:29
13	09:06		10:09 (42)	08:10		09:20 (2)	06:58	08:03 (43)	06:34	05:21	04:39
	16:20	45	11:12 (4)	17:28	49	10:35 (42)	18:31	36	08:39 (43)	20:38	21:42	22:30
14	09:05		10:09 (42)	08:08		09:20 (2)	06:55	08:03 (43)	06:31	05:19	04:38
	16:22	45	11:12 (4)	17:30	38	09:58 (2)	18:33	35	08:38 (43)	20:40	21:44	22:30
15	09:04		10:08 (42)	08:05		09:21 (2)	06:53	08:03 (43)	06:28	05:17	04:38
	16:24	43	11:10 (4)	17:33	37	09:58 (2)	18:35	33	08:36 (43)	20:42	21:46	22:31
16	09:02		09:39 (5)	08:03		09:21 (2)	06:50	07:16 (1)	06:26	05:15	04:38
	16:26	39	11:08 (4)	17:35	36	09:57 (2)	18:38	36	08:36 (43)	20:44	21:48	22:32
17	09:01		09:37 (5)	08:00		09:22 (2)	06:47	07:13 (1)	06:23	05:13	04:38
	16:28	40	10:42 (42)	17:37	35	09:57 (2)	18:40	40	08:34 (43)	20:46	21:50	22:32
18	09:00		09:35 (5)	07:58		09:22 (2)	06:44	07:10 (1)	06:20	05:11	04:37
	16:30	46	10:43 (42)	17:39	34	09:56 (2)	18:42	41	08:32 (43)	20:49	21:52	22:33
19	08:58		09:34 (5)	07:55		09:22 (2)	06:42	07:07 (1)	06:18	05:09	04:37
	16:32	49	10:44 (42)	17:42	33	09:55 (2)	18:44	40	08:29 (43)	20:51	21:54	22:33
20	08:57		09:32 (5)	07:53		09:24 (2)	06:39	07:07 (1)	06:15	05:07	04:37
	16:34	53	10:45 (42)	17:44	30	09:54 (2)	18:46	36	08:27 (43)	20:53	21:55	22:34
21	08:55		09:31 (5)	07:50		09:24 (2)	06:36	07:05 (1)	06:13	05:05	04:38
	16:36	57	10:46 (42)	17:46	28	09:52 (2)	18:48	28	08:21 (43)	20:55	21:57	22:34
22	08:54		09:30 (5)	07:48		09:27 (2)	06:33	07:05 (1)	06:10	05:04	04:38
	16:38	59	10:46 (42)	17:49	24	09:51 (2)	18:50	22	07:27 (1)	20:57	21:59	22:34
23	08:52		09:30 (5)	07:45		09:28 (2)	06:31	07:04 (1)	06:07	05:02	04:38
	16:40	60	10:47 (42)	17:51	21	09:49 (2)	18:53	22	07:26 (1)	20:59	22:01	22:34
24	08:51		09:30 (5)	07:43		09:30 (2)	06:28	07:03 (1)	06:05	05:00	04:38
	16:42	61	10:47 (42)	17:53	15	09:45 (2)	18:55	23	07:26 (1)	21:01	22:03	22:34
25	08:49		09:30 (5)	07:40			06:25	07:04 (1)	06:02	04:59	04:39
	16:44	62	10:47 (42)	17:55			18:57	22	07:26 (1)	21:04	22:05	22:34
26	08:47		09:30 (5)	07:38		08:17 (43)	06:22	07:04 (1)	06:00	04:57	04:39
	16:47	63	10:48 (42)	17:58	14	08:31 (43)	18:59	21	07:25 (1)	21:06	22:06	22:34
27	08:45		09:30 (5)	07:35		08:14 (43)	06:20	07:05 (1)	05:57	04:56	04:40
	16:49	64	10:48 (42)	18:00	20	08:34 (43)	19:01	18	07:23 (1)	21:08	22:08	22:34
28	08:44		09:30 (5)	07:33		08:12 (43)	06:17	07:05 (1)	05:55	04:54	04:40
	16:51	65	10:49 (42)	18:02	25	08:37 (43)	19:03	16	07:21 (1)	21:10	22:10	22:34
29	08:42		09:29 (2)				07:14	08:08 (1)	05:52	04:53	04:41
	16:53	65	10:49 (42)				20:06	12	08:20 (1)	21:12	22:11	22:34
30	08:40		09:28 (2)				07:11	08:12 (1)	05:50	04:51	04:42
	16:56	66	10:49 (42)				20:08	2	08:14 (1)	21:14	22:13	22:33
31	08:38		09:26 (2)				07:09			04:50	
	16:58	68	10:50 (42)				20:10			22:14	
Potential sun hours	231		264			366		428	512	534	
Total, worst case		1752		1250			905				
Sun reduction		0.28		0.33			0.46				
Oper. time red.		0.94		0.94			0.94				
Wind dir. red.		0.60		0.58			0.61				
Total reduction		0.16		0.18			0.26				
Total, real		272		227			236				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: O - Berznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September			October			November			December		
1	04:42		05:30		06:34			07:36		08:42 (43)	07:43		08:49 (2)	08:47		09:52 (42)
	22:33		21:50		20:34			19:11	37	09:19 (43)	16:52	66	10:13 (42)	15:59	57	11:49 (41)
2	04:43		05:32		06:36			07:38		08:42 (43)	07:45		08:50 (2)	08:49		09:53 (42)
	22:32		21:48		20:31			19:09	37	09:19 (43)	16:49	69	10:15 (42)	15:58	60	11:51 (41)
3	04:44		05:34		06:38			07:40		08:41 (43)	07:48		08:50 (2)	08:50		09:55 (42)
	22:32		21:45		20:28			19:06	37	09:18 (43)	16:47	69	10:15 (42)	15:57	62	11:53 (41)
4	04:45		05:36		06:40			07:42		08:40 (43)	07:50		08:51 (2)	08:52		09:56 (42)
	22:31		21:43		20:25			19:03	38	09:18 (43)	16:45	71	10:17 (42)	15:56	62	11:54 (41)
5	04:46		05:38		06:42			07:44		08:40 (43)	07:52		08:51 (2)	08:54		09:58 (42)
	22:30		21:41		20:23			19:00	38	09:18 (43)	16:43	71	10:17 (42)	15:55	62	11:55 (41)
6	04:47		05:40		06:44			07:46		08:41 (43)	07:54		08:52 (2)	08:55		09:59 (42)
	22:30		21:39		20:20			18:58	37	09:18 (43)	16:40	72	10:19 (42)	15:54	62	11:56 (41)
7	04:48		05:42		06:46			07:48		08:40 (43)	07:57		08:52 (2)	08:57		10:01 (42)
	22:29		21:37		20:17			18:55	37	09:17 (43)	16:38	72	10:19 (42)	15:54	62	11:57 (41)
8	04:50		05:44		06:48			07:50		08:40 (43)	07:59		08:54 (2)	08:58		10:03 (42)
	22:28		21:34		20:15			18:52	36	09:16 (43)	16:36	70	10:20 (42)	15:53	60	11:58 (41)
9	04:51		05:46		06:50			07:53		08:40 (43)	08:01		08:54 (2)	09:00		10:05 (42)
	22:27		21:32		20:12			18:50	35	09:15 (43)	16:34	69	10:20 (42)	15:52	57	11:58 (41)
10	04:52		05:48		06:52			07:55		08:41 (43)	08:03		08:56 (2)	09:01		10:36 (4)
	22:26		21:30		20:09			18:47	33	09:14 (43)	16:32	69	10:21 (42)	15:52	52	12:00 (41)
11	04:53		05:50		06:54			07:57		08:42 (43)	08:06		08:57 (2)	09:02		10:36 (4)
	22:25		21:27		20:06			18:44	32	09:14 (43)	16:30	68	10:20 (42)	15:52	52	12:00 (41)
12	04:55		05:52		06:56			07:59		08:43 (43)	08:08		09:00 (2)	09:03		10:36 (4)
	22:23		21:25		20:04			18:42	29	09:12 (43)	16:28	66	10:21 (42)	15:51	53	12:00 (41)
13	04:56		05:54		06:59			08:01		08:44 (43)	08:10		09:01 (2)	09:05		10:37 (4)
	22:22		21:22		20:01			18:39	26	09:10 (43)	16:26	65	10:21 (42)	15:51	54	12:02 (41)
14	04:58		05:56		07:01		07:59 (1)	08:03		08:45 (43)	08:12		09:03 (5)	09:06		10:37 (4)
	22:21		21:20		19:58	10	08:09 (1)	18:36	23	09:08 (43)	16:24	65	10:22 (42)	15:51	54	12:02 (41)
15	04:59		05:58		07:03		07:56 (1)	08:05		08:48 (43)	08:14		09:03 (5)	09:07		10:38 (4)
	22:20		21:18		19:55	15	08:11 (1)	18:34	18	09:06 (43)	16:22	64	10:21 (42)	15:51	55	12:03 (41)
16	05:01		06:01		07:05		07:54 (1)	08:08		08:51 (43)	08:17		09:04 (5)	09:08		10:38 (4)
	22:18		21:15		19:53	18	08:12 (1)	18:31	11	09:02 (43)	16:20	63	10:22 (42)	15:51	55	12:03 (41)
17	05:02		06:03		07:07		07:53 (1)	08:10		10:05 (2)	08:19		09:04 (5)	09:09		10:39 (4)
	22:17		21:13		19:50	20	08:13 (1)	18:28	8	10:13 (2)	16:19	62	10:21 (42)	15:51	55	12:04 (41)
18	05:04		06:05		07:09		07:52 (1)	08:12		10:01 (2)	08:21		09:04 (5)	09:10		10:39 (4)
	22:15		21:10		19:47	21	08:13 (1)	18:26	17	10:18 (2)	16:17	61	10:21 (42)	15:51	56	12:05 (41)
19	05:06		06:07		07:11		07:51 (1)	08:14		09:58 (2)	08:23		09:05 (5)	09:10		10:40 (4)
	22:14		21:08		19:44	22	08:13 (1)	18:23	22	10:20 (2)	16:15	60	10:22 (42)	15:51	55	12:05 (41)
20	05:07		06:09		07:13		07:51 (1)	08:16		09:56 (2)	08:25		09:05 (5)	09:11		10:40 (4)
	22:12		21:05		19:42	22	08:13 (1)	18:21	26	10:22 (2)	16:13	59	10:21 (42)	15:52	56	12:05 (41)
21	05:09		06:11		07:15		07:50 (1)	08:19		09:55 (2)	08:27		09:07 (5)	09:12		10:41 (4)
	22:11		21:03		19:39	23	08:13 (1)	18:18	29	10:24 (2)	16:12	57	10:22 (42)	15:52	56	12:06 (41)
22	05:11		06:13		07:17		07:50 (1)	08:21		09:54 (2)	08:29		09:08 (5)	09:12		10:40 (4)
	22:09		21:00		19:36	22	08:12 (1)	18:16	31	10:25 (2)	16:10	53	10:21 (42)	15:52	57	12:06 (41)
23	05:13		06:15		07:19		07:50 (1)	08:23		09:52 (2)	08:31		09:10 (5)	09:13		10:42 (4)
	22:07		20:57		19:33	35	09:10 (43)	18:13	33	10:25 (2)	16:09	50	10:21 (42)	15:53	56	12:07 (41)
24	05:15		06:17		07:21		07:50 (1)	08:25		09:52 (2)	08:33		09:13 (5)	09:13		10:42 (4)
	22:05		20:55		19:30	40	09:12 (43)	18:11	34	10:26 (2)	16:07	46	10:21 (42)	15:53	55	12:07 (41)
25	05:16		06:19		07:23		07:52 (1)	07:27		08:51 (2)	08:35		09:15 (5)	09:14		10:42 (4)
	22:03		20:52		19:28	40	09:14 (43)	17:08	36	09:27 (2)	16:06	41	10:21 (42)	15:54	55	12:07 (41)
26	05:18		06:21		07:25		07:54 (1)	07:30		08:51 (2)	08:37		09:17 (5)	09:14		10:42 (4)
	22:02		20:50		19:25	39	09:15 (43)	17:06	37	09:28 (2)	16:05	39	10:46 (4)	15:55	56	12:08 (41)
27	05:20		06:23		07:27		07:56 (1)	07:32		08:50 (2)	08:39		09:47 (42)	09:14		10:43 (4)
	22:00		20:47		19:22	37	09:16 (43)	17:03	37	09:27 (2)	16:03	43	10:49 (4)	15:56	55	12:08 (41)
28	05:22		06:26		07:29		08:45 (43)	07:34		08:49 (2)	08:41		09:49 (42)	09:14		10:43 (4)
	21:58		20:44		19:19	32	09:17 (43)	17:01	38	09:27 (2)	16:02	45	10:52 (4)	15:57	54	12:08 (41)
29	05:24		06:28		07:32		08:44 (43)	07:36		08:50 (2)	08:43		09:50 (42)	09:14		10:44 (4)
	21:56		20:42		19:17	34	09:18 (43)	16:59	51	10:06 (42)	16:01	45	10:53 (4)	15:58	55	12:09 (41)
30	05:26		06:30		07:34		08:43 (43)	07:39		08:49 (2)	08:45		09:51 (42)	09:14		10:45 (4)
	21:54		20:39		19:14	36	09:19 (43)	16:56	58	10:09 (42)	16:00	54	11:47 (41)	15:59	54	12:09 (41)
31	05:28		06:32					07:41		08:50 (2)				09:14		10:46 (4)
	21:52		20:36					16:54	62	10:11 (42)				16:00	53	12:10 (41)
Potential sun hours	534		472		385			322			244			211		
Total, worst case						466			1023			1804			1747	
Sun reduction						0.50			0.42			0.23			0.23	
Oper. time red.						0.94			0.94			0.94			0.94	
Wind dir. red.						0.61			0.59			0.59			0.62	
Total reduction						0.29			0.23			0.13			0.13	
Total, real						133			238			229			231	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: P - Birznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May		June	
1	09:13	08:36		07:30		08:19 (30)	07:06	05:48	04:49	05:25 (21)
	16:02	17:01		18:05	22	08:41 (30)	20:12	21:16	22:16	5 05:30 (21)
2	09:13	08:34		07:27		08:20 (30)	07:03	05:46	04:48	05:24 (21)
	16:03	17:03		18:07	19	08:39 (30)	20:14	21:18	22:17	8 05:32 (21)
3	09:13	08:32	09:15 (29)	07:25		08:21 (30)	07:01	05:43	04:47	05:23 (21)
	16:04	17:05	11 09:26 (29)	18:09	16	08:37 (30)	20:16	21:21	22:18	10 05:33 (21)
4	09:12	08:30	09:11 (29)	07:22		08:23 (30)	06:58	05:41	04:46	05:22 (21)
	16:06	17:07	17 09:28 (29)	18:11	13	08:36 (30)	20:18	21:23	22:20	12 05:34 (21)
5	09:12	08:28	09:10 (29)	07:20		08:27 (30)	06:55	05:39	04:45	05:21 (21)
	16:07	17:10	21 09:31 (29)	18:14	4	08:31 (30)	20:21	21:25	22:21	13 05:34 (21)
6	09:11	08:25	09:09 (29)	07:17			06:53	05:36	04:44	05:20 (21)
	16:09	17:12	24 09:33 (29)	18:16			20:23	21:27	22:22	15 05:35 (21)
7	09:11	08:23	09:07 (29)	07:14			06:50	05:34	04:43	05:20 (21)
	16:10	17:14	26 09:33 (29)	18:18			20:25	21:29	22:23	16 05:36 (21)
8	09:10	08:21	09:06 (29)	07:12		07:47 (28)	06:47	05:32	04:42	05:19 (21)
	16:12	17:17	29 09:35 (29)	18:20	5	07:52 (28)	20:27	21:31	22:25	17 05:36 (21)
9	09:09	08:19	09:06 (29)	07:09		07:42 (28)	06:44	05:30	04:42	05:19 (21)
	16:13	17:19	30 09:36 (29)	18:22	14	07:56 (28)	20:29	21:33	22:26	18 05:37 (21)
10	09:08	08:17	09:05 (29)	07:06		07:39 (28)	06:42	05:27	04:41	05:18 (21)
	16:15	17:21	32 09:37 (29)	18:25	19	07:58 (28)	20:31	21:35	22:27	19 05:37 (21)
11	09:07	08:14	09:05 (29)	07:03		07:37 (28)	06:39	05:25	04:40	05:18 (21)
	16:17	17:24	33 09:38 (29)	18:27	23	08:00 (28)	20:33	21:37	22:28	20 05:38 (21)
12	09:07	08:12	09:04 (29)	07:01		07:36 (28)	06:36	05:23	04:40	05:17 (21)
	16:19	17:26	34 09:38 (29)	18:29	25	08:01 (28)	20:36	21:39	22:29	21 05:38 (21)
13	09:05	08:10	09:04 (29)	06:58		07:34 (28)	06:34	05:21	04:39	05:18 (21)
	16:20	17:28	35 09:39 (29)	18:31	28	08:02 (28)	20:38	21:41	22:29	20 05:38 (21)
14	09:04	08:07	09:03 (29)	06:55		07:33 (28)	06:31	05:19	04:39	05:18 (21)
	16:22	17:31	35 09:38 (29)	18:33	29	08:02 (28)	20:40	21:43	22:30	21 05:39 (21)
15	09:03	08:05	09:03 (29)	06:53		07:32 (28)	06:28	05:17	04:39	05:18 (21)
	16:24	17:33	36 09:39 (29)	18:35	30	08:02 (28)	20:42	21:45	22:31	21 05:39 (21)
16	09:02	08:03	09:03 (29)	06:50		07:32 (28)	06:26	05:15	04:38	05:18 (21)
	16:26	17:35	36 09:39 (29)	18:38	31	08:03 (28)	20:44	21:47	22:31	21 05:39 (21)
17	09:01	08:00	09:04 (29)	06:47		07:31 (28)	06:23	05:13	04:38	05:18 (21)
	16:28	17:37	35 09:39 (29)	18:40	32	08:03 (28)	20:46	21:49	22:32	21 05:39 (21)
18	08:59	07:58	08:26 (30)	06:44		07:31 (28)	06:21	05:11	04:38	05:18 (21)
	16:30	17:40	46 09:38 (29)	18:42	31	08:02 (28)	20:48	21:51	22:32	22 05:40 (21)
19	08:58	07:55	08:23 (30)	06:42		07:30 (28)	06:18	05:09	04:38	05:18 (21)
	16:32	17:42	49 09:37 (29)	18:44	32	08:02 (28)	20:51	21:53	22:33	22 05:40 (21)
20	08:57	07:53	08:22 (30)	06:39		07:31 (28)	06:15	05:08	04:38	05:19 (21)
	16:34	17:44	51 09:37 (29)	18:46	31	08:02 (28)	20:53	21:55	22:33	22 05:41 (21)
21	08:55	07:50	08:20 (30)	06:36		07:31 (28)	06:13	05:06	04:38	05:19 (21)
	16:36	17:47	53 09:36 (29)	18:48	30	08:01 (28)	20:55	21:57	22:34	22 05:41 (21)
22	08:54	07:48	08:20 (30)	06:34		07:31 (28)	06:10	05:04	04:38	05:19 (21)
	16:38	17:49	52 09:36 (29)	18:51	29	08:00 (28)	20:57	21:59	22:34	22 05:41 (21)
23	08:52	07:45	08:19 (30)	06:31		07:31 (28)	06:08	05:02	04:38	05:19 (21)
	16:41	17:51	51 09:34 (29)	18:53	27	07:58 (28)	20:59	22:01	22:34	22 05:41 (21)
24	08:50	07:43	08:18 (30)	06:28		07:33 (28)	06:05	05:01	04:39	05:20 (21)
	16:43	17:53	50 09:33 (29)	18:55	24	07:57 (28)	21:01	22:02	22:34	22 05:42 (21)
25	08:49	07:40	08:19 (30)	06:25		07:33 (28)	06:03	04:59	04:39	05:20 (21)
	16:45	17:56	47 09:32 (29)	18:57	22	07:55 (28)	21:03	22:04	22:34	21 05:41 (21)
26	08:47	07:38	08:18 (30)	06:23		07:35 (28)	06:00	04:58	04:40	05:20 (21)
	16:47	17:58	42 09:29 (29)	18:59	18	07:53 (28)	21:06	22:06	22:34	21 05:41 (21)
27	08:45	07:35	08:18 (30)	06:20		07:37 (28)	05:58	04:56	04:40	05:21 (21)
	16:49	18:00	36 09:25 (29)	19:01	13	07:50 (28)	21:08	22:08	22:34	21 05:42 (21)
28	08:43	07:33	08:19 (30)	06:17			05:55	04:55	04:41	05:21 (21)
	16:51	18:02	23 08:42 (30)	19:03			21:10	22:09	22:33	21 05:42 (21)
29	08:42			07:14			05:53	04:53	04:41	05:21 (21)
	16:54			20:06			21:12	22:11	22:33	21 05:42 (21)
30	08:40			07:12			05:50	04:52	04:42	05:22 (21)
	16:56			20:08			21:14	22:12	22:33	20 05:42 (21)
31	08:38			07:09				04:51	05:26 (21)	
	16:58			20:10				22:14	1 05:27 (21)	
Potential sun hours	231	264		366			428	512		534
Total, worst case			934		567				1	557
Sun reduction			0.33		0.46				0.61	0.57
Oper. time red.			0.94		0.94				0.94	0.94
Wind dir. red.			0.59		0.60				0.68	0.68
Total reduction			0.18		0.26				0.39	0.36
Total, real			172		146				0	202

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: P - Birznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August	September			October			November			December
1	04:43		05:22 (21)	05:30	06:34			07:36		08:14 (28)	07:43		08:34 (29)	08:46
	22:32	20	05:42 (21)	21:49	20:34			19:11	27	08:41 (28)	16:52	32	09:06 (29)	15:59
2	04:44		05:22 (21)	05:32	06:36			07:38		08:15 (28)	07:45		08:36 (29)	08:48
	22:32	19	05:41 (21)	21:47	20:31			19:09	24	08:39 (28)	16:50	30	09:06 (29)	15:58
3	04:45		05:23 (21)	05:34	06:38			07:40		08:16 (28)	07:47		08:36 (29)	08:50
	22:31	19	05:42 (21)	21:45	20:28			19:06	21	08:37 (28)	16:47	28	09:04 (29)	15:57
4	04:46		05:24 (21)	05:36	06:40			07:42		08:18 (28)	07:50		08:37 (29)	08:52
	22:31	18	05:42 (21)	21:43	20:25			19:03	17	08:35 (28)	16:45	26	09:03 (29)	15:56
5	04:47		05:25 (21)	05:38	06:42			07:44		08:20 (28)	07:52		08:39 (29)	08:53
	22:30	16	05:41 (21)	21:41	20:23			19:01	11	08:31 (28)	16:43	23	09:02 (29)	15:55
6	04:48		05:26 (21)	05:40	06:44			07:46			07:54		08:40 (29)	08:55
	22:29	15	05:41 (21)	21:39	20:20			18:58			16:41	20	09:00 (29)	15:55
7	04:49		05:27 (21)	05:42	06:46			07:48			07:56		08:42 (29)	08:56
	22:28	14	05:41 (21)	21:36	20:17			18:55			16:39	17	08:59 (29)	15:54
8	04:50		05:28 (21)	05:44	06:48			07:51			07:59		08:45 (29)	08:58
	22:27	12	05:40 (21)	21:34	20:15			18:52			16:36	10	08:55 (29)	15:53
9	04:51		05:29 (21)	05:46	06:50			07:53		08:59 (30)	08:01			08:59
	22:26	11	05:40 (21)	21:32	20:12			18:50	9	09:08 (30)	16:34			15:53
10	04:53		05:31 (21)	05:49	06:53			07:55		08:56 (30)	08:03			09:01
	22:25	9	05:40 (21)	21:29	20:09			18:47	15	09:11 (30)	16:32			15:52
11	04:54		05:32 (21)	05:51	06:55			07:57		08:55 (30)	08:05			09:02
	22:24	7	05:39 (21)	21:27	20:06			18:44	18	09:13 (30)	16:30			15:52
12	04:55		05:33 (21)	05:53	06:57			07:59		08:53 (30)	08:08			09:03
	22:23	4	05:37 (21)	21:25	20:04			18:42	20	09:13 (30)	16:28			15:52
13	04:57			05:55	06:59			08:01		08:52 (30)	08:10			09:04
	22:22			21:22	20:01			18:39	22	09:14 (30)	16:26			15:52
14	04:58			05:57	07:01			08:03		08:51 (30)	08:12			09:05
	22:21			21:20	19:58			18:37	25	09:53 (29)	16:24			15:51
15	05:00			05:59	07:03			08:05		08:51 (30)	08:14			09:07
	22:19			21:17	19:55			18:34	39	10:00 (29)	16:23			15:51
16	05:01			06:01	07:05		08:27 (28)	08:08		08:50 (30)	08:16			09:07
	22:18			21:15	19:53	11	08:38 (28)	18:31	44	10:02 (29)	16:21			15:51
17	05:03			06:03	07:07		08:24 (28)	08:10		08:50 (30)	08:18			09:08
	22:16			21:13	19:50	17	08:41 (28)	18:29	48	10:03 (29)	16:19			15:51
18	05:05			06:05	07:09		08:21 (28)	08:12		08:49 (30)	08:21			09:09
	22:15			21:10	19:47	22	08:43 (28)	18:26	50	10:04 (29)	16:17			15:52
19	05:06			06:07	07:11		08:19 (28)	08:14		08:50 (30)	08:23			09:10
	22:13			21:07	19:44	25	08:44 (28)	18:24	52	10:06 (29)	16:16			15:52
20	05:08			06:09	07:13		08:18 (28)	08:16		08:50 (30)	08:25			09:11
	22:12			21:05	19:42	27	08:45 (28)	18:21	52	10:06 (29)	16:14			15:52
21	05:10			06:11	07:15		08:17 (28)	08:19		08:51 (30)	08:27			09:11
	22:10			21:02	19:39	28	08:45 (28)	18:18	53	10:07 (29)	16:12			15:52
22	05:11			06:13	07:17		08:16 (28)	08:21		08:52 (30)	08:29			09:12
	22:09			21:00	19:36	29	08:45 (28)	18:16	52	10:08 (29)	16:11			15:53
23	05:13			06:15	07:19		08:15 (28)	08:23		08:54 (30)	08:31			09:12
	22:07			20:57	19:33	30	08:45 (28)	18:13	49	10:08 (29)	16:09			15:53
24	05:15			06:17	07:21		08:14 (28)	08:25		08:57 (30)	08:33			09:13
	22:05			20:55	19:31	31	08:45 (28)	18:11	44	10:09 (29)	16:08			15:54
25	05:17			06:20	07:23		08:13 (28)	07:27		08:33 (29)	08:35			09:13
	22:03			20:52	19:28	32	08:45 (28)	17:09	35	09:08 (29)	16:06			15:55
26	05:19			06:22	07:25		08:13 (28)	07:30		08:32 (29)	08:37			09:13
	22:01			20:49	19:25	32	08:45 (28)	17:06	36	09:08 (29)	16:05			15:55
27	05:21			06:24	07:27		08:13 (28)	07:32		08:33 (29)	08:39			09:14
	21:59			20:47	19:22	31	08:44 (28)	17:04	35	09:08 (29)	16:04			15:56
28	05:23			06:26	07:30		08:13 (28)	07:34		08:33 (29)	08:41			09:14
	21:58			20:44	19:20	30	08:43 (28)	17:01	35	09:08 (29)	16:02			15:57
29	05:24			06:28	07:32		08:14 (28)	07:36		08:33 (29)	08:43			09:14
	21:56			20:42	19:17	29	08:43 (28)	16:59	35	09:08 (29)	16:01			15:58
30	05:26			06:30	07:34		08:14 (28)	07:39		08:33 (29)	08:45			09:14
	21:54			20:39	19:14	28	08:42 (28)	16:57	34	09:07 (29)	16:00			15:59
31	05:28			06:32				07:41		08:34 (29)				09:14
	21:52			20:36				16:54	33	09:07 (29)				16:00
Potential sun hours	534			472	385			322			244			212
Total, worst case		164				402			935			186		
Sun reduction		0.60				0.50			0.42			0.23		
Oper. time red.		0.94				0.94			0.94			0.94		
Wind dir. red.		0.68				0.60			0.59			0.58		
Total reduction		0.38				0.28			0.23			0.13		
Total, real		63				112			219			23		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: Q - Bitnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:29	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:58	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:46	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:28	04:41	04:53	05:49	06:52	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:30	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:10
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:33	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:08	15:54
25	08:48	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:22	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:32	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:13
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	533	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: R - Bolderkrogs

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		13:49 (36)	08:35		15:36 (35)	07:30	07:05	05:47	04:48
	16:01	23	14:12 (36)	17:00	27	16:03 (35)	18:04	20:11	21:16	22:15
2	09:13		13:50 (36)	08:33		15:36 (35)	07:27	07:03	05:45	04:47
	16:02	23	14:13 (36)	17:02	27	16:03 (35)	18:06	20:14	21:18	22:17
3	09:13		13:50 (36)	08:31		15:37 (35)	07:24	07:00	05:42	04:46
	16:03	23	14:13 (36)	17:04	27	16:04 (35)	18:08	20:16	21:20	22:18
4	09:12		13:52 (36)	08:29		15:36 (35)	07:22	06:57	05:40	04:45
	16:05	22	14:14 (36)	17:07	27	16:03 (35)	18:11	20:18	21:22	22:20
5	09:12		13:53 (36)	08:27		15:37 (35)	07:19	06:55	05:38	04:44
	16:06	20	14:13 (36)	17:09	26	16:03 (35)	18:13	20:20	21:25	22:21
6	09:11		13:53 (36)	08:25		15:39 (35)	07:16	06:52	05:35	04:43
	16:08	20	14:13 (36)	17:11	24	16:03 (35)	18:15	20:22	21:27	22:22
7	09:11		13:54 (36)	08:23		15:39 (35)	07:14	06:49	05:33	04:42
	16:09	19	14:13 (36)	17:14	22	16:01 (35)	18:17	20:24	21:29	22:23
8	09:10		13:55 (36)	08:21		15:40 (35)	07:11	06:46	05:31	04:41
	16:11	18	14:13 (36)	17:16	21	16:01 (35)	18:20	20:27	21:31	22:24
9	09:09		13:57 (36)	08:19		15:41 (35)	07:08	06:44	05:29	04:41
	16:12	16	14:13 (36)	17:18	18	15:59 (35)	18:22	20:29	21:33	22:26
10	09:08		13:58 (36)	08:16		15:44 (35)	07:06	06:41	05:27	04:40
	16:14	14	14:12 (36)	17:20	14	15:58 (35)	18:24	20:31	21:35	22:27
11	09:07		13:59 (36)	08:14		15:47 (35)	07:03	06:38	05:24	04:39
	16:16	12	14:11 (36)	17:23	7	15:54 (35)	18:26	20:33	21:37	22:28
12	09:06		14:02 (36)	08:12			07:00	06:36	05:22	04:39
	16:18	7	14:09 (36)	17:25			18:28	20:35	21:39	22:28
13	09:05			08:09			06:58	06:33	05:20	04:38
	16:19			17:27			18:31	20:37	21:41	22:29
14	09:04			08:07			06:55	06:30	05:18	04:38
	16:21			17:30			18:33	20:39	21:43	22:30
15	09:03			08:05			06:52	06:28	05:16	04:38
	16:23			17:32			18:35	20:42	21:45	22:31
16	09:02			08:02			06:49	06:25	05:14	04:37
	16:25			17:34			18:37	20:44	21:47	22:31
17	09:01			08:00			06:47	06:22	05:12	04:37
	16:27			17:37			18:39	20:46	21:49	22:32
18	08:59			07:57			06:44	06:20	05:10	04:37
	16:29			17:39			18:41	20:48	21:51	22:32
19	08:58		15:43 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	6	15:49 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:41 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	12	15:53 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:40 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	15	15:55 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		15:38 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	18	15:56 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		15:38 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	19	15:57 (35)	17:50			18:52	20:59	22:00	22:34
24	08:50		15:37 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	21	15:58 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:36 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	23	15:59 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:36 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	24	16:00 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:36 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	25	16:01 (35)	17:59			19:01	21:07	22:07	22:34
28	08:43		15:36 (35)	07:32			06:16	05:54	04:54	04:40
	16:51	26	16:02 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:36 (35)				07:14	05:52	04:52	04:40
	16:53	26	16:02 (35)				20:05	21:12	22:11	22:33
30	08:39		15:36 (35)				07:11	05:50	04:51	04:41
	16:55	27	16:03 (35)				20:07	21:14	22:12	22:33
31	08:37		15:35 (35)				07:08		04:50	
	16:57	28	16:03 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		487			240					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.67			0.67					
Total reduction		0.17			0.21					
Total, real		85			51					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: R - Bolderkrogs

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		15:13 (35)	08:46		13:41 (36)
	22:32	21:49	20:33	19:11			16:51	14	15:27 (35)	15:58	12	13:53 (36)
2	04:43	05:31	06:35	07:37			07:45		15:11 (35)	08:48		13:40 (36)
	22:32	21:47	20:30	19:08			16:49	18	15:29 (35)	15:57	14	13:54 (36)
3	04:44	05:33	06:37	07:39			07:47		15:10 (35)	08:50		13:40 (36)
	22:31	21:45	20:28	19:05			16:47	21	15:31 (35)	15:56	16	13:56 (36)
4	04:45	05:35	06:40	07:42			07:49		15:08 (35)	08:51		13:40 (36)
	22:31	21:43	20:25	19:03			16:44	23	15:31 (35)	15:55	17	13:57 (36)
5	04:46	05:37	06:42	07:44			07:52		15:08 (35)	08:53		13:39 (36)
	22:30	21:41	20:22	19:00			16:42	24	15:32 (35)	15:55	19	13:58 (36)
6	04:47	05:39	06:44	07:46			07:54		15:07 (35)	08:55		13:39 (36)
	22:29	21:38	20:20	18:57			16:40	25	15:32 (35)	15:54	20	13:59 (36)
7	04:48	05:42	06:46	07:48			07:56		15:07 (35)	08:56		13:40 (36)
	22:28	21:36	20:17	18:54			16:38	26	15:33 (35)	15:53	21	14:01 (36)
8	04:49	05:44	06:48	07:50			07:58		15:06 (35)	08:58		13:39 (36)
	22:27	21:34	20:14	18:52			16:36	27	15:33 (35)	15:52	22	14:01 (36)
9	04:50	05:46	06:50	07:52			08:01		15:07 (35)	08:59		13:40 (36)
	22:26	21:31	20:11	18:49			16:34	27	15:34 (35)	15:52	22	14:02 (36)
10	04:52	05:48	06:52	07:54			08:03		15:06 (35)	09:00		13:39 (36)
	22:25	21:29	20:09	18:46			16:31	28	15:34 (35)	15:52	23	14:02 (36)
11	04:53	05:50	06:54	07:56			08:05		15:07 (35)	09:02		13:40 (36)
	22:24	21:27	20:06	18:44			16:29	27	15:34 (35)	15:51	23	14:03 (36)
12	04:54	05:52	06:56	07:59			08:07		15:07 (35)	09:03		13:40 (36)
	22:23	21:24	20:03	18:41			16:27	27	15:34 (35)	15:51	24	14:04 (36)
13	04:56	05:54	06:58	08:01			08:09		15:08 (35)	09:04		13:40 (36)
	22:22	21:22	20:00	18:38			16:26	26	15:34 (35)	15:51	24	14:04 (36)
14	04:57	05:56	07:00	08:03			08:12		15:08 (35)	09:05		13:41 (36)
	22:21	21:20	19:58	18:36			16:24	26	15:34 (35)	15:50	24	14:05 (36)
15	04:59	05:58	07:02	08:05			08:14		15:09 (35)	09:06		13:41 (36)
	22:19	21:17	19:55	18:33			16:22	25	15:34 (35)	15:50	25	14:06 (36)
16	05:00	06:00	07:04	08:07			08:16		15:09 (35)	09:07		13:41 (36)
	22:18	21:15	19:52	18:31			16:20	24	15:33 (35)	15:50	25	14:06 (36)
17	05:02	06:02	07:06	08:09			08:18		15:10 (35)	09:08		13:42 (36)
	22:16	21:12	19:49	18:28			16:18	23	15:33 (35)	15:50	25	14:07 (36)
18	05:04	06:04	07:08	08:12			08:20		15:11 (35)	09:09		13:41 (36)
	22:15	21:10	19:47	18:25			16:16	21	15:32 (35)	15:51	26	14:07 (36)
19	05:05	06:06	07:10	08:14			08:23		15:12 (35)	09:10		13:42 (36)
	22:13	21:07	19:44	18:23			16:15	19	15:31 (35)	15:51	25	14:07 (36)
20	05:07	06:08	07:12	08:16			08:25		15:13 (35)	09:11		13:43 (36)
	22:12	21:05	19:41	18:20			16:13	18	15:31 (35)	15:51	25	14:08 (36)
21	05:09	06:10	07:14	08:18			08:27		15:15 (35)	09:11		13:43 (36)
	22:10	21:02	19:38	18:18			16:11	15	15:30 (35)	15:51	25	14:08 (36)
22	05:11	06:13	07:17	08:20			08:29		15:17 (35)	09:12		13:44 (36)
	22:08	20:59	19:36	18:15			16:10	12	15:29 (35)	15:52	25	14:09 (36)
23	05:12	06:15	07:19	08:23			08:31		15:20 (35)	09:12		13:44 (36)
	22:07	20:57	19:33	18:13			16:08	6	15:26 (35)	15:52	25	14:09 (36)
24	05:14	06:17	07:21	08:25			08:33			09:13		13:45 (36)
	22:05	20:54	19:30	18:10			16:07			15:53	25	14:10 (36)
25	05:16	06:19	07:23	07:27			08:35			09:13		13:45 (36)
	22:03	20:52	19:27	17:08			16:05			15:54	25	14:10 (36)
26	05:18	06:21	07:25	07:29			08:37			09:13		13:46 (36)
	22:01	20:49	19:25	17:05			16:04			15:54	25	14:11 (36)
27	05:20	06:23	07:27	07:31			08:39			09:14		13:46 (36)
	21:59	20:46	19:22	17:03			16:03			15:55	25	14:11 (36)
28	05:22	06:25	07:29	07:34			08:41			09:14		13:47 (36)
	21:57	20:44	19:19	17:01			16:02			15:56	25	14:12 (36)
29	05:24	06:27	07:31	07:36			08:43			09:14		13:48 (36)
	21:55	20:41	19:16	16:58			16:00			15:57	24	14:12 (36)
30	05:25	06:29	07:33	07:38			08:44		13:43 (36)	09:14		13:47 (36)
	21:53	20:38	19:14	16:56			15:59	7	13:50 (36)	15:58	25	14:12 (36)
31	05:27	06:31		07:40		15:15 (35)				09:14		13:48 (36)
	21:51	20:36		16:53	9	15:24 (35)				15:59	24	14:12 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					9			509			705	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.67			0.67			0.67	
Total reduction					0.27			0.15			0.14	
Total, real					2			74			101	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: S - Brenci

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:28	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:56
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:53	16:36	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:51	05:47	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:53
11	09:08	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:34	21:37	22:28	22:24	21:27	20:06	18:45	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:24	15:51
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:51	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:04	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: T - Brie ž kalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:08	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:43	04:50	05:45	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:52	05:47	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:39	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:10	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:27	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	533	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: U - Brivzemnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:45	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:52	05:47	06:50	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:27	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	533	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: V - Bruži

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		13:28 (7)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43			08:47		14:12 (1)
	16:01	41	14:55 (1)	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51			15:58	31	14:43 (1)
2	09:13		13:29 (7)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		14:13 (1)
	16:02	40	14:56 (1)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	31	14:44 (1)
3	09:13		13:31 (7)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		14:13 (1)
	16:04	38	14:57 (1)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:56	31	14:44 (1)
4	09:13		13:33 (7)	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		14:14 (1)
	16:05	34	14:57 (1)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45			15:56	30	14:44 (1)
5	09:12		14:28 (1)	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		14:14 (1)
	16:06	30	14:58 (1)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42			15:55	30	14:44 (1)
6	09:12		14:28 (1)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:14 (1)
	16:08	30	14:58 (1)	17:11	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:57	16:40			15:54	30	14:44 (1)
7	09:11		14:28 (1)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:57		14:15 (1)
	16:09	31	14:59 (1)	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38			15:53	30	14:45 (1)
8	09:10		14:29 (1)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		13:22 (7)
	16:11	30	14:59 (1)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	33	14:45 (1)
9	09:09		14:29 (1)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01			08:59		13:20 (7)
	16:13	31	15:00 (1)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	37	14:45 (1)
10	09:09		14:30 (1)	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		13:19 (7)
	16:14	31	15:01 (1)	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32			15:52	40	14:46 (1)
11	09:08		14:30 (1)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		13:19 (7)
	16:16	31	15:01 (1)	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30			15:51	40	14:45 (1)
12	09:07		14:30 (1)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:03		13:18 (7)
	16:18	31	15:01 (1)	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	41	14:45 (1)
13	09:06		14:30 (1)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10		14:17 (1)	09:05		13:19 (7)
	16:20	32	15:02 (1)	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	12	14:29 (1)	15:51	41	14:46 (1)
14	09:05		14:31 (1)	08:07	06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03	08:12		14:16 (1)	09:06		13:18 (7)
	16:22	32	15:03 (1)	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	16	14:32 (1)	15:51	43	14:46 (1)
15	09:03		14:31 (1)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14		14:14 (1)	09:07		13:18 (7)
	16:23	31	15:02 (1)	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22	19	14:33 (1)	15:51	44	14:47 (1)
16	09:02		14:32 (1)	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:08	08:16		14:12 (1)	09:08		13:19 (7)
	16:25	31	15:03 (1)	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	22	14:34 (1)	15:51	43	14:47 (1)
17	09:01		14:32 (1)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19		14:12 (1)	09:09		13:19 (7)
	16:27	31	15:03 (1)	17:37	18:40	20:46	21:50	22:32	22:17	21:12	19:50	18:28	16:18	24	14:36 (1)	15:51	43	14:47 (1)
18	09:00		14:32 (1)	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21		14:11 (1)	09:09		13:19 (7)
	16:29	31	15:03 (1)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	25	14:36 (1)	15:51	44	14:48 (1)
19	08:58		14:34 (1)	07:55	06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23		14:11 (1)	09:10		13:20 (7)
	16:31	30	15:04 (1)	17:42	18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15	27	14:38 (1)	15:51	43	14:48 (1)
20	08:57		14:34 (1)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		14:10 (1)	09:11		13:20 (7)
	16:34	30	15:04 (1)	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	28	14:38 (1)	15:51	44	14:48 (1)
21	08:55		14:34 (1)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		14:11 (1)	09:12		13:20 (7)
	16:36	29	15:03 (1)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	28	14:39 (1)	15:52	45	14:49 (1)
22	08:54		14:35 (1)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29		14:10 (1)	09:12		13:20 (7)
	16:38	28	15:03 (1)	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	30	14:40 (1)	15:52	44	14:49 (1)
23	08:52		14:36 (1)	07:45	06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31		14:10 (1)	09:13		13:21 (7)
	16:40	27	15:03 (1)	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	30	14:40 (1)	15:53	45	14:50 (1)
24	08:50		14:37 (1)	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:10 (1)	09:13		13:22 (7)
	16:42	25	15:02 (1)	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	31	14:41 (1)	15:53	44	14:50 (1)
25	08:49		14:38 (1)	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:10 (1)	09:13		13:22 (7)
	16:44	24	15:02 (1)	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	31	14:41 (1)	15:54	44	14:51 (1)
26	08:47		14:39 (1)	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37		14:10 (1)	09:14		13:23 (7)
	16:46	22	15:01 (1)	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	31	14:41 (1)	15:55	43	14:51 (1)
27	08:45		14:41 (1)	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		14:10 (1)	09:14		13:23 (7)
	16:49	19	15:00 (1)	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	32	14:42 (1)	15:55	44	14:52 (1)
28	08:43		14:43 (1)	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:10 (1)	09:14		13:24 (7)
	16:51	16	14:59 (1)	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	32	14:42 (1)	15:56	43	14:52 (1)
29	08:42		14:46 (1)		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43		14:12 (1)	09:14		13:25 (7)
	16:53	11	14:57 (1)		20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:58	16:01	31	14:43 (1)	15:57	43	14:53 (1)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:12 (1)	09:14		13:26 (7)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	31	14:43 (1)	15:58	42	14:54 (1)
31	08:38				07:09		04:50		05:28	06:32		07:41				09:14		13:26 (7)
	16:58				20:10		22:14		21:52	20:36		16:54				15:59	42	14:54 (1)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		847												480			1228	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.68	
Total reduction		0.18												0.15			0.14	
Total, real		150												71			177	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: W - Bruveri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: X - Burtnieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:43	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49	15:57
3	09:13	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:50
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46	15:56
4	09:12	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42	15:54
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56
	16:09	17:13	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:10	08:21	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58	08:58
	16:11	17:16	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:52
9	09:09	08:18	07:08	06:44	05:29	04:40	04:50	05:46	06:50	07:52	08:00	08:59
	16:12	17:18	18:22	20:29	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:00
	16:14	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:46	16:31	15:51
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29	15:51
12	09:06	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09	09:04
	16:19	17:27	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25	15:50
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05
	16:21	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:58	18:36	16:23	15:50
15	09:03	08:05	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14	09:06
	16:23	17:32	18:35	20:41	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:50
17	09:00	08:00	06:47	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:15	21:10	19:46	18:25	16:16	15:50
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22	09:10
	16:31	17:41	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25	09:11
	16:33	17:43	18:46	20:52	21:55	22:33	22:12	21:04	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27	09:11
	16:35	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	15:51
22	08:53	07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29	09:12
	16:37	17:48	18:50	20:57	21:59	22:34	22:08	20:59	19:35	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:22	08:31	09:12
	16:40	17:50	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54
26	08:47	07:37	06:22	05:59	04:56	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	15:54
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39	09:13
	16:48	17:59	19:01	21:07	22:07	22:34	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	15:56
29	08:41		07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:14
	16:55		20:07	21:14	22:12	22:33	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:49		05:27	06:31		07:40		09:13
	16:57		20:09		22:14		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: Y - Budini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:51	15:58
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:06	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:42	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:05	08:14	09:07
	16:24	17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:25	05:15	04:38	05:01	06:00	07:05	08:08	08:17	09:08
	16:26	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: Z - Bukas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:02	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:11
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:13	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:28	08:35	09:14
	16:45	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AA - Buras

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:14		11:54 (10)	08:36		14:22 (9)	07:30		17:25 (7)	07:06		19:03 (1)	05:47	04:49
	16:01	48	14:44 (9)	17:00	63	16:17 (8)	18:04	7	17:32 (7)	20:12	20	19:23 (1)	21:16	22:16
2	09:13		11:54 (10)	08:34		14:23 (9)	07:27		17:21 (7)	07:03		19:05 (1)	05:45	04:47
	16:02	49	14:44 (9)	17:02	64	16:19 (8)	18:06	14	17:35 (7)	20:14	17	19:22 (1)	21:18	22:17
3	09:13		11:55 (10)	08:32		14:24 (9)	07:25		17:18 (7)	07:00		19:06 (1)	05:43	04:46
	16:04	51	14:46 (9)	17:05	65	16:20 (8)	18:09	18	17:36 (7)	20:16	14	19:20 (1)	21:20	22:18
4	09:12		11:56 (10)	08:30		14:24 (9)	07:22		17:16 (7)	06:58		19:08 (1)	05:40	04:45
	16:05	50	14:47 (9)	17:07	66	16:21 (8)	18:11	21	17:37 (7)	20:18	9	19:17 (1)	21:23	22:20
5	09:12		11:56 (10)	08:27		14:25 (9)	07:19		17:16 (7)	06:55			05:38	04:44
	16:06	52	14:48 (9)	17:09	67	16:22 (8)	18:13	23	17:39 (7)	20:20			21:25	22:21
6	09:11		11:57 (10)	08:25		14:26 (9)	07:17		17:15 (7)	06:52			05:36	04:43
	16:08	52	14:49 (9)	17:11	66	16:23 (8)	18:15	24	17:39 (7)	20:22			21:27	22:22
7	09:11		11:58 (10)	08:23		14:27 (9)	07:14		17:14 (7)	06:49			05:33	04:42
	16:09	52	14:50 (9)	17:14	65	16:23 (8)	18:18	25	17:39 (7)	20:25			21:29	22:24
8	09:10		11:59 (10)	08:21		14:28 (9)	07:11		17:13 (7)	06:47			05:31	04:42
	16:11	53	14:51 (9)	17:16	62	16:23 (8)	18:20	26	17:39 (7)	20:27			21:31	22:25
9	09:09		12:00 (10)	08:19		14:30 (9)	07:09		17:13 (7)	06:44			05:29	04:41
	16:13	54	14:53 (9)	17:18	61	16:24 (8)	18:22	27	17:40 (7)	20:29			21:33	22:26
10	09:08		12:01 (10)	08:16		14:31 (9)	07:06		17:13 (7)	06:41			05:27	04:40
	16:14	54	14:54 (9)	17:21	59	16:24 (8)	18:24	26	17:39 (7)	20:31			21:35	22:27
11	09:08		12:03 (10)	08:14		14:34 (9)	07:03		17:12 (7)	06:39			05:25	04:39
	16:16	52	14:55 (9)	17:23	54	16:24 (8)	18:26	27	17:39 (7)	20:33			21:37	22:28
12	09:07		12:03 (10)	08:12		14:36 (9)	07:00		17:12 (7)	06:36			05:23	04:39
	16:18	52	14:55 (9)	17:25	48	16:23 (8)	18:29	26	17:38 (7)	20:35			21:39	22:29
13	09:05		12:06 (10)	08:10		14:40 (9)	06:58		17:14 (7)	06:33			05:20	04:38
	16:20	50	14:57 (9)	17:28	41	16:24 (8)	18:31	23	17:37 (7)	20:37			21:41	22:29
14	09:04		12:07 (10)	08:07		15:56 (8)	06:55		17:14 (7)	06:31			05:18	04:38
	16:22	47	14:57 (9)	17:30	27	16:23 (8)	18:33	22	17:36 (7)	20:40			21:43	22:30
15	09:03		12:11 (10)	08:05		15:57 (8)	06:52		17:15 (7)	06:28			05:16	04:38
	16:23	42	14:58 (9)	17:32	25	16:22 (8)	18:35	19	17:34 (7)	20:42			21:45	22:31
16	09:02		14:20 (9)	08:02		15:57 (8)	06:50		17:16 (7)	06:25			05:14	04:37
	16:25	39	14:59 (9)	17:35	24	16:21 (8)	18:37	16	17:32 (7)	20:44			21:47	22:32
17	09:01		14:21 (9)	08:00		15:58 (8)	06:47		17:19 (7)	06:23			05:12	04:37
	16:27	39	15:00 (9)	17:37	21	16:19 (8)	18:39	11	17:30 (7)	20:46			21:49	22:32
18	08:59		14:20 (9)	07:58		16:00 (8)	06:44			06:20			05:11	04:37
	16:29	41	15:01 (9)	17:39	18	16:18 (8)	18:42			20:48			21:51	22:33
19	08:58		14:20 (9)	07:55		16:02 (8)	06:41			06:17			05:09	04:37
	16:31	41	15:01 (9)	17:41	14	16:16 (8)	18:44			20:50			21:53	22:33
20	08:57		14:21 (9)	07:53		16:07 (8)	06:39			06:15			05:07	04:37
	16:34	41	15:02 (9)	17:44	5	16:12 (8)	18:46			20:53			21:55	22:33
21	08:55		14:21 (9)	07:50			06:36		18:14 (1)	06:12			05:05	04:37
	16:36	42	15:03 (9)	17:46			18:48	6	18:20 (1)	20:55			21:57	22:34
22	08:54		14:21 (9)	07:48			06:33		18:10 (1)	06:10			05:03	04:37
	16:38	42	15:03 (9)	17:48			18:50	12	18:22 (1)	20:57			21:59	22:34
23	08:52		14:20 (9)	07:45			06:30		18:08 (1)	06:07			05:02	04:38
	16:40	44	15:04 (9)	17:51			18:52	16	18:24 (1)	20:59			22:01	22:34
24	08:50		14:20 (9)	07:43			06:28		18:06 (1)	06:05			05:00	04:38
	16:42	44	15:04 (9)	17:53			18:55	20	18:26 (1)	21:01			22:02	22:34
25	08:49		14:21 (9)	07:40			06:25		18:05 (1)	06:02			04:58	04:38
	16:44	44	15:05 (9)	17:55			18:57	21	18:26 (1)	21:03			22:04	22:34
26	08:47		14:21 (9)	07:38			06:22		18:05 (1)	06:00			04:57	04:39
	16:46	44	15:05 (9)	17:57			18:59	22	18:27 (1)	21:05			22:06	22:34
27	08:45		14:21 (9)	07:35			06:19		18:04 (1)	05:57			04:55	04:39
	16:49	44	15:05 (9)	18:00			19:01	23	18:27 (1)	21:08			22:08	22:34
28	08:43		14:21 (9)	07:32			06:17		18:03 (1)	05:55			04:54	04:40
	16:51	45	15:06 (9)	18:02			19:03	23	18:26 (1)	21:10			22:09	22:34
29	08:41		14:22 (9)				07:14		19:02 (1)	05:52			04:52	04:41
	16:53	44	15:06 (9)				20:05	24	19:26 (1)	21:12			22:11	22:33
30	08:40		14:22 (9)				07:11		19:03 (1)	05:50			04:51	04:41
	16:55	56	16:14 (8)				20:07	23	19:26 (1)	21:14			22:13	22:33
31	08:38		14:23 (9)				07:08		19:03 (1)				04:50	
	16:58	58	16:16 (8)				20:10	22	19:25 (1)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		1466			915			567			60			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.68			0.68			0.65			0.64			
Total reduction		0.17			0.21			0.28			0.33			
Total, real		256			195			159			20			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AA - Buras

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September			October			November			December		
1	04:42		05:30		06:34			07:35		17:53 (7)	07:43		14:00 (9)	08:46		11:45 (10)
	22:32		21:49		20:33			19:11	24	18:17 (7)	16:51	59	15:53 (8)	15:58	53	14:37 (9)
2	04:43		05:32		06:36			07:38		17:52 (7)	07:45		13:58 (9)	08:48		11:44 (10)
	22:32		21:47		20:31			19:08	25	18:17 (7)	16:49	62	15:53 (8)	15:57	54	14:37 (9)
3	04:44		05:34		06:38			07:40		17:51 (7)	07:47		13:58 (9)	08:50		11:43 (10)
	22:31		21:45		20:28			19:06	26	18:17 (7)	16:47	63	15:53 (8)	15:56	54	14:36 (9)
4	04:45		05:36		06:40			07:42		17:50 (7)	07:50		13:56 (9)	08:52		11:43 (10)
	22:31		21:43		20:25			19:03	27	18:17 (7)	16:45	65	15:52 (8)	15:56	54	14:36 (9)
5	04:46		05:38		06:42			07:44		17:50 (7)	07:52		13:56 (9)	08:53		11:43 (10)
	22:30		21:41		20:23			19:00	26	18:16 (7)	16:42	65	15:52 (8)	15:55	52	14:35 (9)
6	04:47		05:40		06:44			07:46		17:50 (7)	07:54		13:55 (9)	08:55		11:43 (10)
	22:29		21:39		20:20			18:57	26	18:16 (7)	16:40	65	15:51 (8)	15:54	52	14:35 (9)
7	04:48		05:42		06:46			07:48		17:50 (7)	07:56		13:55 (9)	08:56		11:43 (10)
	22:28		21:36		20:17			18:55	25	18:15 (7)	16:38	65	15:51 (8)	15:53	52	14:35 (9)
8	04:49		05:44		06:48		19:03 (1)	07:50		17:51 (7)	07:59		13:54 (9)	08:58		11:43 (10)
	22:27		21:34		20:14	9	19:12 (1)	18:52	24	18:15 (7)	16:36	65	15:50 (8)	15:53	51	14:34 (9)
9	04:51		05:46		06:50		19:00 (1)	07:52		17:51 (7)	08:01		13:54 (9)	08:59		11:43 (10)
	22:27		21:32		20:12	14	19:14 (1)	18:49	22	18:13 (7)	16:34	64	15:50 (8)	15:52	51	14:34 (9)
10	04:52		05:48		06:52		18:58 (1)	07:54		17:52 (7)	08:03		13:53 (9)	09:01		11:43 (10)
	22:25		21:29		20:09	18	19:16 (1)	18:47	20	18:12 (7)	16:32	62	15:48 (8)	15:52	50	14:34 (9)
11	04:53		05:50		06:54		18:57 (1)	07:57		17:53 (7)	08:05		13:54 (9)	09:02		11:44 (10)
	22:24		21:27		20:06	19	19:16 (1)	18:44	16	18:09 (7)	16:30	58	15:47 (8)	15:51	48	14:34 (9)
12	04:55		05:52		06:56		18:56 (1)	07:59		17:56 (7)	08:07		13:53 (9)	09:03		11:44 (10)
	22:23		21:25		20:03	21	19:17 (1)	18:41	11	18:07 (7)	16:28	55	15:44 (8)	15:51	46	14:33 (9)
13	04:56		05:54		06:58		18:55 (1)	08:01			08:10		13:54 (9)	09:04		11:44 (10)
	22:22		21:22		20:01	22	19:17 (1)	18:39			16:26	44	14:38 (9)	15:51	45	14:32 (9)
14	04:58		05:56		07:00		18:54 (1)	08:03			08:12		13:53 (9)	09:06		11:45 (10)
	22:21		21:20		19:58	23	19:17 (1)	18:36			16:24	45	14:38 (9)	15:51	44	14:33 (9)
15	04:59		05:58		07:02		18:53 (1)	08:05			08:14		13:54 (9)	09:07		11:45 (10)
	22:19		21:17		19:55	24	19:17 (1)	18:33			16:22	44	14:38 (9)	15:51	44	14:33 (9)
16	05:01		06:00		07:04		18:53 (1)	08:07			08:16		13:54 (9)	09:08		11:45 (10)
	22:18		21:15		19:52	23	19:16 (1)	18:31			16:20	44	14:38 (9)	15:51	42	14:32 (9)
17	05:02		06:02		07:06		18:53 (1)	08:10			08:18		13:55 (9)	09:08		11:46 (10)
	22:17		21:12		19:50	22	19:15 (1)	18:28			16:18	44	14:39 (9)	15:51	41	14:32 (9)
18	05:04		06:04		07:09		18:53 (1)	08:12			08:21		13:54 (9)	09:09		11:46 (10)
	22:15		21:10		19:47	22	19:15 (1)	18:26			16:17	44	14:38 (9)	15:51	39	14:32 (9)
19	05:06		06:07		07:11		18:54 (1)	08:14			08:23		13:55 (9)	09:10		11:46 (10)
	22:13		21:07		19:44	19	19:13 (1)	18:23			16:15	44	14:39 (9)	15:51	38	14:31 (9)
20	05:07		06:09		07:13		18:54 (1)	08:16			08:25		13:56 (9)	09:11		11:47 (10)
	22:12		21:05		19:41	17	19:11 (1)	18:21			16:13	42	14:38 (9)	15:51	37	14:31 (9)
21	05:09		06:11		07:15		18:55 (1)	08:18			08:27		13:56 (9)	09:11		11:47 (10)
	22:10		21:02		19:39	13	19:08 (1)	18:18			16:12	42	14:38 (9)	15:52	38	14:32 (9)
22	05:11		06:13		07:17		18:58 (1)	08:21		16:36 (8)	08:29		13:57 (9)	09:12		11:47 (10)
	22:09		21:00		19:36	7	19:05 (1)	18:15	8	16:44 (8)	16:10	42	14:39 (9)	15:52	38	14:32 (9)
23	05:13		06:15		07:19			08:23		16:32 (8)	08:31		13:57 (9)	09:13		11:48 (10)
	22:07		20:57		19:33			18:13	15	16:47 (8)	16:08	41	14:38 (9)	15:53	37	14:32 (9)
24	05:14		06:17		07:21			08:25		16:29 (8)	08:33		13:58 (9)	09:13		11:49 (10)
	22:05		20:55		19:30			18:10	19	16:48 (8)	16:07	40	14:38 (9)	15:53	38	14:34 (9)
25	05:16		06:19		07:23			07:27		15:28 (8)	08:35		13:59 (9)	09:13		11:49 (10)
	22:03		20:52		19:27			17:08	22	15:50 (8)	16:06	39	14:38 (9)	15:54	39	14:35 (9)
26	05:18		06:21		07:25		18:03 (7)	07:29		15:27 (8)	08:37		14:00 (9)	09:14		11:49 (10)
	22:01		20:49		19:25	7	18:10 (7)	17:06	24	15:51 (8)	16:04	38	14:38 (9)	15:55	42	14:36 (9)
27	05:20		06:23		07:27		17:59 (7)	07:32		15:26 (8)	08:39		11:51 (10)	09:14		11:50 (10)
	21:59		20:47		19:22	14	18:13 (7)	17:03	26	15:52 (8)	16:03	40	14:37 (9)	15:55	42	14:37 (9)
28	05:22		06:25		07:29		17:56 (7)	07:34		15:25 (8)	08:41		11:47 (10)	09:14		11:51 (10)
	21:58		20:44		19:19	19	18:15 (7)	17:01	27	15:52 (8)	16:02	47	14:37 (9)	15:56	42	14:38 (9)
29	05:24		06:27		07:31		17:54 (7)	07:36		14:08 (9)	08:43		11:46 (10)	09:14		11:51 (10)
	21:56		20:41		19:16	22	18:16 (7)	16:58	43	15:53 (8)	16:01	49	14:37 (9)	15:57	44	14:39 (9)
30	05:26		06:29		07:33		17:53 (7)	07:38		14:05 (9)	08:45		11:46 (10)	09:14		11:52 (10)
	21:54		20:39		19:14	23	18:16 (7)	16:56	50	15:53 (8)	15:59	51	14:37 (9)	15:58	45	14:41 (9)
31	05:28		06:31					07:41		14:03 (9)				09:14		11:52 (10)
	21:51		20:36					16:54	55	15:54 (8)				15:59	46	14:41 (9)
Potential sun hours	534		472		385			322			244			211		
Total, worst case						358			561			1528			1398	
Sun reduction						0.50			0.42			0.23			0.23	
Oper. time red.						0.94			0.94			0.94			0.94	
Wind dir. red.						0.64			0.67			0.68			0.66	
Total reduction						0.30			0.27			0.15			0.14	
Total, real						108			149			225			195	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AB - Celaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May	June
1	09:14	08:36		07:30		07:06		07:48 (41)	05:48	04:49
	16:01	17:00		18:05		20:12	29	08:17 (41)	21:17	22:16
2	09:14	08:34		07:27		07:03		07:48 (41)	05:45	04:48
	16:03	17:03		18:07		20:14	29	08:17 (41)	21:19	22:17
3	09:13	08:32		07:25		07:01		07:48 (41)	05:43	04:47
	16:04	17:05		18:09		20:16	28	08:16 (41)	21:21	22:19
4	09:13	08:30		07:22		06:58		07:48 (41)	05:41	04:46
	16:05	17:07		18:11		20:18	28	08:16 (41)	21:23	22:20
5	09:12	08:28		07:20		06:55		07:48 (41)	05:38	04:45
	16:07	17:10		18:13		20:21	26	08:14 (41)	21:25	22:21
6	09:12	08:26		07:17		06:52		07:49 (41)	05:36	04:44
	16:08	17:12		18:16		20:23	24	08:13 (41)	21:27	22:23
7	09:11	08:23	08:58 (3)	07:14		06:50		07:50 (41)	05:34	04:43
	16:10	17:14	6 09:04 (3)	18:18		20:25	22	08:12 (41)	21:29	22:24
8	09:10	08:21	08:54 (3)	07:12		06:47		07:51 (41)	05:32	04:42
	16:11	17:16	13 09:07 (3)	18:20		20:27	19	08:10 (41)	21:31	22:25
9	09:10	08:19	08:52 (3)	07:09		06:44		07:53 (41)	05:29	04:41
	16:13	17:19	17 09:09 (3)	18:22		20:29	14	08:07 (41)	21:33	22:26
10	09:09	08:17	08:50 (3)	07:06		06:42		07:57 (41)	05:27	04:41
	16:15	17:21	20 09:10 (3)	18:25		20:31	6	08:03 (41)	21:36	22:27
11	09:08	08:15	08:50 (3)	07:03	07:30 (4)	06:39			05:25	04:40
	16:16	17:23	22 09:12 (3)	18:27	11 07:41 (4)	20:33			21:38	22:28
12	09:07	08:12	08:49 (3)	07:01	07:27 (4)	06:36		07:02 (2)	05:23	04:39
	16:18	17:26	23 09:12 (3)	18:29	16 07:43 (4)	20:36	6	07:08 (2)	21:40	22:29
13	09:06	08:10	08:48 (3)	06:58	07:25 (4)	06:34		07:00 (2)	05:21	04:39
	16:20	17:28	25 09:13 (3)	18:31	19 07:44 (4)	20:38	11	07:11 (2)	21:42	22:30
14	09:05	08:08	08:47 (3)	06:55	07:24 (4)	06:31		06:57 (42)	05:19	04:38
	16:22	17:30	26 09:13 (3)	18:33	20 07:44 (4)	20:40	14	07:11 (2)	21:44	22:30
15	09:04	08:05	08:48 (3)	06:53	07:22 (4)	06:28		06:55 (42)	05:17	04:38
	16:24	17:33	26 09:14 (3)	18:35	23 07:45 (4)	20:42	18	07:13 (2)	21:46	22:31
16	09:02	08:03	08:47 (3)	06:50	07:22 (4)	06:26		06:52 (42)	05:15	04:38
	16:26	17:35	27 09:14 (3)	18:38	24 07:46 (4)	20:44	21	07:13 (2)	21:48	22:32
17	09:01	08:00	08:48 (3)	06:47	07:22 (4)	06:23		06:50 (42)	05:13	04:38
	16:28	17:37	26 09:14 (3)	18:40	23 07:45 (4)	20:46	24	07:14 (2)	21:50	22:32
18	09:00	07:58	08:47 (3)	06:44	07:21 (4)	06:20		06:48 (42)	05:11	04:38
	16:30	17:40	27 09:14 (3)	18:42	24 07:45 (4)	20:49	25	07:13 (2)	21:52	22:33
19	08:58	07:55	08:48 (3)	06:42	07:21 (4)	06:18		06:48 (42)	05:09	04:38
	16:32	17:42	26 09:14 (3)	18:44	23 07:44 (4)	20:51	26	07:14 (2)	21:54	22:33
20	08:57	07:53	08:48 (3)	06:39	07:22 (4)	06:15		06:47 (42)	05:07	04:38
	16:34	17:44	25 09:13 (3)	18:46	22 07:44 (4)	20:53	26	07:13 (2)	21:55	22:34
21	08:55	07:51	08:48 (3)	06:36	07:22 (4)	06:13		06:47 (42)	05:05	04:38
	16:36	17:46	24 09:12 (3)	18:48	21 07:43 (4)	20:55	26	07:13 (2)	21:57	22:34
22	08:54	07:48	08:50 (3)	06:33	07:22 (4)	06:10		06:46 (42)	05:04	04:38
	16:38	17:49	22 09:12 (3)	18:51	19 07:41 (4)	20:57	25	07:11 (2)	21:59	22:34
23	08:52	07:46	08:51 (3)	06:31	07:00 (41)	06:08		06:46 (42)	05:02	04:38
	16:40	17:51	19 09:10 (3)	18:53	26 07:39 (4)	20:59	25	07:11 (2)	22:01	22:34
24	08:51	07:43	08:52 (3)	06:28	06:58 (41)	06:05		06:46 (42)	05:00	04:38
	16:42	17:53	15 09:07 (3)	18:55	29 07:38 (4)	21:01	23	07:09 (2)	22:03	22:34
25	08:49	07:40	08:55 (3)	06:25	06:55 (41)	06:03		06:47 (42)	04:59	04:39
	16:45	17:56	10 09:05 (3)	18:57	25 07:33 (4)	21:04	21	07:08 (42)	22:05	22:34
26	08:47	07:38		06:23	06:53 (41)	06:00		06:48 (42)	04:57	04:39
	16:47	17:58		18:59	23 07:16 (41)	21:06	19	07:07 (42)	22:06	22:34
27	08:45	07:35		06:20	06:51 (41)	05:58		06:48 (42)	04:56	04:40
	16:49	18:00		19:01	25 07:16 (41)	21:08	17	07:05 (42)	22:08	22:34
28	08:44	07:33		06:17	06:51 (41)	05:55		06:49 (42)	04:54	04:40
	16:51	18:02		19:03	27 07:18 (41)	21:10	15	07:04 (42)	22:10	22:34
29	08:42			07:14	07:50 (41)	05:53		06:51 (42)	04:53	04:41
	16:54			20:06	28 08:18 (41)	21:12	11	07:02 (42)	22:11	22:34
30	08:40			07:12	07:49 (41)	05:50		06:53 (42)	04:51	04:42
	16:56			20:08	28 08:17 (41)	21:14	5	06:58 (42)	22:13	22:33
31	08:38			07:09	07:48 (41)				04:50	
	16:58			20:10	29 08:17 (41)				22:14	
Potential sun hours	231	264		366		428			512	534
Total, worst case			399		485		583			
Sun reduction			0.33		0.46		0.55			
Oper. time red.			0.94		0.94		0.94			
Wind dir. red.			0.59		0.62		0.64			
Total reduction			0.19		0.27		0.33			
Total, real			74		129		190			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AB - Celaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August		September		October		November		December
1	04:43	05:30		06:34		07:36	08:06 (4)	07:43	08:20 (3)	08:47
	22:33	21:50		20:34		19:11	17 08:23 (4)	16:52	20 08:40 (3)	15:59
2	04:43	05:32		06:36	07:55 (41)	07:38	08:07 (4)	07:45	08:22 (3)	08:49
	22:32	21:48		20:31	6 08:01 (41)	19:09	13 08:20 (4)	16:49	17 08:39 (3)	15:58
3	04:44	05:34		06:38	07:51 (41)	07:40	08:10 (4)	07:48	08:24 (3)	08:50
	22:32	21:45		20:28	14 08:05 (41)	19:06	6 08:16 (4)	16:47	12 08:36 (3)	15:57
4	04:45	05:36		06:40	07:48 (41)	07:42		07:50	08:28 (3)	08:52
	22:31	21:43		20:26	19 08:07 (41)	19:03		16:45	5 08:33 (3)	15:56
5	04:46	05:38		06:42	07:46 (41)	07:44		07:52		08:54
	22:30	21:41		20:23	22 08:08 (41)	19:00		16:43		15:55
6	04:47	05:40		06:44	07:45 (41)	07:46		07:54		08:55
	22:30	21:39		20:20	24 08:09 (41)	18:58		16:41		15:54
7	04:49	05:42		06:46	07:44 (41)	07:48		07:57		08:57
	22:29	21:37		20:17	25 08:09 (41)	18:55		16:38		15:54
8	04:50	05:44		06:48	07:43 (41)	07:51		07:59		08:58
	22:28	21:34		20:15	27 08:10 (41)	18:52		16:36		15:53
9	04:51	05:46		06:50	07:42 (41)	07:53		08:01		09:00
	22:27	21:32		20:12	28 08:10 (41)	18:50		16:34		15:53
10	04:52	05:48		06:52	07:41 (41)	07:55		08:03		09:01
	22:26	21:30		20:09	29 08:10 (41)	18:47		16:32		15:52
11	04:54	05:50		06:55	07:41 (41)	07:57		08:06		09:02
	22:25	21:27		20:06	29 08:10 (41)	18:44		16:30		15:52
12	04:55	05:52		06:57	07:40 (41)	07:59		08:08		09:03
	22:23	21:25		20:04	29 08:09 (41)	18:42		16:28		15:51
13	04:56	05:54	07:01 (42)	06:59	07:40 (41)	08:01		08:10		09:05
	22:22	21:22	7 07:08 (42)	20:01	29 08:09 (41)	18:39		16:26		15:51
14	04:58	05:57	06:58 (42)	07:01	07:40 (41)	08:03		08:12		09:06
	22:21	21:20	12 07:10 (42)	19:58	28 08:08 (41)	18:36		16:24		15:51
15	04:59	05:59	06:56 (42)	07:03	07:40 (41)	08:06		08:14		09:07
	22:20	21:18	16 07:12 (42)	19:55	27 08:07 (41)	18:34		16:22		15:51
16	05:01	06:01	06:55 (42)	07:05	07:41 (41)	08:08	09:31 (3)	08:17		09:08
	22:18	21:15	18 07:13 (42)	19:53	25 08:06 (41)	18:31	2 09:33 (3)	16:20		15:51
17	05:03	06:03	06:54 (42)	07:07	07:41 (41)	08:10	09:25 (3)	08:19		09:09
	22:17	21:13	20 07:14 (42)	19:50	24 08:05 (41)	18:29	12 09:37 (3)	16:19		15:51
18	05:04	06:05	06:53 (42)	07:09	07:42 (41)	08:12	09:23 (3)	08:21		09:10
	22:15	21:10	22 07:15 (2)	19:47	21 08:03 (41)	18:26	17 09:40 (3)	16:17		15:51
19	05:06	06:07	06:52 (42)	07:11	07:44 (41)	08:14	09:21 (3)	08:23		09:10
	22:14	21:08	24 07:16 (2)	19:44	29 08:24 (4)	18:23	20 09:41 (3)	16:15		15:51
20	05:08	06:09	06:52 (42)	07:13	07:46 (41)	08:16	09:20 (3)	08:25		09:11
	22:12	21:05	25 07:17 (2)	19:42	27 08:26 (4)	18:21	22 09:42 (3)	16:14		15:52
21	05:09	06:11	06:52 (42)	07:15	08:08 (4)	08:19	09:19 (3)	08:27		09:12
	22:11	21:03	25 07:17 (2)	19:39	19 08:27 (4)	18:18	24 09:43 (3)	16:12		15:52
22	05:11	06:13	06:52 (42)	07:17	08:07 (4)	08:21	09:18 (3)	08:29		09:12
	22:09	21:00	25 07:17 (2)	19:36	20 08:27 (4)	18:16	26 09:44 (3)	16:10		15:53
23	05:13	06:15	06:51 (42)	07:19	08:05 (4)	08:23	09:17 (3)	08:31		09:13
	22:07	20:57	25 07:16 (2)	19:33	23 08:28 (4)	18:13	26 09:43 (3)	16:09		15:53
24	05:15	06:17	06:51 (42)	07:21	08:05 (4)	08:25	09:18 (3)	08:33		09:13
	22:05	20:55	25 07:16 (2)	19:31	23 08:28 (4)	18:11	26 09:44 (3)	16:07		15:54
25	05:17	06:19	06:51 (42)	07:23	08:04 (4)	07:27	08:17 (3)	08:35		09:14
	22:04	20:52	25 07:16 (2)	19:28	24 08:28 (4)	17:08	27 08:44 (3)	16:06		15:54
26	05:18	06:21	06:52 (42)	07:25	08:03 (4)	07:30	08:17 (3)	08:37		09:14
	22:02	20:50	23 07:15 (2)	19:25	24 08:27 (4)	17:06	27 08:44 (3)	16:05		15:55
27	05:20	06:24	06:54 (42)	07:27	08:03 (4)	07:32	08:17 (3)	08:39		09:14
	22:00	20:47	21 07:15 (2)	19:22	24 08:27 (4)	17:04	27 08:44 (3)	16:03		15:56
28	05:22	06:26	06:56 (42)	07:30	08:04 (4)	07:34	08:17 (3)	08:41		09:14
	21:58	20:44	18 07:14 (2)	19:20	23 08:27 (4)	17:01	26 08:43 (3)	16:02		15:57
29	05:24	06:28	06:58 (42)	07:32	08:04 (4)	07:36	08:18 (3)	08:43		09:14
	21:56	20:42	14 07:12 (2)	19:17	22 08:26 (4)	16:59	25 08:43 (3)	16:01		15:58
30	05:26	06:30	07:00 (2)	07:34	08:05 (4)	07:39	08:18 (3)	08:45		09:14
	21:54	20:39	10 07:10 (2)	19:14	19 08:24 (4)	16:56	24 08:42 (3)	16:00		15:59
31	05:28	06:32	07:02 (2)			07:41	08:20 (3)			09:14
	21:52	20:36	6 07:08 (2)			16:54	21 08:41 (3)			16:00
Potential sun hours	534	472		385		322		244		211
Total, worst case			361		683		388		54	
Sun reduction			0.59		0.50		0.42		0.23	
Oper. time red.			0.94		0.94		0.94		0.94	
Wind dir. red.			0.64		0.62		0.59		0.59	
Total reduction			0.35		0.29		0.24		0.13	
Total, real			127		199		92		7	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AC - Ceplabelnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:13		12:17 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43	08:46		
	16:01	23	12:40 (35)	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58		
2	09:13		12:18 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48		12:12 (35)
	16:02	22	12:40 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57	5	12:17 (35)
3	09:13		12:18 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:33	06:38	07:40	07:47	08:50		12:10 (35)
	16:03	22	12:40 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	15:56	10	12:20 (35)
4	09:12		12:20 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:49	08:52		12:09 (35)
	16:05	20	12:40 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55	13	12:22 (35)
5	09:12		12:21 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		12:08 (35)
	16:06	19	12:40 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	15:55	16	12:24 (35)
6	09:11		12:22 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		12:08 (35)
	16:08	17	12:39 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40	15:54	17	12:25 (35)
7	09:11		12:23 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		12:08 (35)
	16:09	16	12:39 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:53	19	12:27 (35)
8	09:10		12:25 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:58		12:07 (35)
	16:11	13	12:38 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53	20	12:27 (35)
9	09:09		12:27 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		12:07 (35)
	16:12	10	12:37 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:11	18:49	16:34	15:52	22	12:29 (35)
10	09:08		12:30 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		12:07 (35)
	16:14	5	12:35 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52	22	12:29 (35)
11	09:07			08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		12:07 (35)
	16:16			17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51	23	12:30 (35)
12	09:06			08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07	09:03		11:07 (36)
	16:18			17:25	18:28	20:35	21:39	22:29	22:23	21:24	20:03	18:41	16:28	15:51	26	12:31 (35)
13	09:05			08:09	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		11:05 (36)
	16:20			17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:00	18:39	16:26	15:51	30	12:31 (35)
14	09:04			08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05		11:06 (36)
	16:21			17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:50	32	12:33 (35)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:06		11:05 (36)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	34	12:33 (35)
16	09:02			08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07		11:05 (36)
	16:25			17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:50	35	12:34 (35)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08		11:05 (36)
	16:27			17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50	37	12:35 (35)
18	08:59			07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:20	09:09		11:06 (36)
	16:29			17:39	18:41	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51	37	12:35 (35)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23	09:10		11:05 (36)
	16:31			17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51	38	12:35 (35)
20	08:56			07:53	06:39	06:15	05:07	04:37	05:07	06:08	07:13	08:16	08:25	09:11		11:06 (36)
	16:33			17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51	38	12:36 (35)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:11		11:07 (36)
	16:35			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	15:51	38	12:37 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29	09:12		11:07 (36)
	16:38			17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10	15:52	38	12:37 (35)
23	08:52			07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31	09:12		11:07 (36)
	16:40			17:50	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:52	38	12:37 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		11:08 (36)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53	38	12:38 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	08:27	08:35	09:13		11:08 (36)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54	38	12:38 (35)
26	08:47			07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13		11:09 (36)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:55	36	12:38 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		11:10 (36)
	16:48			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:55	36	12:39 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		11:11 (36)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	15:56	34	12:39 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14		11:12 (36)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57	33	12:40 (35)
30	08:39				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		11:14 (36)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	15:58	30	12:40 (35)
31	08:38				07:08		04:50		05:28	06:31		07:40		09:14		11:15 (36)
	16:57				20:09		22:14		21:51	20:36		16:53		15:59	28	12:40 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		167													861	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.65													0.65	
Total reduction		0.17													0.14	
Total, real		28													118	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AD - Cepli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February	March	April	May	June	July	August	September	October	November			December		
1	09:13	10:12 (36)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		09:58 (36)
	16:01 59	11:34 (35)	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:51			15:58	57	11:19 (35)
2	09:13	10:12 (36)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		09:58 (36)
	16:02 59	11:34 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	57	11:19 (35)
3	09:13	10:12 (36)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		09:58 (36)
	16:03 59	11:34 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	59	11:20 (35)
4	09:12	10:13 (36)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:49			08:52		09:58 (36)
	16:05 59	11:35 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	59	11:21 (35)
5	09:12	10:13 (36)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		09:59 (36)
	16:06 60	11:36 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	59	11:21 (35)
6	09:11	10:13 (36)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:00 (36)
	16:08 61	11:36 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	59	11:22 (35)
7	09:11	10:14 (36)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:00 (36)
	16:09 59	11:36 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	60	11:23 (35)
8	09:10	10:14 (36)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		10:00 (36)
	16:11 60	11:37 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	59	11:22 (35)
9	09:09	10:15 (36)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:01 (36)
	16:13 59	11:37 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	59	11:23 (35)
10	09:08	10:16 (36)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:01 (36)
	16:14 57	11:37 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	59	11:23 (35)
11	09:07	10:16 (36)	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:02 (36)
	16:16 58	11:38 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	59	11:24 (35)
12	09:06	10:16 (36)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:02 (36)
	16:18 57	11:37 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	59	11:24 (35)
13	09:05	10:17 (36)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:02 (36)
	16:20 57	11:38 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	59	11:24 (35)
14	09:04	10:17 (36)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:04 (36)
	16:21 54	11:37 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	59	11:26 (35)
15	09:03	10:19 (36)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:06		10:04 (36)
	16:23 53	11:38 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	58	11:26 (35)
16	09:02	10:19 (36)	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:07		10:05 (36)
	16:25 51	11:37 (35)	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20			15:50	58	11:26 (35)
17	09:01	10:21 (36)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18		10:54 (35)	09:08		10:05 (36)
	16:27 49	11:38 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	9	11:03 (35)	15:50	58	11:27 (35)
18	08:59	10:21 (36)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:20		10:51 (35)	09:09		10:06 (36)
	16:29 46	11:37 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15	11:06 (35)	15:51	59	11:28 (35)
19	08:58	10:22 (36)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23		10:50 (35)	09:10		10:05 (36)
	16:31 42	11:36 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	19	11:09 (35)	15:51	58	11:27 (35)
20	08:56	10:25 (36)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		10:48 (35)	09:11		10:06 (36)
	16:33 38	11:37 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	22	11:10 (35)	15:51	58	11:28 (35)
21	08:55	10:27 (36)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		10:02 (36)	09:11		10:07 (36)
	16:35 32	11:36 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	32	11:11 (35)	15:52	58	11:29 (35)
22	08:53	11:13 (35)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:01 (36)	09:12		10:07 (36)
	16:38 22	11:35 (35)	17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10	38	11:13 (35)	15:52	58	11:29 (35)
23	08:52	11:15 (35)	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:00 (36)	09:12		10:07 (36)
	16:40 19	11:34 (35)	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	42	11:13 (35)	15:53	58	11:29 (35)
24	08:50	11:17 (35)	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		09:59 (36)	09:13		10:08 (36)
	16:42 15	11:32 (35)	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	46	11:14 (35)	15:53	58	11:30 (35)
25	08:49	11:20 (35)	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		09:59 (36)	09:13		10:09 (36)
	16:44 9	11:29 (35)	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	48	11:16 (35)	15:54	58	11:30 (35)
26	08:47		07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		09:58 (36)	09:13		10:09 (36)
	16:46		17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	51	11:16 (35)	15:55	59	11:31 (35)
27	08:45		07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		09:58 (36)	09:14		10:09 (36)
	16:49		18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	53	11:17 (35)	15:55	58	11:31 (35)
28	08:43		07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		09:58 (36)	09:14		10:10 (36)
	16:51		18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	53	11:17 (35)	15:56	59	11:32 (35)
29	08:41			07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		09:57 (36)	09:14		10:10 (36)
	16:53			20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	56	11:18 (35)	15:57	59	11:32 (35)
30	08:39			07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		09:57 (36)	09:14		10:11 (36)
	16:55			20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	56	11:18 (35)	15:58	59	11:33 (35)
31	08:38			07:08		04:50		05:28	06:31		07:41				09:14		10:11 (36)
	16:58			20:09		22:14		21:51	20:36		16:54				15:59	59	11:33 (35)
Potential sun hours	231		264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		1194											540			1815	
Sun reduction		0.28											0.23			0.23	
Oper. time red.		0.94											0.94			0.94	
Wind dir. red.		0.61											0.61			0.61	
Total reduction		0.16											0.13			0.13	
Total, real		188											71			235	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AE - Cerini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:02	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:11
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:13	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:28	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AF - Cerpi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:51	15:58
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:26	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04
	16:18	17:25	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:05	08:08	08:17	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19	09:09
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:29	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:31	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:46	17:58	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:58	16:01	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:34	07:39	08:45	09:14
	16:55		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AG - Ciruli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April	May	June
1	09:13		12:40 (37)	08:35		14:31 (36)	07:30		16:30 (35)	07:06	05:47	04:48
	16:01	43	14:48 (36)	17:00	25	14:56 (36)	18:04	32	17:02 (35)	20:11	21:16	22:15
2	09:13		12:42 (37)	08:33		14:33 (36)	07:27		16:31 (35)	07:03	05:45	04:47
	16:02	41	14:49 (36)	17:02	22	14:55 (36)	18:06	31	17:02 (35)	20:14	21:18	22:17
3	09:13		12:43 (37)	08:31		14:36 (36)	07:24		16:31 (35)	07:00	05:42	04:46
	16:03	41	14:50 (36)	17:04	17	14:53 (36)	18:08	30	17:01 (35)	20:16	21:20	22:18
4	09:12		12:47 (37)	08:29		14:39 (36)	07:22		16:32 (35)	06:57	05:40	04:45
	16:05	35	14:51 (36)	17:07	11	14:50 (36)	18:11	28	17:00 (35)	20:18	21:22	22:20
5	09:12		14:19 (36)	08:27			07:19		16:33 (35)	06:55	05:38	04:44
	16:06	33	14:52 (36)	17:09			18:13	25	16:58 (35)	20:20	21:25	22:21
6	09:11		14:19 (36)	08:25			07:16		16:35 (35)	06:52	05:36	04:43
	16:08	33	14:52 (36)	17:11			18:15	22	16:57 (35)	20:22	21:27	22:22
7	09:11		14:19 (36)	08:23			07:14		16:36 (35)	06:49	05:33	04:42
	16:09	34	14:53 (36)	17:14			18:17	19	16:55 (35)	20:24	21:29	22:23
8	09:10		14:19 (36)	08:21			07:11		16:39 (35)	06:46	05:31	04:41
	16:11	34	14:53 (36)	17:16			18:20	12	16:51 (35)	20:27	21:31	22:24
9	09:09		14:20 (36)	08:19			07:08			06:44	05:29	04:41
	16:12	34	14:54 (36)	17:18			18:22			20:29	21:33	22:26
10	09:08		14:20 (36)	08:16			07:06			06:41	05:27	04:40
	16:14	35	14:55 (36)	17:21			18:24			20:31	21:35	22:27
11	09:07		14:19 (36)	08:14			07:03			06:38	05:24	04:39
	16:16	36	14:55 (36)	17:23			18:26			20:33	21:37	22:27
12	09:06		14:20 (36)	08:12			07:00			06:36	05:22	04:39
	16:18	36	14:56 (36)	17:25			18:28			20:35	21:39	22:28
13	09:05		14:20 (36)	08:09			06:58			06:33	05:20	04:38
	16:20	37	14:57 (36)	17:27			18:31			20:37	21:41	22:29
14	09:04		14:20 (36)	08:07			06:55			06:30	05:18	04:38
	16:21	37	14:57 (36)	17:30			18:33			20:39	21:43	22:30
15	09:03		14:21 (36)	08:05		16:45 (35)	06:52			06:28	05:16	04:38
	16:23	37	14:58 (36)	17:32	5	16:50 (35)	18:35			20:42	21:45	22:31
16	09:02		14:21 (36)	08:02		16:41 (35)	06:49			06:25	05:14	04:37
	16:25	37	14:58 (36)	17:34	14	16:55 (35)	18:37			20:44	21:47	22:31
17	09:01		14:21 (36)	08:00		16:38 (35)	06:47			06:22	05:12	04:37
	16:27	38	14:59 (36)	17:37	19	16:57 (35)	18:39			20:46	21:49	22:32
18	08:59		14:21 (36)	07:57		16:37 (35)	06:44			06:20	05:10	04:37
	16:29	38	14:59 (36)	17:39	22	16:59 (35)	18:41			20:48	21:51	22:32
19	08:58		14:21 (36)	07:55		16:35 (35)	06:41			06:17	05:08	04:37
	16:31	38	14:59 (36)	17:41	25	17:00 (35)	18:44			20:50	21:53	22:33
20	08:56		14:22 (36)	07:52		16:33 (35)	06:38			06:15	05:07	04:37
	16:33	37	14:59 (36)	17:44	28	17:01 (35)	18:46			20:52	21:55	22:33
21	08:55		14:23 (36)	07:50		16:33 (35)	06:36			06:12	05:05	04:37
	16:35	37	15:00 (36)	17:46	29	17:02 (35)	18:48			20:54	21:57	22:33
22	08:53		14:23 (36)	07:47		16:32 (35)	06:33			06:10	05:03	04:37
	16:38	37	15:00 (36)	17:48	31	17:03 (35)	18:50			20:57	21:59	22:34
23	08:52		14:23 (36)	07:45		16:31 (35)	06:30			06:07	05:01	04:37
	16:40	37	15:00 (36)	17:50	32	17:03 (35)	18:52			20:59	22:00	22:34
24	08:50		14:24 (36)	07:42		16:31 (35)	06:27			06:04	05:00	04:38
	16:42	36	15:00 (36)	17:53	33	17:04 (35)	18:54			21:01	22:02	22:34
25	08:48		14:25 (36)	07:40		16:30 (35)	06:25			06:02	04:58	04:38
	16:44	35	15:00 (36)	17:55	33	17:03 (35)	18:56			21:03	22:04	22:34
26	08:47		14:25 (36)	07:37		16:30 (35)	06:22			05:59	04:57	04:39
	16:46	35	15:00 (36)	17:57	33	17:03 (35)	18:59			21:05	22:06	22:34
27	08:45		14:26 (36)	07:35		16:30 (35)	06:19			05:57	04:55	04:39
	16:48	34	15:00 (36)	17:59	34	17:04 (35)	19:01			21:07	22:07	22:34
28	08:43		14:27 (36)	07:32		16:30 (35)	06:16			05:54	04:54	04:40
	16:51	32	14:59 (36)	18:02	33	17:03 (35)	19:03			21:10	22:09	22:33
29	08:41		14:28 (36)				07:14			05:52	04:52	04:40
	16:53	31	14:59 (36)				20:05			21:12	22:11	22:33
30	08:39		14:28 (36)				07:11			05:50	04:51	04:41
	16:55	30	14:58 (36)				20:07			21:14	22:12	22:33
31	08:37		14:30 (36)				07:08				04:50	
	16:57	27	14:57 (36)				20:09				22:14	
Potential sun hours	231			264			366			428	512	534
Total, worst case		1105			446			199				
Sun reduction		0.28			0.33			0.46				
Oper. time red.		0.94			0.94			0.94				
Wind dir. red.		0.69			0.68			0.68				
Total reduction		0.18			0.21			0.29				
Total, real		195			95			58				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AG - Ciruli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:29	06:33	07:35		07:43		08:46		14:02 (36)
	22:32	21:49	20:33	19:11		16:51		15:58	35	14:37 (36)
2	04:43	05:31	06:35	07:37		07:45		08:48		14:02 (36)
	22:32	21:47	20:30	19:08		16:49		15:57	35	14:37 (36)
3	04:44	05:33	06:37	07:39		07:47		08:50		14:03 (36)
	22:31	21:45	20:28	19:05		16:47		15:56	34	14:37 (36)
4	04:45	05:35	06:40	07:42		07:49		08:51		14:04 (36)
	22:31	21:43	20:25	19:03		16:44		15:55	34	14:38 (36)
5	04:46	05:37	06:42	07:44	17:18 (35)	07:52		08:53		14:04 (36)
	22:30	21:41	20:22	19:00	9 17:27 (35)	16:42		15:55	34	14:38 (36)
6	04:47	05:40	06:44	07:46	17:14 (35)	07:54		08:55		14:05 (36)
	22:29	21:38	20:20	18:57	16 17:30 (35)	16:40		15:54	33	14:38 (36)
7	04:48	05:42	06:46	07:48	17:11 (35)	07:56	14:09 (36)	08:56		14:05 (36)
	22:28	21:36	20:17	18:54	21 17:32 (35)	16:38	12 14:21 (36)	15:53	33	14:38 (36)
8	04:49	05:44	06:48	07:50	17:09 (35)	07:58	14:06 (36)	08:58		12:34 (37)
	22:27	21:34	20:14	18:52	24 17:33 (35)	16:36	17 14:23 (36)	15:53	35	14:38 (36)
9	04:50	05:46	06:50	07:52	17:08 (35)	08:01	14:04 (36)	08:59		12:32 (37)
	22:26	21:31	20:11	18:49	26 17:34 (35)	16:34	22 14:26 (36)	15:52	41	14:39 (36)
10	04:52	05:48	06:52	07:54	17:06 (35)	08:03	14:02 (36)	09:00		12:31 (37)
	22:25	21:29	20:09	18:46	29 17:35 (35)	16:32	25 14:27 (36)	15:52	41	14:38 (36)
11	04:53	05:50	06:54	07:56	17:05 (35)	08:05	14:01 (36)	09:02		12:31 (37)
	22:24	21:27	20:06	18:44	30 17:35 (35)	16:29	28 14:29 (36)	15:51	43	14:39 (36)
12	04:54	05:52	06:56	07:59	17:04 (35)	08:07	14:00 (36)	09:03		12:30 (37)
	22:23	21:24	20:03	18:41	31 17:35 (35)	16:27	29 14:29 (36)	15:51	45	14:39 (36)
13	04:56	05:54	06:58	08:01	17:04 (35)	08:09	14:00 (36)	09:04		12:30 (37)
	22:22	21:22	20:00	18:38	32 17:36 (35)	16:26	31 14:31 (36)	15:51	45	14:39 (36)
14	04:57	05:56	07:00	08:03	17:03 (35)	08:12	13:59 (36)	09:05		12:29 (37)
	22:20	21:20	19:58	18:36	33 17:36 (35)	16:24	32 14:31 (36)	15:50	47	14:39 (36)
15	04:59	05:58	07:02	08:05	17:02 (35)	08:14	13:59 (36)	09:06		12:30 (37)
	22:19	21:17	19:55	18:33	34 17:36 (35)	16:22	34 14:33 (36)	15:50	46	14:40 (36)
16	05:00	06:00	07:04	08:07	17:02 (35)	08:16	13:58 (36)	09:07		12:30 (37)
	22:18	21:15	19:52	18:31	33 17:35 (35)	16:20	35 14:33 (36)	15:50	47	14:40 (36)
17	05:02	06:02	07:06	08:09	17:03 (35)	08:18	13:58 (36)	09:08		12:30 (37)
	22:16	21:12	19:49	18:28	32 17:35 (35)	16:18	36 14:34 (36)	15:50	48	14:41 (36)
18	05:04	06:04	07:08	08:12	17:02 (35)	08:20	13:58 (36)	09:09		12:30 (37)
	22:15	21:10	19:47	18:25	33 17:35 (35)	16:16	36 14:34 (36)	15:51	47	14:40 (36)
19	05:05	06:06	07:10	08:14	17:02 (35)	08:22	13:57 (36)	09:10		12:30 (37)
	22:13	21:07	19:44	18:23	32 17:34 (35)	16:15	37 14:34 (36)	15:51	48	14:41 (36)
20	05:07	06:08	07:12	08:16	17:03 (35)	08:25	13:58 (36)	09:11		12:31 (37)
	22:12	21:05	19:41	18:20	31 17:34 (35)	16:13	37 14:35 (36)	15:51	48	14:41 (36)
21	05:09	06:11	07:14	08:18	17:03 (35)	08:27	13:58 (36)	09:11		12:31 (37)
	22:10	21:02	19:38	18:18	29 17:32 (35)	16:11	37 14:35 (36)	15:51	48	14:41 (36)
22	05:11	06:13	07:17	08:20	17:04 (35)	08:29	13:58 (36)	09:12		12:32 (37)
	22:08	20:59	19:36	18:15	27 17:31 (35)	16:10	37 14:35 (36)	15:52	48	14:42 (36)
23	05:12	06:15	07:19	08:23	17:06 (35)	08:31	13:59 (36)	09:12		12:32 (37)
	22:07	20:57	19:33	18:13	24 17:30 (35)	16:08	37 14:36 (36)	15:52	48	14:42 (36)
24	05:14	06:17	07:21	08:25	17:06 (35)	08:33	13:58 (36)	09:13		12:33 (37)
	22:05	20:54	19:30	18:10	22 17:28 (35)	16:07	38 14:36 (36)	15:53	47	14:43 (36)
25	05:16	06:19	07:23	07:27	16:09 (35)	08:35	13:59 (36)	09:13		12:34 (37)
	22:03	20:52	19:27	17:08	18 16:27 (35)	16:05	37 14:36 (36)	15:54	47	14:44 (36)
26	05:18	06:21	07:25	07:29	16:11 (35)	08:37	14:00 (36)	09:13		12:34 (37)
	22:01	20:49	19:25	17:05	13 16:24 (35)	16:04	37 14:37 (36)	15:54	47	14:44 (36)
27	05:20	06:23	07:27	07:31		08:39	14:00 (36)	09:13		12:35 (37)
	21:59	20:46	19:22	17:03		16:03	37 14:37 (36)	15:55	47	14:45 (36)
28	05:22	06:25	07:29	07:34		08:41	14:00 (36)	09:14		12:36 (37)
	21:57	20:44	19:19	17:01		16:02	37 14:37 (36)	15:56	46	14:46 (36)
29	05:24	06:27	07:31	07:36		08:43	14:01 (36)	09:14		12:37 (37)
	21:55	20:41	19:16	16:58		16:00	36 14:37 (36)	15:57	46	14:46 (36)
30	05:26	06:29	07:33	07:38		08:44	14:01 (36)	09:14		12:37 (37)
	21:53	20:38	19:14	16:56		15:59	36 14:37 (36)	15:58	46	14:46 (36)
31	05:27	06:31		07:40				09:13		12:38 (37)
	21:51	20:36		16:53				15:59	45	14:47 (36)
Potential sun hours	534	472	385	322		244		211		
Total, worst case					579		780		1334	
Sun reduction					0.42		0.23		0.23	
Oper. time red.					0.94		0.94		0.94	
Wind dir. red.					0.68		0.69		0.68	
Total reduction					0.27		0.15		0.14	
Total, real					156		115		192	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AH - Ciekuri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:31	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:05	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:08	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:41	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:43	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:43	04:50	05:45	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:27	21:34	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:52	05:47	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:35	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:04	06:39	05:25	04:41	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:45	16:30	15:52
12	09:06	08:12	07:01	06:37	05:23	04:40	04:56	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:40	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:27	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:59	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:06
	16:24	17:33	18:36	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:52
16	09:02	08:03	06:50	06:26	05:15	04:39	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:52
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:38	18:40	20:46	21:49	22:32	22:16	21:13	19:50	18:29	16:19	15:52
18	08:59	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:10	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:16	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:03	04:39	05:13	06:16	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:03	19:03	21:10	22:09	22:33	21:58	20:44	19:20	17:01	16:03	15:57
29	08:42		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:51	04:52	04:42	05:27	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:29	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AI - Dambji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:13	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:28	08:35	09:14
	16:45	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AJ - Dangas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:14		10:17 (43)	08:36		07:30	07:06	05:48	04:49
	16:01	55	11:27 (2)	17:00		18:04	20:12	21:16	22:16
2	09:14		10:17 (43)	08:34		07:27	07:03	05:45	04:48
	16:02	55	11:27 (2)	17:02		18:07	20:14	21:19	22:17
3	09:13		10:18 (43)	08:32		07:25	07:00	05:43	04:46
	16:04	55	11:28 (2)	17:05		18:09	20:16	21:21	22:19
4	09:13		10:18 (43)	08:30		07:22	06:58	05:41	04:45
	16:05	55	11:28 (2)	17:07		18:11	20:18	21:23	22:20
5	09:12		10:18 (43)	08:28		07:19	06:55	05:38	04:44
	16:07	55	11:28 (2)	17:09		18:13	20:21	21:25	22:21
6	09:12		10:18 (43)	08:26		07:17	06:52	05:36	04:43
	16:08	54	11:28 (2)	17:12		18:16	20:23	21:27	22:23
7	09:11		10:18 (43)	08:23		07:14	06:50	05:34	04:42
	16:10	53	11:28 (2)	17:14		18:18	20:25	21:29	22:24
8	09:10		10:19 (43)	08:21		07:11	06:47	05:31	04:42
	16:11	51	11:27 (2)	17:16		18:20	20:27	21:31	22:25
9	09:10		10:19 (43)	08:19		07:09	06:44	05:29	04:41
	16:13	51	11:27 (2)	17:19		18:22	20:29	21:33	22:26
10	09:09		10:20 (43)	08:17		07:06	06:42	05:27	04:40
	16:15	49	11:27 (2)	17:21		18:24	20:31	21:36	22:27
11	09:08		10:20 (43)	08:14	08:44 (1)	07:03	06:39	05:25	04:40
	16:16	48	11:27 (2)	17:23	7 08:51 (1)	18:27	20:33	21:38	22:28
12	09:07		10:21 (43)	08:12	08:41 (1)	07:01	06:36	05:23	04:39
	16:18	46	11:26 (2)	17:26	12 08:53 (1)	18:29	20:36	21:40	22:29
13	09:06		10:21 (43)	08:10	08:39 (1)	06:58	06:33	05:21	04:39
	16:20	42	11:24 (2)	17:28	16 08:55 (1)	18:31	20:38	21:42	22:30
14	09:05		10:21 (43)	08:08	08:37 (1)	06:55	06:31	05:19	04:38
	16:22	38	11:23 (2)	17:30	19 08:56 (1)	18:33	20:40	21:44	22:31
15	09:04		10:21 (43)	08:05	08:36 (1)	06:53	06:28	05:17	04:38
	16:24	32	10:53 (43)	17:33	21 08:57 (1)	18:35	20:42	21:46	22:31
16	09:02		10:22 (43)	08:03	08:35 (1)	06:50	06:26	05:15	04:38
	16:26	32	10:54 (43)	17:35	23 08:58 (1)	18:38	20:44	21:48	22:32
17	09:01		10:22 (43)	08:00	08:35 (1)	06:47	06:23	05:13	04:37
	16:28	32	10:54 (43)	17:37	24 08:59 (1)	18:40	20:46	21:50	22:32
18	09:00		10:23 (43)	07:58	08:35 (1)	06:44	06:20	05:11	04:37
	16:30	31	10:54 (43)	17:39	23 08:58 (1)	18:42	20:49	21:52	22:33
19	08:58		10:24 (43)	07:55	08:35 (1)	06:42	06:18	05:09	04:37
	16:32	30	10:54 (43)	17:42	24 08:59 (1)	18:44	20:51	21:54	22:33
20	08:57		10:24 (43)	07:53	08:35 (1)	06:39	06:15	05:07	04:37
	16:34	30	10:54 (43)	17:44	23 08:58 (1)	18:46	20:53	21:55	22:34
21	08:55		10:25 (43)	07:50	08:35 (1)	06:36	06:13	05:05	04:37
	16:36	29	10:54 (43)	17:46	22 08:57 (1)	18:48	20:55	21:57	22:34
22	08:54		10:25 (43)	07:48	08:36 (1)	06:33	06:10	05:03	04:38
	16:38	28	10:53 (43)	17:49	21 08:57 (1)	18:50	20:57	21:59	22:34
23	08:52		10:26 (43)	07:45	08:36 (1)	06:31	06:07	05:02	04:38
	16:40	27	10:53 (43)	17:51	20 08:56 (1)	18:53	20:59	22:01	22:34
24	08:51		10:27 (43)	07:43	08:37 (1)	06:28	06:05	05:00	04:38
	16:42	25	10:52 (43)	17:53	18 08:55 (1)	18:55	21:01	22:03	22:34
25	08:49		10:28 (43)	07:40	08:39 (1)	06:25	06:02	04:59	04:39
	16:44	24	10:52 (43)	17:55	15 08:54 (1)	18:57	21:04	22:05	22:34
26	08:47		10:30 (43)	07:38	08:41 (1)	06:22	06:00	04:57	04:39
	16:47	21	10:51 (43)	17:58	10 08:51 (1)	18:59	21:06	22:06	22:34
27	08:45		10:31 (43)	07:35		06:20	05:57	04:55	04:40
	16:49	19	10:50 (43)	18:00		19:01	21:08	22:08	22:34
28	08:44		10:33 (43)	07:33		06:17	05:55	04:54	04:40
	16:51	15	10:48 (43)	18:02		19:03	21:10	22:10	22:34
29	08:42		10:36 (43)			07:14	05:52	04:53	04:41
	16:53	10	10:46 (43)			20:06	21:12	22:11	22:34
30	08:40					07:11	05:50	04:51	04:41
	16:56					20:08	21:14	22:13	22:33
31	08:38					07:09		04:50	
	16:58					20:10		22:14	
Potential sun hours	231		264			366	428	512	534
Total, worst case		1092		298					
Sun reduction		0.28		0.33					
Oper. time red.		0.94		0.94					
Wind dir. red.		0.61		0.60					
Total reduction		0.16		0.19					
Total, real		172		56					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AJ - Dangas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:30	06:34	07:36		07:43		08:47		10:02 (43)
	22:33	21:50	20:34	19:11		16:52		15:59	48	11:09 (2)
2	04:43	05:32	06:36	07:38		07:45		08:49		10:03 (43)
	22:32	21:48	20:31	19:09		16:49		15:58	49	11:10 (2)
3	04:44	05:34	06:38	07:40		07:48		08:50		10:03 (43)
	22:32	21:45	20:28	19:06		16:47		15:57	51	11:11 (2)
4	04:45	05:36	06:40	07:42		07:50		08:52		10:04 (43)
	22:31	21:43	20:25	19:03		16:45		15:56	52	11:13 (2)
5	04:46	05:38	06:42	07:44		07:52		08:54		10:05 (43)
	22:30	21:41	20:23	19:00		16:43		15:55	53	11:14 (2)
6	04:47	05:40	06:44	07:46		07:54		08:55		10:04 (43)
	22:30	21:39	20:20	18:58		16:40		15:54	54	11:14 (2)
7	04:48	05:42	06:46	07:48		07:57		08:57		10:05 (43)
	22:29	21:37	20:17	18:55		16:38		15:54	55	11:15 (2)
8	04:49	05:44	06:48	07:50		07:59		08:58		10:06 (43)
	22:28	21:34	20:15	18:52		16:36		15:53	54	11:16 (2)
9	04:51	05:46	06:50	07:53		08:01		09:00		10:06 (43)
	22:27	21:32	20:12	18:50		16:34		15:52	55	11:16 (2)
10	04:52	05:48	06:52	07:55		08:03		09:01		10:07 (43)
	22:26	21:30	20:09	18:47		16:32		15:52	55	11:17 (2)
11	04:53	05:50	06:54	07:57		08:06		09:02		10:07 (43)
	22:25	21:27	20:06	18:44		16:30		15:52	55	11:17 (2)
12	04:55	05:52	06:56	07:59		08:08		09:04		10:09 (43)
	22:24	21:25	20:04	18:42		16:28		15:51	54	11:19 (2)
13	04:56	05:54	06:58	08:01		08:10	10:08 (43)	09:05		10:09 (43)
	22:22	21:22	20:01	18:39		16:26	10 10:18 (43)	15:51	54	11:19 (2)
14	04:58	05:56	07:01	08:03		08:12	10:06 (43)	09:06		10:09 (43)
	22:21	21:20	19:58	18:36		16:24	15 10:21 (43)	15:51	55	11:19 (2)
15	04:59	05:58	07:03	08:05	09:17 (1)	08:14	10:04 (43)	09:07		10:10 (43)
	22:20	21:18	19:55	18:34	3 09:20 (1)	16:22	19 10:23 (43)	15:51	55	11:20 (2)
16	05:01	06:01	07:05	08:08	09:12 (1)	08:17	10:04 (43)	09:08		10:10 (43)
	22:18	21:15	19:53	18:31	12 09:24 (1)	16:20	21 10:25 (43)	15:51	55	11:20 (2)
17	05:02	06:03	07:07	08:10	09:09 (1)	08:19	10:02 (43)	09:09		10:11 (43)
	22:17	21:13	19:50	18:28	16 09:25 (1)	16:19	24 10:26 (43)	15:51	55	11:21 (2)
18	05:04	06:05	07:09	08:12	09:09 (1)	08:21	10:01 (43)	09:10		10:12 (43)
	22:15	21:10	19:47	18:26	18 09:27 (1)	16:17	25 10:26 (43)	15:51	55	11:22 (2)
19	05:06	06:07	07:11	08:14	09:07 (1)	08:23	10:01 (43)	09:10		10:12 (43)
	22:14	21:08	19:44	18:23	21 09:28 (1)	16:15	27 10:28 (43)	15:51	55	11:22 (2)
20	05:07	06:09	07:13	08:16	09:06 (1)	08:25	10:00 (43)	09:11		10:12 (43)
	22:12	21:05	19:42	18:21	22 09:28 (1)	16:13	28 10:28 (43)	15:51	54	11:22 (2)
21	05:09	06:11	07:15	08:19	09:06 (1)	08:27	10:01 (43)	09:12		10:13 (43)
	22:11	21:03	19:39	18:18	23 09:29 (1)	16:12	29 10:30 (43)	15:52	54	11:23 (2)
22	05:11	06:13	07:17	08:21	09:05 (1)	08:29	10:00 (43)	09:12		10:13 (43)
	22:09	21:00	19:36	18:16	24 09:29 (1)	16:10	30 10:30 (43)	15:52	54	11:23 (2)
23	05:13	06:15	07:19	08:23	09:05 (1)	08:31	10:00 (43)	09:13		10:14 (43)
	22:07	20:57	19:33	18:13	23 09:28 (1)	16:09	30 10:30 (43)	15:53	54	11:24 (2)
24	05:15	06:17	07:21	08:25	09:05 (1)	08:33	10:01 (43)	09:13		10:14 (43)
	22:05	20:55	19:30	18:11	24 09:29 (1)	16:07	31 10:32 (43)	15:53	55	11:24 (2)
25	05:16	06:19	07:23	07:27	08:05 (1)	08:35	10:01 (43)	09:14		10:14 (43)
	22:04	20:52	19:28	17:08	23 08:28 (1)	16:06	31 10:32 (43)	15:54	55	11:24 (2)
26	05:18	06:21	07:25	07:30	08:06 (1)	08:37	10:00 (43)	09:14		10:15 (43)
	22:02	20:50	19:25	17:06	22 08:28 (1)	16:04	32 10:32 (43)	15:55	55	11:25 (2)
27	05:20	06:23	07:27	07:32	08:06 (1)	08:39	10:00 (43)	09:14		10:15 (43)
	22:00	20:47	19:22	17:03	21 08:27 (1)	16:03	32 10:32 (43)	15:56	55	11:25 (2)
28	05:22	06:25	07:29	07:34	08:06 (1)	08:41	10:02 (43)	09:14		10:16 (43)
	21:58	20:44	19:19	17:01	19 08:25 (1)	16:02	36 11:02 (2)	15:57	55	11:26 (2)
29	05:24	06:28	07:32	07:36	08:09 (1)	08:43	10:02 (43)	09:14		10:16 (43)
	21:56	20:42	19:17	16:59	16 08:25 (1)	16:01	42 11:05 (2)	15:58	55	11:26 (2)
30	05:26	06:30	07:34	07:39	08:11 (1)	08:45	10:02 (43)	09:14		10:17 (43)
	21:54	20:39	19:14	16:56	11 08:22 (1)	16:00	45 11:07 (2)	15:59	55	11:27 (2)
31	05:28	06:32		07:41	08:14 (1)			09:14		10:17 (43)
	21:52	20:36		16:54	6 08:20 (1)			16:00	55	11:27 (2)
Potential sun hours	534	472	385	322		244		211		
Total, worst case					304		507		1675	
Sun reduction					0.42		0.23		0.23	
Oper. time red.					0.94		0.94		0.94	
Wind dir. red.					0.60		0.61		0.61	
Total reduction					0.24		0.13		0.13	
Total, real					72		67		217	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AK - Dangas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:43	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49	15:57
3	09:13	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:50
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46	15:56
4	09:12	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:20	22:30	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:37	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:24	22:21	22:30	21:41	20:22	19:00	16:42	15:54
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40	15:54
7	09:10	08:23	07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56
	16:09	17:13	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:10	08:21	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58	08:58
	16:11	17:16	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:52
9	09:09	08:18	07:08	06:44	05:29	04:40	04:50	05:46	06:50	07:52	08:01	08:59
	16:12	17:18	18:22	20:29	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:00
	16:14	17:20	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:46	16:31	15:51
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29	15:51
12	09:06	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09	09:04
	16:19	17:27	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25	15:50
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05
	16:21	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:58	18:36	16:24	15:50
15	09:03	08:05	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14	09:06
	16:23	17:32	18:35	20:41	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:50
17	09:00	08:00	06:47	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:15	21:10	19:47	18:25	16:16	15:50
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22	09:10
	16:31	17:41	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25	09:11
	16:33	17:43	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27	09:11
	16:35	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	15:51
22	08:53	07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29	09:12
	16:37	17:48	18:50	20:57	21:59	22:34	22:08	20:59	19:35	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:22	08:31	09:12
	16:40	17:50	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54
26	08:47	07:37	06:22	05:59	04:56	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	15:54
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39	09:13
	16:48	17:59	19:01	21:07	22:07	22:34	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	15:56
29	08:41		07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:14
	16:55		20:07	21:14	22:12	22:33	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:49		05:27	06:31		07:40		09:13
	16:57		20:09		22:14		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AL - Dapatas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:11
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:08	06:09	07:13	08:17	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:28	08:36	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AM - Darznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:14		12:10 (43)	08:36		09:29 (1)	07:30	07:06	05:48	04:49
	16:01	28	12:38 (43)	17:00	30	09:59 (1)	18:04	20:12	21:16	22:16
2	09:14		12:10 (43)	08:34		09:28 (1)	07:27	07:03	05:45	04:47
	16:02	28	12:38 (43)	17:02	30	09:58 (1)	18:07	20:14	21:19	22:17
3	09:13		12:12 (43)	08:32		09:28 (1)	07:25	07:00	05:43	04:46
	16:04	27	12:39 (43)	17:05	31	09:59 (1)	18:09	20:16	21:21	22:19
4	09:13		12:12 (43)	08:30		09:29 (1)	07:22	06:58	05:40	04:45
	16:05	27	12:39 (43)	17:07	30	09:59 (1)	18:11	20:18	21:23	22:20
5	09:12		12:13 (43)	08:28		09:28 (1)	07:19	06:55	05:38	04:44
	16:07	26	12:39 (43)	17:09	31	09:59 (1)	18:13	20:20	21:25	22:21
6	09:12		12:14 (43)	08:26		09:29 (1)	07:17	06:52	05:36	04:43
	16:08	24	12:38 (43)	17:12	30	09:59 (1)	18:16	20:23	21:27	22:23
7	09:11		12:15 (43)	08:23		09:30 (1)	07:14	06:50	05:34	04:42
	16:10	23	12:38 (43)	17:14	29	09:59 (1)	18:18	20:25	21:29	22:24
8	09:10		12:16 (43)	08:21		09:30 (1)	07:11	06:47	05:31	04:42
	16:11	22	12:38 (43)	17:16	28	09:58 (1)	18:20	20:27	21:31	22:25
9	09:10		12:17 (43)	08:19		09:31 (1)	07:09	06:44	05:29	04:41
	16:13	21	12:38 (43)	17:19	27	09:58 (1)	18:22	20:29	21:33	22:26
10	09:09		12:18 (43)	08:17		09:31 (1)	07:06	06:41	05:27	04:40
	16:14	19	12:37 (43)	17:21	25	09:56 (1)	18:24	20:31	21:35	22:27
11	09:08		12:20 (43)	08:14		09:33 (1)	07:03	06:39	05:25	04:40
	16:16	17	12:37 (43)	17:23	23	09:56 (1)	18:27	20:33	21:38	22:28
12	09:07		12:22 (43)	08:12		09:34 (1)	07:01	06:36	05:23	04:39
	16:18	14	12:36 (43)	17:26	20	09:54 (1)	18:29	20:36	21:40	22:29
13	09:06		12:24 (43)	08:10		09:36 (1)	06:58	06:33	05:21	04:39
	16:20	10	12:34 (43)	17:28	16	09:52 (1)	18:31	20:38	21:42	22:30
14	09:05		09:42 (7)	08:07		09:39 (1)	06:55	06:31	05:19	04:38
	16:22	3	09:45 (7)	17:30	10	09:49 (1)	18:33	20:40	21:44	22:31
15	09:03		09:40 (7)	08:05			06:52	06:28	05:17	04:38
	16:24	7	09:47 (7)	17:32			18:35	20:42	21:46	22:31
16	09:02		09:39 (7)	08:03			06:50	06:25	05:15	04:38
	16:26	10	09:49 (7)	17:35			18:37	20:44	21:48	22:32
17	09:01		09:37 (7)	08:00			06:47	06:23	05:13	04:37
	16:28	13	09:50 (7)	17:37			18:40	20:46	21:50	22:32
18	09:00		09:35 (7)	07:58			06:44	06:20	05:11	04:37
	16:30	16	09:51 (7)	17:39			18:42	20:48	21:52	22:33
19	08:58		09:35 (7)	07:55			06:42	06:18	05:09	04:37
	16:32	18	09:53 (7)	17:42			18:44	20:51	21:53	22:33
20	08:57		09:34 (7)	07:53			06:39	06:15	05:07	04:37
	16:34	20	09:54 (7)	17:44			18:46	20:53	21:55	22:34
21	08:55		09:34 (7)	07:50			06:36	06:12	05:05	04:37
	16:36	20	09:54 (7)	17:46			18:48	20:55	21:57	22:34
22	08:54		09:33 (7)	07:48			06:33	06:10	05:03	04:38
	16:38	22	09:55 (7)	17:49			18:50	20:57	21:59	22:34
23	08:52		09:32 (1)	07:45			06:31	06:07	05:02	04:38
	16:40	23	09:55 (7)	17:51			18:53	20:59	22:01	22:34
24	08:51		09:31 (1)	07:43			06:28	06:05	05:00	04:38
	16:42	25	09:56 (7)	17:53			18:55	21:01	22:03	22:34
25	08:49		09:30 (1)	07:40			06:25	06:02	04:58	04:38
	16:44	26	09:56 (7)	17:55			18:57	21:04	22:05	22:34
26	08:47		09:30 (1)	07:38			06:22	06:00	04:57	04:39
	16:47	26	09:56 (7)	17:58			18:59	21:06	22:06	22:34
27	08:45		09:29 (1)	07:35			06:20	05:57	04:55	04:39
	16:49	28	09:57 (7)	18:00			19:01	21:08	22:08	22:34
28	08:44		09:29 (1)	07:33			06:17	05:55	04:54	04:40
	16:51	28	09:57 (7)	18:02			19:03	21:10	22:10	22:34
29	08:42		09:29 (1)				07:14	05:52	04:53	04:41
	16:53	28	09:57 (7)				20:05	21:12	22:11	22:34
30	08:40		09:29 (1)				07:11	05:50	04:51	04:41
	16:56	28	09:57 (7)				20:08	21:14	22:13	22:33
31	08:38		09:29 (1)				07:09		04:50	
	16:58	29	09:58 (1)				20:10		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		656			360					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.61			0.57					
Total reduction		0.16			0.18					
Total, real		103			64					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AM - Darznieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:30	06:34	07:36		07:43		09:01 (1)	08:47	12:02 (43)
	22:33	21:50	20:34	19:11		16:51	25	09:26 (1)	15:58	17 12:19 (43)
2	04:43	05:32	06:36	07:38		07:45		09:01 (1)	08:49	12:02 (43)
	22:32	21:48	20:31	19:08		16:49	26	09:27 (1)	15:57	18 12:20 (43)
3	04:44	05:34	06:38	07:40		07:48		08:59 (1)	08:50	12:01 (43)
	22:32	21:45	20:28	19:06		16:47	29	09:28 (1)	15:57	21 12:22 (43)
4	04:45	05:36	06:40	07:42		07:50		09:00 (1)	08:52	12:01 (43)
	22:31	21:43	20:25	19:03		16:45	29	09:29 (1)	15:56	22 12:23 (43)
5	04:46	05:38	06:42	07:44		07:52		08:59 (1)	08:54	12:01 (43)
	22:30	21:41	20:23	19:00		16:42	29	09:28 (1)	15:55	23 12:24 (43)
6	04:47	05:40	06:44	07:46		07:54		08:59 (1)	08:55	12:00 (43)
	22:30	21:39	20:20	18:58		16:40	30	09:29 (1)	15:54	24 12:24 (43)
7	04:48	05:42	06:46	07:48		07:57		08:59 (1)	08:57	12:00 (43)
	22:29	21:37	20:17	18:55		16:38	30	09:29 (1)	15:53	26 12:26 (43)
8	04:49	05:44	06:48	07:50		07:59		08:59 (1)	08:58	12:00 (43)
	22:28	21:34	20:15	18:52		16:36	31	09:30 (1)	15:53	27 12:27 (43)
9	04:51	05:46	06:50	07:53		08:01		08:59 (1)	09:00	12:00 (43)
	22:27	21:32	20:12	18:50		16:34	30	09:29 (1)	15:52	27 12:27 (43)
10	04:52	05:48	06:52	07:55		08:03		09:00 (1)	09:01	12:00 (43)
	22:26	21:30	20:09	18:47		16:32	30	09:30 (1)	15:52	28 12:28 (43)
11	04:53	05:50	06:54	07:57		08:06		08:59 (1)	09:02	12:00 (43)
	22:25	21:27	20:06	18:44		16:30	30	09:29 (1)	15:51	29 12:29 (43)
12	04:55	05:52	06:56	07:59		08:08		09:00 (1)	09:03	12:01 (43)
	22:23	21:25	20:04	18:42		16:28	29	09:29 (7)	15:51	33 12:38 (2)
13	04:56	05:54	06:58	08:01		08:10		09:01 (1)	09:05	12:01 (43)
	22:22	21:22	20:01	18:39		16:26	28	09:29 (7)	15:51	36 12:40 (2)
14	04:58	05:56	07:01	08:03		08:12		09:02 (1)	09:06	12:01 (43)
	22:21	21:20	19:58	18:36		16:24	28	09:30 (7)	15:51	39 12:41 (2)
15	04:59	05:58	07:03	08:05		08:14		09:02 (1)	09:07	12:01 (43)
	22:20	21:18	19:55	18:34		16:22	28	09:30 (7)	15:51	41 12:42 (2)
16	05:01	06:00	07:05	08:08		08:17		09:04 (1)	09:08	12:02 (43)
	22:18	21:15	19:53	18:31		16:20	26	09:30 (7)	15:51	41 12:43 (2)
17	05:02	06:03	07:07	08:10		08:19		09:04 (1)	09:09	12:02 (43)
	22:17	21:13	19:50	18:28		16:18	26	09:30 (7)	15:51	42 12:44 (2)
18	05:04	06:05	07:09	08:12		08:21		09:05 (1)	09:10	12:02 (43)
	22:15	21:10	19:47	18:26		16:17	25	09:30 (7)	15:51	43 12:45 (2)
19	05:06	06:07	07:11	08:14		08:23		09:07 (1)	09:10	12:03 (43)
	22:14	21:08	19:44	18:23		16:15	23	09:30 (7)	15:51	43 12:46 (2)
20	05:07	06:09	07:13	08:16		08:25		09:08 (7)	09:11	12:03 (43)
	22:12	21:05	19:41	18:21		16:13	22	09:30 (7)	15:51	43 12:46 (2)
21	05:09	06:11	07:15	08:19		08:27		09:10 (7)	09:12	12:04 (43)
	22:11	21:02	19:39	18:18		16:12	20	09:30 (7)	15:52	43 12:47 (2)
22	05:11	06:13	07:17	08:21		08:29		09:10 (7)	09:12	12:04 (43)
	22:09	21:00	19:36	18:16		16:10	20	09:30 (7)	15:52	43 12:47 (2)
23	05:13	06:15	07:19	08:23		08:31		09:11 (7)	09:13	12:05 (43)
	22:07	20:57	19:33	18:13		16:09	18	09:29 (7)	15:53	43 12:48 (2)
24	05:14	06:17	07:21	08:25		08:33		09:13 (7)	09:13	12:05 (43)
	22:05	20:55	19:30	18:11		16:07	16	09:29 (7)	15:53	43 12:48 (2)
25	05:16	06:19	07:23	07:27		08:35		09:15 (7)	09:14	12:05 (43)
	22:03	20:52	19:28	17:08		16:06	13	09:28 (7)	15:54	43 12:48 (2)
26	05:18	06:21	07:25	07:30		08:37		09:17 (7)	09:14	12:06 (43)
	22:02	20:50	19:25	17:06		16:04	10	09:27 (7)	15:55	42 12:48 (2)
27	05:20	06:23	07:27	07:32		08:39		09:19 (7)	09:14	12:06 (43)
	22:00	20:47	19:22	17:03		16:03	7	09:26 (7)	15:56	42 12:48 (2)
28	05:22	06:25	07:29	07:34	09:07 (1)	08:41		09:22 (7)	09:14	12:07 (43)
	21:58	20:44	19:19	17:01	12 09:19 (1)	16:02	4	09:26 (7)	15:57	41 12:48 (2)
29	05:24	06:28	07:31	07:36	09:05 (1)	08:43		12:05 (43)	09:14	12:08 (43)
	21:56	20:42	19:17	16:59	17 09:22 (1)	16:01	10	12:15 (43)	15:57	39 12:48 (2)
30	05:26	06:30	07:34	07:39	09:03 (1)	08:45		12:04 (43)	09:14	12:09 (43)
	21:54	20:39	19:14	16:56	21 09:24 (1)	16:00	13	12:17 (43)	15:59	37 12:48 (2)
31	05:28	06:32		07:41	09:02 (1)				09:14	12:10 (43)
	21:52	20:36		16:54	23 09:25 (1)				16:00	34 12:47 (2)
Potential sun hours	534	472	385	322		244			211	
Total, worst case					73		685			1073
Sun reduction					0.42		0.23			0.23
Oper. time red.					0.94		0.94			0.94
Wind dir. red.					0.57		0.57			0.65
Total reduction					0.23		0.12			0.14
Total, real					16		84			149

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AN - Dimanti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May	June
1	09:14	08:36		07:30		08:02 (41)	07:06	07:54 (42)	05:48	04:49
	16:01	17:00		18:05	24	08:26 (41)	20:12	08:09 (42)	21:17	22:16
2	09:14	08:34		07:27		08:01 (41)	07:03	07:55 (42)	05:45	04:48
	16:03	17:03		18:07	25	08:26 (41)	20:14	08:07 (42)	21:19	22:17
3	09:13	08:32		07:25		08:00 (41)	07:01	07:58 (42)	05:43	04:47
	16:04	17:05		18:09	26	08:26 (41)	20:16	08:02 (42)	21:21	22:19
4	09:13	08:30		07:22		08:01 (41)	06:58		05:41	04:46
	16:05	17:07		18:11	25	08:26 (41)	20:18		21:23	22:20
5	09:12	08:28		07:20		08:01 (41)	06:55		05:38	04:45
	16:07	17:10		18:13	25	08:26 (41)	20:21		21:25	22:21
6	09:12	08:26		07:17		08:00 (41)	06:52		05:36	04:44
	16:08	17:12		18:16	25	08:25 (41)	20:23		21:27	22:23
7	09:11	08:23		07:14		08:01 (41)	06:50		05:34	04:43
	16:10	17:14		18:18	24	08:25 (41)	20:25		21:29	22:24
8	09:10	08:21		07:12		08:02 (41)	06:47		05:32	04:42
	16:11	17:16		18:20	22	08:24 (41)	20:27		21:31	22:25
9	09:10	08:19		07:09		08:02 (41)	06:44		05:29	04:41
	16:13	17:19		18:22	20	08:22 (41)	20:29		21:33	22:26
10	09:09	08:17		07:06		08:03 (41)	06:42		05:27	04:40
	16:15	17:21		18:25	17	08:20 (41)	20:31		21:36	22:27
11	09:08	08:15		07:03		08:06 (41)	06:39		05:25	04:40
	16:16	17:23		18:27	12	08:18 (41)	20:34		21:38	22:28
12	09:07	08:12		07:01		08:10 (41)	06:36		05:23	04:39
	16:18	17:26		18:29	3	08:13 (41)	20:36		21:40	22:29
13	09:06	08:10		06:58			06:34		05:21	04:39
	16:20	17:28		18:31			20:38		21:42	22:30
14	09:05	08:08		06:55			06:31		05:19	04:38
	16:22	17:30		18:33			20:40		21:44	22:31
15	09:04	08:05		06:53			06:28		05:17	04:38
	16:24	17:33		18:35			20:42		21:46	22:31
16	09:02	08:03		06:50			06:26		05:15	04:38
	16:26	17:35		18:38			20:44		21:48	22:32
17	09:01	08:00		06:47			06:23		05:13	04:38
	16:28	17:37		18:40			20:46		21:50	22:32
18	09:00	07:58		06:44			06:20		05:11	04:38
	16:30	17:40		18:42			20:49		21:52	22:33
19	08:58	07:56		06:42			06:18		05:09	04:38
	16:32	17:42		18:44			20:51		21:54	22:33
20	08:57	07:53		06:39			06:15		05:07	04:38
	16:34	17:44		18:46			20:53		21:55	22:34
21	08:55	07:51		06:36		07:02 (42)	06:13		05:05	04:38
	16:36	17:46		18:48	8	07:10 (42)	20:55		21:57	22:34
22	08:54	07:48		06:33		06:59 (42)	06:10		05:04	04:38
	16:38	17:49		18:51	13	07:12 (42)	20:57		21:59	22:34
23	08:52	07:46		06:31		06:56 (42)	06:08		05:02	04:38
	16:40	17:51		18:53	17	07:13 (42)	20:59		22:01	22:34
24	08:51	07:43	08:11 (41)	06:28		06:54 (42)	06:05		05:00	04:38
	16:42	17:53	7 08:18 (41)	18:55	20	07:14 (42)	21:01		22:03	22:34
25	08:49	07:40	08:08 (41)	06:25		06:53 (42)	06:03		04:59	04:39
	16:45	17:56	14 08:22 (41)	18:57	21	07:14 (42)	21:04		22:05	22:34
26	08:47	07:38	08:06 (41)	06:23		06:52 (42)	06:00		04:57	04:39
	16:47	17:58	17 08:23 (41)	18:59	22	07:14 (42)	21:06		22:06	22:34
27	08:45	07:35	08:04 (41)	06:20		06:51 (42)	05:58		04:56	04:40
	16:49	18:00	20 08:24 (41)	19:01	22	07:13 (42)	21:08		22:08	22:34
28	08:44	07:33	08:03 (41)	06:17		06:52 (42)	05:55		04:54	04:40
	16:51	18:02	23 08:26 (41)	19:03	22	07:14 (42)	21:10		22:10	22:34
29	08:42			07:14		07:52 (42)	05:53		04:53	04:41
	16:53			20:06	21	08:13 (42)	21:12		22:11	22:34
30	08:40			07:12		07:52 (42)	05:50		04:51	04:42
	16:56			20:08	20	08:12 (42)	21:14		22:13	22:33
31	08:38			07:09		07:52 (42)			04:50	
	16:58			20:10	18	08:10 (42)			22:14	
Potential sun hours	231	264		366			428		512	534
Total, worst case			81		452			31		
Sun reduction			0.33		0.46			0.55		
Oper. time red.			0.94		0.94			0.94		
Wind dir. red.			0.60		0.61			0.63		
Total reduction			0.19		0.26			0.32		
Total, real			15		119			10		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AN - Dimanti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November	December
1	04:42	05:30	06:34		07:36		07:43	08:47
	22:33	21:50	20:34		19:11		16:52	15:59
2	04:43	05:32	06:36		07:38		08:45 (41)	07:45	08:49
	22:32	21:48	20:31		19:09	10	08:55 (41)	16:49	15:58
3	04:44	05:34	06:38		07:40		08:42 (41)	07:48	08:50
	22:32	21:45	20:28		19:06	15	08:57 (41)	16:47	15:57
4	04:45	05:36	06:40		07:42		08:40 (41)	07:50	08:52
	22:31	21:43	20:26		19:03	19	08:59 (41)	16:45	15:56
5	04:46	05:38	06:42		07:44		08:38 (41)	07:52	08:54
	22:30	21:41	20:23		19:00	21	08:59 (41)	16:43	15:55
6	04:47	05:40	06:44		07:46		08:38 (41)	07:54	08:55
	22:30	21:39	20:20		18:58	23	09:01 (41)	16:40	15:54
7	04:49	05:42	06:46		07:48		08:37 (41)	07:57	08:57
	22:29	21:37	20:17		18:55	24	09:01 (41)	16:38	15:54
8	04:50	05:44	06:48		07:51		08:36 (41)	07:59	08:58
	22:28	21:34	20:15		18:52	25	09:01 (41)	16:36	15:53
9	04:51	05:46	06:50		07:53 (42)		07:53	08:35 (41)	08:01	09:00
	22:27	21:32	20:12	3	07:56 (42)		18:50	26	09:01 (41)	16:34	15:53
10	04:52	05:48	06:52		07:48 (42)		07:55	08:35 (41)	08:03	09:01
	22:26	21:30	20:09	12	08:00 (42)		18:47	25	09:00 (41)	16:32	15:52
11	04:54	05:50	06:55		07:46 (42)		07:57	08:35 (41)	08:06	09:02
	22:25	21:27	20:06	15	08:01 (42)		18:44	25	09:00 (41)	16:30	15:52
12	04:55	05:52	06:57		07:44 (42)		07:59	08:35 (41)	08:08	09:04
	22:24	21:25	20:04	18	08:02 (42)		18:42	25	09:00 (41)	16:28	15:51
13	04:56	05:54	06:59		07:43 (42)		08:01	08:35 (41)	08:10	09:05
	22:22	21:23	20:01	20	08:03 (42)		18:39	24	08:59 (41)	16:26	15:51
14	04:58	05:57	07:01		07:42 (42)		08:03	08:36 (41)	08:12	09:06
	22:21	21:20	19:58	21	08:03 (42)		18:36	21	08:57 (41)	16:24	15:51
15	04:59	05:59	07:03		07:41 (42)		08:06	08:37 (41)	08:14	09:07
	22:20	21:18	19:55	22	08:03 (42)		18:34	20	08:57 (41)	16:22	15:51
16	05:01	06:01	07:05		07:41 (42)		08:08	08:38 (41)	08:17	09:08
	22:18	21:15	19:53	22	08:03 (42)		18:31	17	08:55 (41)	16:20	15:51
17	05:03	06:03	07:07		07:40 (42)		08:10	08:40 (41)	08:19	09:09
	22:17	21:13	19:50	22	08:02 (42)		18:29	12	08:52 (41)	16:19	15:51
18	05:04	06:05	07:09		07:40 (42)		08:12			08:21	09:10
	22:15	21:10	19:47	22	08:02 (42)		18:26			16:17	15:51
19	05:06	06:07	07:11		07:41 (42)		08:14			08:23	09:10
	22:14	21:08	19:44	20	08:01 (42)		18:23			16:15	15:51
20	05:08	06:09	07:13		07:42 (42)		08:16			08:25	09:11
	22:12	21:05	19:42	18	08:00 (42)		18:21			16:14	15:52
21	05:09	06:11	07:15		07:44 (42)		08:19			08:27	09:12
	22:11	21:03	19:39	14	07:58 (42)		18:18			16:12	15:52
22	05:11	06:13	07:17		07:46 (42)		08:21			08:29	09:12
	22:09	21:00	19:36	10	07:56 (42)		18:16			16:10	15:52
23	05:13	06:15	07:19		07:48 (42)		08:23			08:31	09:13
	22:07	20:57	19:33	4	07:52 (42)		18:13			16:09	15:53
24	05:15	06:17	07:21				08:25			08:33	09:13
	22:05	20:55	19:31				18:11			16:07	15:54
25	05:17	06:19	07:23				07:28			08:35	09:14
	22:04	20:52	19:28				17:08			16:06	15:54
26	05:18	06:21	07:25				07:30			08:37	09:14
	22:02	20:50	19:25				17:06			16:05	15:55
27	05:20	06:24	07:27				07:32			08:39	09:14
	22:00	20:47	19:22				17:04			16:03	15:56
28	05:22	06:26	07:30				07:34			08:41	09:14
	21:58	20:44	19:20				17:01			16:02	15:57
29	05:24	06:28	07:32				07:36			08:43	09:14
	21:56	20:42	19:17				16:59			16:01	15:58
30	05:26	06:30	07:34				07:39			08:45	09:14
	21:54	20:39	19:14				16:56			16:00	15:59
31	05:28	06:32					07:41				09:14
	21:52	20:36					16:54				16:00
Potential sun hours	534	472	385		322		244	211
Total, worst case			243		332			
Sun reduction			0.50		0.42			
Oper. time red.			0.94		0.94			
Wind dir. red.			0.63		0.60			
Total reduction			0.29		0.24			
Total, real			71		79			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AO - Dimzas B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:12	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:50
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:50	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:08
	16:25	17:34	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:50
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:35	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	15:51
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:54	21:01	22:03	22:34	22:05	20:54	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:54
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:48	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:41		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AP - Di ž abelnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:13		11:25 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43	08:46		
	16:01	19	11:44 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51	15:58		
2	09:13		11:26 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:35	07:37	07:45	08:48		
	16:02	17	11:43 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57		
3	09:13		11:26 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50		
	16:03	17	11:43 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	15:56		
4	09:12		11:28 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		11:20 (35)
	16:05	15	11:43 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55	1	11:21 (35)
5	09:12		11:29 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		11:17 (35)
	16:06	13	11:42 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	15:55	9	11:26 (35)
6	09:11		11:30 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		11:17 (35)
	16:08	12	11:42 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40	15:54	11	11:28 (35)
7	09:11		11:32 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		11:16 (35)
	16:09	9	11:41 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:53	13	11:29 (35)
8	09:10		11:36 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:58		11:15 (35)
	16:11	2	11:38 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53	15	11:30 (35)
9	09:09			08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		11:15 (35)
	16:12			17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34	15:52	17	11:32 (35)
10	09:08			08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		11:15 (35)
	16:14			17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52	17	11:32 (35)
11	09:07			08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		11:15 (35)
	16:16			17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51	19	11:34 (35)
12	09:06			08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07	09:03		11:15 (35)
	16:18			17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51	19	11:34 (35)
13	09:05			08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		11:15 (35)
	16:20			17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51	20	11:35 (35)
14	09:04			08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05		11:16 (35)
	16:21			17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:50	20	11:36 (35)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		11:16 (35)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	21	11:37 (35)
16	09:02			08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07		11:16 (35)
	16:25			17:34	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50	21	11:37 (35)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08		11:16 (35)
	16:27			17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50	22	11:38 (35)
18	08:59			07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:09		11:17 (35)
	16:29			17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51	22	11:39 (35)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23	09:10		11:17 (35)
	16:31			17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51	21	11:38 (35)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		11:17 (35)
	16:33			17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51	22	11:39 (35)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:11		11:18 (35)
	16:35			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	15:52	22	11:40 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29	09:12		11:18 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52	22	11:40 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31	09:12		11:18 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:52	22	11:40 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		11:19 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53	22	11:41 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	08:27	08:35	09:13		11:20 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54	22	11:42 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13		11:20 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:55	22	11:42 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		11:21 (35)
	16:48			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:55	21	11:42 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		11:22 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	15:56	20	11:42 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14		11:22 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57	21	11:43 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		11:23 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	15:58	20	11:43 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41		09:14		11:23 (35)
	16:58				20:09		22:14		21:51	20:36		16:54		15:59	20	11:43 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		104													524	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.61													0.61	
Total reduction		0.16													0.13	
Total, real		16													68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AQ - Di ž graveri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:19	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:11	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AR - Di ž pulki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:06	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:23	21:27	22:23	22:30	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	09:00
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:05	08:08	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19	09:09
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:04	07:09	08:12	08:21	09:10
	16:29	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10
	16:31	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:58	16:01	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:39	08:45	09:14
	16:55		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AS - Diknieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:19	09:09
	16:27	17:37	18:39	20:46	21:50	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:10
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:41	19:17	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AT - Doni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:13		10:13 (34)	08:36		09:34 (33)	07:30		08:02 (36)	07:06		08:29 (35)	05:47	04:49
	16:01	21	10:34 (34)	17:00	97	15:50 (11)	18:04	45	15:36 (10)	20:12	57	19:09 (9)	21:16	22:15
2	09:13		10:13 (34)	08:34		09:35 (33)	07:27		08:01 (36)	07:03		08:31 (35)	05:45	04:47
	16:02	21	10:34 (34)	17:02	95	15:50 (11)	18:06	38	15:32 (10)	20:14	52	19:09 (9)	21:18	22:17
3	09:13		10:12 (34)	08:32		09:36 (33)	07:24		08:01 (36)	07:00		08:34 (35)	05:43	04:46
	16:04	23	10:35 (34)	17:04	92	15:50 (11)	18:09	23	08:24 (36)	20:16	44	19:08 (9)	21:20	22:18
4	09:12		10:13 (34)	08:29		09:36 (33)	07:22		08:00 (36)	06:57		18:35 (9)	05:40	04:45
	16:05	23	10:36 (34)	17:07	86	15:49 (11)	18:11	24	08:24 (36)	20:18	32	19:07 (9)	21:23	22:20
5	09:12		10:13 (34)	08:27		09:38 (33)	07:19		08:01 (36)	06:55		18:35 (9)	05:38	04:44
	16:06	24	10:37 (34)	17:09	81	15:49 (11)	18:13	23	08:24 (36)	20:20	30	19:05 (9)	21:25	22:21
6	09:11		10:12 (34)	08:25		09:40 (33)	07:17		08:01 (36)	06:52		18:37 (9)	05:36	04:43
	16:08	26	10:38 (34)	17:11	71	15:49 (11)	18:15	22	08:23 (36)	20:22	28	19:05 (9)	21:27	22:22
7	09:11		10:12 (34)	08:23		09:43 (33)	07:14		08:01 (36)	06:49		18:38 (9)	05:33	04:42
	16:09	27	10:39 (34)	17:14	54	15:48 (10)	18:18	21	08:22 (36)	20:25	25	19:03 (9)	21:29	22:23
8	09:10		10:12 (34)	08:21		15:00 (10)	07:11		08:01 (36)	06:47		18:39 (9)	05:31	04:42
	16:11	28	10:40 (34)	17:16	49	15:49 (10)	18:20	20	08:21 (36)	20:27	21	19:00 (9)	21:31	22:25
9	09:09		10:12 (34)	08:19		14:59 (10)	07:08		08:03 (36)	06:44		18:42 (9)	05:29	04:41
	16:13	29	10:41 (34)	17:18	50	15:49 (10)	18:22	17	08:20 (36)	20:29	16	18:58 (9)	21:33	22:26
10	09:08		10:12 (34)	08:16		14:59 (10)	07:06		08:05 (36)	06:41		18:45 (9)	05:27	04:40
	16:14	30	10:42 (34)	17:21	51	15:50 (10)	18:24	12	08:17 (36)	20:31	9	18:54 (9)	21:35	22:27
11	09:07		10:12 (34)	08:14		15:00 (10)	07:03		08:08 (36)	06:39			05:25	04:39
	16:16	30	10:42 (34)	17:23	51	15:51 (10)	18:26	5	08:13 (36)	20:33			21:37	22:28
12	09:06		10:12 (34)	08:12		14:59 (10)	07:00		07:39 (35)	06:36			05:23	04:39
	16:18	31	10:43 (34)	17:25	51	15:50 (10)	18:29	14	07:53 (35)	20:35			21:39	22:29
13	09:05		10:12 (34)	08:10		15:00 (10)	06:58		07:37 (35)	06:33			05:20	04:38
	16:20	32	10:44 (34)	17:28	51	15:51 (10)	18:31	20	07:57 (35)	20:37			21:41	22:29
14	09:04		10:12 (34)	08:07		14:59 (10)	06:55		07:34 (35)	06:31			05:18	04:38
	16:22	32	10:44 (34)	17:30	52	15:51 (10)	18:33	24	07:58 (35)	20:40			21:43	22:30
15	09:03		10:12 (34)	08:05		14:59 (10)	06:52		07:32 (35)	06:28			05:16	04:38
	16:23	40	15:34 (11)	17:32	51	15:50 (10)	18:35	35	18:06 (8)	20:42			21:45	22:31
16	09:02		09:38 (33)	08:02		14:59 (10)	06:50		07:30 (35)	06:25			05:14	04:37
	16:25	53	15:36 (11)	17:35	51	15:50 (10)	18:37	44	18:08 (8)	20:44			21:47	22:31
17	09:01		09:37 (33)	08:00		14:59 (10)	06:47		07:30 (35)	06:23			05:12	04:37
	16:27	60	15:39 (11)	17:37	51	15:50 (10)	18:39	50	18:11 (8)	20:46			21:49	22:32
18	08:59		09:35 (33)	07:58		15:00 (10)	06:44		07:28 (35)	06:20			05:11	04:37
	16:29	67	15:40 (11)	17:39	50	15:50 (10)	18:42	53	18:11 (8)	20:48			21:51	22:33
19	08:58		09:34 (33)	07:55		15:00 (10)	06:41		07:27 (35)	06:17			05:09	04:37
	16:31	72	15:42 (11)	17:41	49	15:49 (10)	18:44	58	18:12 (8)	20:50			21:53	22:33
20	08:56		09:34 (33)	07:53		15:01 (10)	06:39		07:26 (35)	06:15			05:07	04:37
	16:33	75	15:44 (11)	17:44	48	15:49 (10)	18:46	63	18:12 (8)	20:52			21:55	22:33
21	08:55		09:34 (33)	07:50		15:01 (10)	06:36		07:25 (35)	06:12			05:05	04:37
	16:36	78	15:44 (11)	17:46	47	15:48 (10)	18:48	65	18:11 (8)	20:55			21:57	22:34
22	08:53		09:33 (33)	07:48		15:02 (10)	06:33		07:26 (35)	06:10			05:03	04:37
	16:38	82	15:45 (11)	17:48	45	15:47 (10)	18:50	66	18:12 (8)	20:57			21:59	22:34
23	08:52		09:33 (33)	07:45		15:03 (10)	06:30		07:25 (35)	06:07			05:02	04:38
	16:40	84	15:46 (11)	17:51	44	15:47 (10)	18:52	68	18:11 (8)	20:59			22:01	22:34
24	08:50		09:32 (33)	07:43		08:11 (36)	06:28		07:25 (35)	06:05			05:00	04:38
	16:42	86	15:47 (11)	17:53	46	15:45 (10)	18:54	68	18:10 (9)	21:01			22:02	22:34
25	08:49		09:32 (33)	07:40		08:07 (36)	06:25		07:24 (35)	06:02			04:58	04:38
	16:44	93	15:48 (11)	17:55	52	15:44 (10)	18:57	69	18:10 (9)	21:03			22:04	22:34
26	08:47		09:32 (33)	07:37		08:06 (36)	06:22		07:25 (35)	06:00			04:57	04:39
	16:46	95	15:48 (11)	17:57	52	15:43 (10)	18:59	69	18:11 (9)	21:05			22:06	22:34
27	08:45		09:32 (33)	07:35		08:04 (36)	06:19		07:25 (35)	05:57			04:55	04:39
	16:49	98	15:49 (11)	18:00	52	15:41 (10)	19:01	69	18:11 (9)	21:08			22:08	22:34
28	08:43		09:33 (33)	07:32		08:02 (36)	06:17		07:25 (35)	05:55			04:54	04:40
	16:51	97	15:49 (11)	18:02	49	15:38 (10)	19:03	69	18:11 (9)	21:10			22:09	22:33
29	08:41		09:33 (33)				07:14		08:25 (35)	05:52			04:52	04:41
	16:53	100	15:50 (11)				20:05	68	19:11 (9)	21:12			22:11	22:33
30	08:39		09:34 (33)				07:11		08:27 (35)	05:50			04:51	04:41
	16:55	99	15:50 (11)				20:07	65	19:11 (9)	21:14			22:12	22:33
31	08:38		09:33 (33)				07:08		08:28 (35)				04:50	
	16:58	98	15:50 (11)				20:09	61	19:10 (9)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		1754			1618			1348			314			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.62			0.67			0.62			0.64			
Total reduction		0.16			0.21			0.27			0.33			
Total, real		282			338			360			102			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AT - Doni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September			October			November			December		
1	04:42		05:30		06:34			07:35			08:17 (35)	07:43		14:29 (10)	08:46		09:54 (34)
	22:32		21:49		20:33			19:11	17		08:34 (35)	16:51	50	15:19 (10)	15:58	30	10:24 (34)
2	04:43		05:32		06:36		18:44 (9)	07:38			08:22 (35)	07:45		14:29 (10)	08:48		09:55 (34)
	22:32		21:47		20:31	9	18:53 (9)	19:08	8		08:30 (35)	16:49	50	15:19 (10)	15:57	29	10:24 (34)
3	04:44		05:34		06:38		18:40 (9)	07:40			08:44 (36)	07:47		14:30 (10)	08:50		09:55 (34)
	22:31		21:45		20:28	16	18:56 (9)	19:05	10		08:54 (36)	16:47	49	15:19 (10)	15:56	29	10:24 (34)
4	04:45		05:36		06:40		18:37 (9)	07:42			08:41 (36)	07:50		09:12 (33)	08:52		09:56 (34)
	22:31		21:43		20:25	21	18:58 (9)	19:03	15		08:56 (36)	16:44	56	15:18 (10)	15:56	28	10:24 (34)
5	04:46		05:38		06:42		18:35 (9)	07:44			08:39 (36)	07:52		09:10 (33)	08:53		09:57 (34)
	22:30		21:41		20:22	25	19:00 (9)	19:00	18		08:57 (36)	16:42	71	15:18 (11)	15:55	27	10:24 (34)
6	04:47		05:40		06:44		18:33 (9)	07:46			08:38 (36)	07:54		09:08 (33)	08:55		09:59 (34)
	22:29		21:38		20:20	28	19:01 (9)	18:57	20		08:58 (36)	16:40	81	15:19 (11)	15:54	25	10:24 (34)
7	04:48		05:42		06:46		18:32 (9)	07:48			08:36 (36)	07:56		09:07 (33)	08:56		10:00 (34)
	22:28		21:36		20:17	30	19:02 (9)	18:55	22		08:58 (36)	16:38	88	15:20 (11)	15:53	24	10:24 (34)
8	04:49		05:44		06:48		18:30 (9)	07:50			08:36 (36)	07:58		09:06 (33)	08:58		10:00 (34)
	22:27		21:34		20:14	32	19:02 (9)	18:52	23		08:59 (36)	16:36	90	15:20 (11)	15:53	24	10:24 (34)
9	04:51		05:46		06:50		08:29 (35)	07:52			08:36 (36)	08:01		09:06 (33)	08:59		10:01 (34)
	22:26		21:32		20:12	42	19:02 (9)	18:49	23		08:59 (36)	16:34	95	15:21 (11)	15:52	23	10:24 (34)
10	04:52		05:48		06:52		08:25 (35)	07:54			08:35 (36)	08:03		09:05 (33)	09:01		10:02 (34)
	22:25		21:29		20:09	52	19:03 (9)	18:47	24		08:59 (36)	16:32	97	15:21 (11)	15:52	21	10:23 (34)
11	04:53		05:50		06:54		08:21 (35)	07:57			08:35 (36)	08:05		09:05 (33)	09:02		10:03 (34)
	22:24		21:27		20:06	58	19:02 (9)	18:44	27		16:00 (10)	16:30	99	15:21 (11)	15:51	21	10:24 (34)
12	04:55		05:52		06:56		08:19 (35)	07:59			08:35 (36)	08:07		09:04 (33)	09:03		10:04 (34)
	22:23		21:25		20:03	62	19:02 (9)	18:41	42		16:08 (10)	16:28	101	15:21 (11)	15:51	19	10:23 (34)
13	04:56		05:54		06:58		08:17 (35)	08:01			08:35 (36)	08:10		09:05 (33)	09:04		10:05 (34)
	22:22		21:22		20:01	65	19:01 (9)	18:39	47		16:10 (10)	16:26	100	15:22 (11)	15:51	18	10:23 (34)
14	04:58		05:56		07:00		08:16 (35)	08:03			08:36 (36)	08:12		09:05 (33)	09:05		10:06 (34)
	22:21		21:20		19:58	67	19:01 (9)	18:36	50		16:12 (10)	16:24	97	15:21 (11)	15:51	18	10:24 (34)
15	04:59		05:58		07:02		08:15 (35)	08:05			08:36 (36)	08:14		09:05 (33)	09:06		10:07 (34)
	22:19		21:17		19:55	68	19:00 (9)	18:33	52		16:14 (10)	16:22	98	15:22 (11)	15:51	17	10:24 (34)
16	05:01		06:00		07:04		08:14 (35)	08:07			08:38 (36)	08:16		09:05 (33)	09:07		10:08 (34)
	22:18		21:15		19:52	69	19:00 (9)	18:31	53		16:16 (10)	16:20	94	15:21 (11)	15:51	16	10:24 (34)
17	05:02		06:02		07:06		08:14 (35)	08:10			08:40 (36)	08:18		09:06 (33)	09:08		10:09 (34)
	22:16		21:12		19:50	70	19:00 (9)	18:28	51		16:16 (10)	16:18	92	15:22 (11)	15:51	15	10:24 (34)
18	05:04		06:04		07:08		08:13 (35)	08:12			15:35 (10)	08:20		09:06 (33)	09:09		10:09 (34)
	22:15		21:10		19:47	70	18:59 (9)	18:26	42		16:17 (10)	16:17	86	15:21 (11)	15:51	14	10:23 (34)
19	05:06		06:07		07:11		08:12 (35)	08:14			15:34 (10)	08:23		09:07 (33)	09:10		10:10 (34)
	22:13		21:07		19:44	69	18:58 (9)	18:23	44		16:18 (10)	16:15	84	15:20 (11)	15:51	14	10:24 (34)
20	05:07		06:09		07:13		08:12 (35)	08:16			15:33 (10)	08:25		09:08 (33)	09:11		10:11 (34)
	22:12		21:05		19:41	68	18:58 (8)	18:20	46		16:19 (10)	16:13	82	15:20 (11)	15:51	13	10:24 (34)
21	05:09		06:11		07:15		08:11 (35)	08:18			15:31 (10)	08:27		09:09 (33)	09:11		10:11 (34)
	22:10		21:02		19:38	68	18:58 (8)	18:18	48		16:19 (10)	16:12	79	15:20 (11)	15:52	13	10:24 (34)
22	05:11		06:13		07:17		08:11 (35)	08:20			15:31 (10)	08:29		09:10 (33)	09:12		10:12 (34)
	22:08		21:00		19:36	66	18:57 (8)	18:15	49		16:20 (10)	16:10	75	15:20 (11)	15:52	13	10:25 (34)
23	05:13		06:15		07:19		08:11 (35)	08:23			15:30 (10)	08:31		09:11 (33)	09:12		10:12 (34)
	22:07		20:57		19:33	64	18:57 (8)	18:13	50		16:20 (10)	16:08	72	15:19 (11)	15:53	13	10:25 (34)
24	05:14		06:17		07:21		08:11 (35)	08:25			15:29 (10)	08:33		09:12 (33)	09:13		10:13 (34)
	22:05		20:54		19:30	59	18:56 (8)	18:10	50		16:19 (10)	16:07	66	15:17 (11)	15:53	13	10:26 (34)
25	05:16		06:19		07:23		08:11 (35)	07:27			14:29 (10)	08:35		09:15 (33)	09:13		10:13 (34)
	22:03		20:52		19:27	55	18:55 (8)	17:08	51		15:20 (10)	16:06	60	15:17 (11)	15:54	14	10:27 (34)
26	05:18		06:21		07:25		08:11 (35)	07:29			14:29 (10)	08:37		09:17 (33)	09:13		10:13 (34)
	22:01		20:49		19:25	51	18:53 (8)	17:06	51		15:20 (10)	16:04	54	15:16 (11)	15:55	15	10:28 (34)
27	05:20		06:23		07:27		08:12 (35)	07:32			14:29 (10)	08:39		09:51 (34)	09:14		10:13 (34)
	21:59		20:47		19:22	45	18:51 (8)	17:03	51		15:20 (10)	16:03	40	15:13 (11)	15:55	15	10:28 (34)
28	05:22		06:25		07:29		08:12 (35)	07:34			14:29 (10)	08:41		09:52 (34)	09:14		10:13 (34)
	21:57		20:44		19:19	40	18:48 (8)	17:01	51		15:20 (10)	16:02	32	10:24 (34)	15:56	16	10:29 (34)
29	05:24		06:27		07:31		08:13 (35)	07:36			14:29 (10)	08:43		09:52 (34)	09:14		10:13 (34)
	21:55		20:41		19:16	26	08:39 (35)	16:58	51		15:20 (10)	16:01	32	10:24 (34)	15:57	17	10:30 (34)
30	05:26		06:29		07:33		08:15 (35)	07:38			14:29 (10)	08:45		09:53 (34)	09:14		10:12 (34)
	21:53		20:39		19:14	22	08:37 (35)	16:56	51		15:20 (10)	15:59	31	10:24 (34)	15:58	19	10:31 (34)
31	05:28		06:31					07:41			14:28 (10)				09:14		10:13 (34)
	21:51		20:36					16:54	51		15:19 (10)				15:59	19	10:32 (34)
Potential sun hours	534		472		385			322			244			211			
Total, worst case						1417			1188			2201				592	
Sun reduction						0.50			0.42			0.23				0.23	
Oper. time red.						0.94			0.94			0.94				0.94	
Wind dir. red.						0.63			0.66			0.64				0.60	
Total reduction						0.29			0.26			0.14				0.13	
Total, real						414			312			302				76	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AU - Druvas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:35 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	08:05 (42)	07:43	08:47
	16:01	17:00	18:05	8 08:43 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	14 08:19 (42)	16:52	15:59
2	09:14	08:34	07:27		07:03	05:45	04:48	04:43	05:32	06:36	07:38	08:07 (42)	07:45	08:49
	16:03	17:03	18:07		20:14	21:19	22:17	22:32	21:48	20:31	19:09	9 08:16 (42)	16:49	15:58
3	09:13	08:32	07:25		07:01	05:43	04:47	04:44	05:34	06:38	07:40	08:09 (42)	07:48	08:50
	16:04	17:05	18:09		20:16	21:21	22:19	22:32	21:45	20:28	19:06	4 08:13 (42)	16:47	15:57
4	09:13	08:30	07:22		06:58	05:41	04:46	04:45	05:36	06:40	07:42		07:50	08:52
	16:05	17:07	18:11		20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	15:56
5	09:12	08:28	07:20		06:55	05:38	04:45	04:46	05:38	06:42	07:44		07:52	08:54
	16:07	17:09	18:13		20:21	21:25	22:21	22:30	21:41	20:23	19:00		16:43	15:55
6	09:12	08:26	07:17		06:52	05:36	04:44	04:47	05:40	06:44	07:46		07:54	08:55
	16:08	17:12	18:16		20:23	21:27	22:23	22:30	21:39	20:20	18:58		16:40	15:54
7	09:11	08:23	07:14		06:50	05:34	04:43	04:48	05:42	06:46	07:48		07:57	08:57
	16:10	17:14	18:18		20:25	21:29	22:24	22:29	21:37	20:17	18:55		16:38	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59	08:58
	16:11	17:16	18:20		20:27	21:31	22:25	22:28	21:34	20:15	18:52		16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53		08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50		16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55		08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47		16:32	15:52
11	09:08	08:15	07:03	07:30 (42)	06:39	05:25	04:40	04:54	05:50	06:55	07:57		08:06	09:02
	16:16	17:23	18:27	7 07:37 (42)	20:34	21:38	22:28	22:25	21:27	20:06	18:44		16:30	15:52
12	09:07	08:12	07:01	07:27 (42)	06:36	05:23	04:39	04:55	05:52	06:57	07:59		08:08	09:04
	16:18	17:26	18:29	12 07:39 (42)	20:36	21:40	22:29	22:24	21:25	20:04	18:42		16:28	15:51
13	09:06	08:10	06:58	07:24 (42)	06:34	05:21	04:39	04:56	05:54	06:59	08:01	09:06 (41)	08:10	09:05
	16:20	17:28	18:31	16 07:40 (42)	20:38	21:42	22:30	22:22	21:23	20:01	18:39	12 09:18 (41)	16:26	15:51
14	09:05	08:08	06:55	07:21 (42)	06:31	05:19	04:38	04:58	05:57	07:01	08:03	09:04 (41)	08:12	09:06
	16:22	17:30	9 08:45 (41)	18:33 19 07:40 (42)	20:40	21:44	22:31	22:21	21:20	19:58	18:36	15 09:19 (41)	16:24	15:51
15	09:04	08:05	08:34 (41)	06:53 07:20 (42)	06:28	05:17	04:38	04:59	05:59	07:03	08:06	09:03 (41)	08:14	09:07
	16:24	17:33	14 08:48 (41)	18:35 20 07:40 (42)	20:42	21:46	22:31	22:20	21:18	19:55	18:34	18 09:21 (41)	16:22	15:51
16	09:02	08:03	08:31 (41)	06:50 07:20 (42)	06:26	05:15	04:38	05:01	06:01	07:05	08:08	09:01 (41)	08:17	09:08
	16:26	17:35	18 08:49 (41)	18:38 21 07:41 (42)	20:44	21:48	22:32	22:18	21:15	19:53	18:31	21 09:22 (41)	16:20	15:51
17	09:01	08:00	08:30 (41)	06:47 07:19 (42)	06:23	05:13	04:38	05:03	06:03	07:07	08:10	09:00 (41)	08:19	09:09
	16:28	17:37	21 08:51 (41)	18:40 22 07:41 (42)	20:46	21:50	22:32	22:17	21:13	19:50	18:29	22 09:22 (41)	16:19	15:51
18	09:00	07:58	08:29 (41)	06:44 07:19 (42)	06:20	05:11	04:38	05:04	06:05	07:09	08:12	09:00 (41)	08:21	09:10
	16:30	17:40	22 08:51 (41)	18:42 21 07:40 (42)	20:49	21:52	22:33	22:15	21:10	19:47	18:26	23 09:23 (41)	16:17	15:51
19	08:58	07:56	08:29 (41)	06:42 07:18 (42)	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:59 (41)	08:23	09:10
	16:32	17:42	23 08:52 (41)	18:44 21 07:39 (42)	20:51	21:54	22:33	22:14	21:08	19:44	18:23	24 09:23 (41)	16:15	15:51
20	08:57	07:53	08:28 (41)	06:39 07:20 (42)	06:15	05:07	04:38	05:08	06:09	07:13	08:09 (42)	08:16	08:58 (41)	08:25	09:11
	16:34	17:44	24 08:52 (41)	18:46 19 07:39 (42)	20:53	21:55	22:34	22:12	21:05	19:42	10 08:19 (42)	18:21	25 09:23 (41)	16:14	15:52
21	08:55	07:51	08:28 (41)	06:36 07:20 (42)	06:13	05:05	04:38	05:09	06:11	07:15	08:07 (42)	08:19	08:59 (41)	08:27	09:12
	16:36	17:46	24 08:52 (41)	18:48 18 07:38 (42)	20:55	21:57	22:34	22:11	21:03	19:39	14 08:21 (42)	18:18	24 09:23 (41)	16:12	15:52
22	08:54	07:48	08:28 (41)	06:33 07:21 (42)	06:10	05:04	04:38	05:11	06:13	07:17	08:05 (42)	08:21	08:59 (41)	08:29	09:12
	16:38	17:49	24 08:52 (41)	18:51 15 07:36 (42)	20:57	21:59	22:34	22:09	21:00	19:36	17 08:22 (42)	18:16	23 09:22 (41)	16:10	15:52
23	08:52	07:46	08:28 (41)	06:31 07:22 (42)	06:08	05:02	04:38	05:13	06:15	07:19	08:03 (42)	08:23	08:59 (41)	08:31	09:13
	16:40	17:51	24 08:52 (41)	18:53 11 07:33 (42)	20:59	22:01	22:34	22:07	20:57	19:33	20 08:23 (42)	18:13	22 09:21 (41)	16:09	15:53
24	08:51	07:43	08:28 (41)	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:02 (42)	08:25	09:00 (41)	08:33	09:13
	16:42	17:53	23 08:51 (41)	18:55	21:02	22:03	22:34	22:05	20:55	19:31	21 08:23 (42)	18:11	21 09:21 (41)	16:07	15:54
25	08:49	07:40	08:29 (41)	06:25	06:02	04:59	04:39	05:17	06:19	07:23	08:02 (42)	07:28	08:00 (41)	08:35	09:14
	16:45	17:56	22 08:51 (41)	18:57	21:04	22:05	22:34	22:04	20:52	19:28	21 08:23 (42)	17:08	20 08:20 (41)	16:06	15:54
26	08:47	07:38	08:29 (41)	06:23	06:00	04:57	04:39	05:18	06:21	07:25	08:01 (42)	07:30	08:02 (41)	08:37	09:14
	16:47	17:58	20 08:49 (41)	18:59	21:06	22:06	22:34	22:02	20:50	19:25	22 08:23 (42)	17:06	17 08:19 (41)	16:05	15:55
27	08:45	07:35	08:30 (41)	06:20	05:58	04:56	04:40	05:20	06:24	07:27	08:01 (42)	07:32	08:04 (41)	08:39	09:14
	16:49	18:00	18 08:48 (41)	19:01	21:08	22:08	22:34	22:00	20:47	19:22	21 08:22 (42)	17:03	13 08:17 (41)	16:03	15:56
28	08:44	07:33	08:32 (41)	06:17	05:55	04:54	04:40	05:22	06:26	07:30	08:01 (42)	07:34	08:06 (41)	08:41	09:14
	16:51	18:02	15 08:47 (41)	19:03	21:10	22:10	22:34	21:58	20:44	19:20	21 08:22 (42)	17:01	8 08:14 (41)	16:02	15:57
29	08:42			07:14	05:53	04:53	04:41	05:24	06:28	07:32	08:01 (42)	07:36		08:43	09:14
	16:53			20:06	21:12	22:11	22:34	21:56	20:42	19:17	21 08:22 (42)	16:59		16:01	15:58
30	08:40			07:12	05:50	04:51	04:42	05:26	06:30	07:34	08:03 (42)	07:39		08:45	09:14
	16:56			20:08	21:14	22:13	22:33	21:54	20:39	19:14	17 08:20 (42)	16:56		16:00	15:59
31	08:38			07:09		04:50		05:28	06:32			07:41			09:14
	16:58			20:10		22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385		322		244	211
Total, worst case		301		230						205		335			
Sun reduction		0.33		0.46						0.50		0.42			
Oper. time red.		0.94		0.94						0.94		0.94			
Wind dir. red.		0.60		0.61						0.61		0.60			
Total reduction		0.19		0.26						0.28		0.24			
Total, real		56		60						58		80			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AV - Duli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:28	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:49	07:57	08:56
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:51	05:47	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:53
11	09:08	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:34	21:37	22:28	22:24	21:27	20:06	18:45	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:25	15:51
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:51	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:04	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AW - Dunkuri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September	October		November	December
1	09:14	08:36		07:30	08:36 (29)	07:06	05:48	04:49	04:43	05:30	06:34	07:36		07:43	08:47
	16:02	17:01		18:05	1 08:37 (29)	20:12	21:16	22:16	22:32	21:50	20:34	19:11		16:52	15:59
2	09:13	08:34		07:27		07:03	05:46	04:48	04:44	05:32	06:36	07:38		07:45	08:48
	16:03	17:03		18:07		20:14	21:19	22:17	22:32	21:47	20:31	19:09		16:50	15:58
3	09:13	08:32		07:25		07:01	05:43	04:47	04:45	05:34	06:38	07:40		07:48	08:50
	16:04	17:05		18:09		20:16	21:21	22:18	22:31	21:45	20:28	19:06		16:47	15:57
4	09:12	08:30		07:22		06:58	05:41	04:46	04:46	05:36	06:40	07:42		07:50	08:52
	16:06	17:07		18:11		20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	15:56
5	09:12	08:28		07:20		06:55	05:39	04:45	04:47	05:38	06:42	07:44		07:52	08:53
	16:07	17:10		18:14		20:21	21:25	22:21	22:30	21:41	20:23	19:01		16:43	15:55
6	09:11	08:26		07:17		06:53	05:36	04:44	04:48	05:40	06:44	07:46		07:54	08:55
	16:09	17:12		18:16		20:23	21:27	22:22	22:29	21:39	20:20	18:58		16:41	15:55
7	09:11	08:23		07:14		06:50	05:34	04:43	04:49	05:42	06:46	07:48		07:57	08:56
	16:10	17:14		18:18		20:25	21:29	22:24	22:28	21:36	20:17	18:55		16:39	15:54
8	09:10	08:21		07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59	08:58
	16:12	17:17		18:20		20:27	21:31	22:25	22:27	21:34	20:15	18:52		16:36	15:54
9	09:09	08:19		07:09		06:44	05:30	04:42	04:51	05:47	06:51	07:53		08:01	08:59
	16:13	17:19		18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50		16:34	15:53
10	09:08	08:17		07:06		06:42	05:28	04:41	04:53	05:49	06:53	07:55		08:03	09:01
	16:15	17:21		18:25		20:31	21:35	22:27	22:25	21:30	20:09	18:47		16:32	15:53
11	09:08	08:14		07:04		06:39	05:25	04:40	04:54	05:51	06:55	07:57		08:05	09:02
	16:17	17:24		18:27		20:33	21:37	22:28	22:24	21:27	20:06	18:44		16:30	15:52
12	09:07	08:12		07:01		06:36	05:23	04:40	04:55	05:53	06:57	07:59		08:08	09:03
	16:19	17:26		18:29		20:36	21:39	22:29	22:23	21:25	20:04	18:42		16:28	15:52
13	09:06	08:10		06:58		06:34	05:21	04:39	04:57	05:55	06:59	08:01	09:06 (29)	08:10	09:04
	16:20	17:28		18:31		20:38	21:41	22:29	22:22	21:22	20:01	18:39	7 09:13 (29)	16:26	15:52
14	09:04	08:07	08:36 (29)	06:55		06:31	05:19	04:39	04:58	05:57	07:01	08:03	09:02 (29)	08:12	09:06
	16:22	17:31	4 08:40 (29)	18:33		20:40	21:44	22:30	22:21	21:20	19:58	18:37	13 09:15 (29)	16:24	15:51
15	09:03	08:05	08:34 (29)	06:53		06:28	05:17	04:39	05:00	05:59	07:03	08:06	09:01 (29)	08:14	09:07
	16:24	17:33	10 08:44 (29)	18:36		20:42	21:46	22:31	22:19	21:18	19:55	18:34	17 09:18 (29)	16:23	15:51
16	09:02	08:03	08:31 (29)	06:50		06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:59 (29)	08:16	09:08
	16:26	17:35	14 08:45 (29)	18:38		20:44	21:47	22:32	22:18	21:15	19:53	18:31	19 09:18 (29)	16:21	15:51
17	09:01	08:00	08:29 (29)	06:47		06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:58 (29)	08:19	09:08
	16:28	17:37	18 08:47 (29)	18:40		20:46	21:49	22:32	22:17	21:13	19:50	18:29	21 09:19 (29)	16:19	15:51
18	08:59	07:58	08:28 (29)	06:45		06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:58 (29)	08:21	09:09
	16:30	17:40	20 08:48 (29)	18:42		20:48	21:51	22:33	22:15	21:10	19:47	18:26	22 09:20 (29)	16:17	15:52
19	08:58	07:55	08:27 (29)	06:42		06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:57 (29)	08:23	09:10
	16:32	17:42	21 08:48 (29)	18:44		20:51	21:53	22:33	22:14	21:08	19:44	18:24	23 09:20 (29)	16:16	15:52
20	08:57	07:53	08:27 (29)	06:39		06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:57 (29)	08:25	09:11
	16:34	17:44	22 08:49 (29)	18:46		20:53	21:55	22:33	22:12	21:05	19:42	18:21	22 09:19 (29)	16:14	15:52
21	08:55	07:50	08:26 (29)	06:36		06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:57 (29)	08:27	09:11
	16:36	17:47	22 08:48 (29)	18:48		20:55	21:57	22:34	22:10	21:02	19:39	18:19	23 09:20 (29)	16:12	15:52
22	08:54	07:48	08:26 (29)	06:34		06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:57 (29)	08:29	09:12
	16:38	17:49	23 08:49 (29)	18:51		20:57	21:59	22:34	22:09	21:00	19:36	18:16	22 09:19 (29)	16:11	15:53
23	08:52	07:45	08:26 (29)	06:31		06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:57 (29)	08:31	09:13
	16:41	17:51	22 08:48 (29)	18:53		20:59	22:01	22:34	22:07	20:57	19:33	18:14	21 09:18 (29)	16:09	15:53
24	08:50	07:43	08:26 (29)	06:28		06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:58 (29)	08:33	09:13
	16:43	17:53	21 08:47 (29)	18:55		21:01	22:03	22:34	22:05	20:55	19:31	18:11	20 09:18 (29)	16:08	15:54
25	08:49	07:40	08:27 (29)	06:25		06:03	04:59	04:39	05:17	06:20	07:23	07:27	07:59 (29)	08:35	09:13
	16:45	17:56	20 08:47 (29)	18:57		21:04	22:04	22:34	22:03	20:52	19:28	17:09	17 08:16 (29)	16:06	15:55
26	08:47	07:38	08:28 (29)	06:23		06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:01 (29)	08:37	09:14
	16:47	17:58	18 08:46 (29)	18:59		21:06	22:06	22:34	22:01	20:50	19:25	17:06	13 08:14 (29)	16:05	15:55
27	08:45	07:35	08:29 (29)	06:20		05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:04 (29)	08:39	09:14
	16:49	18:00	15 08:44 (29)	19:01		21:08	22:08	22:34	22:00	20:47	19:22	17:04	9 08:13 (29)	16:04	15:56
28	08:43	07:33	08:31 (29)	06:17		05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:06 (29)	08:41	09:14
	16:52	18:02	11 08:42 (29)	19:03		21:10	22:09	22:34	21:58	20:44	19:20	17:01	2 08:08 (29)	16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	07:36		08:43	09:14
	16:54			20:06		21:12	22:11	22:33	21:56	20:42	19:17	16:59		16:01	15:58
30	08:40			07:12		05:50	04:52	04:42	05:26	06:30	07:34	07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:57		16:00	15:59
31	08:38			07:09			04:51		05:28	06:32		07:41			09:14
	16:58			20:10			22:14		21:52	20:36		16:54			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385	322		244	212
Total, worst case			261		1								271		
Sun reduction			0.33		0.46								0.42		
Oper. time red.			0.94		0.94								0.94		
Wind dir. red.			0.60		0.60								0.60		
Total reduction			0.19		0.26								0.24		
Total, real			49		0								65		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AX - Dzilnas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May	June
1	09:14		08:36		09:10 (41)		07:30	08:06 (42)	07:06	05:48	04:49
	16:01		17:00	20	09:30 (41)		18:05	20	08:26 (42)	20:12	21:17	22:16
2	09:14		08:34		09:09 (41)		07:27		08:06 (42)	07:03	05:45	04:48
	16:03		17:03	21	09:30 (41)		18:07	19	08:25 (42)	20:14	21:19	22:17
3	09:13		08:32		09:09 (41)		07:25		08:07 (42)	07:01	05:43	04:47
	16:04		17:05	22	09:31 (41)		18:09	18	08:25 (42)	20:16	21:21	22:19
4	09:13		08:30		09:10 (41)		07:22		08:08 (42)	06:58	05:41	04:45
	16:05		17:07	21	09:31 (41)		18:11	16	08:24 (42)	20:18	21:23	22:20
5	09:12		08:28		09:09 (41)		07:20		08:09 (42)	06:55	05:38	04:44
	16:07		17:09	22	09:31 (41)		18:13	13	08:22 (42)	20:21	21:25	22:21
6	09:12		08:26		09:10 (41)		07:17		08:11 (42)	06:52	05:36	04:44
	16:08		17:12	21	09:31 (41)		18:16	7	08:18 (42)	20:23	21:27	22:23
7	09:11		08:24		09:11 (41)		07:14			06:50	05:34	04:43
	16:10		17:14	20	09:31 (41)		18:18			20:25	21:29	22:24
8	09:10		08:21		09:11 (41)		07:12			06:47	05:32	04:42
	16:11		17:16	19	09:30 (41)		18:20			20:27	21:31	22:25
9	09:10		08:19		09:12 (41)		07:09			06:44	05:29	04:41
	16:13		17:19	18	09:30 (41)		18:22			20:29	21:34	22:26
10	09:09		08:17		09:13 (41)		07:06			06:42	05:27	04:40
	16:15		17:21	15	09:28 (41)		18:25			20:31	21:36	22:27
11	09:08		08:15		09:15 (41)		07:03			06:39	05:25	04:40
	16:16		17:23	12	09:27 (41)		18:27			20:34	21:38	22:28
12	09:07		08:12		09:17 (41)		07:01			06:36	05:23	04:39
	16:18		17:26	6	09:23 (41)		18:29			20:36	21:40	22:29
13	09:06		08:10				06:58			06:34	05:21	04:39
	16:20		17:28				18:31			20:38	21:42	22:30
14	09:05		08:08				06:55			06:31	05:19	04:38
	16:22		17:30				18:33			20:40	21:44	22:31
15	09:04		08:05				06:53			06:28	05:17	04:38
	16:24		17:33				18:35			20:42	21:46	22:31
16	09:02		08:03				06:50			06:26	05:15	04:38
	16:26		17:35				18:38			20:44	21:48	22:32
17	09:01		08:00				06:47			06:23	05:13	04:38
	16:28		17:37				18:40			20:46	21:50	22:32
18	09:00		07:58				06:44			06:20	05:11	04:38
	16:30		17:40				18:42			20:49	21:52	22:33
19	08:58		07:56				06:42			06:18	05:09	04:37
	16:32		17:42				18:44			20:51	21:54	22:33
20	08:57		07:53				06:39			06:15	05:07	04:37
	16:34		17:44				18:46			20:53	21:55	22:34
21	08:55		07:51		08:18 (42)		06:36			06:13	05:05	04:38
	16:36		17:46	1	08:19 (42)		18:48			20:55	21:57	22:34
22	08:54		07:48		08:16 (42)		06:33			06:10	05:04	04:38
	16:38		17:49	7	08:23 (42)		18:51			20:57	21:59	22:34
23	08:52		07:46		08:13 (42)		06:31			06:08	05:02	04:38
	16:40		17:51	11	08:24 (42)		18:53			20:59	22:01	22:34
24	08:51		07:43		08:10 (42)		06:28			06:05	05:00	04:38
	16:42		17:53	15	08:25 (42)		18:55			21:02	22:03	22:34
25	08:49		07:40		08:08 (42)		06:25			06:02	04:59	04:39
	16:45		17:56	18	08:26 (42)		18:57			21:04	22:05	22:34
26	08:47	09:21 (41)	07:38		08:06 (42)		06:23			06:00	04:57	04:39
	16:47	1	09:22 (41)	17:58	20	08:26 (42)		18:59			21:06	22:06	22:34
27	08:45	09:18 (41)	07:35		08:06 (42)		06:20			05:57	04:56	04:40
	16:49	6	09:24 (41)	18:00	20	08:26 (42)		19:01			21:08	22:08	22:34
28	08:44	09:16 (41)	07:33		08:06 (42)		06:17			05:55	04:54	04:40
	16:51	10	09:26 (41)	18:02	21	08:27 (42)		19:03			21:10	22:10	22:34
29	08:42	09:14 (41)					07:14			05:53	04:53	04:41
	16:53	13	09:27 (41)					20:06			21:12	22:11	22:34
30	08:40	09:12 (41)					07:12			05:50	04:51	04:42
	16:56	16	09:28 (41)					20:08			21:14	22:13	22:33
31	08:38	09:10 (41)					07:09					04:50	
	16:58	20	09:30 (41)					20:10				22:14	
Potential sun hours	231		264		366			428	512	534	
Total, worst case	66		330		93					
Sun reduction	0.28		0.33		0.46					
Oper. time red.	0.94		0.94		0.94					
Wind dir. red.	0.58		0.58		0.60					
Total reduction	0.15		0.18		0.26					
Total, real	10		61		24					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AX - Dzilnas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December
1	04:42	05:30	06:34	07:36		07:43	08:42 (41)	08:47
	22:33	21:50	20:34	19:11		16:52	16 08:58 (41)	15:59
2	04:43	05:32	06:36	07:38		07:45	08:41 (41)	08:49
	22:32	21:48	20:31	19:09		16:49	18 08:59 (41)	15:58
3	04:44	05:34	06:38	07:40		07:48	08:40 (41)	08:50
	22:32	21:46	20:28	19:06		16:47	20 09:00 (41)	15:57
4	04:45	05:36	06:40	07:42		07:50	08:40 (41)	08:52
	22:31	21:43	20:26	19:03		16:45	21 09:01 (41)	15:56
5	04:46	05:38	06:42	07:44		07:52	08:39 (41)	08:54
	22:30	21:41	20:23	19:00		16:43	22 09:01 (41)	15:55
6	04:47	05:40	06:44	07:46		07:54	08:40 (41)	08:55
	22:30	21:39	20:20	18:58		16:40	22 09:02 (41)	15:54
7	04:48	05:42	06:46	07:48		07:57	08:39 (41)	08:57
	22:29	21:37	20:17	18:55		16:38	22 09:01 (41)	15:54
8	04:50	05:44	06:48	07:51	08:45 (42)	07:59	08:40 (41)	08:58
	22:28	21:34	20:15	18:52	11 08:56 (42)	16:36	22 09:02 (41)	15:53
9	04:51	05:46	06:50	07:53	08:43 (42)	08:01	08:40 (41)	09:00
	22:27	21:32	20:12	18:50	14 08:57 (42)	16:34	21 09:01 (41)	15:53
10	04:52	05:48	06:52	07:55	08:41 (42)	08:03	08:41 (41)	09:01
	22:26	21:30	20:09	18:47	17 08:58 (42)	16:32	20 09:01 (41)	15:52
11	04:54	05:50	06:54	07:57	08:40 (42)	08:06	08:41 (41)	09:02
	22:25	21:27	20:06	18:44	19 08:59 (42)	16:30	19 09:00 (41)	15:52
12	04:55	05:52	06:57	07:59	08:39 (42)	08:08	08:44 (41)	09:04
	22:24	21:25	20:04	18:42	20 08:59 (42)	16:28	16 09:00 (41)	15:51
13	04:56	05:54	06:59	08:01	08:39 (42)	08:10	08:46 (41)	09:05
	22:22	21:23	20:01	18:39	20 08:59 (42)	16:26	13 08:59 (41)	15:51
14	04:58	05:57	07:01	08:03	08:38 (42)	08:12	08:49 (41)	09:06
	22:21	21:20	19:58	18:36	21 08:59 (42)	16:24	10 08:59 (41)	15:51
15	04:59	05:59	07:03	08:06	08:39 (42)	08:14	08:51 (41)	09:07
	22:20	21:18	19:55	18:34	20 08:59 (42)	16:22	6 08:57 (41)	15:51
16	05:01	06:01	07:05	08:08	08:38 (42)	08:17	08:54 (41)	09:08
	22:18	21:15	19:53	18:31	20 08:58 (42)	16:20	1 08:55 (41)	15:51
17	05:03	06:03	07:07	08:10	08:40 (42)	08:19		09:09
	22:17	21:13	19:50	18:29	17 08:57 (42)	16:19		15:51
18	05:04	06:05	07:09	08:12	08:43 (42)	08:21		09:10
	22:15	21:10	19:47	18:26	14 08:57 (42)	16:17		15:51
19	05:06	06:07	07:11	08:14	08:45 (42)	08:23		09:10
	22:14	21:08	19:44	18:23	10 08:55 (42)	16:15		15:51
20	05:08	06:09	07:13	08:16	08:47 (42)	08:25		09:11
	22:12	21:05	19:42	18:21	6 08:53 (42)	16:14		15:52
21	05:09	06:11	07:15	08:19		08:27		09:12
	22:11	21:03	19:39	18:18		16:12		15:52
22	05:11	06:13	07:17	08:21		08:29		09:12
	22:09	21:00	19:36	18:16		16:10		15:52
23	05:13	06:15	07:19	08:23		08:31		09:13
	22:07	20:57	19:33	18:13		16:09		15:53
24	05:15	06:17	07:21	08:25		08:33		09:13
	22:05	20:55	19:31	18:11		16:07		15:54
25	05:17	06:19	07:23	07:28		08:35		09:14
	22:04	20:52	19:28	17:08		16:06		15:54
26	05:18	06:21	07:25	07:30		08:37		09:14
	22:02	20:50	19:25	17:06		16:05		15:55
27	05:20	06:24	07:27	07:32		08:39		09:14
	22:00	20:47	19:22	17:03		16:03		15:56
28	05:22	06:26	07:30	07:34		08:41		09:14
	21:58	20:44	19:20	17:01		16:02		15:57
29	05:24	06:28	07:32	07:36		08:43		09:14
	21:56	20:42	19:17	16:59		16:01		15:58
30	05:26	06:30	07:34	07:39	08:46 (41)	08:45		09:14
	21:54	20:39	19:14	16:56	8 08:54 (41)	16:00		15:59
31	05:28	06:32		07:41	08:44 (41)			09:14
	21:52	20:36		16:54	13 08:57 (41)			16:00
Potential sun hours	534	472	385	322		244		211
Total, worst case				230		269		
Sun reduction				0.42		0.23		
Oper. time red.				0.94		0.94		
Wind dir. red.				0.60		0.58		
Total reduction				0.24		0.12		
Total, real				55		34		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AY - Dzintari A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June		
1	09:13	08:36		07:30		08:15 (30)	07:06	05:48	04:49	
	16:02	17:01		18:05	42	09:27 (29)	20:12	21:16	22:16	
2	09:13	08:34		07:27		08:15 (30)	07:03	05:46	04:48	
	16:03	17:03		18:07	30	09:21 (29)	20:14	21:18	22:17	
3	09:13	08:32		07:25		08:15 (30)	07:01	05:43	04:47	
	16:04	17:05		18:09	22	08:37 (30)	20:16	21:21	22:18	
4	09:12	08:30	09:15 (29)	07:22		08:17 (30)	06:58	05:41	04:46	
	16:06	17:07	8 09:23 (29)	18:11	20	08:37 (30)	20:18	21:23	22:20	
5	09:12	08:28	09:12 (29)	07:19		08:18 (30)	06:55	05:39	04:45	
	16:07	17:10	15 09:27 (29)	18:14	17	08:35 (30)	20:21	21:25	22:21	
6	09:11	08:25	09:10 (29)	07:17		08:19 (30)	06:53	05:36	04:44	
	16:09	17:12	20 09:30 (29)	18:16	13	08:32 (30)	20:23	21:27	22:22	
7	09:11	08:23	09:07 (29)	07:14		08:23 (30)	06:50	05:34	04:43	
	16:10	17:14	24 09:31 (29)	18:18	4	08:27 (30)	20:25	21:29	22:23	
8	09:10	08:21	09:07 (29)	07:12			06:47	05:32	04:42	
	16:12	17:17	26 09:33 (29)	18:20			20:27	21:31	22:25	
9	09:09	08:19	09:06 (29)	07:09			06:44	05:30	04:42	
	16:13	17:19	29 09:35 (29)	18:22			20:29	21:33	22:26	
10	09:08	08:17	09:04 (29)	07:06			06:42	05:27	04:41	05:18 (21)
	16:15	17:21	31 09:35 (29)	18:25			20:31	21:35	22:27 3	05:21 (21)
11	09:07	08:14	09:04 (29)	07:03		07:38 (28)	06:39	05:25	04:40	05:18 (21)
	16:17	17:24	33 09:37 (29)	18:27	9	07:47 (28)	20:33	21:37	22:28 5	05:23 (21)
12	09:07	08:12	09:03 (29)	07:01		07:35 (28)	06:36	05:23	04:40	05:17 (21)
	16:19	17:26	34 09:37 (29)	18:29	16	07:51 (28)	20:36	21:39	22:29 6	05:23 (21)
13	09:05	08:10	09:03 (29)	06:58		07:32 (28)	06:34	05:21	04:39	05:17 (21)
	16:20	17:28	35 09:38 (29)	18:31	21	07:53 (28)	20:38	21:41	22:29 7	05:24 (21)
14	09:04	08:07	09:02 (29)	06:55		07:30 (28)	06:31	05:19	04:39	05:17 (21)
	16:22	17:31	36 09:38 (29)	18:33	24	07:54 (28)	20:40	21:43	22:30 8	05:25 (21)
15	09:03	08:05	09:02 (29)	06:53		07:28 (28)	06:28	05:17	04:39	05:17 (21)
	16:24	17:33	37 09:39 (29)	18:35	27	07:55 (28)	20:42	21:45	22:31 9	05:26 (21)
16	09:02	08:03	09:01 (29)	06:50		07:28 (28)	06:26	05:15	04:38	05:16 (21)
	16:26	17:35	38 09:39 (29)	18:38	29	07:57 (28)	20:44	21:47	22:31 10	05:26 (21)
17	09:01	08:00	09:02 (29)	06:47		07:26 (28)	06:23	05:13	04:38	05:16 (21)
	16:28	17:37	37 09:39 (29)	18:40	31	07:57 (28)	20:46	21:49	22:32 10	05:26 (21)
18	08:59	07:58	09:01 (29)	06:44		07:25 (28)	06:21	05:11	04:38	05:16 (21)
	16:30	17:40	38 09:39 (29)	18:42	32	07:57 (28)	20:48	21:51	22:32 11	05:27 (21)
19	08:58	07:55	08:24 (30)	06:42		07:24 (28)	06:18	05:09	04:38	05:16 (21)
	16:32	17:42	45 09:38 (29)	18:44	33	07:57 (28)	20:51	21:53	22:33 11	05:27 (21)
20	08:57	07:53	08:21 (30)	06:39		07:24 (28)	06:15	05:08	04:38	05:17 (21)
	16:34	17:44	53 09:39 (29)	18:46	33	07:57 (28)	20:53	21:55	22:33 11	05:28 (21)
21	08:55	07:50	08:19 (30)	06:36		07:24 (28)	06:13	05:06	04:38	05:17 (21)
	16:36	17:47	55 09:38 (29)	18:48	33	07:57 (28)	20:55	21:57	22:34 11	05:28 (21)
22	08:54	07:48	08:18 (30)	06:34		07:23 (28)	06:10	05:04	04:38	05:17 (21)
	16:38	17:49	57 09:38 (29)	18:51	33	07:56 (28)	20:57	21:59	22:34 11	05:28 (21)
23	08:52	07:45	08:17 (30)	06:31		07:23 (28)	06:08	05:02	04:38	05:17 (21)
	16:41	17:51	57 09:37 (29)	18:53	33	07:56 (28)	20:59	22:01	22:34 11	05:28 (21)
24	08:50	07:43	08:16 (30)	06:28		07:24 (28)	06:05	05:01	04:39	05:18 (21)
	16:43	17:53	55 09:35 (29)	18:55	32	07:56 (28)	21:01	22:02	22:34 11	05:29 (21)
25	08:49	07:40	08:16 (30)	06:25		07:24 (28)	06:03	04:59	04:39	05:18 (21)
	16:45	17:56	55 09:35 (29)	18:57	30	07:54 (28)	21:03	22:04	22:34 10	05:28 (21)
26	08:47	07:38	08:15 (30)	06:23		07:24 (28)	06:00	04:58	04:40	05:18 (21)
	16:47	17:58	53 09:33 (29)	18:59	29	07:53 (28)	21:06	22:06	22:34 10	05:28 (21)
27	08:45	07:35	08:15 (30)	06:20		07:24 (28)	05:58	04:56	04:40	05:19 (21)
	16:49	18:00	50 09:31 (29)	19:01	28	07:52 (28)	21:08	22:08	22:34 9	05:28 (21)
28	08:43	07:33	08:15 (30)	06:17		07:26 (28)	05:55	04:55	04:41	05:20 (21)
	16:51	18:02	47 09:30 (29)	19:03	25	07:51 (28)	21:10	22:09	22:33 9	05:29 (21)
29	08:42			07:14		08:26 (28)	05:53	04:53	04:41	05:20 (21)
	16:54			20:06	23	08:49 (28)	21:12	22:11	22:33 8	05:28 (21)
30	08:40			07:12		08:28 (28)	05:50	04:52	04:42	05:21 (21)
	16:56			20:08	18	08:46 (28)	21:14	22:12	22:33 7	05:28 (21)
31	08:38			07:09		08:30 (28)		04:51		
	16:58			20:10	12	08:42 (28)		22:14		
Potential sun hours	231	264		366			428	512	534	
Total, worst case			968		699				188	
Sun reduction			0.33		0.46				0.57	
Oper. time red.			0.94		0.94				0.94	
Wind dir. red.			0.59		0.60				0.67	
Total reduction			0.18		0.26				0.36	
Total, real			178		181				68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AY - Dzintari A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August	September			October			November			December
1	04:43		05:22 (21)	05:30	06:34			07:36		08:13 (28)	07:43		08:34 (29)	08:46
	22:32	5	05:27 (21)	21:49	20:34			19:11	18	08:31 (28)	16:52	31	09:05 (29)	15:59
2	04:44		05:22 (21)	05:32	06:36			07:38		08:15 (28)	07:45		08:36 (29)	08:48
	22:32	4	05:26 (21)	21:47	20:31			19:09	13	08:28 (28)	16:50	28	09:04 (29)	15:58
3	04:45		05:23 (21)	05:34	06:38			07:40			07:47		08:36 (29)	08:50
	22:31	1	05:24 (21)	21:45	20:28			19:06			16:47	26	09:02 (29)	15:57
4	04:46			05:36	06:40			07:42			07:50		08:37 (29)	08:52
	22:31			21:43	20:25			19:03			16:45	24	09:01 (29)	15:56
5	04:47			05:38	06:42			07:44			07:52		08:40 (29)	08:53
	22:30			21:41	20:23			19:01			16:43	19	08:59 (29)	15:55
6	04:48			05:40	06:44			07:46			07:54		08:42 (29)	08:55
	22:29			21:39	20:20			18:58			16:41	14	08:56 (29)	15:55
7	04:49			05:42	06:46			07:48		08:57 (30)	07:56		08:47 (29)	08:56
	22:28			21:36	20:17			18:55	10	09:07 (30)	16:39	5	08:52 (29)	15:54
8	04:50			05:44	06:48			07:51		08:54 (30)	07:59			08:58
	22:27			21:34	20:15			18:52	15	09:09 (30)	16:36			15:53
9	04:51			05:46	06:50			07:53		08:52 (30)	08:01			08:59
	22:26			21:32	20:12			18:50	18	09:10 (30)	16:34			15:53
10	04:53			05:49	06:53			07:55		08:50 (30)	08:03			09:01
	22:25			21:29	20:09			18:47	21	09:11 (30)	16:32			15:52
11	04:54			05:51	06:55			07:57		08:50 (30)	08:05			09:02
	22:24			21:27	20:06			18:44	23	09:13 (30)	16:30			15:52
12	04:55			05:53	06:57		08:23 (28)	07:59		08:49 (30)	08:08			09:03
	22:23			21:25	20:04	11	08:34 (28)	18:42	36	09:58 (29)	16:28			15:52
13	04:57			05:55	06:59		08:20 (28)	08:01		08:48 (30)	08:10			09:04
	22:22			21:22	20:01	17	08:37 (28)	18:39	44	10:01 (29)	16:26			15:52
14	04:58			05:57	07:01		08:17 (28)	08:03		08:47 (30)	08:12			09:05
	22:21			21:20	19:58	22	08:39 (28)	18:37	49	10:03 (29)	16:24			15:51
15	05:00			05:59	07:03		08:15 (28)	08:05		08:48 (30)	08:14			09:07
	22:19			21:17	19:55	25	08:40 (28)	18:34	52	10:05 (29)	16:23			15:51
16	05:01			06:01	07:05		08:14 (28)	08:08		08:47 (30)	08:16			09:07
	22:18			21:15	19:53	27	08:41 (28)	18:31	55	10:06 (29)	16:21			15:51
17	05:03			06:03	07:07		08:12 (28)	08:10		08:47 (30)	08:18			09:08
	22:16			21:12	19:50	29	08:41 (28)	18:29	55	10:06 (29)	16:19			15:51
18	05:05			06:05	07:09		08:11 (28)	08:12		08:47 (30)	08:21			09:09
	22:15			21:10	19:47	31	08:42 (28)	18:26	57	10:07 (29)	16:17			15:52
19	05:06			06:07	07:11		08:10 (28)	08:14		08:48 (30)	08:23			09:10
	22:13			21:07	19:44	32	08:42 (28)	18:24	57	10:08 (29)	16:16			15:52
20	05:08			06:09	07:13		08:10 (28)	08:16		08:49 (30)	08:25			09:11
	22:12			21:05	19:42	32	08:42 (28)	18:21	56	10:08 (29)	16:14			15:52
21	05:10			06:11	07:15		08:09 (28)	08:19		08:50 (30)	08:27			09:11
	22:10			21:02	19:39	33	08:42 (28)	18:18	54	10:08 (29)	16:12			15:52
22	05:11			06:13	07:17		08:08 (28)	08:21		08:52 (30)	08:29			09:12
	22:09			21:00	19:36	34	08:42 (28)	18:16	50	10:09 (29)	16:11			15:53
23	05:13			06:15	07:19		08:08 (28)	08:23		08:55 (30)	08:31			09:12
	22:07			20:57	19:33	33	08:41 (28)	18:13	44	10:09 (29)	16:09			15:53
24	05:15			06:17	07:21		08:08 (28)	08:25		09:31 (29)	08:33			09:13
	22:05			20:55	19:31	33	08:41 (28)	18:11	38	10:09 (29)	16:08			15:54
25	05:17			06:20	07:23		08:08 (28)	07:27		08:31 (29)	08:35			09:13
	22:03			20:52	19:28	32	08:40 (28)	17:09	38	09:09 (29)	16:06			15:55
26	05:19			06:22	07:25		08:08 (28)	07:30		08:31 (29)	08:37			09:13
	22:01			20:49	19:25	31	08:39 (28)	17:06	37	09:08 (29)	16:05			15:55
27	05:21			06:24	07:27		08:08 (28)	07:32		08:31 (29)	08:39			09:14
	21:59			20:47	19:22	30	08:38 (28)	17:04	37	09:08 (29)	16:04			15:56
28	05:23			06:26	07:30		08:09 (28)	07:34		08:31 (29)	08:41			09:14
	21:58			20:44	19:20	27	08:36 (28)	17:01	36	09:07 (29)	16:02			15:57
29	05:24			06:28	07:32		08:10 (28)	07:36		08:32 (29)	08:43			09:14
	21:56			20:42	19:17	26	08:36 (28)	16:59	35	09:07 (29)	16:01			15:58
30	05:26			06:30	07:34		08:11 (28)	07:39		08:32 (29)	08:45			09:14
	21:54			20:39	19:14	23	08:34 (28)	16:57	34	09:06 (29)	16:00			15:59
31	05:28			06:32				07:41		08:34 (29)				09:14
	21:52			20:36				16:54	32	09:06 (29)				16:00
Potential sun hours	534			472	385			322			244			212
Total, worst case		10				528			1014			147		
Sun reduction		0.60				0.50			0.42			0.23		
Oper. time red.		0.94				0.94			0.94			0.94		
Wind dir. red.		0.67				0.60			0.59			0.58		
Total reduction		0.38				0.28			0.23			0.13		
Total, real		4				149			238			18		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AZ - Dzintari B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April	May	June		
1	09:13			08:36		09:23 (29)	07:30		08:27 (30)	07:06	05:48	04:49		
	16:02			17:01	24	09:47 (29)	18:05	20	08:47 (30)	20:12	21:16	22:16		
2	09:13			08:34		09:22 (29)	07:27		08:28 (30)	07:03	05:46	04:48		
	16:03			17:03	27	09:49 (29)	18:07	17	08:45 (30)	20:14	21:18	22:17		
3	09:13			08:32		09:22 (29)	07:25		08:29 (30)	07:01	05:43	04:47		
	16:04			17:05	29	09:51 (29)	18:09	14	08:43 (30)	20:16	21:21	22:18		
4	09:12			08:30		09:20 (29)	07:22		08:34 (30)	06:58	05:41	04:46		
	16:06			17:07	31	09:51 (29)	18:11	5	08:39 (30)	20:18	21:23	22:20		
5	09:12			08:28		09:20 (29)	07:19			06:55	05:39	04:45		
	16:07			17:10	32	09:52 (29)	18:14			20:21	21:25	22:21		
6	09:11			08:25		09:19 (29)	07:17			06:53	05:36	04:44		
	16:09			17:12	35	09:54 (29)	18:16			20:23	21:27	22:22		
7	09:11			08:23		09:18 (29)	07:14		07:51 (28)	06:50	05:34	04:43		
	16:10			17:14	36	09:54 (29)	18:18	8	07:59 (28)	20:25	21:29	22:23		
8	09:10			08:21		09:18 (29)	07:12		07:48 (28)	06:47	05:32	04:42		
	16:12			17:17	37	09:55 (29)	18:20	16	08:04 (28)	20:27	21:31	22:25		
9	09:09			08:19		09:18 (29)	07:09		07:45 (28)	06:44	05:30	04:42		
	16:13			17:19	38	09:56 (29)	18:22	21	08:06 (28)	20:29	21:33	22:26		
10	09:08			08:17		09:17 (29)	07:06		07:42 (28)	06:42	05:27	04:41		
	16:15			17:21	38	09:55 (29)	18:25	25	08:07 (28)	20:31	21:35	22:27		
11	09:07			08:14		09:18 (29)	07:03		07:40 (28)	06:39	05:25	04:40		
	16:17			17:24	38	09:56 (29)	18:27	28	08:08 (28)	20:33	21:37	22:28		
12	09:07			08:12		09:17 (29)	07:01		07:40 (28)	06:36	05:23	04:40		05:17 (21)
	16:19			17:26	39	09:56 (29)	18:29	29	08:09 (28)	20:36	21:39	22:29	2	05:19 (21)
13	09:05			08:10		09:18 (29)	06:58		07:38 (28)	06:34	05:21	04:39		05:17 (21)
	16:20			17:28	38	09:56 (29)	18:31	32	08:10 (28)	20:38	21:41	22:29	5	05:22 (21)
14	09:04			08:07		09:17 (29)	06:55		07:37 (28)	06:31	05:19	04:39		05:17 (21)
	16:22			17:31	39	09:56 (29)	18:33	33	08:10 (28)	20:40	21:43	22:30	6	05:23 (21)
15	09:03			08:05		08:36 (30)	06:53		07:36 (28)	06:28	05:17	04:39		05:17 (21)
	16:24			17:33	43	09:56 (29)	18:35	34	08:10 (28)	20:42	21:45	22:31	7	05:24 (21)
16	09:02			08:03		08:32 (30)	06:50		07:36 (28)	06:26	05:15	04:38		05:16 (21)
	16:26			17:35	50	09:55 (29)	18:38	35	08:11 (28)	20:44	21:47	22:31	8	05:24 (21)
17	09:01			08:00		08:30 (30)	06:47		07:36 (28)	06:23	05:13	04:38		05:16 (21)
	16:28			17:37	53	09:55 (29)	18:40	34	08:10 (28)	20:46	21:49	22:32	8	05:24 (21)
18	08:59			07:58		08:28 (30)	06:44		07:35 (28)	06:21	05:11	04:38		05:16 (21)
	16:30			17:40	55	09:54 (29)	18:42	35	08:10 (28)	20:48	21:51	22:32	9	05:25 (21)
19	08:58			07:55		08:27 (30)	06:42		07:35 (28)	06:18	05:09	04:38		05:16 (21)
	16:32			17:42	56	09:53 (29)	18:44	34	08:09 (28)	20:51	21:53	22:33	9	05:25 (21)
20	08:57			07:53		08:27 (30)	06:39		07:35 (28)	06:15	05:08	04:38		05:17 (21)
	16:34			17:44	56	09:53 (29)	18:46	34	08:09 (28)	20:53	21:55	22:33	9	05:26 (21)
21	08:55			07:50		08:26 (30)	06:36		07:35 (28)	06:13	05:06	04:38		05:17 (21)
	16:36			17:47	54	09:51 (29)	18:48	33	08:08 (28)	20:55	21:57	22:34	9	05:26 (21)
22	08:54			07:48		08:26 (30)	06:33		07:35 (28)	06:10	05:04	04:38		05:17 (21)
	16:38			17:49	52	09:50 (29)	18:51	32	08:07 (28)	20:57	21:59	22:34	9	05:26 (21)
23	08:52			07:45		08:25 (30)	06:31		07:35 (28)	06:08	05:02	04:38		05:17 (21)
	16:41			17:51	50	09:48 (29)	18:53	31	08:06 (28)	20:59	22:01	22:34	9	05:26 (21)
24	08:50			07:43		08:25 (30)	06:28		07:37 (28)	06:05	05:01	04:39		05:18 (21)
	16:43			17:53	46	09:45 (29)	18:55	28	08:05 (28)	21:01	22:02	22:34	9	05:27 (21)
25	08:49			07:40		08:25 (30)	06:25		07:37 (28)	06:03	04:59	04:39		05:18 (21)
	16:45			17:56	40	09:43 (29)	18:57	26	08:03 (28)	21:03	22:04	22:34	9	05:27 (21)
26	08:47			07:38		08:25 (30)	06:23		07:38 (28)	06:00	04:57	04:40		05:18 (21)
	16:47			17:58	25	08:50 (30)	18:59	23	08:01 (28)	21:06	22:06	22:34	8	05:26 (21)
27	08:45			07:35		08:25 (30)	06:20		07:40 (28)	05:58	04:56	04:40		05:19 (21)
	16:49			18:00	24	08:49 (30)	19:01	18	07:58 (28)	21:08	22:08	22:34	7	05:26 (21)
28	08:43			07:33		08:26 (30)	06:17		07:43 (28)	05:55	04:55	04:41		05:20 (21)
	16:51			18:02	23	08:49 (30)	19:03	13	07:56 (28)	21:10	22:09	22:33	6	05:26 (21)
29	08:42		09:30 (29)				07:14			05:53	04:53	04:41		05:20 (21)
	16:54	10	09:40 (29)				20:06			21:12	22:11	22:33	5	05:25 (21)
30	08:40		09:27 (29)				07:12			05:50	04:52	04:42		05:21 (21)
	16:56	17	09:44 (29)				20:08			21:14	22:12	22:33	3	05:24 (21)
31	08:38		09:26 (29)				07:09				04:50			
	16:58	20	09:46 (29)				20:10				22:14			
Potential sun hours	231			264			366			428	512	534		
Total, worst case		47			1108			658					137	
Sun reduction		0.27			0.33			0.46					0.57	
Oper. time red.		0.94			0.94			0.94					0.94	
Wind dir. red.		0.57			0.58			0.59					0.67	
Total reduction		0.15			0.18			0.25					0.36	
Total, real		7			201			168					49	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: AZ - Dzintari B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December
1	04:43	05:30	06:34		07:36		08:18 (28)	07:43	08:47 (29)	08:46
	22:32	21:49	20:34		19:11	31	08:49 (28)	16:52	38	09:25 (29)	15:59
2	04:44	05:32	06:36		07:38		08:19 (28)	07:45		08:48 (29)	08:48
	22:32	21:47	20:31		19:09	28	08:47 (28)	16:50	37	09:25 (29)	15:58
3	04:45	05:34	06:38		07:40		08:20 (28)	07:47		08:48 (29)	08:50
	22:31	21:45	20:28		19:06	26	08:46 (28)	16:47	36	09:24 (29)	15:57
4	04:46	05:36	06:40		07:42		08:21 (28)	07:50		08:48 (29)	08:52
	22:31	21:43	20:25		19:03	23	08:44 (28)	16:45	35	09:23 (29)	15:56
5	04:47	05:38	06:42		07:44		08:23 (28)	07:52		08:49 (29)	08:53
	22:30	21:41	20:23		19:01	18	08:41 (28)	16:43	34	09:23 (29)	15:55
6	04:48	05:40	06:44		07:46		08:26 (28)	07:54		08:49 (29)	08:55
	22:29	21:39	20:20		18:58	13	08:39 (28)	16:41	33	09:22 (29)	15:55
7	04:49	05:42	06:46		07:48			07:56		08:51 (29)	08:56
	22:28	21:36	20:17		18:55			16:39	31	09:22 (29)	15:54
8	04:50	05:44	06:48		07:51			07:59		08:51 (29)	08:58
	22:27	21:34	20:15		18:52			16:36	29	09:20 (29)	15:53
9	04:51	05:46	06:50		07:53			08:01		08:53 (29)	08:59
	22:26	21:32	20:12		18:50			16:34	27	09:20 (29)	15:53
10	04:53	05:48	06:53		07:55		09:05 (30)	08:03		08:54 (29)	09:01
	22:25	21:29	20:09		18:47	10	09:15 (30)	16:32	24	09:18 (29)	15:52
11	04:54	05:51	06:55		07:57		09:03 (30)	08:05		08:57 (29)	09:02
	22:24	21:27	20:06		18:44	16	09:19 (30)	16:30	20	09:17 (29)	15:52
12	04:55	05:53	06:57		07:59		09:01 (30)	08:08		08:58 (29)	09:03
	22:23	21:25	20:04		18:42	19	09:20 (30)	16:28	16	09:14 (29)	15:52
13	04:57	05:55	06:59		08:01		08:59 (30)	08:10		09:02 (29)	09:04
	22:22	21:22	20:01		18:39	22	09:21 (30)	16:26	10	09:12 (29)	15:52
14	04:58	05:57	07:01		08:03		08:58 (30)	08:12			09:05
	22:21	21:20	19:58		18:37	23	09:21 (30)	16:24			15:51
15	05:00	05:59	07:03	08:34 (28)	08:05		08:58 (30)	08:14			09:07
	22:19	21:17	19:55	10	08:44 (28)	18:34	24	09:22 (30)	16:23			15:51
16	05:01	06:01	07:05	08:30 (28)	08:08		08:57 (30)	08:16			09:07
	22:18	21:15	19:53	17	08:47 (28)	18:31	32	10:11 (29)	16:21			15:51
17	05:03	06:03	07:07	08:27 (28)	08:10		08:56 (30)	08:18			09:08
	22:16	21:12	19:50	22	08:49 (28)	18:29	42	10:15 (29)	16:19			15:51
18	05:05	06:05	07:09	08:25 (28)	08:12		08:56 (30)	08:21			09:09
	22:15	21:10	19:47	26	08:51 (28)	18:26	47	10:17 (29)	16:17			15:52
19	05:06	06:07	07:11	08:24 (28)	08:14		08:56 (30)	08:23			09:10
	22:13	21:07	19:44	28	08:52 (28)	18:24	52	10:20 (29)	16:15			15:52
20	05:08	06:09	07:13	08:22 (28)	08:16		08:56 (30)	08:25			09:11
	22:12	21:05	19:42	30	08:52 (28)	18:21	54	10:21 (29)	16:14			15:52
21	05:10	06:11	07:15	08:21 (28)	08:19		08:56 (30)	08:27			09:11
	22:10	21:02	19:39	32	08:53 (28)	18:18	55	10:22 (29)	16:12			15:52
22	05:11	06:13	07:17	08:20 (28)	08:21		08:57 (30)	08:29			09:12
	22:09	21:00	19:36	33	08:53 (28)	18:16	56	10:23 (29)	16:11			15:53
23	05:13	06:15	07:19	08:19 (28)	08:23		08:57 (30)	08:31			09:12
	22:07	20:57	19:33	34	08:53 (28)	18:13	57	10:24 (29)	16:09			15:53
24	05:15	06:17	07:21	08:18 (28)	08:25		08:59 (30)	08:33			09:13
	22:05	20:55	19:31	35	08:53 (28)	18:11	55	10:25 (29)	16:08			15:54
25	05:17	06:20	07:23	08:18 (28)	07:27		08:00 (30)	08:35			09:13
	22:03	20:52	19:28	35	08:53 (28)	17:09	53	09:25 (29)	16:06			15:55
26	05:19	06:22	07:25	08:17 (28)	07:30		08:02 (30)	08:37			09:13
	22:01	20:49	19:25	35	08:52 (28)	17:06	49	09:25 (29)	16:05			15:55
27	05:21	06:24	07:27	08:17 (28)	07:32		08:47 (29)	08:39			09:14
	21:59	20:47	19:22	35	08:52 (28)	17:04	38	09:25 (29)	16:04			15:56
28	05:23	06:26	07:30	08:17 (28)	07:34		08:47 (29)	08:41			09:14
	21:58	20:44	19:20	34	08:51 (28)	17:01	38	09:25 (29)	16:02			15:57
29	05:24	06:28	07:32	08:18 (28)	07:36		08:47 (29)	08:43			09:14
	21:56	20:42	19:17	33	08:51 (28)	16:59	39	09:26 (29)	16:01			15:58
30	05:26	06:30	07:34	08:18 (28)	07:39		08:47 (29)	08:45			09:14
	21:54	20:39	19:14	32	08:50 (28)	16:57	38	09:25 (29)	16:00			15:59
31	05:28	06:32			07:41		08:47 (29)				09:14
	21:52	20:36			16:54	39	09:26 (29)				16:00
Potential sun hours	534	472	385		322		244		212
Total, worst case			471		997		370		
Sun reduction			0.50		0.42		0.23		
Oper. time red.			0.94		0.94		0.94		
Wind dir. red.			0.59		0.58		0.57		
Total reduction			0.28		0.23		0.12		
Total, real			130		231		46		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BA - Dzintarini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BB - Dzikli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March		April			May	June	July	August	September			October			November	December
1	09:13	08:35	07:29		07:05		18:56 (38)	05:47	04:48	04:42	05:29	06:33			07:35		18:24 (39)	07:42	08:46
	16:01	17:00	18:04		20:11	13	19:09 (38)	21:16	22:15	22:32	21:49	20:33			19:11	15	18:39 (39)	16:51	15:58
2	09:13	08:33	07:27		07:03			05:45	04:47	04:43	05:31	06:35			07:37		18:24 (39)	07:45	08:48
	16:02	17:02	18:06		20:13			21:18	22:16	22:31	21:47	20:30			19:08	12	18:36 (39)	16:49	15:57
3	09:12	08:31	07:24		07:00			05:42	04:46	04:44	05:33	06:37			07:39		18:25 (39)	07:47	08:49
	16:03	17:04	18:08		20:16			21:20	22:18	22:31	21:45	20:27			19:05	9	18:34 (39)	16:46	15:56
4	09:12	08:29	07:21		06:57			05:40	04:45	04:45	05:35	06:39			07:41		18:26 (39)	07:49	08:51
	16:05	17:06	18:10		20:18			21:22	22:19	22:30	21:42	20:25			19:02	5	18:31 (39)	16:44	15:55
5	09:11	08:27	07:19		06:54			05:38	04:44	04:46	05:37	06:41			07:43		18:28 (39)	07:51	08:53
	16:06	17:09	18:13		20:20			21:24	22:21	22:29	21:40	20:22			19:00	1	18:29 (39)	16:42	15:54
6	09:11	08:25	07:16		06:52			05:35	04:43	04:47	05:39	06:43			07:46			07:54	08:54
	16:08	17:11	18:15		20:22			21:26	22:22	22:29	21:38	20:19			18:57			16:40	15:54
7	09:10	08:23	07:13		06:49			05:33	04:42	04:48	05:41	06:46			07:48			07:56	08:56
	16:09	17:13	18:17		20:24			21:28	22:23	22:28	21:36	20:17			18:54			16:38	15:53
8	09:09	08:20	07:11		06:46			05:31	04:41	04:49	05:43	06:48			07:50			07:58	08:57
	16:11	17:16	18:19		20:26			21:31	22:24	22:27	21:33	20:14			18:52			16:36	15:52
9	09:09	08:18	07:08		06:44			05:29	04:40	04:50	05:46	06:50			07:52			08:00	08:59
	16:12	17:18	18:22	3	20:28			21:33	22:25	22:26	21:31	20:11			18:49			16:33	15:52
10	09:08	08:16	07:05		06:41			05:26	04:40	04:52	05:48	06:52			07:54			08:03	09:00
	16:14	17:20	18:24	7	20:31			21:35	22:26	22:25	21:29	20:08			18:46			16:31	15:51
11	09:07	08:14	07:03		06:38			05:24	04:39	04:53	05:50	06:54			07:56			08:05	09:01
	16:16	17:23	18:26	11	20:33			21:37	22:27	22:24	21:26	20:06	12		19:01 (38)			16:29	15:51
12	09:06	08:11	07:00		06:36			05:22	04:39	04:54	05:52	06:56			18:46 (38)			08:07	09:03
	16:18	17:25	18:28	14	20:35			21:39	22:28	22:23	21:24	20:03	17		19:03 (38)			16:27	15:51
13	09:05	08:09	06:57		06:33			05:20	04:38	04:56	05:54	06:58			18:44 (38)			08:09	09:04
	16:19	17:27	18:30	17	20:37			21:41	22:29	22:21	21:22	20:00	20		19:04 (38)			16:25	15:51
14	09:04	08:07	06:55		06:30			05:18	04:38	04:57	05:56	07:00			18:42 (38)			08:11	09:05
	16:21	17:30	18:33	20	20:39			21:43	22:30	22:20	21:19	19:57	23		19:05 (38)			16:23	15:50
15	09:03	08:04	06:52		06:28			05:16	04:37	04:59	05:58	07:02			18:41 (38)			08:14	09:06
	16:23	17:32	18:35	22	20:41			21:45	22:30	22:19	21:17	19:55	24		19:05 (38)			16:22	15:50
16	09:01	08:02	06:49		06:25			05:14	04:37	05:00	06:00	07:04			18:39 (38)			08:16	09:07
	16:25	17:34	18:37	25	20:43			21:47	22:31	22:17	21:14	19:52	27		19:06 (38)			16:20	15:50
17	09:00	08:00	06:46		06:22			05:12	04:37	05:02	06:02	07:06			18:39 (38)			08:18	09:08
	16:27	17:37	18:39	27	20:46			21:49	22:32	22:16	21:12	19:49	27		19:06 (38)			16:18	15:50
18	08:59	07:57	06:44		06:20			05:10	04:37	05:04	06:04	07:08			18:38 (38)			08:20	09:09
	16:29	17:39	18:41	29	20:48			21:51	22:32	22:14	21:09	19:46	28		19:06 (38)			16:16	15:50
19	08:57	07:55	06:41		06:17			05:08	04:37	05:05	06:06	07:10			18:37 (38)			08:22	09:10
	16:31	17:41	18:43	30	20:50			21:53	22:32	22:13	21:07	19:44	29		19:06 (38)			16:15	15:51
20	08:56	07:52	06:38		06:15			05:07	04:37	05:07	06:08	07:12			18:37 (38)			08:24	09:10
	16:33	17:43	18:45	31	20:52			21:55	22:33	22:11	21:04	19:41	28		19:05 (38)			16:13	15:51
21	08:55	07:50	06:35		06:12			05:05	04:37	05:09	06:10	07:14			18:37 (38)			08:26	09:11
	16:35	17:46	18:48	31	20:54			21:56	22:33	22:10	21:02	19:38	27		19:04 (38)			16:11	15:51
22	08:53	07:47	06:33		06:09			05:03	04:37	05:10	06:12	07:16			18:34 (39)			08:28	09:11
	16:37	17:48	18:50	28	20:56			21:58	22:33	22:08	20:59	19:35	30		19:04 (38)			16:10	15:52
23	08:51	07:45	06:30		06:07			05:01	04:37	05:12	06:14	07:18			18:30 (39)			08:31	09:12
	16:40	17:50	18:52	28	20:59			22:00	22:33	22:06	20:57	19:33	32		19:02 (38)			16:08	15:52
24	08:50	07:42	06:27		06:04			05:00	04:38	05:14	06:17	07:20			18:28 (39)			08:33	09:12
	16:42	17:53	18:54	28	21:01			22:02	22:33	22:05	20:54	19:30	31		18:59 (38)			16:07	15:53
25	08:48	07:40	06:24		06:02			04:58	04:38	05:16	06:19	07:23			18:27 (39)			08:35	09:13
	16:44	17:55	18:56	28	21:03			22:04	22:33	22:03	20:51	19:27	29		18:56 (38)			16:05	15:54
26	08:46	07:37	06:22		05:59			04:56	04:39	05:18	06:21	07:25			18:26 (39)			08:37	09:13
	16:46	17:57	18:58	27	21:05			22:05	22:33	22:01	20:49	19:24	28		18:54 (38)			16:04	15:54
27	08:45	07:34	06:19		05:57			04:55	04:39	05:20	06:23	07:27			18:25 (39)			08:38	09:13
	16:48	17:59	19:01	26	21:07			22:07	22:33	21:59	20:46	19:22	26		18:51 (38)			16:03	15:55
28	08:43	07:32	06:16		05:54			04:54	04:40	05:22	06:25	07:29			18:25 (39)			08:40	09:13
	16:51	18:02	19:03	25	21:09			22:09	22:33	21:57	20:44	19:19	23		18:48 (38)			16:01	15:56
29	08:41		07:14		05:52			04:52	04:40	05:23	06:27	07:31			18:24 (39)			08:42	09:13
	16:53		20:05	24	21:11			22:10	22:33	21:55	20:41	19:16	21		18:45 (39)			16:00	15:57
30	08:39		07:11		05:49			04:51	04:41	05:25	06:29	07:33			18:24 (39)			08:44	09:13
	16:55		20:07	21	21:14			22:12	22:32	21:53	20:38	19:13	18		18:42 (39)			15:59	15:58
31	08:37		07:08		18:54 (38)			04:49		05:27	06:31					07:40			09:13
	16:57		20:09	18	19:12 (38)			22:14		21:51	20:36					16:53			15:59
Potential sun hours	231	264	366			428		512	534	534	472	385			322			244	211
Total, worst case				520			13						500			42			
Sun reduction				0.46			0.55						0.50			0.42			
Oper. time red.				0.94			0.94						0.94			0.94			
Wind dir. red.				0.64			0.64						0.64			0.64			
Total reduction				0.28			0.33						0.30			0.26			
Total, real				144			4						150			11			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BC - Dzipari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:01 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05 23	08:24 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:01 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07 23	08:24 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:01 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	08:46 (41)	07:48	08:50
	16:04	17:05	18:09 24	08:25 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06 5	08:51 (41)	16:47	15:57
4	09:13	08:30	07:22	08:01 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	08:42 (41)	07:50	08:52
	16:05	17:07	18:11 23	08:24 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03 12	08:54 (41)	16:45	15:56
5	09:12	08:28	07:20	08:01 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44	08:39 (41)	07:52	08:54
	16:07	17:10	18:13 22	08:23 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00 17	08:56 (41)	16:43	15:55
6	09:12	08:26	07:17	08:01 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	08:39 (41)	07:54	08:55
	16:08	17:12	18:16 21	08:22 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58 19	08:58 (41)	16:41	15:54
7	09:11	08:24	07:14	08:02 (41)	06:50	05:34	04:43	04:49	05:42	06:46	07:48	08:37 (41)	07:57	08:57
	16:10	17:14	18:18 20	08:22 (41)	20:25	21:29	22:24	22:29	21:37	20:17	18:55 21	08:58 (41)	16:38	15:54
8	09:10	08:21	07:12	08:02 (41)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:36 (41)	07:59	08:58
	16:11	17:16	18:20 18	08:20 (41)	20:27	21:31	22:25	22:28	21:34	20:15	18:52 22	08:58 (41)	16:36	15:53
9	09:10	08:19	07:09	08:04 (41)	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:35 (41)	08:01	09:00
	16:13	17:19	18:22 14	08:18 (41)	20:29	21:33	22:26	22:27	21:32	20:12	18:50 23	08:58 (41)	16:34	15:53
10	09:09	08:17	07:06	08:06 (41)	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:34 (41)	08:03	09:01
	16:15	17:21	18:25 9	08:15 (41)	20:31	21:36	22:27	22:26	21:30	20:09	18:47 24	08:58 (41)	16:32	15:52
11	09:08	08:15	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:35 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44 24	08:59 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:35 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04 6	07:59 (42)	18:42 23	08:58 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	07:50 (42)	08:01	08:35 (41)	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01 12	08:02 (42)	18:39 22	08:57 (41)	16:26	15:51
14	09:05	08:08	06:55		06:31	05:19	04:38	04:58	05:57	07:01	07:48 (42)	08:03	08:35 (41)	08:12	09:06
	16:22	17:30	18:33		20:40	21:44	22:31	22:21	21:20	19:58 15	08:03 (42)	18:36 21	08:56 (41)	16:24	15:51
15	09:04	08:05	06:53		06:28	05:17	04:38	04:59	05:59	07:03	07:46 (42)	08:06	08:36 (41)	08:14	09:07
	16:24	17:33	18:35		20:42	21:46	22:31	22:20	21:18	19:55 18	08:04 (42)	18:34 19	08:55 (41)	16:22	15:51
16	09:02	08:03	06:50		06:26	05:15	04:38	05:01	06:01	07:05	07:45 (42)	08:08	08:38 (41)	08:17	09:08
	16:26	17:35	18:38		20:44	21:48	22:32	22:18	21:15	19:53 19	08:04 (42)	18:31 16	08:54 (41)	16:20	15:51
17	09:01	08:00	06:47		06:23	05:13	04:38	05:03	06:03	07:07	07:44 (42)	08:10	08:40 (41)	08:19	09:09
	16:28	17:37	18:40		20:46	21:50	22:32	22:17	21:13	19:50 21	08:05 (42)	18:29 11	08:51 (41)	16:19	15:51
18	09:00	07:58	06:44		06:20	05:11	04:38	05:04	06:05	07:09	07:44 (42)	08:12	08:43 (41)	08:21	09:10
	16:30	17:40	18:42		20:49	21:52	22:33	22:15	21:10	19:47 20	08:04 (42)	18:26 5	08:48 (41)	16:17	15:51
19	08:58	07:56	06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:43 (42)	08:14		08:23	09:10
	16:32	17:42	18:44 6	07:13 (42)	20:51	21:54	22:33	22:14	21:08	19:44 21	08:04 (42)	18:23		16:15	15:51
20	08:57	07:53	06:39	07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:43 (42)	08:16		08:25	09:11
	16:34	17:44	18:46 10	07:15 (42)	20:53	21:55	22:34	22:12	21:05	19:42 20	08:03 (42)	18:21		16:14	15:52
21	08:55	07:51	06:36	07:02 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:44 (42)	08:19		08:27	09:12
	16:36	17:46	18:48 14	07:16 (42)	20:55	21:57	22:34	22:11	21:03	19:39 18	08:02 (42)	18:18		16:12	15:52
22	08:54	07:48	06:33	06:59 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:46 (42)	08:21		08:29	09:12
	16:38	17:49	18:51 17	07:16 (42)	20:57	21:59	22:34	22:09	21:00	19:36 15	08:01 (42)	18:16		16:10	15:52
23	08:52	07:46	06:31	06:57 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:48 (42)	08:23		08:31	09:13
	16:40	17:51	18:53 20	07:17 (42)	20:59	22:01	22:34	22:07	20:57	19:33 11	07:59 (42)	18:13		16:09	15:53
24	08:51	07:43 08:10 (41)	06:28	06:57 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:50 (42)	08:25		08:33	09:13
	16:42	17:53 8 08:18 (41)	18:55 20	07:17 (42)	21:02	22:03	22:34	22:05	20:55	19:31 7	07:57 (42)	18:11		16:07	15:54
25	08:49	07:40 08:08 (41)	06:25	06:56 (42)	06:03	04:59	04:39	05:17	06:19	07:23		07:28		08:35	09:14
	16:45	17:56 13 08:21 (41)	18:57 21	07:17 (42)	21:04	22:05	22:34	22:04	20:52	19:28		17:08		16:06	15:54
26	08:47	07:38 08:05 (41)	06:23	06:56 (42)	06:00	04:57	04:39	05:18	06:21	07:25		07:30		08:37	09:14
	16:47	17:58 17 08:22 (41)	18:59 20	07:16 (42)	21:06	22:06	22:34	22:02	20:50	19:25		17:06		16:05	15:55
27	08:45	07:35 08:03 (41)	06:20	06:56 (42)	05:58	04:56	04:40	05:20	06:24	07:27		07:32		08:39	09:14
	16:49	18:00 20 08:23 (41)	19:01 19	07:15 (42)	21:08	22:08	22:34	22:00	20:47	19:22		17:04		16:03	15:56
28	08:44	07:33 08:02 (41)	06:17	06:57 (42)	05:55	04:54	04:40	05:22	06:26	07:30		07:34		08:41	09:14
	16:51	18:02 22 08:24 (41)	19:03 18	07:15 (42)	21:10	22:10	22:34	21:58	20:44	19:20		17:01		16:02	15:57
29	08:42		07:14	07:57 (42)	05:53	04:53	04:41	05:24	06:28	07:32		07:36		08:43	09:14
	16:53		20:06 16	08:13 (42)	21:12	22:11	22:34	21:56	20:42	19:17		16:59		16:01	15:58
30	08:40		07:12	07:58 (42)	05:50	04:51	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56		20:08 13	08:11 (42)	21:14	22:13	22:33	21:54	20:39	19:14		16:56		16:00	15:59
31	08:38		07:09	08:00 (42)		04:50		05:28	06:32			07:41			09:14
	16:58		20:10 8	08:08 (42)		22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385		322		244	211
Total, worst case		80		399						203		284			
Sun reduction		0.33		0.46						0.50		0.42			
Oper. time red.		0.94		0.94						0.94		0.94			
Wind dir. red.		0.60		0.61						0.63		0.60			
Total reduction		0.19		0.26						0.29		0.24			
Total, real		15		105						59		68			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BD - Elki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June	July	August	September	October		November		December		
1	09:14		14:19 (7)	08:36		15:33 (1)	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36		07:43		15:12 (1)	08:47		14:07 (7)
	16:01	25	14:44 (7)	17:00	28	16:01 (1)	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11		16:51	12	15:24 (1)	15:58	22	14:29 (7)
2	09:13		14:19 (7)	08:34		15:34 (1)	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38		07:45		15:10 (1)	08:48		14:07 (7)
	16:02	25	14:44 (7)	17:02	27	16:01 (1)	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08		16:49	17	15:27 (1)	15:57	23	14:30 (7)
3	09:13		14:20 (7)	08:32		15:35 (1)	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40		07:47		15:08 (1)	08:50		14:07 (7)
	16:04	25	14:45 (7)	17:05	26	16:01 (1)	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06		16:47	20	15:28 (1)	15:56	24	14:31 (7)
4	09:13		14:20 (7)	08:30		15:35 (1)	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42		07:50		15:08 (1)	08:52		14:07 (7)
	16:05	25	14:45 (7)	17:07	26	16:01 (1)	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03		16:45	21	15:29 (1)	15:56	24	14:31 (7)
5	09:12		14:20 (7)	08:28		15:35 (1)	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44		07:52		15:06 (1)	08:53		14:06 (7)
	16:06	26	14:46 (7)	17:09	25	16:00 (1)	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00		16:42	24	15:30 (1)	15:55	25	14:31 (7)
6	09:12		14:21 (7)	08:25		15:37 (1)	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46		07:54		15:06 (1)	08:55		14:07 (7)
	16:08	25	14:46 (7)	17:11	23	16:00 (1)	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57		16:40	25	15:31 (1)	15:54	25	14:32 (7)
7	09:11		14:21 (7)	08:23		15:37 (1)	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48		07:56		15:05 (1)	08:57		14:07 (7)
	16:09	25	14:46 (7)	17:14	22	15:59 (1)	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55		16:38	26	15:31 (1)	15:53	26	14:33 (7)
8	09:10		14:22 (7)	08:21		15:39 (1)	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50		07:59		15:05 (1)	08:58		14:08 (7)
	16:11	24	14:46 (7)	17:16	19	15:58 (1)	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52		16:36	27	15:32 (1)	15:53	26	14:34 (7)
9	09:09		14:23 (7)	08:19		15:41 (1)	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52		08:01		15:05 (1)	08:59		14:08 (7)
	16:13	24	14:47 (7)	17:18	16	15:57 (1)	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49		16:34	27	15:32 (1)	15:52	26	14:34 (7)
10	09:09		14:23 (7)	08:17		15:43 (1)	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55		08:03		15:05 (1)	09:01		14:09 (7)
	16:14	24	14:47 (7)	17:21	11	15:54 (1)	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47		16:32	28	15:33 (1)	15:52	25	14:34 (7)
11	09:08		14:24 (7)	08:14			07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57		08:05		15:05 (1)	09:02		14:09 (7)
	16:16	23	14:47 (7)	17:23			18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44		16:30	27	15:32 (1)	15:51	26	14:35 (7)
12	09:07		14:25 (7)	08:12			07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59		08:08		15:05 (1)	09:03		14:09 (7)
	16:18	22	14:47 (7)	17:25			18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41		16:28	28	15:33 (1)	15:51	26	14:35 (7)
13	09:06		14:26 (7)	08:10			06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01		08:10		15:05 (1)	09:05		14:10 (7)
	16:20	21	14:47 (7)	17:28			18:31	20:38	21:41	22:30	22:22	21:22	20:01	18:39		16:26	27	15:32 (1)	15:51	26	14:36 (7)
14	09:05		14:27 (7)	08:07			06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03		08:12		15:05 (1)	09:06		14:10 (7)
	16:22	20	14:47 (7)	17:30			18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36		16:24	27	15:32 (1)	15:51	26	14:36 (7)
15	09:03		14:28 (7)	08:05			06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05		08:14		15:06 (1)	09:07		14:10 (7)
	16:23	18	14:46 (7)	17:32			18:35	20:42	21:46	22:31	22:19	21:17	19:55	18:33		16:22	26	15:32 (1)	15:51	26	14:36 (7)
16	09:02		14:30 (7)	08:03			06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07		08:16		15:06 (1)	09:08		14:11 (7)
	16:25	16	14:46 (7)	17:35			18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31		16:20	25	15:31 (1)	15:51	26	14:37 (7)
17	09:01		14:31 (7)	08:00			06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10		08:19		15:08 (1)	09:09		14:11 (7)
	16:27	14	14:45 (7)	17:37			18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28		16:18	23	15:31 (1)	15:51	26	14:37 (7)
18	09:00		14:32 (7)	07:58			06:44	06:20	05:11	04:37	05:04	06:04	07:09	08:12		08:21		15:08 (1)	09:09		14:12 (7)
	16:29	14	15:45 (1)	17:39			18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26		16:17	23	15:31 (1)	15:51	26	14:38 (7)
19	08:58		14:36 (7)	07:55			06:41	06:17	05:09	04:37	05:06	06:07	07:11	08:14		08:23		15:10 (1)	09:10		14:13 (7)
	16:31	17	15:50 (1)	17:42			18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23		16:15	21	15:31 (1)	15:51	26	14:39 (7)
20	08:57		15:38 (1)	07:53			06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16		08:25		15:10 (1)	09:11		14:12 (7)
	16:33	14	15:52 (1)	17:44			18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21		16:13	20	15:30 (1)	15:51	26	14:38 (7)
21	08:55		15:36 (1)	07:50			06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18		08:27		15:11 (1)	09:12		14:13 (7)
	16:36	17	15:53 (1)	17:46			18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18		16:12	17	15:28 (1)	15:52	26	14:39 (7)
22	08:54		15:35 (1)	07:48			06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21		08:29		15:14 (1)	09:12		14:13 (7)
	16:38	19	15:54 (1)	17:48			18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15		16:10	14	15:28 (1)	15:52	26	14:39 (7)
23	08:52		15:35 (1)	07:45			06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23		08:31		14:12 (7)	09:13		14:14 (7)
	16:40	21	15:56 (1)	17:51			18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13		16:08	17	15:26 (1)	15:53	26	14:40 (7)
24	08:50		15:34 (1)	07:43			06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25		08:33		14:10 (7)	09:13		14:15 (7)
	16:42	23	15:57 (1)	17:53			18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11		16:07	15	15:24 (1)	15:53	26	14:41 (7)
25	08:49		15:34 (1)	07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27		08:35		14:09 (7)	09:13		14:15 (7)
	16:44	24	15:58 (1)	17:55			18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08		16:06	14	14:23 (7)	15:54	26	14:41 (7)
26	08:47		15:33 (1)	07:38			06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29		08:37		14:08 (7)	09:14		14:15 (7)
	16:46	25	15:58 (1)	17:57			18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06		16:04	16	14:24 (7)	15:55	26	14:41 (7)
27	08:45		15:33 (1)	07:35			06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32		08:39		14:07 (7)	09:14		14:16 (7)
	16:49	26	15:59 (1)	18:00			19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03		16:03	18	14:25 (7)	15:55	26	14:42 (7)
28	08:43		15:33 (1)	07:32			06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34		08:41		14:06 (7)	09:14		14:16 (7)
	16:51	27	16:00 (1)	18:02			19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01		16:02	20	14:26 (7)	15:56	26	14:42 (7)
29	08:42		15:33 (1)				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36		08:43		14:07 (7)	09:14		14:17 (7)
	16:53	27	16:00 (1)				20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:58		16:01	21	14:28 (7)	15:57	26	14:43 (7)
30	08:40		15:34 (1)				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38		08:45		14:07 (7)	09:14		14:18 (7)
	16:55	27	16:01 (1)				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56		15:59	22	14:29 (7)	15:58	26	14:44 (7)
31	08:38		15:34 (1)				07:08		04:50		05:28	06:31		07:41	15:17 (1)				09:14		14:17 (7)
	16:58	27	16:01 (1)				20:10		22:14		21:52	20:36		16:54	3 15:20 (1)				15:59	26	14:43 (7)
Potential sun hours	231			264		366	428	512	534	534	472	385	322			244			211		
Total, worst case		690			223									3			648			792	
Sun reduction		0.28			0.33									0.42			0.23			0.23	
Oper. time red.		0.94			0.94									0.94			0.94			0.94	
Wind dir. red.		0.68			0.67									0.67			0.68			0.68	
Total reduction		0.18			0.21									0.27			0.15			0.15	
Total, real		121			47									1			95			115	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BE - Ezeri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April		May	June
1	09:13		10:09 (34)	08:36		09:28 (33)	07:30		08:01 (36)	07:06		08:33 (35)	05:47	04:49
	16:01	8	10:17 (34)	17:00	111	15:38 (11)	18:04	21	08:22 (36)	20:12	48	19:05 (9)	21:16	22:15
2	09:13		10:07 (34)	08:34		09:29 (33)	07:27		08:00 (36)	07:03		18:28 (9)	05:45	04:47
	16:02	11	10:18 (34)	17:02	108	15:38 (11)	18:06	22	08:22 (36)	20:14	37	19:05 (9)	21:18	22:17
3	09:13		10:06 (34)	08:32		09:30 (33)	07:24		07:59 (36)	07:00		18:28 (9)	05:43	04:46
	16:04	14	10:20 (34)	17:05	105	15:38 (11)	18:09	23	08:22 (36)	20:16	35	19:03 (9)	21:20	22:18
4	09:12		10:06 (34)	08:29		09:30 (33)	07:22		07:59 (36)	06:57		18:28 (9)	05:40	04:45
	16:05	16	10:22 (34)	17:07	101	15:36 (11)	18:11	22	08:21 (36)	20:18	34	19:02 (9)	21:23	22:20
5	09:12		10:06 (34)	08:27		09:31 (33)	07:19		07:59 (36)	06:55		18:29 (9)	05:38	04:44
	16:06	17	10:23 (34)	17:09	96	15:36 (11)	18:13	23	08:22 (36)	20:20	31	19:00 (9)	21:25	22:21
6	09:11		10:05 (34)	08:25		09:33 (33)	07:17		07:59 (36)	06:52		18:30 (9)	05:36	04:43
	16:08	19	10:24 (34)	17:11	86	15:35 (11)	18:15	22	08:21 (36)	20:22	30	19:00 (9)	21:27	22:22
7	09:11		10:05 (34)	08:23		09:34 (33)	07:14		07:59 (36)	06:49		18:31 (9)	05:33	04:42
	16:09	20	10:25 (34)	17:14	75	15:33 (11)	18:18	21	08:20 (36)	20:25	27	18:58 (9)	21:29	22:23
8	09:10		10:05 (34)	08:21		09:38 (33)	07:11		08:00 (36)	06:47		18:32 (9)	05:31	04:42
	16:11	21	10:26 (34)	17:16	59	15:32 (10)	18:20	18	08:18 (36)	20:27	23	18:55 (9)	21:31	22:25
9	09:09		10:04 (34)	08:19		14:37 (10)	07:08		08:02 (36)	06:44		18:35 (9)	05:29	04:41
	16:13	28	15:20 (11)	17:18	54	15:31 (10)	18:22	15	08:17 (36)	20:29	18	18:53 (9)	21:33	22:26
10	09:08		10:04 (34)	08:16		14:38 (10)	07:06		08:04 (36)	06:41		18:38 (9)	05:27	04:40
	16:14	35	15:23 (11)	17:21	54	15:32 (10)	18:24	10	08:14 (36)	20:31	11	18:49 (9)	21:35	22:27
11	09:07		10:04 (34)	08:14		14:39 (10)	07:03		07:41 (35)	06:39			05:25	04:39
	16:16	39	15:25 (11)	17:23	53	15:32 (10)	18:26	8	07:49 (35)	20:33			21:37	22:28
12	09:06		10:04 (34)	08:12		14:38 (10)	07:00		07:37 (35)	06:36			05:23	04:39
	16:18	42	15:26 (11)	17:25	54	15:32 (10)	18:29	16	07:53 (35)	20:35			21:39	22:29
13	09:05		10:04 (34)	08:10		14:39 (10)	06:58		07:35 (35)	06:33			05:20	04:38
	16:20	45	15:28 (11)	17:28	53	15:32 (10)	18:31	21	07:56 (35)	20:37			21:41	22:29
14	09:04		10:03 (34)	08:07		14:39 (10)	06:55		07:32 (35)	06:31			05:18	04:38
	16:22	49	15:29 (11)	17:30	52	15:31 (10)	18:33	34	18:04 (8)	20:40			21:43	22:30
15	09:03		10:03 (34)	08:05		14:39 (10)	06:52		07:30 (35)	06:28			05:16	04:38
	16:23	51	15:30 (11)	17:32	52	15:31 (10)	18:35	43	18:06 (8)	20:42			21:45	22:31
16	09:02		10:03 (34)	08:02		14:40 (10)	06:50		07:29 (35)	06:25			05:14	04:37
	16:25	53	15:31 (11)	17:35	51	15:31 (10)	18:37	47	18:07 (8)	20:44			21:47	22:31
17	09:01		10:03 (34)	08:00		14:40 (10)	06:47		07:28 (35)	06:23			05:12	04:37
	16:27	57	15:33 (11)	17:37	50	15:30 (10)	18:39	53	18:09 (8)	20:46			21:49	22:32
18	08:59		09:35 (33)	07:58		14:41 (10)	06:44		07:27 (35)	06:20			05:11	04:37
	16:29	72	15:33 (11)	17:39	49	15:30 (10)	18:42	60	18:09 (8)	20:48			21:51	22:33
19	08:58		09:33 (33)	07:55		14:41 (10)	06:41		07:26 (35)	06:17			05:09	04:37
	16:31	82	15:34 (11)	17:41	48	15:29 (10)	18:44	64	18:09 (8)	20:50			21:53	22:33
20	08:57		09:32 (33)	07:53		14:43 (10)	06:39		07:25 (35)	06:15			05:07	04:37
	16:34	90	15:35 (11)	17:44	45	15:28 (10)	18:46	67	18:09 (8)	20:52			21:55	22:33
21	08:55		09:30 (33)	07:50		14:43 (10)	06:36		07:25 (35)	06:12			05:05	04:37
	16:36	95	15:36 (11)	17:46	44	15:27 (10)	18:48	69	18:09 (8)	20:55			21:57	22:34
22	08:53		09:29 (33)	07:48		14:44 (10)	06:33		07:25 (35)	06:10			05:03	04:37
	16:38	99	15:36 (11)	17:48	41	15:25 (10)	18:50	70	18:09 (8)	20:57			21:59	22:34
23	08:52		09:28 (33)	07:45		14:46 (10)	06:30		07:25 (35)	06:07			05:02	04:38
	16:40	104	15:37 (11)	17:51	39	15:25 (10)	18:52	70	18:08 (8)	20:59			22:01	22:34
24	08:50		09:28 (33)	07:43		14:48 (10)	06:28		07:24 (35)	06:05			05:00	04:38
	16:42	106	15:37 (11)	17:53	35	15:23 (10)	18:54	70	18:07 (8)	21:01			22:02	22:34
25	08:49		09:27 (33)	07:40		08:07 (36)	06:25		07:24 (35)	06:02			04:58	04:38
	16:44	110	15:38 (11)	17:55	40	15:20 (10)	18:57	69	18:06 (9)	21:03			22:04	22:34
26	08:47		09:27 (33)	07:37		08:05 (36)	06:22		07:25 (35)	06:00			04:57	04:39
	16:46	111	15:38 (11)	17:57	39	15:18 (10)	18:59	69	18:07 (9)	21:05			22:06	22:34
27	08:45		09:27 (33)	07:35		08:02 (36)	06:19		07:26 (35)	05:57			04:55	04:39
	16:49	113	15:39 (11)	18:00	37	15:15 (10)	19:01	67	18:07 (9)	21:08			22:08	22:34
28	08:43		09:27 (33)	07:32		08:01 (36)	06:17		07:26 (35)	05:55			04:54	04:40
	16:51	113	15:39 (11)	18:02	25	15:07 (10)	19:03	66	18:06 (9)	21:10			22:09	22:34
29	08:41		09:28 (33)				07:14		08:27 (35)	05:52			04:52	04:41
	16:53	113	15:39 (11)				20:05	64	19:06 (9)	21:12			22:11	22:33
30	08:40		09:28 (33)				07:11		08:29 (35)	05:50			04:51	04:41
	16:55	113	15:39 (11)				20:07	59	19:06 (9)	21:14			22:12	22:33
31	08:38		09:27 (33)				07:08		08:30 (35)				04:50	
	16:58	112	15:38 (11)				20:10	56	19:06 (9)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		1958			1656			1339			294			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.64			0.67			0.62			0.64			
Total reduction		0.16			0.21			0.27			0.33			
Total, real		322			347			358			97			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BE - Ezeri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September			October			November			December		
1	04:42		05:30		06:34			07:35		08:14 (35)	07:43		14:08 (10)	08:46		09:45 (34)
	22:32		21:49		20:33			19:11	19	08:33 (35)	16:51	53	15:01 (10)	15:58	39	15:06 (11)
2	04:43		05:32		06:36		18:37 (9)	07:38		08:18 (35)	07:45		14:07 (10)	08:48		09:46 (34)
	22:32		21:47		20:31	11	18:48 (9)	19:08	12	08:30 (35)	16:49	54	15:01 (10)	15:57	35	15:05 (11)
3	04:44		05:34		06:38		18:33 (9)	07:40		08:43 (36)	07:47		09:07 (33)	08:50		09:48 (34)
	22:31		21:45		20:28	18	18:51 (9)	19:06	8	08:51 (36)	16:47	59	15:01 (10)	15:56	29	15:03 (11)
4	04:45		05:36		06:40		18:31 (9)	07:42		08:40 (36)	07:50		09:04 (33)	08:52		09:49 (34)
	22:31		21:43		20:25	22	18:53 (9)	19:03	13	08:53 (36)	16:45	77	15:03 (11)	15:56	21	10:10 (34)
5	04:46		05:38		06:42		18:28 (9)	07:44		08:38 (36)	07:52		09:03 (33)	08:53		09:50 (34)
	22:30		21:41		20:22	27	18:55 (9)	19:00	17	08:55 (36)	16:42	88	15:05 (11)	15:55	20	10:10 (34)
6	04:47		05:40		06:44		18:27 (9)	07:46		08:36 (36)	07:54		09:01 (33)	08:55		09:51 (34)
	22:29		21:38		20:20	29	18:56 (9)	18:57	19	08:55 (36)	16:40	96	15:06 (11)	15:54	19	10:10 (34)
7	04:48		05:42		06:46		18:25 (9)	07:48		08:35 (36)	07:56		09:01 (33)	08:56		09:53 (34)
	22:28		21:36		20:17	32	18:57 (9)	18:55	21	08:56 (36)	16:38	101	15:07 (11)	15:53	17	10:10 (34)
8	04:49		05:44		06:48		18:24 (9)	07:50		08:35 (36)	07:58		08:59 (33)	08:58		09:54 (34)
	22:27		21:34		20:14	33	18:57 (9)	18:52	22	08:57 (36)	16:36	107	15:08 (11)	15:53	15	10:09 (34)
9	04:51		05:46		06:50		18:22 (9)	07:52		08:34 (36)	08:01		09:00 (33)	08:59		09:55 (34)
	22:26		21:32		20:12	36	18:58 (9)	18:49	23	08:57 (36)	16:34	108	15:09 (11)	15:52	14	10:09 (34)
10	04:52		05:48		06:52		18:21 (9)	07:54		08:33 (36)	08:03		08:59 (33)	09:01		09:56 (34)
	22:25		21:29		20:09	37	18:58 (9)	18:47	23	08:56 (36)	16:32	111	15:09 (11)	15:52	12	10:08 (34)
11	04:53		05:50		06:54		08:27 (35)	07:57		08:33 (36)	08:05		08:59 (33)	09:02		09:58 (34)
	22:24		21:27		20:06	46	18:58 (9)	18:44	23	08:56 (36)	16:30	112	15:10 (11)	15:51	10	10:08 (34)
12	04:55		05:52		06:56		08:22 (35)	07:59		08:34 (36)	08:07		08:59 (33)	09:03		10:00 (34)
	22:23		21:25		20:03	54	18:57 (9)	18:41	22	08:56 (36)	16:28	113	15:10 (11)	15:51	6	10:06 (34)
13	04:56		05:54		06:58		08:19 (35)	08:01		08:34 (36)	08:10		08:59 (33)	09:04		
	22:22		21:22		20:01	60	18:57 (9)	18:39	21	08:55 (36)	16:26	114	15:11 (11)	15:51		
14	04:58		05:56		07:00		08:17 (35)	08:03		08:34 (36)	08:12		08:59 (33)	09:05		
	22:21		21:20		19:58	63	18:56 (9)	18:36	32	15:44 (10)	16:24	114	15:11 (11)	15:51		
15	04:59		05:58		07:02		08:16 (35)	08:05		08:35 (36)	08:14		09:00 (33)	09:06		
	22:19		21:17		19:55	66	18:56 (9)	18:33	39	15:48 (10)	16:22	112	15:11 (11)	15:51		
16	05:01		06:00		07:04		08:15 (35)	08:07		08:38 (36)	08:16		09:00 (33)	09:07		
	22:18		21:15		19:52	68	18:56 (9)	18:31	41	15:51 (10)	16:20	112	15:11 (11)	15:51		
17	05:02		06:02		07:06		08:14 (35)	08:10		08:40 (36)	08:18		09:01 (33)	09:08		
	22:16		21:12		19:50	69	18:56 (9)	18:28	39	15:53 (10)	16:18	110	15:12 (11)	15:51		
18	05:04		06:04		07:08		08:13 (35)	08:12		15:18 (10)	08:21		09:02 (33)	09:09		
	22:15		21:10		19:47	69	18:55 (9)	18:26	36	15:54 (10)	16:17	106	15:11 (11)	15:51		
19	05:06		06:07		07:11		08:12 (35)	08:14		15:17 (10)	08:23		09:02 (33)	09:10		
	22:13		21:07		19:44	69	18:54 (9)	18:23	39	15:56 (10)	16:15	104	15:11 (11)	15:51		
20	05:07		06:09		07:13		08:11 (35)	08:16		15:15 (10)	08:25		09:04 (33)	09:11		
	22:12		21:05		19:41	70	18:55 (8)	18:21	42	15:57 (10)	16:13	99	15:11 (11)	15:51		
21	05:09		06:11		07:15		08:11 (35)	08:18		15:13 (10)	08:27		09:05 (33)	09:11		
	22:10		21:02		19:38	70	18:55 (8)	18:18	45	15:58 (10)	16:12	95	15:11 (11)	15:52		
22	05:11		06:13		07:17		08:10 (35)	08:20		15:13 (10)	08:29		09:08 (33)	09:12		
	22:08		21:00		19:36	69	18:54 (8)	18:15	46	15:59 (10)	16:10	90	15:11 (11)	15:52		
23	05:13		06:15		07:19		08:10 (35)	08:23		15:11 (10)	08:31		09:10 (33)	09:12		
	22:07		20:57		19:33	67	18:54 (8)	18:13	48	15:59 (10)	16:08	82	15:11 (11)	15:53		
24	05:14		06:17		07:21		08:10 (35)	08:25		15:10 (10)	08:33		09:12 (33)	09:13		
	22:05		20:54		19:30	65	18:53 (8)	18:10	49	15:59 (10)	16:07	73	15:10 (11)	15:53		
25	05:16		06:19		07:23		08:10 (35)	07:27		14:10 (10)	08:35		09:42 (34)	09:13		
	22:03		20:52		19:27	61	18:52 (8)	17:08	50	15:00 (10)	16:06	56	15:11 (11)	15:54		
26	05:18		06:21		07:25		08:10 (35)	07:29		14:09 (10)	08:37		09:42 (34)	09:13		
	22:01		20:49		19:25	56	18:51 (8)	17:06	51	15:00 (10)	16:04	53	15:10 (11)	15:55		
27	05:20		06:23		07:27		08:10 (35)	07:32		14:09 (10)	08:39		09:42 (34)	09:14		
	21:59		20:47		19:22	50	18:49 (8)	17:03	52	15:01 (10)	16:03	51	15:09 (11)	15:55		
28	05:22		06:25		07:29		08:11 (35)	07:34		14:08 (10)	08:41		09:43 (34)	09:14		
	21:57		20:44		19:19	45	18:48 (8)	17:01	53	15:01 (10)	16:02	49	15:09 (11)	15:56		
29	05:24		06:27		07:31		08:12 (35)	07:36		14:08 (10)	08:43		09:44 (34)	09:14		
	21:55		20:41		19:16	38	18:45 (8)	16:58	54	15:02 (10)	16:01	46	15:08 (11)	15:57		
30	05:26		06:29		07:33		08:13 (35)	07:38		14:08 (10)	08:45		09:45 (34)	09:14		
	21:53		20:39		19:14	22	08:35 (35)	16:56	53	15:01 (10)	15:59	42	15:07 (11)	15:58		
31	05:28		06:31					07:41		14:07 (10)				09:14		10:09 (34)
	21:51		20:36					16:54	54	15:01 (10)				15:59	5	10:14 (34)
Potential sun hours	534		472		385			322			244			211		
Total, worst case						1422			1066			2587			242	
Sun reduction						0.50			0.42			0.23			0.23	
Oper. time red.						0.94			0.94			0.94			0.94	
Wind dir. red.						0.63			0.66			0.65			0.61	
Total reduction						0.29			0.26			0.14			0.13	
Total, real						417			281			360			31	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BF - Ezerkrogs

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April		May	June
1	09:13		10:47 (34)	08:36		09:51 (33)	07:30		08:02 (36)	07:06		08:05 (35)	05:47	04:48
	16:01	37	11:24 (34)	17:00	62	11:33 (34)	18:04	63	16:59 (10)	20:12	74	19:34 (9)	21:16	22:15
2	09:13		10:47 (34)	08:34		09:52 (33)	07:27		08:01 (36)	07:03		08:05 (35)	05:45	04:47
	16:02	37	11:24 (34)	17:02	60	11:33 (34)	18:06	66	16:59 (10)	20:14	76	19:35 (9)	21:18	22:17
3	09:13		10:47 (34)	08:32		09:53 (33)	07:24		07:59 (36)	07:00		08:04 (35)	05:43	04:46
	16:04	38	11:25 (34)	17:04	66	16:26 (11)	18:09	68	16:59 (10)	20:16	78	19:35 (9)	21:20	22:18
4	09:12		10:47 (34)	08:29		09:54 (33)	07:22		07:58 (36)	06:57		08:03 (35)	05:40	04:45
	16:05	39	11:26 (34)	17:07	66	16:28 (11)	18:11	70	16:58 (10)	20:18	79	19:34 (9)	21:23	22:20
5	09:12		10:47 (34)	08:27		09:55 (33)	07:19		07:58 (36)	06:55		08:02 (35)	05:38	04:44
	16:06	39	11:26 (34)	17:09	65	16:30 (11)	18:13	71	16:59 (10)	20:20	80	19:34 (9)	21:25	22:21
6	09:11		10:47 (34)	08:25		09:58 (33)	07:16		07:57 (36)	06:52		08:02 (35)	05:36	04:43
	16:08	40	11:27 (34)	17:11	57	16:32 (11)	18:15	71	16:58 (10)	20:22	80	19:34 (9)	21:27	22:22
7	09:11		10:48 (34)	08:23		10:00 (33)	07:14		07:56 (36)	06:49		08:02 (35)	05:33	04:42
	16:09	40	11:28 (34)	17:14	49	16:32 (11)	18:17	72	16:57 (10)	20:24	79	19:33 (9)	21:29	22:23
8	09:10		10:48 (34)	08:21		11:12 (34)	07:11		07:55 (36)	06:47		08:01 (35)	05:31	04:42
	16:11	40	11:28 (34)	17:16	32	16:33 (11)	18:20	71	16:56 (10)	20:27	78	19:32 (9)	21:31	22:25
9	09:09		09:55 (33)	08:19		16:08 (11)	07:08		07:56 (36)	06:44		08:02 (35)	05:29	04:41
	16:13	46	11:29 (34)	17:18	25	16:33 (11)	18:22	69	16:56 (10)	20:29	76	19:32 (9)	21:33	22:26
10	09:08		09:53 (33)	08:16		16:08 (11)	07:06		07:56 (36)	06:41		08:01 (35)	05:27	04:40
	16:14	52	11:30 (34)	17:21	26	16:34 (11)	18:24	67	16:55 (10)	20:31	74	19:30 (9)	21:35	22:27
11	09:07		09:51 (33)	08:14		16:07 (11)	07:03		07:56 (36)	06:39		08:02 (35)	05:25	04:39
	16:16	55	11:30 (34)	17:23	27	16:34 (11)	18:26	65	16:54 (10)	20:33	72	19:30 (9)	21:37	22:28
12	09:06		09:51 (33)	08:12		16:07 (11)	07:00		07:56 (36)	06:36		08:02 (35)	05:23	04:39
	16:18	58	11:31 (34)	17:25	28	16:35 (11)	18:28	61	16:52 (10)	20:35	68	19:28 (9)	21:39	22:28
13	09:05		09:50 (33)	08:10		16:08 (11)	06:58		07:57 (36)	06:33		08:01 (35)	05:20	04:38
	16:20	61	11:32 (34)	17:28	28	16:36 (11)	18:31	56	16:51 (10)	20:37	64	19:25 (9)	21:41	22:29
14	09:04		09:49 (33)	08:07		16:07 (11)	06:55		07:58 (36)	06:31		08:02 (35)	05:18	04:38
	16:22	64	11:32 (34)	17:30	28	16:35 (11)	18:33	50	16:49 (10)	20:40	57	19:23 (9)	21:43	22:30
15	09:03		09:49 (33)	08:05		16:07 (11)	06:52		07:59 (36)	06:28		08:02 (35)	05:16	04:38
	16:23	65	11:33 (34)	17:32	27	16:34 (11)	18:35	43	16:47 (10)	20:42	44	08:46 (35)	21:45	22:31
16	09:02		09:48 (33)	08:02		16:08 (11)	06:49		08:01 (36)	06:25		08:04 (35)	05:14	04:37
	16:25	67	11:33 (34)	17:35	26	16:34 (11)	18:37	33	16:44 (10)	20:44	41	08:45 (35)	21:47	22:31
17	09:01		09:49 (33)	08:00		16:08 (11)	06:47		16:29 (10)	06:23		08:04 (35)	05:12	04:37
	16:27	68	11:34 (34)	17:37	31	16:41 (10)	18:39	10	16:39 (10)	20:46	39	08:43 (35)	21:49	22:32
18	08:59		09:48 (33)	07:58		16:10 (11)	06:44			06:20		08:05 (35)	05:11	04:37
	16:29	70	11:34 (34)	17:39	37	16:47 (10)	18:42			20:48	37	08:42 (35)	21:51	22:32
19	08:58		09:48 (33)	07:55		16:10 (11)	06:41			06:17		08:06 (35)	05:09	04:37
	16:31	71	11:34 (34)	17:41	39	16:49 (10)	18:44			20:50	34	08:40 (35)	21:53	22:33
20	08:56		09:48 (33)	07:53		16:12 (11)	06:39			06:15		08:08 (35)	05:07	04:37
	16:33	72	11:35 (34)	17:44	40	16:52 (10)	18:46			20:52	30	08:38 (35)	21:55	22:33
21	08:55		09:48 (33)	07:50		16:14 (11)	06:36			06:12		08:09 (35)	05:05	04:37
	16:36	72	11:35 (34)	17:46	39	16:53 (10)	18:48			20:55	26	08:35 (35)	21:57	22:34
22	08:53		09:48 (33)	07:48		16:16 (11)	06:33		07:27 (35)	06:10		08:11 (35)	05:03	04:37
	16:38	72	11:35 (34)	17:48	38	16:54 (10)	18:50	11	07:38 (35)	20:57	22	08:33 (35)	21:59	22:34
23	08:52		09:48 (33)	07:45		16:20 (10)	06:30		07:22 (35)	06:07		08:14 (35)	05:02	04:38
	16:40	73	11:35 (34)	17:51	36	16:56 (10)	18:52	21	07:43 (35)	20:59	15	08:29 (35)	22:01	22:34
24	08:50		09:48 (33)	07:43		16:19 (10)	06:28		07:18 (35)	06:05			05:00	04:38
	16:42	74	11:36 (34)	17:53	38	16:57 (10)	18:54	27	07:45 (35)	21:01			22:02	22:34
25	08:49		09:48 (33)	07:40		16:18 (10)	06:25		07:15 (35)	06:02			04:58	04:38
	16:44	73	11:36 (34)	17:55	39	16:57 (10)	18:57	32	07:47 (35)	21:03			22:04	22:34
26	08:47		09:48 (33)	07:37		16:18 (10)	06:22		07:14 (35)	06:00			04:57	04:39
	16:46	74	11:36 (34)	17:57	40	16:58 (10)	18:59	35	07:49 (35)	21:05			22:06	22:34
27	08:45		09:48 (33)	07:35		08:08 (36)	06:19		07:12 (35)	05:57			04:55	04:39
	16:49	72	11:35 (34)	18:00	50	16:58 (10)	19:01	47	18:27 (9)	21:08			22:08	22:34
28	08:43		09:49 (33)	07:32		08:04 (36)	06:17		07:10 (35)	05:55			04:54	04:40
	16:51	70	11:35 (34)	18:02	57	16:58 (10)	19:03	55	18:29 (9)	21:10			22:09	22:33
29	08:41		09:49 (33)				07:14		08:08 (35)	05:52			04:52	04:41
	16:53	69	11:35 (34)				20:05	63	19:31 (9)	21:12			22:11	22:33
30	08:39		09:50 (33)				07:11		08:08 (35)	05:50			04:51	04:41
	16:55	68	11:35 (34)				20:07	67	19:33 (9)	21:14			22:12	22:33
31	08:38		09:50 (33)				07:08		08:06 (35)				04:50	
	16:58	66	11:34 (34)				20:09	71	19:33 (9)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		1842			1156			1435			1323			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.61			0.65			0.64			0.63			
Total reduction		0.16			0.20			0.28			0.32			
Total, real		288			237			395			424			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BF - Ezerkrogs

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August		September		October		November		December		
1	04:42	05:30		06:33		08:01 (35)	07:35	08:35 (36)	07:43	15:37 (11)	08:46	09:33 (33)
	22:32	21:49		20:33	72	19:29 (9)	19:11	17:31 (10)	16:51	16:04 (11)	15:58	11:12 (34)
2	04:43	05:32		06:36		08:00 (35)	07:37	08:35 (36)	07:45	15:37 (11)	08:48	09:35 (33)
	22:32	21:47		20:31	74	19:29 (9)	19:08	17:32 (10)	16:49	16:03 (11)	15:57	11:12 (34)
3	04:44	05:34		06:38		08:00 (35)	07:40	08:34 (36)	07:47	10:40 (34)	08:50	09:38 (33)
	22:31	21:45		20:28	76	19:30 (9)	19:05	17:33 (10)	16:47	16:03 (11)	15:56	11:12 (34)
4	04:45	05:36		06:40		07:59 (35)	07:42	08:33 (36)	07:49	09:29 (33)	08:52	10:32 (34)
	22:31	21:43		20:25	78	19:30 (9)	19:03	17:33 (10)	16:44	16:02 (11)	15:56	11:13 (34)
5	04:46	05:38		06:42		07:59 (35)	07:44	08:33 (36)	07:52	09:27 (33)	08:53	10:33 (34)
	22:30	21:41		20:22	79	19:30 (9)	19:00	17:33 (10)	16:42	16:01 (11)	15:55	11:13 (34)
6	04:47	05:40		06:44		07:59 (35)	07:46	08:32 (36)	07:54	09:25 (33)	08:55	10:34 (34)
	22:29	21:38		20:20	79	19:30 (9)	18:57	17:33 (10)	16:40	15:59 (11)	15:54	11:13 (34)
7	04:48	05:42		06:46		07:58 (35)	07:48	08:32 (36)	07:56	09:24 (33)	08:56	10:34 (34)
	22:28	21:36		20:17	80	19:30 (9)	18:55	17:33 (10)	16:38	15:58 (11)	15:53	11:14 (34)
8	04:49	05:44		06:48		07:58 (35)	07:50	08:33 (36)	07:58	09:23 (33)	08:58	10:35 (34)
	22:27	21:34		20:14	79	19:29 (9)	18:52	17:34 (10)	16:36	15:55 (11)	15:53	11:13 (34)
9	04:51	05:46		06:50		07:57 (35)	07:52	08:33 (36)	08:01	09:22 (33)	08:59	10:36 (34)
	22:26	21:32		20:12	78	19:28 (9)	18:49	17:33 (10)	16:34	11:04 (34)	15:52	11:14 (34)
10	04:52	05:48		06:52		07:57 (35)	07:54	08:33 (36)	08:03	09:21 (33)	09:01	10:36 (34)
	22:25	21:29		20:09	77	19:27 (9)	18:47	17:33 (10)	16:32	11:04 (34)	15:52	11:13 (34)
11	04:53	05:50		06:54		07:57 (35)	07:57	08:33 (36)	08:05	09:22 (33)	09:02	10:37 (34)
	22:24	21:27		20:06	75	19:26 (9)	18:44	17:32 (10)	16:30	11:06 (34)	15:51	11:14 (34)
12	04:55	05:52		06:56		07:58 (35)	07:59	08:34 (36)	08:07	09:21 (33)	09:03	10:37 (34)
	22:23	21:24		20:03	71	19:25 (9)	18:41	17:32 (10)	16:28	11:06 (34)	15:51	11:14 (34)
13	04:56	05:54		06:58		07:58 (35)	08:01	08:36 (36)	08:10	09:21 (33)	09:04	10:38 (34)
	22:22	21:22		20:01	68	19:23 (9)	18:39	17:32 (10)	16:26	11:07 (34)	15:51	11:14 (34)
14	04:58	05:56		07:00		07:59 (35)	08:03	08:38 (36)	08:12	09:21 (33)	09:05	10:39 (34)
	22:21	21:20		19:58	64	19:22 (9)	18:36	17:31 (10)	16:24	11:07 (34)	15:51	11:15 (34)
15	04:59	05:58		07:02		07:59 (35)	08:05	08:43 (36)	08:14	09:21 (33)	09:06	10:40 (34)
	22:19	21:17		19:55	57	19:19 (9)	18:33	17:30 (10)	16:22	11:08 (34)	15:51	11:15 (34)
16	05:01	06:00		07:04		08:00 (35)	08:07	16:50 (10)	08:16	09:21 (33)	09:07	10:40 (34)
	22:18	21:15		19:52	49	19:16 (9)	18:31	17:30 (10)	16:20	11:08 (34)	15:51	11:15 (34)
17	05:02	06:02		07:06		08:01 (35)	08:09	16:50 (10)	08:18	09:22 (33)	09:08	10:41 (34)
	22:16	21:12		19:49	36	08:37 (35)	18:28	17:29 (10)	16:18	11:10 (34)	15:51	11:16 (34)
18	05:04	06:04		07:08		08:03 (35)	08:12	16:50 (10)	08:20	09:22 (33)	09:09	10:41 (34)
	22:15	21:10		19:47	33	08:36 (35)	18:26	17:27 (10)	16:17	11:10 (34)	15:51	11:15 (34)
19	05:06	06:07	08:26 (35)	07:11		08:05 (35)	08:14	16:52 (10)	08:23	09:22 (33)	09:10	10:42 (34)
	22:13	21:07	2 08:28 (35)	19:44	28	08:33 (35)	18:23	17:27 (10)	16:15	11:09 (34)	15:51	11:16 (34)
20	05:07	06:09	08:19 (35)	07:13		08:07 (35)	08:16	16:46 (11)	08:25	09:23 (33)	09:11	10:42 (34)
	22:12	21:05	16 08:35 (35)	19:41	23	08:30 (35)	18:20	17:25 (10)	16:13	11:10 (34)	15:51	11:17 (34)
21	05:09	06:11	08:15 (35)	07:15		08:11 (35)	08:18	16:43 (11)	08:27	09:23 (33)	09:11	10:42 (34)
	22:10	21:02	23 08:38 (35)	19:38	15	08:26 (35)	18:18	17:23 (10)	16:12	11:10 (34)	15:52	11:16 (34)
22	05:11	06:13	08:13 (35)	07:17			08:20	16:42 (11)	08:29	09:24 (33)	09:12	10:43 (34)
	22:08	21:00	27 08:40 (35)	19:36			18:15	17:22 (10)	16:10	11:11 (34)	15:52	11:17 (34)
23	05:13	06:15	08:11 (35)	07:19			08:23	16:40 (11)	08:31	09:25 (33)	09:12	10:43 (34)
	22:07	20:57	31 08:42 (35)	19:33			18:13	17:19 (10)	16:08	11:11 (34)	15:53	11:18 (34)
24	05:14	06:17	08:09 (35)	07:21			08:25	16:39 (11)	08:33	09:25 (33)	09:13	10:44 (34)
	22:05	20:54	35 08:44 (35)	19:30			18:10	17:15 (10)	16:07	11:11 (34)	15:53	11:19 (34)
25	05:16	06:19	08:08 (35)	07:23			08:27	15:38 (11)	08:35	09:27 (33)	09:13	10:45 (34)
	22:03	20:52	37 08:45 (35)	19:27			17:08	16:04 (11)	16:06	11:12 (34)	15:54	11:19 (34)
26	05:18	06:21	08:06 (35)	07:25		17:15 (10)	07:29	15:37 (11)	08:37	09:27 (33)	09:13	10:45 (34)
	22:01	20:49	40 08:46 (35)	19:25	3	17:18 (10)	17:06	16:04 (11)	16:04	11:12 (34)	15:55	11:20 (34)
27	05:20	06:23	08:05 (35)	07:27		08:44 (36)	07:32	15:38 (11)	08:39	09:28 (33)	09:14	10:45 (34)
	21:59	20:47	42 08:47 (35)	19:22	27	17:24 (10)	17:03	16:05 (11)	16:03	11:12 (34)	15:55	11:20 (34)
28	05:22	06:25	08:04 (35)	07:29		08:41 (36)	07:34	15:37 (11)	08:41	09:29 (33)	09:14	10:46 (34)
	21:57	20:44	44 08:48 (35)	19:19	39	17:27 (10)	17:01	16:04 (11)	16:02	11:12 (34)	15:56	11:21 (34)
29	05:24	06:27	08:03 (35)	07:31		08:39 (36)	07:36	15:36 (11)	08:43	09:30 (33)	09:14	10:46 (34)
	21:55	20:41	57 19:24 (9)	19:16	47	17:28 (10)	16:58	16:04 (11)	16:01	11:12 (34)	15:57	11:22 (34)
30	05:26	06:29	08:02 (35)	07:33		08:37 (36)	07:38	15:37 (11)	08:45	09:32 (33)	09:14	10:46 (34)
	21:53	20:39	64 19:26 (9)	19:14	54	17:30 (10)	16:56	16:04 (11)	15:59	11:12 (34)	15:58	11:22 (34)
31	05:28	06:31	08:02 (35)				07:40	15:37 (11)			09:14	10:46 (34)
	21:51	20:36	68 19:28 (9)				16:54	16:04 (11)			15:59	11:23 (34)
Potential sun hours	534	472		385			322		244		211	
Total, worst case			486		1461			1504		1897		1167
Sun reduction			0.59		0.50			0.42		0.23		0.23
Oper. time red.			0.94		0.94			0.94		0.94		0.94
Wind dir. red.			0.62		0.63			0.66		0.61		0.61
Total reduction			0.34		0.29			0.26		0.13		0.13
Total, real			167		428			394		250		152

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BG - Ezermali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:13		10:14 (34)	08:36		09:40 (33)	07:30		08:08 (36)	07:06		18:25 (9)	05:47	04:49
	16:01	25	10:39 (34)	17:00	90	15:38 (11)	18:04	24	08:32 (36)	20:12	27	18:52 (9)	21:16	22:15
2	09:13		10:14 (34)	08:34		09:41 (33)	07:27		08:08 (36)	07:03		18:27 (9)	05:45	04:47
	16:02	25	10:39 (34)	17:02	84	15:38 (11)	18:06	23	08:31 (36)	20:14	24	18:51 (9)	21:18	22:17
3	09:13		10:14 (34)	08:32		09:43 (33)	07:24		08:08 (36)	07:00		18:29 (9)	05:43	04:46
	16:04	26	10:40 (34)	17:04	73	15:38 (11)	18:09	22	08:30 (36)	20:16	19	18:48 (9)	21:20	22:18
4	09:12		10:14 (34)	08:29		09:45 (33)	07:22		08:08 (36)	06:57		18:31 (9)	05:40	04:45
	16:05	27	10:41 (34)	17:07	62	15:36 (11)	18:11	21	08:29 (36)	20:18	14	18:45 (9)	21:23	22:20
5	09:12		10:14 (34)	08:27		14:44 (10)	07:19		08:10 (36)	06:55			05:38	04:44
	16:06	28	10:42 (34)	17:09	51	15:35 (11)	18:13	18	08:28 (36)	20:20			21:25	22:21
6	09:11		10:14 (34)	08:25		14:45 (10)	07:17		08:11 (36)	06:52			05:36	04:43
	16:08	28	10:42 (34)	17:11	49	15:34 (10)	18:15	15	08:26 (36)	20:22			21:27	22:22
7	09:11		10:14 (34)	08:23		14:44 (10)	07:14		07:52 (35)	06:49			05:33	04:42
	16:09	29	10:43 (34)	17:14	49	15:33 (10)	18:18	25	08:24 (36)	20:25			21:29	22:23
8	09:10		10:14 (34)	08:21		14:45 (10)	07:11		07:49 (35)	06:47			05:31	04:42
	16:11	33	15:20 (11)	17:16	49	15:34 (10)	18:20	20	08:18 (36)	20:27			21:31	22:25
9	09:09		10:15 (34)	08:19		14:44 (10)	07:08		07:47 (35)	06:44			05:29	04:41
	16:13	39	15:23 (11)	17:18	49	15:33 (10)	18:22	23	08:10 (35)	20:29			21:33	22:26
10	09:08		10:15 (34)	08:16		14:45 (10)	07:06		07:45 (35)	06:41			05:27	04:40
	16:14	43	15:25 (11)	17:21	49	15:34 (10)	18:24	26	08:11 (35)	20:31			21:35	22:27
11	09:07		10:15 (34)	08:14		14:46 (10)	07:03		07:43 (35)	06:39			05:25	04:39
	16:16	46	15:27 (11)	17:23	48	15:34 (10)	18:26	30	17:55 (8)	20:33			21:37	22:28
12	09:06		10:15 (34)	08:12		14:46 (10)	07:00		07:42 (35)	06:36			05:23	04:39
	16:18	48	15:28 (11)	17:25	47	15:33 (10)	18:29	42	17:59 (8)	20:35			21:39	22:29
13	09:05		09:43 (33)	08:10		14:47 (10)	06:58		07:41 (35)	06:33			05:20	04:38
	16:20	56	15:30 (11)	17:28	46	15:33 (10)	18:31	54	18:02 (8)	20:37			21:41	22:29
14	09:04		09:41 (33)	08:07		14:47 (10)	06:55		07:40 (35)	06:31			05:18	04:38
	16:22	61	15:30 (11)	17:30	45	15:32 (10)	18:33	61	18:03 (8)	20:40			21:43	22:30
15	09:03		09:40 (33)	08:05		14:47 (10)	06:52		07:39 (35)	06:28			05:16	04:38
	16:23	67	15:32 (11)	17:32	44	15:31 (10)	18:35	66	18:04 (8)	20:42			21:45	22:31
16	09:02		09:38 (33)	08:02		14:48 (10)	06:50		07:38 (35)	06:25			05:14	04:37
	16:25	81	15:33 (11)	17:35	43	15:31 (10)	18:37	70	18:04 (8)	20:44			21:47	22:31
17	09:01		09:38 (33)	08:00		14:49 (10)	06:47		07:39 (35)	06:23			05:12	04:37
	16:27	88	15:34 (11)	17:37	41	15:30 (10)	18:39	70	18:05 (8)	20:46			21:49	22:32
18	08:59		09:37 (33)	07:58		14:51 (10)	06:44		07:38 (35)	06:20			05:11	04:37
	16:29	92	15:35 (11)	17:39	38	15:29 (10)	18:42	73	18:05 (8)	20:48			21:51	22:33
19	08:58		09:36 (33)	07:55		14:51 (10)	06:41		07:38 (35)	06:17			05:09	04:37
	16:31	96	15:35 (11)	17:41	37	15:28 (10)	18:44	73	18:04 (8)	20:50			21:53	22:33
20	08:57		09:37 (33)	07:53		14:54 (10)	06:39		07:38 (35)	06:15			05:07	04:37
	16:33	99	15:37 (11)	17:44	33	15:27 (10)	18:46	72	18:03 (8)	20:52			21:55	22:33
21	08:55		09:36 (33)	07:50		08:19 (36)	06:36		07:37 (35)	06:12			05:05	04:37
	16:36	102	15:37 (11)	17:46	34	15:25 (10)	18:48	72	18:02 (8)	20:55			21:57	22:34
22	08:53		09:36 (33)	07:48		08:15 (36)	06:33		07:39 (35)	06:10			05:03	04:37
	16:38	104	15:38 (11)	17:48	36	15:22 (10)	18:50	70	18:02 (8)	20:57			21:59	22:34
23	08:52		09:36 (33)	07:45		08:13 (36)	06:30		07:39 (35)	06:07			05:02	04:38
	16:40	105	15:38 (11)	17:51	35	15:20 (10)	18:52	68	18:00 (9)	20:59			22:01	22:34
24	08:50		09:36 (33)	07:43		08:11 (36)	06:28		07:39 (35)	06:05			05:00	04:38
	16:42	105	15:38 (11)	17:53	27	15:14 (10)	18:54	65	17:59 (9)	21:01			22:02	22:34
25	08:49		09:36 (33)	07:40		08:10 (36)	06:25		07:40 (35)	06:02			04:58	04:38
	16:44	106	15:39 (11)	17:55	20	08:30 (36)	18:57	63	17:59 (9)	21:03			22:04	22:34
26	08:47		09:36 (33)	07:37		08:09 (36)	06:22		07:42 (35)	06:00			04:57	04:39
	16:46	106	15:39 (11)	17:57	22	08:31 (36)	18:59	59	17:59 (9)	21:05			22:06	22:34
27	08:45		09:37 (33)	07:35		08:09 (36)	06:19		07:43 (35)	05:57			04:55	04:39
	16:49	104	15:39 (11)	18:00	22	08:31 (36)	19:01	54	17:58 (9)	21:08			22:08	22:34
28	08:43		09:37 (33)	07:32		08:08 (36)	06:17		07:46 (35)	05:55			04:54	04:40
	16:51	105	15:39 (11)	18:02	23	08:31 (36)	19:03	46	17:57 (9)	21:10			22:09	22:34
29	08:41		09:38 (33)				07:14		18:23 (9)	05:52			04:52	04:41
	16:53	103	15:40 (11)				20:05	33	18:56 (9)	21:12			22:11	22:33
30	08:40		09:39 (33)				07:11		18:24 (9)	05:50			04:51	04:41
	16:55	100	15:40 (11)				20:07	31	18:55 (9)	21:14			22:12	22:33
31	08:38		09:39 (33)				07:08		18:24 (9)				04:50	
	16:58	94	15:38 (11)				20:09	30	18:54 (9)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		2171			1246			1419			84			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.64			0.67			0.62			0.64			
Total reduction		0.16			0.21			0.27			0.33			
Total, real		357			262			378			28			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BG - Ezermali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December	
1	04:42	05:30	06:34		07:35		08:20 (35)	07:43	14:15 (10)	08:46	09:56 (34)
	22:32	21:49	20:33		19:11	45	18:39 (8)	16:51	48 15:03 (10)	15:58	46 15:08 (11)
2	04:43	05:32	06:36		07:38		08:22 (35)	07:45	14:14 (10)	08:48	09:57 (34)
	22:32	21:47	20:31		19:08	37	18:37 (8)	16:49	49 15:03 (10)	15:57	44 15:08 (11)
3	04:44	05:34	06:38		07:40		08:22 (35)	07:47	14:14 (10)	08:50	09:58 (34)
	22:31	21:45	20:28		19:05	28	08:50 (35)	16:47	50 15:04 (10)	15:56	39 15:06 (11)
4	04:45	05:36	06:40		07:42		08:23 (35)	07:50	14:14 (10)	08:52	09:58 (34)
	22:31	21:43	20:25		19:03	25	08:48 (35)	16:44	49 15:03 (10)	15:56	34 15:04 (11)
5	04:46	05:38	06:42		07:44		08:25 (35)	07:52	14:14 (10)	08:53	09:59 (34)
	22:30	21:41	20:22		19:00	21	08:46 (35)	16:42	50 15:04 (10)	15:55	29 10:28 (34)
6	04:47	05:40	06:44		07:46		08:27 (35)	07:54	14:14 (10)	08:55	10:00 (34)
	22:29	21:38	20:20		18:57	25	08:59 (36)	16:40	51 15:05 (11)	15:54	29 10:29 (34)
7	04:48	05:42	06:46		07:48		08:30 (35)	07:56	09:15 (33)	08:56	10:01 (34)
	22:28	21:36	20:17		18:55	22	09:01 (36)	16:38	63 15:07 (11)	15:53	28 10:29 (34)
8	04:49	05:44	06:48	18:27 (9)	07:50		08:46 (36)	07:58	09:13 (33)	08:58	10:01 (34)
	22:27	21:34	20:14	13 18:40 (9)	18:52	17	09:03 (36)	16:36	73 15:07 (11)	15:53	27 10:28 (34)
9	04:51	05:46	06:50	18:23 (9)	07:52		08:44 (36)	08:01	09:12 (33)	08:59	10:03 (34)
	22:26	21:32	20:12	19 18:42 (9)	18:49	20	09:04 (36)	16:34	84 15:09 (11)	15:52	26 10:29 (34)
10	04:52	05:48	06:52	18:21 (9)	07:54		08:43 (36)	08:03	09:11 (33)	09:01	10:03 (34)
	22:25	21:29	20:09	23 18:44 (9)	18:47	21	09:04 (36)	16:32	91 15:09 (11)	15:52	26 10:29 (34)
11	04:53	05:50	06:54	18:18 (9)	07:57		08:42 (36)	08:05	09:10 (33)	09:02	10:04 (34)
	22:24	21:27	20:06	26 18:44 (9)	18:44	22	09:04 (36)	16:30	95 15:10 (11)	15:51	25 10:29 (34)
12	04:55	05:52	06:56	18:16 (9)	07:59		08:42 (36)	08:07	09:10 (33)	09:03	10:05 (34)
	22:23	21:25	20:03	29 18:45 (9)	18:41	23	09:05 (36)	16:28	98 15:10 (11)	15:51	24 10:29 (34)
13	04:56	05:54	06:58	18:14 (9)	08:01		08:41 (36)	08:10	09:10 (33)	09:04	10:05 (34)
	22:22	21:22	20:01	32 18:46 (9)	18:39	24	09:05 (36)	16:26	102 15:11 (11)	15:51	24 10:29 (34)
14	04:58	05:56	07:00	18:13 (9)	08:03		08:41 (36)	08:12	09:09 (33)	09:05	10:07 (34)
	22:21	21:20	19:58	33 18:46 (9)	18:36	23	09:04 (36)	16:24	105 15:11 (11)	15:51	23 10:30 (34)
15	04:59	05:58	07:02	08:36 (35)	08:05		08:41 (36)	08:14	09:10 (33)	09:06	10:07 (34)
	22:19	21:17	19:55	45 18:46 (9)	18:33	22	09:03 (36)	16:22	104 15:12 (11)	15:51	23 10:30 (34)
16	05:01	06:00	07:04	08:33 (35)	08:07		08:42 (36)	08:16	09:09 (33)	09:07	10:08 (34)
	22:18	21:15	19:52	53 18:47 (9)	18:31	21	09:03 (36)	16:20	106 15:12 (11)	15:51	22 10:30 (34)
17	05:02	06:02	07:06	08:31 (35)	08:10		08:42 (36)	08:18	09:10 (33)	09:08	10:09 (34)
	22:16	21:12	19:50	58 18:47 (9)	18:28	20	09:02 (36)	16:18	106 15:13 (11)	15:51	21 10:30 (34)
18	05:04	06:04	07:08	08:29 (35)	08:12		08:43 (36)	08:21	09:10 (33)	09:09	10:09 (34)
	22:15	21:10	19:47	61 18:47 (9)	18:26	30	15:47 (10)	16:17	105 15:12 (11)	15:51	22 10:31 (34)
19	05:06	06:07	07:11	08:27 (35)	08:14		08:45 (36)	08:23	09:10 (33)	09:10	10:09 (34)
	22:13	21:07	19:44	65 18:47 (9)	18:23	35	15:52 (10)	16:15	105 15:12 (11)	15:51	21 10:30 (34)
20	05:07	06:09	07:13	08:26 (35)	08:16		08:47 (36)	08:25	09:11 (33)	09:11	10:10 (34)
	22:12	21:05	19:41	67 18:47 (8)	18:20	36	15:54 (10)	16:13	104 15:13 (11)	15:51	21 10:31 (34)
21	05:09	06:11	07:15	08:24 (35)	08:18		15:25 (10)	08:27	09:11 (33)	09:11	10:11 (34)
	22:10	21:02	19:38	69 18:47 (8)	18:18	30	15:55 (10)	16:12	102 15:12 (11)	15:52	21 10:32 (34)
22	05:11	06:13	07:17	08:23 (35)	08:20		15:23 (10)	08:29	09:13 (33)	09:12	10:11 (34)
	22:08	21:00	19:36	72 18:48 (8)	18:15	35	15:58 (10)	16:10	99 15:13 (11)	15:52	21 10:32 (34)
23	05:13	06:15	07:19	08:22 (35)	08:23		15:21 (10)	08:31	09:13 (33)	09:12	10:11 (34)
	22:07	20:57	19:33	73 18:48 (8)	18:13	37	15:58 (10)	16:08	96 15:12 (11)	15:53	21 10:32 (34)
24	05:14	06:17	07:21	08:22 (35)	08:25		15:19 (10)	08:33	09:14 (33)	09:13	10:12 (34)
	22:05	20:54	19:30	73 18:48 (8)	18:10	40	15:59 (10)	16:07	92 15:12 (11)	15:53	21 10:33 (34)
25	05:16	06:19	07:23	08:21 (35)	07:27		14:19 (10)	08:35	09:16 (33)	09:13	10:12 (34)
	22:03	20:52	19:27	73 18:47 (8)	17:08	41	15:00 (10)	16:06	88 15:12 (11)	15:54	22 10:34 (34)
26	05:18	06:21	07:25	08:21 (35)	07:29		14:17 (10)	08:37	09:17 (33)	09:13	10:13 (34)
	22:01	20:49	19:25	71 18:47 (8)	17:06	44	15:01 (10)	16:04	81 15:12 (11)	15:55	21 10:34 (34)
27	05:20	06:23	07:27	08:20 (35)	07:32		14:17 (10)	08:39	09:19 (33)	09:14	10:13 (34)
	21:59	20:47	19:22	70 18:46 (8)	17:03	45	15:02 (10)	16:03	67 15:11 (11)	15:55	22 10:35 (34)
28	05:22	06:25	07:29	08:20 (35)	07:34		14:16 (10)	08:41	09:21 (33)	09:14	10:13 (34)
	21:57	20:44	19:19	67 18:45 (8)	17:01	46	15:02 (10)	16:02	63 15:11 (11)	15:56	23 10:36 (34)
29	05:24	06:27	07:31	08:20 (35)	07:36		14:16 (10)	08:43	09:23 (33)	09:14	10:13 (34)
	21:55	20:41	19:16	63 18:44 (8)	16:58	47	15:03 (10)	16:01	57 15:10 (11)	15:57	23 10:36 (34)
30	05:26	06:29	07:33	08:20 (35)	07:38		14:15 (10)	08:45	09:56 (34)	09:14	10:13 (34)
	21:53	20:39	19:14	57 18:42 (8)	16:56	48	15:03 (10)	15:59	49 15:09 (11)	15:58	23 10:36 (34)
31	05:28	06:31			07:41		14:14 (10)			09:14	10:13 (34)
	21:51	20:36			16:54	49	15:03 (10)			15:59	25 10:38 (34)
Potential sun hours	534	472	385		322			244		211	
Total, worst case				1212		979			2432		797
Sun reduction				0.50		0.42			0.23		0.23
Oper. time red.				0.94		0.94			0.94		0.94
Wind dir. red.				0.63		0.65			0.65		0.61
Total reduction				0.29		0.26			0.14		0.13
Total, real				354		252			340		103

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BH - Edene A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:42 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:30 (35)
	16:01	31	11:13 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	28	10:58 (35)
2	09:13		10:42 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:30 (35)
	16:02	31	11:13 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	29	10:59 (35)
3	09:13		10:43 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:29 (35)
	16:03	30	11:13 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	29	10:58 (35)
4	09:12		10:44 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:30 (35)
	16:05	30	11:14 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	29	10:59 (35)
5	09:12		10:44 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:30 (35)
	16:06	30	11:14 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	30	11:00 (35)
6	09:11		10:45 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:31 (35)
	16:08	29	11:14 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	29	11:00 (35)
7	09:11		10:45 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:31 (35)
	16:09	29	11:14 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	30	11:01 (35)
8	09:10		10:46 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		10:31 (35)
	16:11	29	11:15 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	30	11:01 (35)
9	09:09		10:46 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:32 (35)
	16:13	29	11:15 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	30	11:02 (35)
10	09:08		10:47 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:32 (35)
	16:14	28	11:15 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	30	11:02 (35)
11	09:07		10:48 (35)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:33 (35)
	16:16	28	11:16 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	30	11:03 (35)
12	09:06		10:48 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:33 (35)
	16:18	27	11:15 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	30	11:03 (35)
13	09:05		10:49 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:33 (35)
	16:20	27	11:16 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	30	11:03 (35)
14	09:04		10:49 (35)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:34 (35)
	16:21	26	11:15 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	30	11:04 (35)
15	09:03		10:51 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		10:34 (35)
	16:23	24	11:15 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	31	11:05 (35)
16	09:02		10:51 (35)	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:07		10:35 (35)
	16:25	23	11:14 (35)	17:34	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20			15:50	30	11:05 (35)
17	09:01		10:53 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:35 (35)
	16:27	22	11:15 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	31	11:06 (35)
18	08:59		10:54 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:36 (35)
	16:29	20	11:14 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	30	11:06 (35)
19	08:58		10:55 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23			09:10		10:36 (35)
	16:31	18	11:13 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	30	11:06 (35)
20	08:57		10:58 (35)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		10:36 (35)
	16:33	14	11:12 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13			15:51	31	11:07 (35)
21	08:55		11:00 (35)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		10:35 (35)	09:11		10:37 (35)
	16:35	10	11:10 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	10	10:45 (35)	15:52	31	11:08 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:34 (35)	09:12		10:37 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	14	10:48 (35)	15:52	31	11:08 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:32 (35)	09:12		10:37 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	18	10:50 (35)	15:53	31	11:08 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:31 (35)	09:13		10:39 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	20	10:51 (35)	15:53	30	11:09 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:31 (35)	09:13		10:39 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	22	10:53 (35)	15:54	30	11:09 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:30 (35)	09:13		10:39 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	23	10:53 (35)	15:55	30	11:09 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:30 (35)	09:14		10:40 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	24	10:54 (35)	15:55	30	11:10 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:29 (35)	09:14		10:40 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	26	10:55 (35)	15:56	30	11:10 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:29 (35)	09:14		10:41 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	27	10:56 (35)	15:57	30	11:11 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:29 (35)	09:14		10:42 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	27	10:56 (35)	15:58	30	11:12 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:41 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	31	11:12 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		535												211			931	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		85												28			121	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BI - Edene B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:45 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:33 (35)
	16:01	29	11:14 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	26	10:59 (35)
2	09:13		10:45 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:33 (35)
	16:02	29	11:14 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	27	11:00 (35)
3	09:13		10:45 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:32 (35)
	16:03	29	11:14 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	27	10:59 (35)
4	09:12		10:46 (35)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:33 (35)
	16:05	29	11:15 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	27	11:00 (35)
5	09:12		10:47 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:33 (35)
	16:06	28	11:15 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	28	11:01 (35)
6	09:11		10:47 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:33 (35)
	16:08	29	11:16 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	29	11:02 (35)
7	09:11		10:48 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:34 (35)
	16:09	28	11:16 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	29	11:03 (35)
8	09:10		10:48 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		10:34 (35)
	16:11	28	11:16 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	28	11:02 (35)
9	09:09		10:49 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:34 (35)
	16:13	27	11:16 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	29	11:03 (35)
10	09:08		10:50 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:34 (35)
	16:14	27	11:17 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	29	11:03 (35)
11	09:07		10:51 (35)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:35 (35)
	16:16	26	11:17 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	29	11:04 (35)
12	09:06		10:51 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:35 (35)
	16:18	25	11:16 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	30	11:05 (35)
13	09:05		10:52 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:35 (35)
	16:20	24	11:16 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	30	11:05 (35)
14	09:04		10:53 (35)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:36 (35)
	16:21	23	11:16 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	30	11:06 (35)
15	09:03		10:54 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		10:37 (35)
	16:23	22	11:16 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	29	11:06 (35)
16	09:02		10:55 (35)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		10:37 (35)
	16:25	20	11:15 (35)	17:34	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20			15:50	30	11:07 (35)
17	09:01		10:57 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:38 (35)
	16:27	18	11:15 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	29	11:07 (35)
18	08:59		10:58 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:38 (35)
	16:29	15	11:13 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	30	11:08 (35)
19	08:58		11:00 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23			09:10		10:38 (35)
	16:31	12	11:12 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	30	11:08 (35)
20	08:57		11:04 (35)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		10:39 (35)
	16:33	5	11:09 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13			15:51	29	11:08 (35)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:11		10:40 (35)
	16:35			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11			15:52	29	11:09 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:40 (35)	09:12		10:40 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	5	10:45 (35)	15:52	29	11:09 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:37 (35)	09:12		10:40 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	12	10:49 (35)	15:53	29	11:09 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:35 (35)	09:13		10:41 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15	10:50 (35)	15:53	30	11:11 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:35 (35)	09:13		10:41 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	18	10:53 (35)	15:54	30	11:11 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:34 (35)	09:13		10:42 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	20	10:54 (35)	15:55	29	11:11 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:33 (35)	09:14		10:42 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	22	10:55 (35)	15:55	30	11:12 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:33 (35)	09:14		10:43 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	23	10:56 (35)	15:56	29	11:12 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:32 (35)	09:14		10:43 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	24	10:56 (35)	15:57	30	11:13 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:32 (35)	09:14		10:44 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	25	10:57 (35)	15:58	29	11:13 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:44 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	29	11:13 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		473												164			898	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		75												22			117	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BJ - Franci

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April			May			June		
1	09:14		10:25 (29)	08:36		09:28 (28)	07:30	07:06			05:48			04:49		05:54 (20)
	16:02	23	10:48 (29)	17:00	24	09:52 (28)	18:05	20:12			21:16			22:16	19	06:13 (20)
2	09:13		10:25 (29)	08:34		09:28 (28)	07:27	07:03			05:46			04:48		05:55 (20)
	16:03	23	10:48 (29)	17:03	24	09:52 (28)	18:07	20:14			21:19			22:17	18	06:13 (20)
3	09:13		10:25 (29)	08:32		09:29 (28)	07:25	07:01			05:43			04:47		05:55 (20)
	16:04	23	10:48 (29)	17:05	23	09:52 (28)	18:09	20:16			21:21			22:18	17	06:12 (20)
4	09:12		10:27 (29)	08:30		09:30 (28)	07:22	06:58			05:41			04:46		05:56 (20)
	16:06	22	10:49 (29)	17:07	22	09:52 (28)	18:11	20:18			21:23			22:20	16	06:12 (20)
5	09:12		10:27 (29)	08:28		09:30 (28)	07:20	06:55			05:39			04:45		05:56 (20)
	16:07	22	10:49 (29)	17:10	21	09:51 (28)	18:14	20:21			21:25			22:21	15	06:11 (20)
6	09:11		10:28 (29)	08:25		09:31 (28)	07:17	06:53			05:36			04:44		05:57 (20)
	16:09	21	10:49 (29)	17:12	20	09:51 (28)	18:16	20:23			21:27			22:22	13	06:10 (20)
7	09:11		10:28 (29)	08:23		09:32 (28)	07:14	06:50			05:34			04:43		05:58 (20)
	16:10	21	10:49 (29)	17:14	17	09:49 (28)	18:18	20:25			21:29			22:24	12	06:10 (20)
8	09:10		10:29 (29)	08:21		09:34 (28)	07:12	06:47			05:32			04:42		05:59 (20)
	16:12	21	10:50 (29)	17:17	13	09:47 (28)	18:20	20:27			21:31			22:25	10	06:09 (20)
9	09:09		10:30 (29)	08:19		09:38 (28)	07:09	06:44			05:30			04:41		06:01 (20)
	16:13	20	10:50 (29)	17:19	7	09:45 (28)	18:22	20:29			21:33			22:26	8	06:09 (20)
10	09:08		10:31 (29)	08:17			07:06	06:42		07:13 (21)	05:27		05:58 (20)	04:41		06:01 (20)
	16:15	19	10:50 (29)	17:21			18:25	20:31	11	07:24 (21)	21:35	9	06:07 (20)	22:27	7	06:08 (20)
11	09:08		10:32 (29)	08:14			07:03	06:39		07:10 (21)	05:25		05:56 (20)	04:40		06:04 (20)
	16:17	18	10:50 (29)	17:24			18:27	20:33	16	07:26 (21)	21:37	13	06:09 (20)	22:28	2	06:06 (20)
12	09:07		10:32 (29)	08:12			07:01	06:36		07:07 (21)	05:23		05:54 (20)	04:40		
	16:19	17	10:49 (29)	17:26			18:29	20:36	20	07:27 (21)	21:39	16	06:10 (20)	22:29		
13	09:06		10:34 (29)	08:10			06:58	06:34		07:06 (21)	05:21		05:53 (20)	04:39		
	16:20	15	10:49 (29)	17:28			18:31	20:38	23	07:29 (21)	21:41	18	06:11 (20)	22:29		
14	09:04		10:35 (29)	08:07			06:55	06:31		07:04 (21)	05:19		05:52 (20)	04:39		
	16:22	13	10:48 (29)	17:30			18:33	20:40	25	07:29 (21)	21:43	20	06:12 (20)	22:30		
15	09:03		10:37 (29)	08:05			06:53	06:28		07:04 (21)	05:17		05:51 (20)	04:38		
	16:24	10	10:47 (29)	17:33			18:35	20:42	26	07:30 (21)	21:45	21	06:12 (20)	22:31		
16	09:02		10:39 (29)	08:03			06:50	06:26		07:03 (21)	05:15		05:50 (20)	04:38		
	16:26	6	10:45 (29)	17:35			18:38	20:44	27	07:30 (21)	21:47	23	06:13 (20)	22:32		
17	09:01			08:00			06:47	06:23		07:02 (21)	05:13		05:50 (20)	04:38		
	16:28			17:37			18:40	20:46	29	07:31 (21)	21:49	24	06:14 (20)	22:32		
18	08:59			07:58			06:44	06:21		07:01 (21)	05:11		05:50 (20)	04:38		
	16:30			17:40			18:42	20:48	29	07:30 (21)	21:51	24	06:14 (20)	22:33		
19	08:58		09:33 (28)	07:55			06:42	06:18		07:02 (21)	05:09		05:49 (20)	04:38		
	16:32	7	09:40 (28)	17:42			18:44	20:51	29	07:31 (21)	21:53	25	06:14 (20)	22:33		
20	08:57		09:32 (28)	07:53			06:39	06:15		07:01 (21)	05:07		05:50 (20)	04:38		
	16:34	11	09:43 (28)	17:44			18:46	20:53	29	07:30 (21)	21:55	24	06:14 (20)	22:33		
21	08:55		09:31 (28)	07:50			06:36	06:13		07:01 (21)	05:06		05:49 (20)	04:38		
	16:36	14	09:45 (28)	17:47			18:48	20:55	29	07:30 (21)	21:57	25	06:14 (20)	22:34		
22	08:54		09:29 (28)	07:48			06:33	06:10		07:01 (21)	05:04		05:50 (20)	04:38		
	16:38	17	09:46 (28)	17:49			18:51	20:57	28	07:29 (21)	21:59	24	06:14 (20)	22:34		
23	08:52		09:29 (28)	07:45			06:31	06:08		07:01 (21)	05:02		05:50 (20)	04:38		
	16:40	19	09:48 (28)	17:51			18:53	20:59	27	07:28 (21)	22:01	24	06:14 (20)	22:34		
24	08:50		09:28 (28)	07:43			06:28	06:05		07:01 (21)	05:01		05:50 (20)	04:39		
	16:43	21	09:49 (28)	17:53			18:55	21:01	26	07:27 (21)	22:03	24	06:14 (20)	22:34		
25	08:49		09:28 (28)	07:40			06:25	06:03		07:02 (21)	04:59		05:51 (20)	04:39		
	16:45	21	09:49 (28)	17:56			18:57	21:04	24	07:26 (21)	22:04	24	06:15 (20)	22:34		
26	08:47		09:27 (28)	07:38			06:23	06:00		07:03 (21)	04:57		05:50 (20)	04:40		
	16:47	23	09:50 (28)	17:58			18:59	21:06	23	07:26 (21)	22:06	24	06:14 (20)	22:34		
27	08:45		09:27 (28)	07:35			06:20	05:58		07:03 (21)	04:56		05:51 (20)	04:40		
	16:49	24	09:51 (28)	18:00			19:01	21:08	20	07:23 (21)	22:08	23	06:14 (20)	22:34		
28	08:43		09:27 (28)	07:33			06:17	05:55		07:05 (21)	04:54		05:52 (20)	04:41		
	16:51	25	09:52 (28)	18:02			19:03	21:10	17	07:22 (21)	22:09	22	06:14 (20)	22:34		
29	08:42		09:27 (28)				07:14	05:53		07:07 (21)	04:53		05:52 (20)	04:41		
	16:54	25	09:52 (28)				20:06	21:12	13	07:20 (21)	22:11	22	06:14 (20)	22:33		
30	08:40		09:28 (28)				07:12	05:50		07:12 (21)	04:52		05:53 (20)	04:42		
	16:56	25	09:53 (28)				20:08	21:14	4	07:16 (21)	22:13	21	06:14 (20)	22:33		
31	08:38		09:28 (28)				07:09				04:50		05:53 (20)			
	16:58	25	09:53 (28)				20:10				22:14	20	06:13 (20)			
Potential sun hours	231			264			366	428			512			534		
Total, worst case		551			171				475			470			137	
Sun reduction		0.27			0.33				0.55			0.61			0.57	
Oper. time red.		0.94			0.94				0.94			0.94			0.94	
Wind dir. red.		0.59			0.56				0.64			0.68			0.68	
Total reduction		0.15			0.18				0.33			0.39			0.36	
Total, real		84			30				157			183			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BJ - Franci

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October	November			December		
1	04:43			05:30		06:05 (20)	06:34		07:09 (21)	07:36	07:43			08:47		10:13 (29)
	22:32			21:50	15	06:20 (20)	20:34	16	07:25 (21)	19:11	16:52			15:59	18	10:31 (29)
2	04:44		06:06 (20)	05:32		06:07 (20)	06:36		07:11 (21)	07:38	07:45		09:07 (28)	08:48		10:13 (29)
	22:32	5	06:11 (20)	21:47	12	06:19 (20)	20:31	11	07:22 (21)	19:09	16:50	8	09:15 (28)	15:58	19	10:32 (29)
3	04:45		06:05 (20)	05:34		06:08 (20)	06:38			07:40	07:48		09:04 (28)	08:50		10:13 (29)
	22:31	8	06:13 (20)	21:45	8	06:16 (20)	20:28			19:06	16:47	13	09:17 (28)	15:57	20	10:33 (29)
4	04:46		06:05 (20)	05:36			06:40			07:42	07:50		09:03 (28)	08:52		10:13 (29)
	22:31	9	06:14 (20)	21:43			20:25			19:03	16:45	17	09:20 (28)	15:56	21	10:34 (29)
5	04:47		06:04 (20)	05:38			06:42			07:44	07:52		09:01 (28)	08:53		10:13 (29)
	22:30	11	06:15 (20)	21:41			20:23			19:01	16:43	19	09:20 (28)	15:55	22	10:35 (29)
6	04:48		06:04 (20)	05:40			06:44			07:46	07:54		09:01 (28)	08:55		10:14 (29)
	22:29	12	06:16 (20)	21:39			20:20			18:58	16:41	21	09:22 (28)	15:55	21	10:35 (29)
7	04:49		06:03 (20)	05:42			06:46			07:48	07:56		09:00 (28)	08:56		10:14 (29)
	22:28	14	06:17 (20)	21:36			20:17			18:55	16:39	22	09:22 (28)	15:54	22	10:36 (29)
8	04:50		06:02 (20)	05:44			06:48			07:51	07:59		08:59 (28)	08:58		10:14 (29)
	22:27	16	06:18 (20)	21:34			20:15			18:52	16:36	23	09:22 (28)	15:53	22	10:36 (29)
9	04:51		06:02 (20)	05:46			06:50			07:53	08:01		08:59 (28)	08:59		10:14 (29)
	22:27	16	06:18 (20)	21:32			20:12			18:50	16:34	24	09:23 (28)	15:53	23	10:37 (29)
10	04:53		06:02 (20)	05:48			06:53			07:55	08:03		08:58 (28)	09:01		10:14 (29)
	22:25	18	06:20 (20)	21:29			20:09			18:47	16:32	25	09:23 (28)	15:52	23	10:37 (29)
11	04:54		06:02 (20)	05:51			06:55			07:57	08:05		08:59 (28)	09:02		10:15 (29)
	22:24	18	06:20 (20)	21:27			20:06			18:44	16:30	25	09:24 (28)	15:52	23	10:38 (29)
12	04:55		06:01 (20)	05:53			06:57			07:59	08:08		08:59 (28)	09:03		10:15 (29)
	22:23	20	06:21 (20)	21:25			20:04			18:42	16:28	24	09:23 (28)	15:52	24	10:39 (29)
13	04:57		06:01 (20)	05:55		07:18 (21)	06:59			08:01	08:10		08:59 (28)	09:04		10:15 (29)
	22:22	20	06:21 (20)	21:22	7	07:25 (21)	20:01			18:39	16:26	25	09:24 (28)	15:51	24	10:39 (29)
14	04:58		06:01 (20)	05:57		07:14 (21)	07:01			08:03	08:12		08:59 (28)	09:06		10:17 (29)
	22:21	21	06:22 (20)	21:20	14	07:28 (21)	19:58			18:36	16:24	24	09:23 (28)	15:51	23	10:40 (29)
15	05:00		06:00 (20)	05:59		07:12 (21)	07:03			08:05	08:14		09:00 (28)	09:07		10:17 (29)
	22:19	22	06:22 (20)	21:17	18	07:30 (21)	19:55			18:34	16:23	24	09:24 (28)	15:51	24	10:41 (29)
16	05:01		06:01 (20)	06:01		07:11 (21)	07:05			08:08	08:16		09:00 (28)	09:08		10:17 (29)
	22:18	22	06:23 (20)	21:15	20	07:31 (21)	19:53			18:31	16:21	23	09:23 (28)	15:51	24	10:41 (29)
17	05:03		06:00 (20)	06:03		07:09 (21)	07:07			08:10	08:19		09:02 (28)	09:08		10:18 (29)
	22:17	23	06:23 (20)	21:13	23	07:32 (21)	19:50			18:29	16:19	21	09:23 (28)	15:51	23	10:41 (29)
18	05:05		06:00 (20)	06:05		07:08 (21)	07:09			08:12	08:21		09:02 (28)	09:09		10:17 (29)
	22:15	23	06:23 (20)	21:10	25	07:33 (21)	19:47			18:26	16:17	20	09:22 (28)	15:51	24	10:41 (29)
19	05:06		06:00 (20)	06:07		07:08 (21)	07:11			08:14	08:23		09:04 (28)	09:10		10:18 (29)
	22:14	24	06:24 (20)	21:08	26	07:34 (21)	19:44			18:24	16:15	19	09:23 (28)	15:52	24	10:42 (29)
20	05:08		06:00 (20)	06:09		07:07 (21)	07:13			08:16	08:25		09:04 (28)	09:11		10:19 (29)
	22:12	25	06:25 (20)	21:05	27	07:34 (21)	19:42			18:21	16:14	17	09:21 (28)	15:52	24	10:43 (29)
21	05:10		06:00 (20)	06:11		07:06 (21)	07:15			08:19	08:27		09:06 (28)	09:11		10:19 (29)
	22:10	24	06:24 (20)	21:02	28	07:34 (21)	19:39			18:18	16:12	14	09:20 (28)	15:52	24	10:43 (29)
22	05:11		06:00 (20)	06:13		07:06 (21)	07:17			08:21	08:29		09:08 (28)	09:12		10:20 (29)
	22:09	25	06:25 (20)	21:00	29	07:35 (21)	19:36			18:16	16:11	12	09:20 (28)	15:53	23	10:43 (29)
23	05:13		06:00 (20)	06:15		07:05 (21)	07:19			08:23	08:31		09:10 (28)	09:13		10:20 (29)
	22:07	24	06:24 (20)	20:57	30	07:35 (21)	19:33			18:13	16:09	7	09:17 (28)	15:53	24	10:44 (29)
24	05:15		06:00 (20)	06:17		07:05 (21)	07:21			08:25	08:33			09:13		10:21 (29)
	22:05	25	06:25 (20)	20:55	29	07:34 (21)	19:31			18:11	16:08			15:54	24	10:45 (29)
25	05:17		06:01 (20)	06:20		07:04 (21)	07:23			07:27	08:35			09:13		10:21 (29)
	22:03	24	06:25 (20)	20:52	29	07:33 (21)	19:28			17:08	16:06			15:55	24	10:45 (29)
26	05:19		06:00 (20)	06:22		07:04 (21)	07:25			07:30	08:37		10:18 (29)	09:14		10:22 (29)
	22:01	24	06:24 (20)	20:49	28	07:32 (21)	19:25			17:06	16:05	6	10:24 (29)	15:55	23	10:45 (29)
27	05:21		06:01 (20)	06:24		07:04 (21)	07:27			07:32	08:39		10:16 (29)	09:14		10:22 (29)
	22:00	23	06:24 (20)	20:47	28	07:32 (21)	19:22			17:04	16:04	10	10:26 (29)	15:56	24	10:46 (29)
28	05:22		06:02 (20)	06:26		07:05 (21)	07:30			07:34	08:41		10:15 (29)	09:14		10:23 (29)
	21:58	22	06:24 (20)	20:44	26	07:31 (21)	19:20			17:01	16:02	13	10:28 (29)	15:57	23	10:46 (29)
29	05:24		06:02 (20)	06:28		07:05 (21)	07:32			07:36	08:43		10:14 (29)	09:14		10:23 (29)
	21:56	21	06:23 (20)	20:42	25	07:30 (21)	19:17			16:59	16:01	15	10:29 (29)	15:58	24	10:47 (29)
30	05:26		06:02 (20)	06:30		07:06 (21)	07:34			07:39	08:45		10:13 (29)	09:14		10:23 (29)
	21:54	20	06:22 (20)	20:39	23	07:29 (21)	19:14			16:56	16:00	17	10:30 (29)	15:59	24	10:47 (29)
31	05:28		06:03 (20)	06:32		07:07 (21)				07:41				09:14		10:24 (29)
	21:52	18	06:21 (20)	20:36	20	07:27 (21)				16:54				16:00	23	10:47 (29)
Potential sun hours	534			472			385			322	244			211		
Total, worst case		577			490			27				488			708	
Sun reduction		0.60			0.59			0.50				0.23			0.23	
Oper. time red.		0.94			0.94			0.94				0.94			0.94	
Wind dir. red.		0.68			0.65			0.64				0.57			0.61	
Total reduction		0.38			0.36			0.30				0.12			0.13	
Total, real		220			174			8				60			92	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BK - Gailkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:14		11:02 (41)	08:36		09:21 (2)	07:30	07:06	05:48	04:49
	16:01	7	11:09 (41)	17:00	38	10:11 (42)	18:04	20:12	21:17	22:16
2	09:14		11:04 (41)	08:34		09:20 (2)	07:27	07:03	05:45	04:48
	16:03	4	11:08 (41)	17:02	31	10:07 (42)	18:07	20:14	21:19	22:17
3	09:13		09:54 (42)	08:32		09:21 (2)	07:25	07:01	05:43	04:46
	16:04	5	09:59 (42)	17:05	26	09:47 (2)	18:09	20:16	21:21	22:19
4	09:13		09:53 (42)	08:30		09:21 (2)	07:22	06:58	05:41	04:45
	16:05	8	10:01 (42)	17:07	26	09:47 (2)	18:11	20:18	21:23	22:20
5	09:12		09:52 (42)	08:28		09:21 (2)	07:20	06:55	05:38	04:44
	16:07	10	10:02 (42)	17:09	25	09:46 (2)	18:13	20:21	21:25	22:21
6	09:12		09:51 (42)	08:26		09:22 (2)	07:17	06:52	05:36	04:43
	16:08	12	10:03 (42)	17:12	24	09:46 (2)	18:16	20:23	21:27	22:23
7	09:11		09:51 (42)	08:23		09:23 (2)	07:14	06:50	05:34	04:43
	16:10	14	10:05 (42)	17:14	23	09:46 (2)	18:18	20:25	21:29	22:24
8	09:10		09:49 (42)	08:21		09:23 (2)	07:12	06:47	05:31	04:42
	16:11	17	10:06 (42)	17:16	22	09:45 (2)	18:20	20:27	21:31	22:25
9	09:10		09:49 (42)	08:19		09:25 (2)	07:09	06:44	05:29	04:41
	16:13	18	10:07 (42)	17:19	19	09:44 (2)	18:22	20:29	21:33	22:26
10	09:09		09:49 (42)	08:17		09:26 (2)	07:06	06:42	05:27	04:40
	16:15	19	10:08 (42)	17:21	16	09:42 (2)	18:24	20:31	21:36	22:27
11	09:08		09:49 (42)	08:15		08:44 (43)	07:03	06:39	05:25	04:40
	16:16	20	10:09 (42)	17:23	18	09:41 (2)	18:27	20:33	21:38	22:28
12	09:07		09:49 (42)	08:12		08:41 (43)	07:01	06:36	05:23	04:39
	16:18	21	10:10 (42)	17:26	17	09:37 (2)	18:29	20:36	21:40	22:29
13	09:06		09:48 (42)	08:10		08:39 (43)	06:58	06:34	05:21	04:39
	16:20	23	10:11 (42)	17:28	16	08:55 (43)	18:31	20:38	21:42	22:30
14	09:05		09:49 (42)	08:08		08:36 (43)	06:55	06:31	05:19	04:38
	16:22	23	10:12 (42)	17:30	19	08:55 (43)	18:33	20:40	21:44	22:31
15	09:04		09:48 (42)	08:05		08:36 (43)	06:53	06:28	05:17	04:38
	16:24	24	10:12 (42)	17:33	21	08:57 (43)	18:35	20:42	21:46	22:31
16	09:02		09:49 (42)	08:03		08:35 (43)	06:50	06:26	05:15	04:38
	16:26	24	10:13 (42)	17:35	22	08:57 (43)	18:38	20:44	21:48	22:32
17	09:01		09:48 (42)	08:00		08:35 (43)	06:47	06:23	05:13	04:38
	16:28	26	10:14 (42)	17:37	23	08:58 (43)	18:40	20:46	21:50	22:32
18	09:00		09:49 (42)	07:58		08:34 (43)	06:44	06:20	05:11	04:37
	16:30	26	10:15 (42)	17:39	24	08:58 (43)	18:42	20:49	21:52	22:33
19	08:58		09:49 (42)	07:55		08:34 (43)	06:42	06:18	05:09	04:37
	16:32	26	10:15 (42)	17:42	25	08:59 (43)	18:44	20:51	21:54	22:33
20	08:57		09:49 (42)	07:53		08:34 (43)	06:39	06:15	05:07	04:37
	16:34	26	10:15 (42)	17:44	24	08:58 (43)	18:46	20:53	21:55	22:34
21	08:55		09:49 (42)	07:51		08:33 (43)	06:36	06:13	05:05	04:38
	16:36	26	10:15 (42)	17:46	25	08:58 (43)	18:48	20:55	21:57	22:34
22	08:54		09:28 (2)	07:48		08:34 (43)	06:33	06:10	05:04	04:38
	16:38	33	10:16 (42)	17:49	24	08:58 (43)	18:51	20:57	21:59	22:34
23	08:52		09:26 (2)	07:45		08:34 (43)	06:31	06:07	05:02	04:38
	16:40	37	10:16 (42)	17:51	23	08:57 (43)	18:53	20:59	22:01	22:34
24	08:51		09:25 (2)	07:43		08:35 (43)	06:28	06:05	05:00	04:38
	16:42	41	10:17 (42)	17:53	21	08:56 (43)	18:55	21:01	22:03	22:34
25	08:49		09:24 (2)	07:40		08:36 (43)	06:25	06:02	04:59	04:39
	16:44	42	10:17 (42)	17:55	19	08:55 (43)	18:57	21:04	22:05	22:34
26	08:47		09:23 (2)	07:38		08:38 (43)	06:22	06:00	04:57	04:39
	16:47	44	10:16 (42)	17:58	15	08:53 (43)	18:59	21:06	22:06	22:34
27	08:45		09:22 (2)	07:35		08:40 (43)	06:20	05:57	04:56	04:40
	16:49	44	10:15 (42)	18:00	10	08:50 (43)	19:01	21:08	22:08	22:34
28	08:44		09:21 (2)	07:33			06:17	05:55	04:54	04:40
	16:51	45	10:15 (42)	18:02			19:03	21:10	22:10	22:34
29	08:42		09:21 (2)				07:14	05:53	04:53	04:41
	16:53	44	10:14 (42)				20:06	21:12	22:11	22:34
30	08:40		09:21 (2)				07:11	05:50	04:51	04:42
	16:56	43	10:14 (42)				20:08	21:14	22:13	22:33
31	08:38		09:21 (2)				07:09		04:50	
	16:58	41	10:13 (42)				20:10		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		793			596					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.58			0.58					
Total reduction		0.15			0.18					
Total, real		119			109					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BK - Gailkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:30	06:34	07:36			07:43		08:55 (2)	08:47		09:31 (42)
	22:33	21:50	20:34	19:11			16:52	17	09:12 (2)	15:59	20	09:51 (42)
2	04:43	05:32	06:36	07:38			07:45		08:54 (2)	08:49		09:32 (42)
	22:32	21:48	20:31	19:09			16:49	20	09:14 (2)	15:58	19	09:51 (42)
3	04:44	05:34	06:38	07:40			07:48		08:53 (2)	08:50		09:33 (42)
	22:32	21:45	20:28	19:06			16:47	21	09:14 (2)	15:57	18	09:51 (42)
4	04:45	05:36	06:40	07:42			07:50		08:53 (2)	08:52		09:34 (42)
	22:31	21:43	20:26	19:03			16:45	23	09:16 (2)	15:56	17	09:51 (42)
5	04:46	05:38	06:42	07:44			07:52		08:52 (2)	08:54		09:36 (42)
	22:30	21:41	20:23	19:00			16:43	24	09:16 (2)	15:55	15	09:51 (42)
6	04:47	05:40	06:44	07:46			07:54		08:52 (2)	08:55		09:37 (42)
	22:30	21:39	20:20	18:58			16:40	25	09:17 (2)	15:54	12	09:49 (42)
7	04:48	05:42	06:46	07:48			07:57		08:51 (2)	08:57		09:39 (42)
	22:29	21:37	20:17	18:55			16:38	26	09:17 (2)	15:54	10	09:49 (42)
8	04:50	05:44	06:48	07:51			07:59		08:52 (2)	08:58		09:41 (42)
	22:28	21:34	20:15	18:52			16:36	25	09:17 (2)	15:53	8	09:49 (42)
9	04:51	05:46	06:50	07:53			08:01		08:51 (2)	09:00		09:42 (42)
	22:27	21:32	20:12	18:50			16:34	31	09:38 (42)	15:52	5	09:47 (42)
10	04:52	05:48	06:52	07:55			08:03		08:52 (2)	09:01		10:54 (41)
	22:26	21:30	20:09	18:47			16:32	37	09:42 (42)	15:52	4	10:58 (41)
11	04:53	05:50	06:54	07:57			08:06		08:52 (2)	09:02		10:52 (41)
	22:25	21:27	20:06	18:44			16:30	41	09:44 (42)	15:52	7	10:59 (41)
12	04:55	05:52	06:56	07:59			08:08		08:53 (2)	09:04		10:53 (41)
	22:24	21:25	20:04	18:42			16:28	43	09:46 (42)	15:51	8	11:01 (41)
13	04:56	05:54	06:59	08:01			08:10		08:53 (2)	09:05		10:52 (41)
	22:22	21:23	20:01	18:39			16:26	43	09:46 (42)	15:51	10	11:02 (41)
14	04:58	05:56	07:01	08:03		09:15 (43)	08:12		08:54 (2)	09:06		10:52 (41)
	22:21	21:20	19:58	18:36	5	09:20 (43)	16:24	45	09:48 (42)	15:51	11	11:03 (41)
15	04:59	05:59	07:03	08:06		09:11 (43)	08:14		08:54 (2)	09:07		10:52 (41)
	22:20	21:18	19:55	18:34	13	09:24 (43)	16:22	45	09:48 (42)	15:51	12	11:04 (41)
16	05:01	06:01	07:05	08:08		09:09 (43)	08:17		08:56 (2)	09:08		10:52 (41)
	22:18	21:15	19:53	18:31	17	09:26 (43)	16:20	43	09:49 (42)	15:51	13	11:05 (41)
17	05:02	06:03	07:07	08:10		09:07 (43)	08:19		08:57 (2)	09:09		10:52 (41)
	22:17	21:13	19:50	18:29	20	09:27 (43)	16:19	43	09:50 (42)	15:51	13	11:05 (41)
18	05:04	06:05	07:09	08:12		09:07 (43)	08:21		08:58 (2)	09:10		10:52 (41)
	22:15	21:10	19:47	18:26	21	09:28 (43)	16:17	41	09:50 (42)	15:51	14	11:06 (41)
19	05:06	06:07	07:11	08:14		09:05 (43)	08:23		09:01 (2)	09:10		10:53 (41)
	22:14	21:08	19:44	18:23	23	09:28 (43)	16:15	37	09:51 (42)	15:51	14	11:07 (41)
20	05:07	06:09	07:13	08:16		09:04 (43)	08:25		09:03 (2)	09:11		10:53 (41)
	22:12	21:05	19:42	18:21	24	09:28 (43)	16:13	33	09:51 (42)	15:52	14	11:07 (41)
21	05:09	06:11	07:15	08:19		09:05 (43)	08:27		09:25 (42)	09:12		10:53 (41)
	22:11	21:03	19:39	18:18	24	09:29 (43)	16:12	26	09:51 (42)	15:52	15	11:08 (41)
22	05:11	06:13	07:17	08:21		09:04 (43)	08:29		09:25 (42)	09:12		10:53 (41)
	22:09	21:00	19:36	18:16	25	09:29 (43)	16:10	26	09:51 (42)	15:52	15	11:08 (41)
23	05:13	06:15	07:19	08:23		09:03 (43)	08:31		09:25 (42)	09:13		10:55 (41)
	22:07	20:57	19:33	18:13	25	09:28 (43)	16:09	26	09:51 (42)	15:53	14	11:09 (41)
24	05:15	06:17	07:21	08:25		09:04 (43)	08:33		09:26 (42)	09:13		10:55 (41)
	22:05	20:55	19:31	18:11	24	09:28 (43)	16:07	26	09:52 (42)	15:53	14	11:09 (41)
25	05:16	06:19	07:23	07:27		08:04 (43)	08:35		09:27 (42)	09:14		10:55 (41)
	22:04	20:52	19:28	17:08	24	08:28 (43)	16:06	25	09:52 (42)	15:54	14	11:09 (41)
26	05:18	06:21	07:25	07:30		08:05 (43)	08:37		09:27 (42)	09:14		10:56 (41)
	22:02	20:50	19:25	17:06	22	08:27 (43)	16:05	24	09:51 (42)	15:55	13	11:09 (41)
27	05:20	06:23	07:27	07:32		08:05 (43)	08:39		09:27 (42)	09:14		10:56 (41)
	22:00	20:47	19:22	17:03	21	08:26 (43)	16:03	24	09:51 (42)	15:56	14	11:10 (41)
28	05:22	06:26	07:29	07:34		08:06 (43)	08:41		09:29 (42)	09:14		10:57 (41)
	21:58	20:44	19:20	17:01	19	08:25 (43)	16:02	23	09:52 (42)	15:57	13	11:10 (41)
29	05:24	06:28	07:32	07:36		08:09 (43)	08:43		09:29 (42)	09:14		10:58 (41)
	21:56	20:42	19:17	16:59	15	08:24 (43)	16:01	23	09:52 (42)	15:58	12	11:10 (41)
30	05:26	06:30	07:34	07:39		08:11 (43)	08:45		09:30 (42)	09:14		11:00 (41)
	21:54	20:39	19:14	16:56	17	09:07 (2)	16:00	22	09:52 (42)	15:59	10	11:10 (41)
31	05:28	06:32		07:41		08:14 (43)				09:14		11:01 (41)
	21:52	20:36		16:54	17	09:11 (2)				16:00	9	11:10 (41)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					356			908			387	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.59			0.58			0.61	
Total reduction					0.24			0.12			0.13	
Total, real					84			113			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BL - Grantkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June	
1	09:14		09:58 (15)	08:36		09:37 (3)	07:30			07:06		08:16 (41)	05:48		06:16 (43)	04:49	
	16:01	19	10:17 (15)	17:00	32	10:09 (3)	18:05			20:12	39	08:55 (41)	21:16	41	07:15 (42)	22:16	
2	09:13		09:58 (15)	08:34		09:36 (3)	07:27		08:00 (4)	07:03		08:16 (41)	05:45		06:14 (43)	04:48	
	16:03	20	10:18 (15)	17:03	33	10:09 (3)	18:07	11	08:11 (4)	20:14	38	08:54 (41)	21:19	43	07:14 (42)	22:17	
3	09:13		09:59 (15)	08:32		09:37 (3)	07:25		07:57 (4)	07:01		08:16 (41)	05:43		06:12 (43)	04:47	
	16:04	20	10:19 (15)	17:05	32	10:09 (3)	18:09	16	08:13 (4)	20:16	36	08:52 (41)	21:21	44	07:13 (42)	22:19	
4	09:13		09:59 (15)	08:30		09:37 (3)	07:22		07:55 (4)	06:58		08:18 (41)	05:41		06:11 (43)	04:46	
	16:05	21	10:20 (15)	17:07	32	10:09 (3)	18:11	21	08:16 (4)	20:18	33	08:51 (41)	21:23	44	07:12 (42)	22:20	
5	09:12		09:59 (15)	08:28		09:37 (3)	07:20		07:54 (4)	06:55		08:18 (41)	05:38		06:10 (43)	04:45	
	16:07	21	10:20 (15)	17:09	32	10:09 (3)	18:13	23	08:17 (4)	20:21	32	08:50 (41)	21:25	43	07:11 (42)	22:21	
6	09:12		09:59 (15)	08:26		09:38 (3)	07:17		07:52 (4)	06:52		08:19 (41)	05:36		06:09 (43)	04:44	
	16:08	22	10:21 (15)	17:12	31	10:09 (3)	18:16	26	08:18 (4)	20:23	28	08:47 (41)	21:27	40	07:09 (42)	22:23	
7	09:11		09:59 (15)	08:23		09:39 (3)	07:14		07:52 (4)	06:50		08:20 (41)	05:34		06:09 (43)	04:43	
	16:10	22	10:21 (15)	17:14	30	10:09 (3)	18:18	27	08:19 (4)	20:25	25	08:45 (41)	21:29	36	07:07 (42)	22:24	
8	09:10		09:59 (15)	08:21		09:39 (3)	07:12		07:51 (4)	06:47		08:23 (41)	05:32		06:09 (43)	04:42	
	16:11	23	10:22 (15)	17:16	28	10:07 (3)	18:20	28	08:19 (4)	20:27	20	08:43 (41)	21:31	30	07:04 (42)	22:25	
9	09:10		09:59 (15)	08:19		09:40 (3)	07:09		07:50 (4)	06:44		08:25 (41)	05:29		06:09 (43)	04:41	
	16:13	24	10:23 (15)	17:19	27	10:07 (3)	18:22	29	08:19 (4)	20:29	14	08:39 (41)	21:33	22	06:31 (43)	22:26	
10	09:09		10:00 (15)	08:17		09:41 (3)	07:06		07:49 (4)	06:42			05:27		06:09 (43)	04:40	
	16:15	23	10:23 (15)	17:21	25	10:06 (3)	18:24	30	08:19 (4)	20:31			21:35	22	06:31 (43)	22:27	
11	09:08		10:00 (15)	08:15		09:42 (3)	07:03		07:48 (4)	06:39			05:25		06:09 (43)	04:40	
	16:16	24	10:24 (15)	17:23	23	10:05 (3)	18:27	30	08:18 (4)	20:33			21:38	22	06:31 (43)	22:28	
12	09:07		10:01 (15)	08:12		09:44 (3)	07:01		07:49 (4)	06:36			05:23		06:10 (43)	04:39	
	16:18	24	10:25 (15)	17:26	19	10:03 (3)	18:29	30	08:19 (4)	20:36			21:40	21	06:31 (43)	22:29	
13	09:06		10:00 (15)	08:10		09:46 (3)	06:58		07:49 (4)	06:34		07:03 (2)	05:21		06:11 (43)	04:39	
	16:20	25	10:25 (15)	17:28	15	10:01 (3)	18:31	29	08:18 (4)	20:38	12	07:15 (2)	21:42	19	06:30 (43)	22:30	
14	09:05		10:01 (15)	08:08		09:50 (3)	06:55		07:48 (4)	06:31		07:00 (2)	05:19		06:11 (43)	04:38	
	16:22	25	10:26 (15)	17:30	6	09:56 (3)	18:33	29	08:17 (4)	20:40	17	07:17 (2)	21:44	18	06:29 (43)	22:30	
15	09:03		10:01 (15)	08:05			06:53		07:34 (41)	06:28		06:58 (2)	05:17		06:12 (43)	04:38	
	16:24	25	10:26 (15)	17:33			18:35	39	08:16 (4)	20:42	21	07:19 (2)	21:46	16	06:28 (43)	22:31	
16	09:02		10:02 (15)	08:03			06:50		07:31 (41)	06:26		06:56 (2)	05:15		06:13 (43)	04:38	
	16:26	25	10:27 (15)	17:35			18:38	44	08:15 (4)	20:44	23	07:19 (2)	21:48	14	06:27 (43)	22:32	
17	09:01		10:02 (15)	08:00			06:47		07:28 (41)	06:23		06:55 (42)	05:13		06:15 (43)	04:38	
	16:28	24	10:26 (15)	17:37			18:40	46	08:14 (4)	20:46	25	07:20 (2)	21:50	11	06:26 (43)	22:32	
18	09:00		09:46 (3)	07:58			06:44		07:25 (41)	06:20		06:52 (42)	05:11		06:17 (43)	04:38	
	16:30	30	10:26 (15)	17:40			18:42	47	08:12 (4)	20:49	28	07:20 (2)	21:52	7	06:24 (43)	22:33	
19	08:58		09:44 (3)	07:55			06:42		07:23 (41)	06:18		06:51 (42)	05:09			04:38	
	16:32	36	10:27 (15)	17:42			18:44	46	08:09 (4)	20:51	30	07:21 (2)	21:53			22:33	
20	08:57		09:42 (3)	07:53			06:39		07:23 (41)	06:15		06:50 (42)	05:07			04:38	
	16:34	39	10:27 (15)	17:44			18:46	43	08:06 (4)	20:53	30	07:20 (2)	21:55			22:34	
21	08:55		09:40 (3)	07:51			06:36		07:21 (41)	06:13		06:49 (42)	05:05			04:38	
	16:36	42	10:27 (15)	17:46			18:48	36	07:57 (41)	20:55	32	07:21 (2)	21:57			22:34	
22	08:54		09:39 (3)	07:48			06:33		07:20 (41)	06:10		06:48 (42)	05:04			04:38	
	16:38	43	10:26 (15)	17:49			18:51	37	07:57 (41)	20:57	32	07:20 (2)	21:59			22:34	
23	08:52		09:39 (3)	07:45			06:31		07:19 (41)	06:08		06:48 (42)	05:02			04:38	
	16:40	43	10:26 (15)	17:51			18:53	38	07:57 (41)	20:59	32	07:20 (2)	22:01			22:34	
24	08:51		09:38 (3)	07:43			06:28		07:18 (41)	06:05		06:46 (42)	05:00			04:38	
	16:42	43	10:25 (15)	17:53			18:55	40	07:58 (41)	21:01	33	07:19 (2)	22:03			22:34	
25	08:49		09:37 (3)	07:40			06:25		07:18 (41)	06:02		06:46 (42)	04:59			04:39	
	16:45	43	10:24 (15)	17:56			18:57	40	07:58 (41)	21:04	33	07:19 (2)	22:04			22:34	
26	08:47		09:37 (3)	07:38			06:22		07:17 (41)	06:00		06:47 (42)	04:57			04:39	
	16:47	41	10:23 (15)	17:58			18:59	41	07:58 (41)	21:06	32	07:19 (2)	22:06			22:34	
27	08:45		09:37 (3)	07:35			06:20		07:16 (41)	05:57		06:46 (42)	04:56			04:40	
	16:49	38	10:21 (15)	18:00			19:01	41	07:57 (41)	21:08	31	07:17 (42)	22:08			22:34	
28	08:44		09:37 (3)	07:33			06:17		07:16 (41)	05:55		06:46 (42)	04:54			04:40	
	16:51	30	10:07 (3)	18:02			19:03	42	07:58 (41)	21:10	31	07:17 (42)	22:10			22:34	
29	08:42		09:36 (3)				07:14		08:16 (41)	05:53		06:21 (43)	04:53			04:41	
	16:53	31	10:07 (3)				20:06	41	08:57 (41)	21:12	35	07:17 (42)	22:11			22:34	
30	08:40		09:37 (3)				07:12		08:16 (41)	05:50		06:18 (43)	04:51			04:42	
	16:56	31	10:08 (3)				20:08	40	08:56 (41)	21:14	38	07:15 (42)	22:13			22:33	
31	08:38		09:37 (3)				07:09		08:15 (41)				04:50				
	16:58	32	10:09 (3)				20:10	40	08:55 (41)				22:14				
Potential sun hours	231			264			366			428			512			534	
Total, worst case		909			365			1030			780			493			
Sun reduction		0.28			0.33			0.46			0.55			0.61			
Oper. time red.		0.94			0.94			0.94			0.94			0.94			
Wind dir. red.		0.59			0.57			0.60			0.63			0.66			
Total reduction		0.15			0.18			0.26			0.32			0.38			
Total, real		138			66			268			252			187			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BL - Grantkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:42			05:30		06:20 (43)	06:34			07:36		08:28 (4)	07:43		09:10 (3)	08:47		09:42 (15)
	22:33			21:50	21	06:41 (43)	20:34			19:11	30	08:58 (4)	16:52	25	09:35 (3)	15:59	24	10:06 (15)
2	04:43			05:32		06:19 (43)	06:36			07:38		08:27 (4)	07:45		09:10 (3)	08:48		09:43 (15)
	22:32			21:48	22	06:41 (43)	20:31			19:09	30	08:57 (4)	16:49	27	09:37 (3)	15:58	24	10:07 (15)
3	04:44			05:34		06:19 (43)	06:38		08:23 (41)	07:40		08:27 (4)	07:48		09:08 (3)	08:50		09:43 (15)
	22:32			21:45	22	06:41 (43)	20:28	14	08:37 (41)	19:06	30	08:57 (4)	16:47	29	09:37 (3)	15:57	24	10:07 (15)
4	04:45			05:36		06:19 (43)	06:40		08:20 (41)	07:42		08:27 (4)	07:50		09:08 (3)	08:52		09:44 (15)
	22:31			21:43	23	06:42 (43)	20:26	20	08:40 (41)	19:03	29	08:56 (4)	16:45	30	09:38 (3)	15:56	23	10:07 (15)
5	04:46			05:38		06:19 (43)	06:42		08:17 (41)	07:44		08:26 (4)	07:52		09:07 (3)	08:54		09:44 (15)
	22:30			21:41	33	07:15 (42)	20:23	25	08:42 (41)	19:00	29	08:55 (4)	16:43	31	09:38 (3)	15:55	22	10:06 (15)
6	04:47			05:40		06:19 (43)	06:44		08:15 (41)	07:46		08:27 (4)	07:54		09:08 (3)	08:55		09:45 (15)
	22:29			21:39	39	07:18 (42)	20:20	28	08:43 (41)	18:58	28	08:55 (4)	16:40	31	09:39 (3)	15:54	22	10:07 (15)
7	04:48			05:42		06:19 (43)	06:46		08:13 (41)	07:48		08:28 (4)	07:57		09:07 (3)	08:57		09:46 (15)
	22:29			21:37	42	07:20 (42)	20:17	32	08:45 (41)	18:55	26	08:54 (4)	16:38	32	09:39 (3)	15:54	21	10:07 (15)
8	04:50			05:44		06:20 (43)	06:48		08:12 (41)	07:51		08:28 (4)	07:59		09:08 (3)	08:58		09:47 (15)
	22:28			21:34	43	07:21 (42)	20:15	34	08:46 (41)	18:52	25	08:53 (4)	16:36	32	09:40 (3)	15:53	21	10:08 (15)
9	04:51			05:46		06:19 (43)	06:50		08:11 (41)	07:53		08:29 (4)	08:01		09:07 (3)	09:00		09:47 (15)
	22:27			21:32	45	07:21 (42)	20:12	35	08:46 (41)	18:50	22	08:51 (4)	16:34	32	09:39 (3)	15:53	20	10:07 (15)
10	04:52			05:48		06:21 (43)	06:52		08:10 (41)	07:55		08:30 (4)	08:03		09:08 (3)	09:01		09:48 (15)
	22:26			21:30	44	07:22 (42)	20:09	37	08:47 (41)	18:47	19	08:49 (4)	16:32	32	09:40 (3)	15:52	20	10:08 (15)
11	04:54			05:50		06:23 (43)	06:54		08:09 (41)	07:57		08:33 (4)	08:06		09:08 (3)	09:02		09:49 (15)
	22:25			21:27	42	07:23 (42)	20:06	38	08:47 (41)	18:44	14	08:47 (4)	16:30	31	09:39 (3)	15:52	19	10:08 (15)
12	04:55			05:52		06:25 (43)	06:57		08:08 (41)	07:59		08:37 (4)	08:08		09:08 (3)	09:03		09:49 (15)
	22:23			21:25	40	07:23 (42)	20:04	39	08:47 (41)	18:42	5	08:42 (4)	16:28	32	09:40 (3)	15:51	18	10:07 (15)
13	04:56			05:54		06:27 (43)	06:59		08:07 (41)	08:01			08:10		09:08 (3)	09:05		09:50 (15)
	22:22			21:22	38	07:24 (42)	20:01	40	08:47 (41)	18:39			16:26	31	09:39 (3)	15:51	18	10:08 (15)
14	04:58			05:57		06:29 (43)	07:01		08:06 (41)	08:03			08:12		09:09 (3)	09:06		09:51 (15)
	22:21			21:20	33	07:24 (42)	19:58	41	08:47 (41)	18:36			16:24	30	09:39 (3)	15:51	17	10:08 (15)
15	04:59			05:59		06:54 (42)	07:03		08:06 (41)	08:06			08:14		09:10 (3)	09:07		09:52 (15)
	22:20			21:18	30	07:24 (42)	19:55	41	08:47 (41)	18:34			16:22	38	09:54 (15)	15:51	16	10:08 (15)
16	05:01			06:01		06:53 (42)	07:05		08:05 (41)	08:08			08:17		09:11 (3)	09:08		09:52 (15)
	22:18			21:15	32	07:25 (2)	19:53	42	08:47 (41)	18:31			16:20	41	09:57 (15)	15:51	16	10:08 (15)
17	05:03			06:03		06:53 (42)	07:07		08:05 (41)	08:10			08:19		09:11 (3)	09:09		09:53 (15)
	22:17			21:13	32	07:25 (2)	19:50	41	08:46 (41)	18:29			16:19	43	09:58 (15)	15:51	16	10:09 (15)
18	05:04			06:05		06:53 (42)	07:09		08:05 (41)	08:12			08:21		09:12 (3)	09:10		09:54 (15)
	22:15			21:10	33	07:26 (2)	19:47	41	08:46 (41)	18:26			16:17	43	09:59 (15)	15:51	15	10:09 (15)
19	05:06			06:07		06:53 (42)	07:11		08:05 (41)	08:14			08:23		09:14 (3)	09:10		09:55 (15)
	22:14			21:08	33	07:26 (2)	19:44	40	08:45 (41)	18:23			16:15	43	10:01 (15)	15:51	15	10:10 (15)
20	05:08			06:09		06:53 (42)	07:13		08:05 (41)	08:16			08:25		09:14 (3)	09:11		09:54 (15)
	22:12			21:05	33	07:26 (2)	19:42	39	08:44 (41)	18:21			16:14	43	10:01 (15)	15:52	15	10:09 (15)
21	05:09			06:11		06:53 (42)	07:15		08:05 (41)	08:19			08:27		09:16 (3)	09:12		09:55 (15)
	22:10			21:03	33	07:26 (2)	19:39	38	08:43 (41)	18:18			16:12	42	10:03 (15)	15:52	15	10:10 (15)
22	05:11			06:13		06:54 (42)	07:17		08:06 (41)	08:21			08:29		09:18 (3)	09:12		09:55 (15)
	22:09			21:00	32	07:26 (2)	19:36	36	08:42 (41)	18:16			16:10	39	10:03 (15)	15:52	15	10:10 (15)
23	05:13			06:15		06:53 (42)	07:19		08:06 (41)	08:23			08:31		09:20 (3)	09:13		09:56 (15)
	22:07			20:57	31	07:24 (2)	19:33	41	08:48 (4)	18:13			16:09	36	10:03 (15)	15:53	15	10:11 (15)
24	05:15			06:17		06:54 (42)	07:21		08:07 (41)	08:25			08:33		09:23 (3)	09:13		09:57 (15)
	22:05			20:55	30	07:24 (2)	19:31	45	08:52 (4)	18:11			16:07	31	10:04 (15)	15:54	15	10:12 (15)
25	05:17		06:29 (43)	06:19		06:55 (42)	07:23		08:08 (41)	07:27			08:35		09:40 (15)	09:14		09:57 (15)
	22:03	2	06:31 (43)	20:52	28	07:23 (2)	19:28	46	08:54 (4)	17:08			16:06	25	10:05 (15)	15:54	15	10:12 (15)
26	05:18		06:26 (43)	06:21		06:57 (42)	07:25		08:09 (41)	07:30			08:37		09:40 (15)	09:14		09:57 (15)
	22:02	9	06:35 (43)	20:50	25	07:22 (2)	19:25	46	08:55 (4)	17:06			16:05	25	10:05 (15)	15:55	16	10:13 (15)
27	05:20		06:24 (43)	06:24		06:58 (2)	07:27		08:11 (41)	07:32			08:39		09:40 (15)	09:14		09:57 (15)
	22:00	13	06:37 (43)	20:47	23	07:21 (2)	19:22	45	08:56 (4)	17:03			16:03	25	10:05 (15)	15:56	16	10:13 (15)
28	05:22		06:24 (43)	06:26		06:59 (2)	07:30		08:14 (41)	07:34		09:18 (3)	08:41		09:41 (15)	09:14		09:57 (15)
	21:58	15	06:39 (43)	20:44	20	07:19 (2)	19:20	41	08:56 (4)	17:01	9	09:27 (3)	16:02	25	10:06 (15)	15:57	17	10:14 (15)
29	05:24		06:22 (43)	06:28		07:01 (2)	07:32		08:30 (4)	07:36		09:15 (3)	08:43		09:41 (15)	09:14		09:58 (15)
	21:56	17	06:39 (43)	20:42	16	07:17 (2)	19:17	28	08:58 (4)	16:59	16	09:31 (3)	16:01	25	10:06 (15)	15:58	17	10:15 (15)
30	05:26		06:21 (43)	06:30		07:03 (2)	07:34		08:29 (4)	07:39		09:13 (3)	08:45		09:42 (15)	09:14		09:58 (15)
	21:54	19	06:40 (43)	20:39	12	07:15 (2)	19:14	29	08:58 (4)	16:56	19	09:32 (3)	16:00	24	10:06 (15)	15:59	18	10:16 (15)
31	05:28		06:21 (43)	06:32						07:41		09:12 (3)				09:14		09:58 (15)
	21:52	20	06:41 (43)	20:36						16:54	23	09:35 (3)				16:00	18	10:16 (15)
Potential sun hours	534			472			385			322			244			211		
Total, worst case		95			930			1022			354			973			563	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.67			0.65			0.61			0.59			0.58			0.60	
Total reduction		0.38			0.36			0.28			0.24			0.13			0.13	
Total, real		36			332			290			83			122			71	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BM - Graši

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June
1	09:13		10:53 (29)	08:36		09:26 (30)	07:30		08:56 (28)	07:06			05:48		06:23 (27)	04:49
	16:02	40	11:33 (29)	17:00	56	11:36 (29)	18:05	47	09:43 (28)	20:12			21:16	25	06:48 (27)	22:15
2	09:13		10:53 (29)	08:34		09:26 (30)	07:27		08:56 (28)	07:03			05:46		06:22 (27)	04:48
	16:03	41	11:34 (29)	17:03	53	11:34 (29)	18:07	46	09:42 (28)	20:14			21:18	27	06:49 (27)	22:17
3	09:13		10:53 (29)	08:32		09:26 (30)	07:25		08:56 (28)	07:01			05:43		06:22 (27)	04:47
	16:04	41	11:34 (29)	17:05	48	11:32 (29)	18:09	44	09:40 (28)	20:16			21:21	27	06:49 (27)	22:18
4	09:12		10:54 (29)	08:30		09:26 (30)	07:22		08:57 (28)	06:58			05:41		06:21 (27)	04:46
	16:06	41	11:35 (29)	17:07	39	11:27 (29)	18:11	43	09:40 (28)	20:18			21:23	29	06:50 (27)	22:20
5	09:12		10:54 (29)	08:28		09:26 (30)	07:19		08:58 (28)	06:55			05:39		06:21 (27)	04:45
	16:07	42	11:36 (29)	17:10	31	09:57 (30)	18:14	41	09:39 (28)	20:21			21:25	29	06:50 (27)	22:21
6	09:11		10:55 (29)	08:25		09:27 (30)	07:17		08:58 (28)	06:52			05:36		06:21 (27)	04:44
	16:09	41	11:36 (29)	17:12	31	09:58 (30)	18:16	39	09:37 (28)	20:23			21:27	29	06:50 (27)	22:22
7	09:11		10:55 (29)	08:23		08:53 (31)	07:14		08:59 (28)	06:50			05:34		06:21 (27)	04:43
	16:10	42	11:37 (29)	17:14	32	09:57 (30)	18:18	36	09:35 (28)	20:25			21:29	29	06:50 (27)	22:23
8	09:10		10:55 (29)	08:21		08:51 (31)	07:11		09:01 (28)	06:47			05:32		06:20 (27)	04:42
	16:12	42	11:37 (29)	17:17	38	09:57 (30)	18:20	33	09:34 (28)	20:27			21:31	29	06:49 (27)	22:25
9	09:09		10:56 (29)	08:19		08:49 (31)	07:09		09:02 (28)	06:44			05:30		06:20 (27)	04:42
	16:13	42	11:38 (29)	17:19	52	09:57 (30)	18:22	30	09:32 (28)	20:29			21:33	29	06:49 (27)	22:26
10	09:08		10:56 (29)	08:17		08:46 (31)	07:06		09:03 (28)	06:42			05:27		06:21 (27)	04:41
	16:15	43	11:39 (29)	17:21	62	09:56 (30)	18:25	26	09:29 (28)	20:31			21:35	28	06:49 (27)	22:27
11	09:07		10:56 (29)	08:14		08:45 (31)	07:03		09:06 (28)	06:39			05:25		06:21 (27)	04:40
	16:17	42	11:38 (29)	17:24	66	09:56 (30)	18:27	20	09:26 (28)	20:33			21:37	28	06:49 (27)	22:28
12	09:06		10:56 (29)	08:12		08:43 (31)	07:01		09:11 (28)	06:36			05:23		06:22 (27)	04:40
	16:19	43	11:39 (29)	17:26	68	09:54 (30)	18:29	10	09:21 (28)	20:36			21:39	26	06:48 (27)	22:28
13	09:05		10:57 (29)	08:10		08:43 (31)	06:58			06:34			05:21		06:22 (27)	04:39
	16:20	43	11:40 (29)	17:28	70	09:53 (30)	18:31			20:38			21:41	26	06:48 (27)	22:29
14	09:04		10:57 (29)	08:07		08:43 (31)	06:55			06:31			05:19		06:22 (27)	04:39
	16:22	43	11:40 (29)	17:30	68	09:51 (30)	18:33			20:40			21:43	25	06:47 (27)	22:30
15	09:03		10:57 (29)	08:05		08:43 (31)	06:53			06:28			05:17		06:23 (27)	04:38
	16:24	44	11:41 (29)	17:33	66	09:49 (30)	18:35			20:42			21:45	23	06:46 (27)	22:31
16	09:02		10:57 (29)	08:03		08:43 (31)	06:50			06:26			05:15		06:23 (27)	04:38
	16:26	44	11:41 (29)	17:35	57	09:40 (28)	18:38			20:44			21:47	22	06:45 (27)	22:31
17	09:01		10:58 (29)	08:00		08:43 (31)	06:47			06:23			05:13		06:25 (27)	04:38
	16:28	43	11:41 (29)	17:37	59	09:42 (28)	18:40			20:46			21:49	19	06:44 (27)	22:32
18	08:59		10:58 (29)	07:58		08:43 (31)	06:44			06:21			05:11		06:26 (27)	04:38
	16:30	43	11:41 (29)	17:40	59	09:42 (28)	18:42			20:48			21:51	17	06:43 (27)	22:32
19	08:58		10:59 (29)	07:55		08:44 (31)	06:42			06:18			05:09		06:27 (27)	04:38
	16:32	42	11:41 (29)	17:42	58	09:42 (28)	18:44			20:51			21:53	14	06:41 (27)	22:33
20	08:57		11:00 (29)	07:53		08:45 (31)	06:39			06:15			05:07		06:29 (27)	04:38
	16:34	42	11:42 (29)	17:44	58	09:43 (28)	18:46			20:53			21:55	11	06:40 (27)	22:33
21	08:55		11:00 (29)	07:50		08:46 (31)	06:36			06:13			05:06		06:32 (27)	04:38
	16:36	42	11:42 (29)	17:47	57	09:43 (28)	18:48			20:55			21:57	4	06:36 (27)	22:34
22	08:54		09:35 (30)	07:48		08:47 (31)	06:33			06:10			05:04			04:38
	16:38	50	11:42 (29)	17:49	56	09:43 (28)	18:51			20:57			21:59			22:34
23	08:52		09:33 (30)	07:45		08:52 (31)	06:31			06:08			05:02			04:38
	16:40	54	11:42 (29)	17:51	50	09:44 (28)	18:53			20:59			22:01			22:34
24	08:50		09:31 (30)	07:43		08:56 (28)	06:28			06:05			05:01			04:39
	16:43	56	11:41 (29)	17:53	48	09:44 (28)	18:55			21:01			22:02			22:34
25	08:49		09:30 (30)	07:40		08:57 (28)	06:25			06:03			04:59			04:39
	16:45	59	11:41 (29)	17:56	47	09:44 (28)	18:57			21:03			22:04			22:34
26	08:47		09:29 (30)	07:38		08:56 (28)	06:22			06:00		06:32 (27)	04:57			04:40
	16:47	60	11:41 (29)	17:58	48	09:44 (28)	18:59			21:06	9	06:41 (27)	22:06			22:34
27	08:45		09:28 (30)	07:35		08:56 (28)	06:20			05:58		06:28 (27)	04:56			04:40
	16:49	61	11:41 (29)	18:00	47	09:43 (28)	19:01			21:08	15	06:43 (27)	22:08			22:34
28	08:43		09:28 (30)	07:33		08:55 (28)	06:17			05:55		06:27 (27)	04:54			04:41
	16:51	61	11:40 (29)	18:02	47	09:42 (28)	19:03			21:10	18	06:45 (27)	22:09			22:33
29	08:42		09:27 (30)				07:14			05:53		06:25 (27)	04:53			04:41
	16:54	61	11:39 (29)				20:06			21:12	22	06:47 (27)	22:11			22:33
30	08:40		09:27 (30)				07:12			05:50		06:25 (27)	04:52			04:42
	16:56	60	11:39 (29)				20:08			21:14	23	06:48 (27)	22:12			22:33
31	08:38		09:27 (30)				07:09						04:50			
	16:58	58	11:38 (29)				20:10						22:14			
Potential sun hours	231			264			366			428			512			534
Total, worst case		1466			1471			415			87			496		
Sun reduction		0.27			0.33			0.46			0.55			0.61		
Oper. time red.		0.94			0.94			0.94			0.94			0.94		
Wind dir. red.		0.61			0.58			0.59			0.66			0.66		
Total reduction		0.16			0.18			0.25			0.34			0.38		
Total, real		229			268			105			29			188		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BM - Graši

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September	October			November			December		
1	04:43			05:30		06:32 (27)	06:34	07:36			07:43		08:16 (31)	08:46		10:38 (29)
	22:32			21:49	27	06:59 (27)	20:34	19:11			16:52	60	09:26 (30)	15:59	42	11:20 (29)
2	04:44			05:32		06:32 (27)	06:36	07:38		09:46 (28)	07:45		08:19 (31)	08:48		10:38 (29)
	22:32			21:47	27	06:59 (27)	20:31	19:09	17	10:03 (28)	16:50	48	09:27 (30)	15:58	43	11:21 (29)
3	04:45			05:34		06:30 (27)	06:38	07:40		09:43 (28)	07:47		08:21 (31)	08:50		10:39 (29)
	22:31			21:45	29	06:59 (27)	20:28	19:06	23	10:06 (28)	16:47	38	09:27 (30)	15:57	42	11:21 (29)
4	04:46			05:36		06:30 (27)	06:40	07:42		09:40 (28)	07:50		08:56 (30)	08:52		10:39 (29)
	22:31			21:43	29	06:59 (27)	20:25	19:03	28	10:08 (28)	16:45	31	09:27 (30)	15:56	42	11:21 (29)
5	04:47			05:38		06:30 (27)	06:42	07:44		09:38 (28)	07:52		08:56 (30)	08:53		10:40 (29)
	22:30			21:41	29	06:59 (27)	20:23	19:00	32	10:10 (28)	16:43	31	09:27 (30)	15:55	42	11:22 (29)
6	04:48			05:40		06:30 (27)	06:44	07:46		09:36 (28)	07:54		08:56 (30)	08:55		10:41 (29)
	22:29			21:39	29	06:59 (27)	20:20	18:58	35	10:11 (28)	16:41	31	09:27 (30)	15:55	41	11:22 (29)
7	04:49			05:42		06:30 (27)	06:46	07:48		09:35 (28)	07:56		08:57 (30)	08:56		10:42 (29)
	22:28			21:36	29	06:59 (27)	20:17	18:55	38	10:13 (28)	16:39	40	10:58 (29)	15:54	41	11:23 (29)
8	04:50			05:44		06:31 (27)	06:48	07:50		09:33 (28)	07:59		08:56 (30)	08:58		10:42 (29)
	22:27			21:34	28	06:59 (27)	20:15	18:52	41	10:14 (28)	16:36	48	11:02 (29)	15:53	41	11:23 (29)
9	04:51			05:46		06:31 (27)	06:50	07:53		09:32 (28)	08:01		08:57 (30)	08:59		10:43 (29)
	22:26			21:32	28	06:59 (27)	20:12	18:50	42	10:14 (28)	16:34	53	11:05 (29)	15:53	40	11:23 (29)
10	04:53			05:48		06:31 (27)	06:52	07:55		09:31 (28)	08:03		08:57 (30)	09:01		10:43 (29)
	22:25			21:29	27	06:58 (27)	20:09	18:47	43	10:14 (28)	16:32	56	11:07 (29)	15:52	40	11:23 (29)
11	04:54			05:51		06:31 (27)	06:55	07:57		09:31 (28)	08:05		08:58 (30)	09:02		10:44 (29)
	22:24			21:27	26	06:57 (27)	20:06	18:44	45	10:16 (28)	16:30	58	11:09 (29)	15:52	40	11:24 (29)
12	04:55			05:53		06:31 (27)	06:57	07:59		09:30 (28)	08:08		08:58 (30)	09:03		10:44 (29)
	22:23			21:25	25	06:56 (27)	20:04	18:42	46	10:16 (28)	16:28	60	11:10 (29)	15:52	40	11:24 (29)
13	04:57			05:55		06:32 (27)	06:59	08:01		09:29 (28)	08:10		08:59 (30)	09:04		10:44 (29)
	22:22			21:22	23	06:55 (27)	20:01	18:39	47	10:16 (28)	16:26	60	11:11 (29)	15:51	40	11:24 (29)
14	04:58			05:57		06:33 (27)	07:01	08:03		09:28 (28)	08:12		09:00 (30)	09:05		10:45 (29)
	22:21			21:20	21	06:54 (27)	19:58	18:36	47	10:15 (28)	16:24	60	11:12 (29)	15:51	39	11:24 (29)
15	05:00			05:59		06:35 (27)	07:03	08:05		09:29 (28)	08:14		09:01 (30)	09:06		10:46 (29)
	22:19			21:17	17	06:52 (27)	19:55	18:34	47	10:16 (28)	16:23	60	11:13 (29)	15:51	39	11:25 (29)
16	05:01			06:01		06:36 (27)	07:05	08:08		09:28 (28)	08:16		09:02 (30)	09:07		10:47 (29)
	22:18			21:15	14	06:50 (27)	19:53	18:31	48	10:16 (28)	16:21	60	11:14 (29)	15:51	39	11:26 (29)
17	05:03			06:03		06:40 (27)	07:07	08:10		09:28 (28)	08:18		09:04 (30)	09:08		10:47 (29)
	22:16			21:12	7	06:47 (27)	19:50	18:29	47	10:15 (28)	16:19	59	11:15 (29)	15:51	39	11:26 (29)
18	05:05			06:05			07:09	08:12		09:27 (28)	08:21		09:05 (30)	09:09		10:47 (29)
	22:15			21:10			19:47	18:26	48	10:15 (28)	16:17	56	11:15 (29)	15:51	39	11:26 (29)
19	05:06			06:07			07:11	08:14		09:21 (31)	08:23		09:08 (30)	09:10		10:48 (29)
	22:13			21:07			19:44	18:24	54	10:15 (28)	16:15	54	11:17 (29)	15:52	38	11:26 (29)
20	05:08			06:09			07:13	08:16		09:18 (31)	08:25		09:10 (30)	09:11		10:49 (29)
	22:12			21:05			19:42	18:21	56	10:14 (28)	16:14	50	11:17 (29)	15:52	38	11:27 (29)
21	05:10			06:11			07:15	08:19		09:16 (31)	08:27		10:35 (29)	09:11		10:48 (29)
	22:10			21:02			19:39	18:18	57	10:13 (28)	16:12	42	11:17 (29)	15:52	39	11:27 (29)
22	05:11			06:13			07:17	08:21		09:15 (31)	08:29		10:36 (29)	09:12		10:49 (29)
	22:09			21:00			19:36	18:16	58	10:13 (28)	16:11	42	11:18 (29)	15:53	39	11:28 (29)
23	05:13		06:41 (27)	06:15			07:19	08:23		09:14 (31)	08:31		10:36 (29)	09:12		10:49 (29)
	22:07	7	06:48 (27)	20:57			19:33	18:13	58	10:12 (28)	16:09	42	11:18 (29)	15:53	39	11:28 (29)
24	05:15		06:39 (27)	06:17			07:21	08:25		09:14 (31)	08:33		10:35 (29)	09:13		10:51 (29)
	22:05	12	06:51 (27)	20:55			19:31	18:11	58	10:12 (28)	16:08	43	11:18 (29)	15:54	38	11:29 (29)
25	05:17		06:38 (27)	06:19			07:23	07:27		08:13 (31)	08:35		10:36 (29)	09:13		10:51 (29)
	22:03	15	06:53 (27)	20:52			19:28	17:08	58	09:11 (28)	16:06	43	11:19 (29)	15:55	38	11:29 (29)
26	05:19		06:36 (27)	06:22			07:25	07:30		08:12 (31)	08:37		10:36 (29)	09:13		10:51 (29)
	22:01	18	06:54 (27)	20:49			19:25	17:06	62	09:14 (30)	16:05	44	11:20 (29)	15:55	39	11:30 (29)
27	05:21		06:35 (27)	06:24			07:27	07:32		08:12 (31)	08:39		10:36 (29)	09:14		10:51 (29)
	21:59	20	06:55 (27)	20:47			19:22	17:04	67	09:19 (30)	16:04	44	11:20 (29)	15:56	39	11:30 (29)
28	05:22		06:34 (27)	06:26			07:30	07:34		08:12 (31)	08:41		10:37 (29)	09:14		10:52 (29)
	21:58	22	06:56 (27)	20:44			19:20	17:01	69	09:21 (30)	16:02	43	11:20 (29)	15:57	39	11:31 (29)
29	05:24		06:33 (27)	06:28			07:32	07:36		08:13 (31)	08:43		10:37 (29)	09:14		10:52 (29)
	21:56	23	06:56 (27)	20:42			19:17	16:59	70	09:23 (30)	16:01	43	11:20 (29)	15:58	40	11:32 (29)
30	05:26		06:32 (27)	06:30			07:34	07:38		08:13 (31)	08:45		10:37 (29)	09:14		10:52 (29)
	21:54	25	06:57 (27)	20:39			19:14	16:56	69	09:24 (30)	16:00	43	11:20 (29)	15:59	40	11:32 (29)
31	05:28		06:32 (27)	06:32				07:41		08:14 (31)				09:14		10:53 (29)
	21:52	26	06:58 (27)	20:36				16:54	65	09:25 (30)				16:00	39	11:32 (29)
Potential sun hours	534			472			385	322			244			212		
Total, worst case		168			415				1475			1442			1234	
Sun reduction		0.60			0.59				0.42			0.23			0.23	
Oper. time red.		0.94			0.94				0.94			0.94			0.94	
Wind dir. red.		0.66			0.66				0.59			0.60			0.61	
Total reduction		0.37			0.36				0.23			0.13			0.13	
Total, real		63			151				344			185			161	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BN - Graveri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		09:59 (43)	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43			08:47		09:45 (43)
	16:01	20	10:19 (43)	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52			15:59	21	10:06 (43)
2	09:14		09:59 (43)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:49		09:45 (43)
	16:02	21	10:20 (43)	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49			15:58	21	10:06 (43)
3	09:13		09:59 (43)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48			08:50		09:45 (43)
	16:04	21	10:20 (43)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:57	22	10:07 (43)
4	09:13		09:59 (43)	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50			08:52		09:46 (43)
	16:05	22	10:21 (43)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45			15:56	21	10:07 (43)
5	09:12		10:00 (43)	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:54		09:46 (43)
	16:07	21	10:21 (43)	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43			15:55	22	10:08 (43)
6	09:12		10:01 (43)	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		09:46 (43)
	16:08	21	10:22 (43)	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40			15:54	22	10:08 (43)
7	09:11		10:01 (43)	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57			08:57		09:47 (43)
	16:10	22	10:23 (43)	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38			15:54	21	10:08 (43)
8	09:10		10:02 (43)	08:21	07:12	06:47	05:31	04:42	04:49	05:44	06:48	07:51	07:59			08:58		09:48 (43)
	16:11	21	10:23 (43)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36			15:53	21	10:09 (43)
9	09:10		10:01 (43)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01			09:00		09:48 (43)
	16:13	22	10:23 (43)	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34			15:52	21	10:09 (43)
10	09:09		10:02 (43)	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		09:49 (43)
	16:15	21	10:23 (43)	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32			15:52	20	10:09 (43)
11	09:08		10:03 (43)	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06			09:02		09:49 (43)
	16:16	21	10:24 (43)	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30			15:52	20	10:09 (43)
12	09:07		10:03 (43)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:04		09:50 (43)
	16:18	21	10:24 (43)	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28			15:51	20	10:10 (43)
13	09:06		10:03 (43)	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:59	08:01	08:10			09:05		09:50 (43)
	16:20	21	10:24 (43)	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26			15:51	20	10:10 (43)
14	09:05		10:04 (43)	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12			09:06		09:51 (43)
	16:22	20	10:24 (43)	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24			15:51	19	10:10 (43)
15	09:04		10:05 (43)	08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14			09:07		09:51 (43)
	16:24	19	10:24 (43)	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22			15:51	20	10:11 (43)
16	09:02		10:06 (43)	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17			09:08		09:51 (43)
	16:26	18	10:24 (43)	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20			15:51	20	10:11 (43)
17	09:01		10:06 (43)	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19			09:09		09:52 (43)
	16:28	18	10:24 (43)	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:19			15:51	19	10:11 (43)
18	09:00		10:08 (43)	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21			09:10		09:53 (43)
	16:30	16	10:24 (43)	17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17			15:51	19	10:12 (43)
19	08:58		10:09 (43)	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23			09:10		09:54 (43)
	16:32	14	10:23 (43)	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15			15:51	19	10:13 (43)
20	08:57		10:10 (43)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		09:54 (43)
	16:34	12	10:22 (43)	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:13			15:51	18	10:12 (43)
21	08:55		10:12 (43)	07:51	06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27		09:48 (43)	09:12		09:55 (43)
	16:36	8	10:20 (43)	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	8	09:56 (43)	15:52	18	10:13 (43)
22	08:54			07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29		09:46 (43)	09:12		09:56 (43)
	16:38			17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	12	09:58 (43)	15:52	18	10:14 (43)
23	08:52			07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31		09:45 (43)	09:13		09:56 (43)
	16:40			17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	14	09:59 (43)	15:53	18	10:14 (43)
24	08:51			07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33		09:45 (43)	09:13		09:56 (43)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:07	16	10:01 (43)	15:53	18	10:14 (43)
25	08:49			07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:27	08:35		09:45 (43)	09:14		09:56 (43)
	16:44			17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	17	10:02 (43)	15:54	19	10:15 (43)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37		09:44 (43)	09:14		09:57 (43)
	16:47			17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	19	10:03 (43)	15:55	19	10:16 (43)
27	08:45			07:35	06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39		09:44 (43)	09:14		09:57 (43)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	19	10:03 (43)	15:56	20	10:17 (43)
28	08:44			07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		09:45 (43)	09:14		09:57 (43)
	16:51			18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	20	10:05 (43)	15:57	19	10:16 (43)
29	08:42				07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43		09:44 (43)	09:14		09:57 (43)
	16:53				20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	21	10:05 (43)	15:58	20	10:17 (43)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45		09:44 (43)	09:14		09:58 (43)
	16:56				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	21	10:05 (43)	15:59	20	10:18 (43)
31	08:38				07:09		04:50		05:28	06:32		07:41				09:14		09:59 (43)
	16:58				20:10		22:14		21:52	20:36		16:54				16:00	20	10:19 (43)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		400												167			615	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.60												0.60			0.60	
Total reduction		0.15												0.13			0.13	
Total, real		62												22			78	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BO - Gundegas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30 08:08 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05 25 08:33 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27 08:07 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07 25 08:32 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25 08:07 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09 25 08:32 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22 08:08 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11 24 08:32 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20 08:08 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44 08:49 (41)	07:52	08:54
	16:07	17:09	18:13 23 08:31 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00 12 09:01 (41)	16:43	15:55
6	09:12	08:26	07:17 08:09 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46 08:47 (41)	07:54	08:55
	16:08	17:12	18:16 20 08:29 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58 17 09:04 (41)	16:40	15:54
7	09:11	08:23	07:14 08:10 (41)	06:50	05:34	04:43	04:48	05:42	06:46	07:48 08:45 (41)	07:57	08:57
	16:10	17:14	18:18 18 08:28 (41)	20:25	21:29	22:24	22:29	21:37	20:17	18:55 20 09:05 (41)	16:38	15:54
8	09:10	08:21	07:12 08:12 (41)	06:47	05:32	04:42	04:50	05:44	06:48	07:51 08:44 (41)	07:59	08:58
	16:11	17:16	18:20 14 08:26 (41)	20:27	21:31	22:25	22:28	21:34	20:15	18:52 21 09:05 (41)	16:36	15:53
9	09:10	08:19	07:09 08:14 (41)	06:44	05:29	04:41	04:51	05:46	06:50	07:53 08:43 (41)	08:01	09:00
	16:13	17:19	18:22 8 08:22 (41)	20:29	21:33	22:26	22:27	21:32	20:12	18:50 23 09:06 (41)	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55 08:42 (41)	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47 24 09:06 (41)	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:54	05:50	06:55	07:57 08:42 (41)	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44 25 09:07 (41)	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57 07:55 (42)	07:59 08:41 (41)	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04 8 08:03 (42)	18:42 25 09:06 (41)	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59 07:52 (42)	08:01 08:41 (41)	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01 14 08:06 (42)	18:39 25 09:06 (41)	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01 07:50 (42)	08:03 08:40 (41)	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58 17 08:07 (42)	18:36 25 09:05 (41)	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03 07:48 (42)	08:06 08:41 (41)	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55 20 08:08 (42)	18:34 24 09:05 (41)	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05 07:47 (42)	08:08 08:42 (41)	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53 21 08:08 (42)	18:31 22 09:04 (41)	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07 07:46 (42)	08:10 08:42 (41)	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50 22 08:08 (42)	18:29 20 09:02 (41)	16:19	15:51
18	09:00	07:58	06:44 07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09 07:46 (42)	08:12 08:44 (41)	08:21	09:10
	16:30	17:40	18:42 5 07:15 (42)	20:49	21:52	22:33	22:15	21:10	19:47 22 08:08 (42)	18:26 18 09:02 (41)	16:17	15:51
19	08:58	07:56	06:42 07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11 07:45 (42)	08:14 08:45 (41)	08:23	09:10
	16:32	17:42	18:44 10 07:17 (42)	20:51	21:54	22:33	22:14	21:08	19:44 23 08:08 (42)	18:23 15 09:00 (41)	16:15	15:51
20	08:57	07:53	06:39 07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13 07:45 (42)	08:16 08:47 (41)	08:25	09:11
	16:34	17:44	18:46 14 07:19 (42)	20:53	21:55	22:34	22:12	21:05	19:42 22 08:07 (42)	18:21 9 08:56 (41)	16:14	15:52
21	08:55	07:51	06:36 07:02 (42)	06:13	05:05	04:38	05:09	06:11	07:15 07:45 (42)	08:19	08:27	09:12
	16:36	17:46	18:48 18 07:20 (42)	20:55	21:57	22:34	22:11	21:03	19:39 21 08:06 (42)	18:18	16:12	15:52
22	08:54	07:48 08:16 (41)	06:33 07:00 (42)	06:10	05:04	04:38	05:11	06:13	07:17 07:46 (42)	08:21	08:29	09:12
	16:38	17:49 11 08:27 (41)	18:51 20 07:20 (42)	20:57	21:59	22:34	22:09	21:00	19:36 19 08:05 (42)	18:16	16:10	15:52
23	08:52	07:46 08:13 (41)	06:31 06:59 (42)	06:08	05:02	04:38	05:13	06:15	07:19 07:48 (42)	08:23	08:31	09:13
	16:40	17:51 16 08:29 (41)	18:53 21 07:20 (42)	20:59	22:01	22:34	22:07	20:57	19:33 15 08:03 (42)	18:13	16:09	15:53
24	08:51	07:43 08:11 (41)	06:28 06:59 (42)	06:05	05:00	04:38	05:15	06:17	07:21 07:50 (42)	08:25	08:33	09:13
	16:42	17:53 19 08:30 (41)	18:55 22 07:21 (42)	21:01	22:03	22:34	22:05	20:55	19:31 12 08:02 (42)	18:11	16:07	15:54
25	08:49	07:40 08:10 (41)	06:25 06:58 (42)	06:03	04:59	04:39	05:17	06:19	07:23 07:52 (42)	07:28	08:35	09:14
	16:45	17:56 22 08:32 (41)	18:57 22 07:20 (42)	21:04	22:05	22:34	22:04	20:52	19:28 7 07:59 (42)	17:08	16:06	15:54
26	08:47	07:38 08:09 (41)	06:23 06:58 (42)	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58 23 08:32 (41)	18:59 22 07:20 (42)	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35 08:08 (41)	06:20 06:58 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:39	09:14
	16:49	18:00 24 08:32 (41)	19:01 21 07:19 (42)	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33 08:08 (41)	06:17 06:59 (42)	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02 25 08:33 (41)	19:03 19 07:18 (42)	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14 07:59 (42)	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06 18 08:17 (42)	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12 08:00 (42)	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08 14 08:14 (42)	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09 08:02 (42)		04:50		05:28	06:32		07:41		09:14
	16:58		20:10 9 08:11 (42)		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case		140	417						243	325		
Sun reduction		0.33	0.46						0.50	0.42		
Oper. time red.		0.94	0.94						0.94	0.94		
Wind dir. red.		0.60	0.61						0.63	0.60		
Total reduction		0.19	0.26						0.29	0.24		
Total, real		26	110						71	78		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BP - Intari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May	June
1	09:14		08:36		09:08 (41)	07:30	07:57 (42)	07:06	05:48	04:49
	16:01		17:00	7	09:15 (41)	18:05	19	08:16 (42)	20:12	21:17	22:16
2	09:14		08:34		09:05 (41)	07:27	07:56 (42)	07:03	05:45	04:48
	16:03		17:03	11	09:16 (41)	18:07	20	08:16 (42)	20:14	21:19	22:17
3	09:13		08:32		09:03 (41)	07:25	07:56 (42)	07:01	05:43	04:47
	16:04		17:05	15	09:18 (41)	18:09	21	08:17 (42)	20:16	21:21	22:19
4	09:13		08:30		09:01 (41)	07:22	07:56 (42)	06:58	05:41	04:45
	16:05		17:07	18	09:19 (41)	18:11	20	08:16 (42)	20:18	21:23	22:20
5	09:12		08:28		08:59 (41)	07:20	07:56 (42)	06:55	05:38	04:44
	16:07		17:09	20	09:19 (41)	18:13	19	08:15 (42)	20:21	21:25	22:21
6	09:12		08:26		08:59 (41)	07:17	07:56 (42)	06:52	05:36	04:44
	16:08		17:12	21	09:20 (41)	18:16	18	08:14 (42)	20:23	21:27	22:23
7	09:11		08:24		08:59 (41)	07:14	07:57 (42)	06:50	05:34	04:43
	16:10		17:14	22	09:21 (41)	18:18	17	08:14 (42)	20:25	21:29	22:24
8	09:10		08:21		08:59 (41)	07:12	07:58 (42)	06:47	05:32	04:42
	16:11		17:16	21	09:20 (41)	18:20	14	08:12 (42)	20:27	21:31	22:25
9	09:10		08:19		08:59 (41)	07:09	08:00 (42)	06:44	05:29	04:41
	16:13		17:19	22	09:21 (41)	18:22	9	08:09 (42)	20:29	21:34	22:26
10	09:09		08:17		08:59 (41)	07:06		06:42	05:27	04:40
	16:15		17:21	21	09:20 (41)	18:25		20:31	21:36	22:27
11	09:08		08:15		09:00 (41)	07:04		06:39	05:25	04:40
	16:16		17:23	20	09:20 (41)	18:27		20:34	21:38	22:28
12	09:07		08:12		09:00 (41)	07:01		06:36	05:23	04:39
	16:18		17:26	19	09:19 (41)	18:29		20:36	21:40	22:29
13	09:06		08:10		09:01 (41)	06:58		06:34	05:21	04:39
	16:20		17:28	18	09:19 (41)	18:31		20:38	21:42	22:30
14	09:05		08:08		09:02 (41)	06:55		06:31	05:19	04:38
	16:22		17:30	15	09:17 (41)	18:33		20:40	21:44	22:31
15	09:04		08:05		09:04 (41)	06:53		06:28	05:17	04:38
	16:24		17:33	11	09:15 (41)	18:35		20:42	21:46	22:31
16	09:02		08:03		09:08 (41)	06:50		06:26	05:15	04:38
	16:26		17:35	3	09:11 (41)	18:38		20:44	21:48	22:32
17	09:01		08:00			06:47		06:23	05:13	04:38
	16:28		17:37			18:40		20:46	21:50	22:32
18	09:00		07:58			06:44		06:20	05:11	04:38
	16:30		17:40			18:42		20:49	21:52	22:33
19	08:58		07:56			06:42		06:18	05:09	04:37
	16:32		17:42			18:44		20:51	21:54	22:33
20	08:57		07:53			06:39		06:15	05:07	04:38
	16:34		17:44			18:46		20:53	21:55	22:34
21	08:55		07:51			06:36		06:13	05:05	04:38
	16:36		17:46			18:48		20:55	21:57	22:34
22	08:54		07:48			06:33		06:10	05:04	04:38
	16:38		17:49			18:51		20:57	21:59	22:34
23	08:52		07:46			06:31		06:08	05:02	04:38
	16:40		17:51			18:53		20:59	22:01	22:34
24	08:51		07:43			06:28		06:05	05:00	04:38
	16:42		17:53			18:55		21:02	22:03	22:34
25	08:49		07:40		08:08 (42)	06:25		06:02	04:59	04:39
	16:45		17:56	3	08:11 (42)	18:57		21:04	22:05	22:34
26	08:47		07:38		08:05 (42)	06:23		06:00	04:57	04:39
	16:47		17:58	8	08:13 (42)	18:59		21:06	22:06	22:34
27	08:45		07:35		08:02 (42)	06:20		05:58	04:56	04:40
	16:49		18:00	12	08:14 (42)	19:01		21:08	22:08	22:34
28	08:44		07:33		08:00 (42)	06:17		05:55	04:54	04:40
	16:51		18:02	16	08:16 (42)	19:03		21:10	22:10	22:34
29	08:42					07:14		05:53	04:53	04:41
	16:53					20:06		21:12	22:11	22:34
30	08:40					07:12		05:50	04:51	04:42
	16:56					20:08		21:14	22:13	22:33
31	08:38	09:10 (41)				07:09			04:50	
	16:58	2 09:12 (41)				20:10			22:14	
Potential sun hours	231		264			366		428	512	534
Total, worst case	2		303			157				
Sun reduction	0.28		0.33			0.46				
Oper. time red.	0.94		0.94			0.94				
Wind dir. red.	0.59		0.59			0.60				
Total reduction	0.15		0.18			0.26				
Total, real	0		56			40				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BP - Intari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December
1	04:42	05:30	06:34	07:36			07:43		08:28 (41)	08:47
	22:33	21:50	20:34	19:11			16:52	22	08:50 (41)	15:59
2	04:43	05:32	06:36	07:38			07:45		08:29 (41)	08:49
	22:32	21:48	20:31	19:09			16:49	21	08:50 (41)	15:58
3	04:44	05:34	06:38	07:40			07:48		08:28 (41)	08:50
	22:32	21:46	20:28	19:06			16:47	22	08:50 (41)	15:57
4	04:45	05:36	06:40	07:42		08:39 (42)	07:50		08:29 (41)	08:52
	22:31	21:43	20:26	19:03	5	08:44 (42)	16:45	21	08:50 (41)	15:56
5	04:46	05:38	06:42	07:44		08:35 (42)	07:52		08:29 (41)	08:54
	22:30	21:41	20:23	19:00	12	08:47 (42)	16:43	20	08:49 (41)	15:55
6	04:47	05:40	06:44	07:46		08:34 (42)	07:54		08:30 (41)	08:55
	22:30	21:39	20:20	18:58	15	08:49 (42)	16:40	20	08:50 (41)	15:54
7	04:48	05:42	06:46	07:48		08:32 (42)	07:57		08:31 (41)	08:57
	22:29	21:37	20:17	18:55	18	08:50 (42)	16:38	18	08:49 (41)	15:54
8	04:50	05:44	06:48	07:51		08:31 (42)	07:59		08:34 (41)	08:58
	22:28	21:34	20:15	18:52	19	08:50 (42)	16:36	14	08:48 (41)	15:53
9	04:51	05:46	06:50	07:53		08:30 (42)	08:01		08:36 (41)	09:00
	22:27	21:32	20:12	18:50	20	08:50 (42)	16:34	11	08:47 (41)	15:53
10	04:52	05:48	06:52	07:55		08:30 (42)	08:03		08:39 (41)	09:01
	22:26	21:30	20:09	18:47	20	08:50 (42)	16:32	7	08:46 (41)	15:52
11	04:54	05:50	06:55	07:57		08:30 (42)	08:06		08:41 (41)	09:02
	22:25	21:27	20:06	18:44	20	08:50 (42)	16:30	2	08:43 (41)	15:52
12	04:55	05:52	06:57	07:59		08:30 (42)	08:08			09:04
	22:24	21:25	20:04	18:42	20	08:50 (42)	16:28			15:51
13	04:56	05:54	06:59	08:01		08:31 (42)	08:10			09:05
	22:22	21:23	20:01	18:39	18	08:49 (42)	16:26			15:51
14	04:58	05:57	07:01	08:03		08:33 (42)	08:12			09:06
	22:21	21:20	19:58	18:36	14	08:47 (42)	16:24			15:51
15	04:59	05:59	07:03	08:06		08:36 (42)	08:14			09:07
	22:20	21:18	19:55	18:34	11	08:47 (42)	16:22			15:51
16	05:01	06:01	07:05	08:08		08:38 (42)	08:17			09:08
	22:18	21:15	19:53	18:31	7	08:45 (42)	16:20			15:51
17	05:03	06:03	07:07	08:10		08:40 (42)	08:19			09:09
	22:17	21:13	19:50	18:29	1	08:41 (42)	16:19			15:51
18	05:04	06:05	07:09	08:12			08:21			09:10
	22:15	21:10	19:47	18:26			16:17			15:51
19	05:06	06:07	07:11	08:14			08:23			09:10
	22:14	21:08	19:44	18:23			16:15			15:51
20	05:08	06:09	07:13	08:16			08:25			09:11
	22:12	21:05	19:42	18:21			16:14			15:52
21	05:09	06:11	07:15	08:19			08:27			09:12
	22:11	21:03	19:39	18:18			16:12			15:52
22	05:11	06:13	07:17	08:21			08:29			09:12
	22:09	21:00	19:36	18:16			16:10			15:52
23	05:13	06:15	07:19	08:23			08:31			09:13
	22:07	20:57	19:33	18:13			16:09			15:53
24	05:15	06:17	07:21	08:25			08:33			09:13
	22:05	20:55	19:31	18:11			16:07			15:54
25	05:17	06:19	07:23	07:28			08:35			09:14
	22:04	20:52	19:28	17:08			16:06			15:54
26	05:18	06:21	07:25	07:30		08:37 (41)	08:37			09:14
	22:02	20:50	19:25	17:06	6	08:43 (41)	16:05			15:55
27	05:20	06:24	07:27	07:32		08:33 (41)	08:39			09:14
	22:00	20:47	19:22	17:03	12	08:45 (41)	16:03			15:56
28	05:22	06:26	07:30	07:34		08:32 (41)	08:41			09:14
	21:58	20:44	19:20	17:01	16	08:48 (41)	16:02			15:57
29	05:24	06:28	07:32	07:36		08:31 (41)	08:43			09:14
	21:56	20:42	19:17	16:59	17	08:48 (41)	16:01			15:58
30	05:26	06:30	07:34	07:39		08:29 (41)	08:45			09:14
	21:54	20:39	19:14	16:56	20	08:49 (41)	16:00			15:59
31	05:28	06:32		07:41		08:29 (41)				09:14
	21:52	20:36		16:54	21	08:50 (41)				16:00
Potential sun hours	534	472	385	322			244			211
Total, worst case					292			178		
Sun reduction					0.42			0.23		
Oper. time red.					0.94			0.94		
Wind dir. red.					0.59			0.59		
Total reduction					0.24			0.13		
Total, real					69			22		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BQ - Jansoni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June		
1	09:13		10:12 (29)	08:36		09:12 (30)	07:30		08:49 (28)	07:06			05:48			04:49		05:37 (21)
	16:02	25	10:37 (29)	17:00	39	10:42 (29)	18:05	24	09:13 (28)	20:12			21:16			22:16	29	06:06 (21)
2	09:13		10:12 (29)	08:34		09:12 (30)	07:27		08:51 (28)	07:03			05:46			04:48		05:37 (21)
	16:03	25	10:37 (29)	17:03	35	10:40 (29)	18:07	20	09:11 (28)	20:14			21:18			22:17	29	06:06 (21)
3	09:13		10:11 (29)	08:32		09:12 (30)	07:25		08:53 (28)	07:01			05:43			04:47		05:37 (21)
	16:04	27	10:38 (29)	17:05	27	10:36 (29)	18:09	14	09:07 (28)	20:16			21:21			22:18	30	06:07 (21)
4	09:12		10:12 (29)	08:30		09:11 (30)	07:22		08:59 (28)	06:58			05:41			04:46		05:37 (21)
	16:06	27	10:39 (29)	17:07	25	09:36 (30)	18:11	3	09:02 (28)	20:18			21:23			22:20	30	06:07 (21)
5	09:12		10:12 (29)	08:28		09:12 (30)	07:19			06:55			05:39			04:45		05:37 (21)
	16:07	28	10:40 (29)	17:10	24	09:36 (30)	18:14			20:21			21:25			22:21	30	06:07 (21)
6	09:11		10:12 (29)	08:25		09:12 (30)	07:17			06:53			05:36			04:44		05:37 (21)
	16:09	28	10:40 (29)	17:12	25	09:37 (30)	18:16			20:23			21:27			22:22	30	06:07 (21)
7	09:11		10:12 (29)	08:23		09:12 (30)	07:14			06:50			05:34			04:43		05:37 (21)
	16:10	29	10:41 (29)	17:14	24	09:36 (30)	18:18			20:25			21:29			22:23	31	06:08 (21)
8	09:10		10:12 (29)	08:21		09:13 (30)	07:12			06:47			05:32			04:42		05:37 (21)
	16:12	30	10:42 (29)	17:17	23	09:36 (30)	18:20			20:27			21:31			22:25	30	06:07 (21)
9	09:09		10:12 (29)	08:19		09:14 (30)	07:09			06:44			05:30			04:42		05:38 (21)
	16:13	30	10:42 (29)	17:19	22	09:36 (30)	18:22			20:29			21:33			22:26	30	06:08 (21)
10	09:08		10:13 (29)	08:17		08:56 (28)	07:06			06:42			05:27			04:41		05:37 (21)
	16:15	30	10:43 (29)	17:21	34	09:35 (30)	18:25			20:31			21:35			22:27	31	06:08 (21)
11	09:08		10:12 (29)	08:14		08:54 (28)	07:03			06:39		07:05 (27)	05:25			04:40		05:38 (21)
	16:17	31	10:43 (29)	17:24	38	09:35 (30)	18:27			20:33	8	07:13 (27)	21:37			22:28	31	06:09 (21)
12	09:07		10:12 (29)	08:12		08:51 (28)	07:01			06:36		07:02 (27)	05:23			04:40		05:38 (21)
	16:19	32	10:44 (29)	17:26	39	09:33 (30)	18:29			20:36	13	07:15 (27)	21:39			22:29	30	06:08 (21)
13	09:06		10:13 (29)	08:10		08:50 (28)	06:58			06:34		07:00 (27)	05:21			04:39		05:38 (21)
	16:20	32	10:45 (29)	17:28	39	09:32 (30)	18:31			20:38	17	07:17 (27)	21:41			22:29	31	06:09 (21)
14	09:04		10:13 (29)	08:07		08:49 (28)	06:55			06:31		06:58 (27)	05:19			04:39		05:39 (21)
	16:22	32	10:45 (29)	17:30	36	09:29 (30)	18:33			20:40	19	07:17 (27)	21:43			22:30	30	06:09 (21)
15	09:03		10:13 (29)	08:05		08:48 (28)	06:53			06:28		06:57 (27)	05:17			04:39		05:39 (21)
	16:24	33	10:46 (29)	17:33	29	09:17 (28)	18:35			20:42	22	07:19 (27)	21:45			22:31	31	06:10 (21)
16	09:02		10:13 (29)	08:03		08:47 (28)	06:50			06:26		06:56 (27)	05:15			04:38		05:38 (21)
	16:26	33	10:46 (29)	17:35	31	09:18 (28)	18:38			20:44	22	07:18 (27)	21:47			22:31	31	06:09 (21)
17	09:01		10:14 (29)	08:00		08:47 (28)	06:47			06:23		06:56 (27)	05:13			04:38		05:39 (21)
	16:28	33	10:47 (29)	17:37	32	09:19 (28)	18:40			20:46	23	07:19 (27)	21:49			22:32	30	06:09 (21)
18	08:59		10:14 (29)	07:58		08:46 (28)	06:44			06:21		06:55 (27)	05:11			04:38		05:39 (21)
	16:30	33	10:47 (29)	17:40	33	09:19 (28)	18:42			20:48	24	07:19 (27)	21:51			22:33	30	06:09 (21)
19	08:58		10:14 (29)	07:55		08:45 (28)	06:42			06:18		06:55 (27)	05:09		05:48 (21)	04:38		05:39 (21)
	16:32	33	10:47 (29)	17:42	34	09:19 (28)	18:44			20:51	24	07:19 (27)	21:53	5	05:53 (21)	22:33	31	06:10 (21)
20	08:57		10:15 (29)	07:53		08:46 (28)	06:39			06:15		06:55 (27)	05:07		05:44 (21)	04:38		05:40 (21)
	16:34	33	10:48 (29)	17:44	33	09:19 (28)	18:46			20:53	23	07:18 (27)	21:55	12	05:56 (21)	22:33	31	06:11 (21)
21	08:55		10:15 (29)	07:50		08:45 (28)	06:36			06:13		06:55 (27)	05:06		05:42 (21)	04:38		05:40 (21)
	16:36	33	10:48 (29)	17:47	34	09:19 (28)	18:48			20:55	23	07:18 (27)	21:57	15	05:57 (21)	22:34	31	06:11 (21)
22	08:54		10:15 (29)	07:48		08:46 (28)	06:33			06:10		06:55 (27)	05:04		05:41 (21)	04:38		05:40 (21)
	16:38	33	10:48 (29)	17:49	33	09:19 (28)	18:51			20:57	22	07:17 (27)	21:59	18	05:59 (21)	22:34	31	06:11 (21)
23	08:52		10:16 (29)	07:45		08:45 (28)	06:31			06:08		06:56 (27)	05:02		05:40 (21)	04:38		05:40 (21)
	16:40	32	10:48 (29)	17:51	34	09:19 (28)	18:53			20:59	20	07:16 (27)	22:01	20	06:00 (21)	22:34	31	06:11 (21)
24	08:50		10:16 (29)	07:43		08:45 (28)	06:28			06:05		06:56 (27)	05:01		05:39 (21)	04:39		05:41 (21)
	16:43	32	10:48 (29)	17:53	33	09:18 (28)	18:55			21:01	18	07:14 (27)	22:02	22	06:01 (21)	22:34	30	06:11 (21)
25	08:49		10:17 (29)	07:40		08:46 (28)	06:25			06:03		06:57 (27)	04:59		05:39 (21)	04:39		05:41 (21)
	16:45	31	10:48 (29)	17:56	32	09:18 (28)	18:57			21:03	16	07:13 (27)	22:04	23	06:02 (21)	22:34	30	06:11 (21)
26	08:47		09:20 (30)	07:38		08:47 (28)	06:23			06:00		06:59 (27)	04:57		05:38 (21)	04:40		05:40 (21)
	16:47	35	10:48 (29)	17:58	30	09:17 (28)	18:59			21:06	13	07:12 (27)	22:06	24	06:02 (21)	22:34	31	06:11 (21)
27	08:45		09:18 (30)	07:35		08:47 (28)	06:20			05:58		07:01 (27)	04:56		05:38 (21)	04:40		05:41 (21)
	16:49	38	10:47 (29)	18:00	28	09:15 (28)	19:01			21:08	7	07:08 (27)	22:08	25	06:03 (21)	22:34	31	06:12 (21)
28	08:43		09:16 (30)	07:33		08:48 (28)	06:17			05:55			04:55		05:38 (21)	04:41		05:42 (21)
	16:51	41	10:47 (29)	18:02	27	09:15 (28)	19:03			21:10			22:09	26	06:04 (21)	22:34	30	06:12 (21)
29	08:42		09:15 (30)				07:14			05:53			04:53		05:38 (21)	04:41		05:41 (21)
	16:54	42	10:46 (29)				20:06			21:12			22:11	27	06:05 (21)	22:33	31	06:12 (21)
30	08:40		09:14 (30)				07:12			05:50			04:52		05:37 (21)	04:42		05:42 (21)
	16:56	43	10:46 (29)				20:08			21:14			22:12	28	06:05 (21)	22:33	30	06:12 (21)
31	08:38		09:13 (30)				07:09						04:50		05:37 (21)			
	16:58	42	10:45 (29)				20:10						22:14	29	06:06 (21)			
Potential sun hours	231			264			366			428			512			534		
Total, worst case		1006			873			61			314			274			912	
Sun reduction		0.27			0.33			0.46			0.55			0.61			0.57	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.60			0.59			0.59			0.64			0.68			0.68	
Total reduction		0.16			0.18			0.25			0.33			0.39			0.36	
Total, real		156			161			16			103			107			331	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BQ - Jansoni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:43		05:42 (21)	05:30			06:34		07:04 (27)	07:36			07:43		08:26 (28)	08:46		09:54 (29)
	22:32	31	06:13 (21)	21:49			20:34	7	07:11 (27)	19:11			16:52	34	09:05 (30)	15:59	31	10:25 (29)
2	04:44		05:42 (21)	05:32			06:36			07:38			07:45		08:43 (30)	08:48		09:55 (29)
	22:32	30	06:12 (21)	21:47			20:31			19:09			16:50	23	09:06 (30)	15:58	30	10:25 (29)
3	04:45		05:42 (21)	05:34			06:38			07:40			07:47		08:42 (30)	08:50		09:55 (29)
	22:31	31	06:13 (21)	21:45			20:28			19:06			16:47	24	09:06 (30)	15:57	31	10:26 (29)
4	04:46		05:42 (21)	05:36			06:40			07:42			07:50		08:41 (30)	08:52		09:56 (29)
	22:31	31	06:13 (21)	21:43			20:25			19:03			16:45	25	09:06 (30)	15:56	30	10:26 (29)
5	04:47		05:43 (21)	05:38			06:42			07:44			07:52		08:42 (30)	08:53		09:57 (29)
	22:30	30	06:13 (21)	21:41			20:23			19:00			16:43	24	09:06 (30)	15:55	29	10:26 (29)
6	04:48		05:43 (21)	05:40			06:44			07:46			07:54		08:41 (30)	08:55		09:58 (29)
	22:29	30	06:13 (21)	21:39			20:20			18:58			16:41	25	09:06 (30)	15:55	28	10:26 (29)
7	04:49		05:43 (21)	05:42			06:46			07:48			07:56		08:42 (30)	08:56		09:59 (29)
	22:28	30	06:13 (21)	21:36			20:17			18:55			16:39	25	09:07 (30)	15:54	28	10:27 (29)
8	04:50		05:43 (21)	05:44			06:48			07:51			07:59		08:42 (30)	08:58		09:59 (29)
	22:27	30	06:13 (21)	21:34			20:15			18:52			16:36	29	10:07 (29)	15:53	27	10:26 (29)
9	04:51		05:43 (21)	05:46			06:50			07:53			08:01		08:43 (30)	08:59		10:00 (29)
	22:26	30	06:13 (21)	21:32			20:12			18:50			16:34	37	10:12 (29)	15:53	27	10:27 (29)
10	04:53		05:45 (21)	05:48			06:53			07:55		09:29 (28)	08:03		08:43 (30)	09:01		10:01 (29)
	22:25	29	06:14 (21)	21:29			20:09			18:47	11	09:40 (28)	16:32	40	10:13 (29)	15:52	25	10:26 (29)
11	04:54		05:45 (21)	05:51			06:55			07:57		09:26 (28)	08:05		08:44 (30)	09:02		10:02 (29)
	22:24	29	06:14 (21)	21:27			20:06			18:44	18	09:44 (28)	16:30	43	10:16 (29)	15:52	25	10:27 (29)
12	04:55		05:45 (21)	05:53			06:57			07:59		09:24 (28)	08:08		08:45 (30)	09:03		10:02 (29)
	22:23	28	06:13 (21)	21:25			20:04			18:42	21	09:45 (28)	16:28	43	10:17 (29)	15:52	25	10:27 (29)
13	04:57		05:45 (21)	05:55			06:59			08:01		09:22 (28)	08:10		08:46 (30)	09:04		10:03 (29)
	22:22	28	06:13 (21)	21:22			20:01			18:39	24	09:46 (28)	16:26	43	10:18 (29)	15:52	24	10:27 (29)
14	04:58		05:46 (21)	05:57			07:01			08:03		09:20 (28)	08:12		08:48 (30)	09:05		10:03 (29)
	22:21	27	06:13 (21)	21:20			19:58			18:36	27	09:47 (28)	16:24	42	10:19 (29)	15:51	24	10:27 (29)
15	05:00		05:46 (21)	05:59			07:03			08:05		09:20 (28)	08:14		08:51 (30)	09:07		10:05 (29)
	22:19	27	06:13 (21)	21:17			19:55			18:34	29	09:49 (28)	16:23	39	10:20 (29)	15:51	23	10:28 (29)
16	05:01		05:47 (21)	06:01		07:07 (27)	07:05			08:08		09:18 (28)	08:16		08:53 (30)	09:08		10:06 (29)
	22:18	26	06:13 (21)	21:15	10	07:17 (27)	19:53			18:31	31	09:49 (28)	16:21	34	10:21 (29)	15:51	22	10:28 (29)
17	05:03		05:47 (21)	06:03		07:05 (27)	07:07			08:10		09:17 (28)	08:18		09:51 (29)	09:08		10:06 (29)
	22:17	25	06:12 (21)	21:13	14	07:19 (27)	19:50			18:29	32	09:49 (28)	16:19	31	10:22 (29)	15:51	22	10:28 (29)
18	05:05		05:47 (21)	06:05		07:03 (27)	07:09			08:12		09:16 (28)	08:21		09:50 (29)	09:09		10:06 (29)
	22:15	24	06:11 (21)	21:10	17	07:20 (27)	19:47			18:26	33	09:49 (28)	16:17	32	10:22 (29)	15:51	22	10:28 (29)
19	05:06		05:49 (21)	06:07		07:02 (27)	07:11			08:14		09:17 (28)	08:23		09:51 (29)	09:10		10:07 (29)
	22:13	22	06:11 (21)	21:07	19	07:21 (27)	19:44			18:24	33	09:50 (28)	16:15	32	10:23 (29)	15:52	21	10:28 (29)
20	05:08		05:50 (21)	06:09		07:01 (27)	07:13			08:16		09:16 (28)	08:25		09:50 (29)	09:11		10:08 (29)
	22:12	21	06:11 (21)	21:05	21	07:22 (27)	19:42			18:21	34	09:50 (28)	16:14	33	10:23 (29)	15:52	21	10:29 (29)
21	05:10		05:51 (21)	06:11		07:00 (27)	07:15			08:19		09:15 (28)	08:27		09:50 (29)	09:11		10:08 (29)
	22:10	19	06:10 (21)	21:02	22	07:22 (27)	19:39			18:18	34	09:49 (28)	16:12	33	10:23 (29)	15:52	21	10:29 (29)
22	05:11		05:52 (21)	06:13		07:00 (27)	07:17			08:21		09:16 (28)	08:29		09:51 (29)	09:12		10:09 (29)
	22:09	17	06:09 (21)	21:00	23	07:23 (27)	19:36			18:16	34	09:50 (28)	16:11	33	10:24 (29)	15:53	21	10:30 (29)
23	05:13		05:53 (21)	06:15		06:59 (27)	07:19			08:23		09:16 (28)	08:31		09:51 (29)	09:12		10:09 (29)
	22:07	14	06:07 (21)	20:57	24	07:23 (27)	19:33			18:13	33	09:49 (28)	16:09	33	10:24 (29)	15:53	21	10:30 (29)
24	05:15		05:56 (21)	06:17		06:59 (27)	07:21			08:25		09:17 (28)	08:33		09:51 (29)	09:13		10:10 (29)
	22:05	9	06:05 (21)	20:55	24	07:23 (27)	19:31			18:11	32	09:49 (28)	16:08	33	10:24 (29)	15:54	21	10:31 (29)
25	05:17			06:20		06:58 (27)	07:23			07:27		08:17 (28)	08:35		09:52 (29)	09:13		10:10 (29)
	22:03			20:52	23	07:21 (27)	19:28			17:08	31	08:48 (28)	16:06	33	10:25 (29)	15:55	21	10:31 (29)
26	05:19			06:22		06:58 (27)	07:25			07:30		08:17 (28)	08:37		09:52 (29)	09:13		10:10 (29)
	22:01			20:49	23	07:21 (27)	19:25			17:06	30	08:47 (28)	16:05	33	10:25 (29)	15:55	22	10:32 (29)
27	05:21			06:24		06:58 (27)	07:27			07:32		08:18 (28)	08:39		09:52 (29)	09:14		10:11 (29)
	21:59			20:47	22	07:20 (27)	19:22			17:04	29	08:47 (28)	16:04	33	10:25 (29)	15:56	22	10:33 (29)
28	05:22			06:26		06:58 (27)	07:30			07:34		08:18 (28)	08:41		09:53 (29)	09:14		10:11 (29)
	21:58			20:44	21	07:19 (27)	19:20			17:01	37	08:59 (30)	16:02	32	10:25 (29)	15:57	22	10:33 (29)
29	05:24			06:28		06:59 (27)	07:32			07:36		08:20 (28)	08:43		09:53 (29)	09:14		10:11 (29)
	21:56			20:42	19	07:18 (27)	19:17			16:59	39	09:02 (30)	16:01	32	10:25 (29)	15:58	23	10:34 (29)
30	05:26			06:30		07:00 (27)	07:34			07:39		08:21 (28)	08:45		09:54 (29)	09:14		10:11 (29)
	21:54			20:39	17	07:17 (27)	19:14			16:56	39	09:03 (30)	16:00	31	10:25 (29)	15:59	23	10:34 (29)
31	05:28			06:32		07:02 (27)				07:41		08:24 (28)				09:14		10:11 (29)
	21:52			20:36	13	07:15 (27)				16:54	37	09:04 (30)				16:00	24	10:35 (29)
Potential sun hours	534			472			385			322			244			212		
Total, worst case		618			312			7			668			984			756	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.68			0.64			0.64			0.59			0.60			0.60	
Total reduction		0.38			0.35			0.30			0.24			0.13			0.13	
Total, real		237			110			2			157			126			97	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BR - Jaunandzmani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48		04:42	21:47 (39)	05:29	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15		22:32	4 21:51 (39)	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47		04:43	21:48 (39)	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:13	21:18	22:16		22:31	2 21:50 (39)	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46		04:44	21:48 (39)	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:16	21:20	22:18		22:31	1 21:49 (39)	21:45	20:28	19:05	16:47	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45		04:45		05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19		22:30		21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44		04:46		05:37	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20		22:29		21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:35	04:43		04:47		05:39	06:44	07:46	07:54	08:54
	16:08	17:11	18:15	20:22	21:26	22:22		22:29		21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42		04:48		05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:28	22:23		22:28		21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41		04:49		05:44	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:31	22:24		22:27		21:33	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	21:44 (39)	04:50		05:46	06:50	07:52	08:00	08:59
	16:12	17:18	18:22	20:28	21:33	22:25	1 21:45 (39)	22:26		21:31	20:11	18:49	16:34	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	21:43 (39)	04:52		05:48	06:52	07:54	08:03	09:00
	16:14	17:20	18:24	20:31	21:35	22:26	2 21:45 (39)	22:25		21:29	20:08	18:46	16:31	15:52
11	09:07	08:14	07:03	06:38	05:24	04:39	21:43 (39)	04:53		05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	3 21:46 (39)	22:24		21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	21:42 (39)	04:54		05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	4 21:46 (39)	22:23		21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	21:42 (39)	04:56		05:54	06:58	08:00	08:09	09:04
	16:20	17:27	18:30	20:37	21:41	22:29	5 21:47 (39)	22:21		21:22	20:00	18:38	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	21:42 (39)	04:57		05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:33	20:39	21:43	22:30	6 21:48 (39)	22:20		21:19	19:57	18:36	16:24	15:51
15	09:03	08:04	06:52	06:28	05:16	04:38	21:42 (39)	04:59		05:58	07:02	08:05	08:14	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	7 21:49 (39)	22:19		21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	21:42 (39)	05:00		06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	8 21:50 (39)	22:17		21:14	19:52	18:31	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	21:42 (39)	05:02		06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	8 21:50 (39)	22:16		21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	21:41 (39)	05:04		06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	9 21:50 (39)	22:14		21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:08	04:37	21:42 (39)	05:05		06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	9 21:51 (39)	22:13		21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	21:42 (39)	05:07		06:08	07:12	08:16	08:24	09:10
	16:33	17:43	18:46	20:52	21:55	22:33	9 21:51 (39)	22:11		21:04	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	21:42 (39)	05:09		06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	9 21:51 (39)	22:10		21:02	19:38	18:18	16:11	15:52
22	08:53	07:47	06:33	06:09	05:03	04:37	21:42 (39)	05:11		06:13	07:16	08:20	08:28	09:11
	16:38	17:48	18:50	20:56	21:58	22:33	9 21:51 (39)	22:08		20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:38	21:42 (39)	05:12		06:15	07:18	08:22	08:31	09:12
	16:40	17:50	18:52	20:59	22:00	22:33	9 21:51 (39)	22:06		20:57	19:33	18:13	16:08	15:53
24	08:50	07:42	06:27	06:04	05:00	04:38	21:43 (39)	05:14		06:17	07:21	08:24	08:33	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	9 21:52 (39)	22:04		20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	21:43 (39)	05:16		06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	8 21:51 (39)	22:03		20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	21:44 (39)	05:18		06:21	07:25	07:29	08:37	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	8 21:52 (39)	22:01		20:49	19:24	17:05	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	21:44 (39)	05:20		06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:01	21:07	22:07	22:33	7 21:51 (39)	21:59		20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	21:45 (39)	05:22		06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	7 21:52 (39)	21:57		20:44	19:19	17:00	16:02	15:56
29	08:41		07:14	05:52	04:52	04:40	21:45 (39)	05:24		06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	6 21:51 (39)	21:55		20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	21:46 (39)	05:26		06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:14	22:12	22:32	5 21:51 (39)	21:53		20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50			05:27		06:31		07:40		09:13
	16:57		20:09		22:13			21:51		20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534		534		472	385	322	244	211
Total, worst case						148		7						
Sun reduction						0.57		0.60						
Oper. time red.						0.94		0.94						
Wind dir. red.						0.58		0.58						
Total reduction						0.31		0.33						
Total, real						46		2						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BS - Jaunandzmani A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48		04:42	21:44 (39)	05:29	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15		22:32	7 21:51 (39)	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47		04:43	21:45 (39)	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:13	21:18	22:16		22:31	5 21:50 (39)	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46		04:44	21:45 (39)	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:16	21:20	22:18		22:31	4 21:49 (39)	21:45	20:27	19:05	16:47	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45		04:45	21:46 (39)	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19		22:30	3 21:49 (39)	21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44		04:46	21:47 (39)	05:37	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20		22:29	1 21:48 (39)	21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:35	04:43		04:47		05:39	06:44	07:46	07:54	08:54
	16:08	17:11	18:15	20:22	21:26	22:22		22:29		21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42		04:48		05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:28	22:23		22:28		21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41	21:41 (39)	04:49		05:44	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:31	22:24	2 21:43 (39)	22:27		21:33	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	21:41 (39)	04:50		05:46	06:50	07:52	08:00	08:59
	16:12	17:18	18:22	20:28	21:33	22:25	4 21:45 (39)	22:26		21:31	20:11	18:49	16:34	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	21:40 (39)	04:52		05:48	06:52	07:54	08:03	09:00
	16:14	17:20	18:24	20:31	21:35	22:26	5 21:45 (39)	22:25		21:29	20:08	18:46	16:31	15:52
11	09:07	08:14	07:03	06:38	05:24	04:39	21:40 (39)	04:53		05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	6 21:46 (39)	22:24		21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	21:39 (39)	04:54		05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	7 21:46 (39)	22:23		21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	21:39 (39)	04:56		05:54	06:58	08:00	08:09	09:04
	16:20	17:27	18:30	20:37	21:41	22:29	8 21:47 (39)	22:21		21:22	20:00	18:38	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	21:40 (39)	04:57		05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:33	20:39	21:43	22:30	8 21:48 (39)	22:20		21:19	19:57	18:36	16:24	15:51
15	09:03	08:04	06:52	06:28	05:16	04:38	21:40 (39)	04:59		05:58	07:02	08:05	08:14	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	9 21:49 (39)	22:19		21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	21:40 (39)	05:00		06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	10 21:50 (39)	22:17		21:14	19:52	18:31	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	21:40 (39)	05:02		06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	10 21:50 (39)	22:16		21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	21:39 (39)	05:04		06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	11 21:50 (39)	22:14		21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:08	04:37	21:40 (39)	05:05		06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	11 21:51 (39)	22:13		21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	21:40 (39)	05:07		06:08	07:12	08:16	08:24	09:10
	16:33	17:43	18:46	20:52	21:55	22:33	11 21:51 (39)	22:11		21:04	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	21:40 (39)	05:09		06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	11 21:51 (39)	22:10		21:02	19:38	18:18	16:11	15:52
22	08:53	07:47	06:33	06:09	05:03	04:37	21:40 (39)	05:11		06:13	07:16	08:20	08:28	09:11
	16:38	17:48	18:50	20:56	21:58	22:33	11 21:51 (39)	22:08		20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:38	21:40 (39)	05:12		06:15	07:18	08:22	08:31	09:12
	16:40	17:50	18:52	20:59	22:00	22:33	11 21:51 (39)	22:06		20:57	19:33	18:13	16:08	15:53
24	08:50	07:42	06:27	06:04	05:00	04:38	21:41 (39)	05:14		06:17	07:21	08:24	08:33	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	11 21:52 (39)	22:04		20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	21:41 (39)	05:16		06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	10 21:51 (39)	22:03		20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	21:42 (39)	05:18		06:21	07:25	07:29	08:37	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	10 21:52 (39)	22:01		20:49	19:24	17:05	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	21:42 (39)	05:20		06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:01	21:07	22:07	22:33	9 21:51 (39)	21:59		20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	21:43 (39)	05:22		06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	9 21:52 (39)	21:57		20:44	19:19	17:00	16:02	15:56
29	08:41		07:14	05:52	04:52	04:40	21:42 (39)	05:24		06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	9 21:51 (39)	21:55		20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	21:43 (39)	05:26		06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:14	22:12	22:32	8 21:51 (39)	21:53		20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50			05:27		06:31		07:40		09:13
	16:57		20:09		22:13			21:51		20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534		534		472	385	322	244	211
Total, worst case						201		20						
Sun reduction						0.57		0.60						
Oper. time red.						0.94		0.94						
Wind dir. red.						0.58		0.58						
Total reduction						0.31		0.33						
Total, real						62		7						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BT - Jaunaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June		
1	09:14		10:33 (21)	08:36		09:33 (20)	07:30		09:33 (16)	07:06			05:48		06:19 (14)	04:49		06:16 (15)
	16:02	24	10:57 (21)	17:00	31	10:04 (20)	18:05	34	10:07 (16)	20:12			21:16	21	06:40 (14)	22:16	46	07:02 (15)
2	09:13		10:34 (21)	08:34		09:33 (20)	07:27		08:02 (17)	07:03			05:45		06:18 (14)	04:48		06:16 (15)
	16:03	23	10:57 (21)	17:03	32	10:05 (20)	18:07	38	10:05 (16)	20:14			21:19	23	06:41 (14)	22:17	46	07:02 (15)
3	09:13		10:35 (21)	08:32		09:34 (20)	07:25		07:58 (17)	07:01			05:43		06:18 (14)	04:47		06:17 (15)
	16:04	23	10:58 (21)	17:05	33	10:07 (16)	18:09	42	10:02 (16)	20:16			21:21	24	06:42 (14)	22:19	46	07:03 (15)
4	09:13		10:35 (21)	08:30		09:34 (20)	07:22		07:56 (17)	06:58			05:41		06:17 (14)	04:46		06:17 (15)
	16:05	23	10:58 (21)	17:07	35	10:09 (16)	18:11	40	10:00 (16)	20:18			21:23	30	06:47 (15)	22:20	46	07:03 (15)
5	09:12		10:36 (21)	08:28		09:33 (16)	07:19		07:54 (17)	06:55			05:38		06:17 (14)	04:45		06:17 (15)
	16:07	22	10:58 (21)	17:10	36	10:09 (16)	18:13	35	09:55 (16)	20:21			21:25	33	06:50 (15)	22:21	45	07:02 (15)
6	09:11		10:36 (21)	08:26		09:32 (16)	07:17		07:52 (17)	06:52			05:36		06:16 (14)	04:44		06:17 (15)
	16:08	22	10:58 (21)	17:12	39	10:11 (16)	18:16	25	08:17 (17)	20:23			21:27	35	06:51 (15)	22:22	45	07:02 (15)
7	09:11		10:37 (21)	08:23		09:32 (16)	07:14		07:51 (17)	06:50			05:34		06:16 (14)	04:43		06:18 (15)
	16:10	21	10:58 (21)	17:14	40	10:12 (16)	18:18	27	08:18 (17)	20:25			21:29	36	06:52 (15)	22:24	45	07:03 (15)
8	09:10		10:38 (21)	08:21		09:30 (16)	07:11		07:50 (17)	06:47			05:32		06:16 (14)	04:42		06:18 (15)
	16:11	20	10:58 (21)	17:16	43	10:13 (16)	18:20	29	08:19 (17)	20:27			21:31	38	06:54 (15)	22:25	44	07:02 (15)
9	09:09		10:39 (21)	08:19		09:30 (16)	07:09		07:49 (17)	06:44			05:29		06:16 (14)	04:41		06:18 (15)
	16:13	19	10:58 (21)	17:19	44	10:14 (16)	18:22	30	08:19 (17)	20:29			21:33	39	06:55 (15)	22:26	44	07:02 (15)
10	09:09		10:40 (21)	08:17		09:29 (16)	07:06		07:49 (17)	06:42			05:27		06:16 (14)	04:41		06:19 (15)
	16:15	18	10:58 (21)	17:21	45	10:14 (16)	18:24	30	08:19 (17)	20:31			21:35	40	06:56 (15)	22:27	44	07:03 (15)
11	09:08		10:41 (21)	08:14		09:29 (16)	07:03		07:48 (17)	06:39			05:25		06:17 (14)	04:40		06:18 (15)
	16:17	17	10:58 (21)	17:23	46	10:15 (16)	18:27	30	08:18 (17)	20:33			21:37	39	06:56 (15)	22:28	44	07:02 (15)
12	09:07		10:41 (21)	08:12		09:28 (16)	07:01		07:48 (17)	06:36			05:23		06:18 (14)	04:39		06:19 (15)
	16:18	16	10:57 (21)	17:26	47	10:15 (16)	18:29	31	08:19 (17)	20:36			21:39	40	06:58 (15)	22:29	44	07:03 (15)
13	09:06		10:43 (21)	08:10		09:28 (16)	06:58		07:48 (17)	06:34			05:21		06:18 (15)	04:39		06:20 (15)
	16:20	14	10:57 (21)	17:28	48	10:16 (16)	18:31	30	08:18 (17)	20:38			21:42	41	06:59 (15)	22:30	43	07:03 (15)
14	09:05		10:45 (21)	08:07		09:27 (16)	06:55		07:48 (17)	06:31			05:19		06:17 (15)	04:39		06:20 (15)
	16:22	11	10:56 (21)	17:30	49	10:16 (16)	18:33	29	08:17 (17)	20:40			21:44	42	06:59 (15)	22:30	43	07:03 (15)
15	09:03		10:47 (21)	08:05		09:27 (16)	06:53		07:48 (17)	06:28			05:17		06:16 (15)	04:38		06:20 (15)
	16:24	7	10:54 (21)	17:33	50	10:17 (16)	18:35	28	08:16 (17)	20:42			21:46	43	06:59 (15)	22:31	43	07:03 (15)
16	09:02			08:03		09:27 (16)	06:50		07:49 (17)	06:26			05:15		06:16 (15)	04:38		06:20 (15)
	16:26			17:35	49	10:16 (16)	18:38	27	08:16 (17)	20:44			21:48	43	06:59 (15)	22:32	43	07:03 (15)
17	09:01			08:00		09:27 (16)	06:47		07:50 (17)	06:23			05:13		06:16 (15)	04:38		06:21 (15)
	16:28			17:37	50	10:17 (16)	18:40	24	08:14 (17)	20:46			21:50	44	07:00 (15)	22:32	42	07:03 (15)
18	09:00			07:58		09:27 (16)	06:44		07:50 (17)	06:20			05:11		06:16 (15)	04:38		06:21 (15)
	16:30			17:40	50	10:17 (16)	18:42	22	08:12 (17)	20:48			21:51	44	07:00 (15)	22:33	42	07:03 (15)
19	08:58		09:44 (20)	07:55		09:26 (16)	06:42		07:52 (17)	06:18			05:09		06:15 (15)	04:38		06:21 (15)
	16:32	5	09:49 (20)	17:42	50	10:16 (16)	18:44	18	08:10 (17)	20:51			21:53	45	07:00 (15)	22:33	42	07:03 (15)
20	08:57		09:40 (20)	07:53		09:27 (16)	06:39		07:54 (17)	06:15			05:07		06:15 (15)	04:38		06:21 (15)
	16:34	12	09:52 (20)	17:44	49	10:16 (16)	18:46	14	08:08 (17)	20:53			21:55	46	07:01 (15)	22:33	42	07:03 (15)
21	08:55		09:39 (20)	07:50		09:27 (16)	06:36		08:00 (17)	06:13			05:06		06:15 (15)	04:38		06:21 (15)
	16:36	15	09:54 (20)	17:46	49	10:16 (16)	18:48	2	08:02 (17)	20:55			21:57	46	07:01 (15)	22:34	42	07:03 (15)
22	08:54		09:37 (20)	07:48		09:28 (16)	06:33			06:10			05:04		06:15 (15)	04:38		06:22 (15)
	16:38	19	09:56 (20)	17:49	48	10:16 (16)	18:51			20:57			21:59	47	07:02 (15)	22:34	42	07:04 (15)
23	08:52		09:36 (20)	07:45		09:28 (16)	06:31			06:08			05:02		06:15 (15)	04:38		06:22 (15)
	16:40	21	09:57 (20)	17:51	47	10:15 (16)	18:53			20:59			22:01	46	07:01 (15)	22:34	42	07:04 (15)
24	08:50		09:35 (20)	07:43		09:28 (16)	06:28			06:05			05:00		06:15 (15)	04:39		06:22 (15)
	16:42	24	09:59 (20)	17:53	46	10:14 (16)	18:55			21:01			22:03	47	07:02 (15)	22:34	42	07:04 (15)
25	08:49		09:35 (20)	07:40		09:29 (16)	06:25			06:03			04:59		06:15 (15)	04:39		06:23 (15)
	16:45	25	10:00 (20)	17:56	44	10:13 (16)	18:57			21:04			22:04	47	07:02 (15)	22:34	42	07:05 (15)
26	08:47		09:34 (20)	07:38		09:29 (16)	06:22			06:00			04:57		06:15 (15)	04:39		06:22 (15)
	16:47	27	10:01 (20)	17:58	43	10:12 (16)	18:59			21:06			22:06	47	07:02 (15)	22:34	43	07:05 (15)
27	08:45		09:34 (20)	07:35		09:30 (16)	06:20			05:58		06:26 (14)	04:56		06:15 (15)	04:40		06:23 (15)
	16:49	28	10:02 (20)	18:00	40	10:10 (16)	19:01			21:08	8	06:34 (14)	22:08	47	07:02 (15)	22:34	43	07:06 (15)
28	08:43		09:34 (20)	07:33		09:32 (16)	06:17			05:55		06:23 (14)	04:54		06:15 (15)	04:40		06:23 (15)
	16:51	28	10:02 (20)	18:02	37	10:09 (16)	19:03			21:10	14	06:37 (14)	22:09	47	07:02 (15)	22:34	42	07:05 (15)
29	08:42		09:34 (20)				07:14			05:53		06:22 (14)	04:53		06:16 (15)	04:41		06:23 (15)
	16:54	29	10:03 (20)				20:06			21:12	17	06:39 (14)	22:11	47	07:03 (15)	22:33	43	07:06 (15)
30	08:40		09:34 (20)				07:12			05:50		06:20 (14)	04:52		06:15 (15)	04:42		06:23 (15)
	16:56	30	10:04 (20)				20:08			21:14	19	06:39 (14)	22:13	47	07:02 (15)	22:33	44	07:07 (15)
31	08:38		09:34 (20)				07:09						04:50		06:15 (15)			
	16:58	31	10:05 (20)				20:10						22:14	47	07:02 (15)			
Potential sun hours	231			264			366			428			512			534		
Total, worst case		574			1220			585			58			1261			1304	
Sun reduction		0.27			0.33			0.46			0.55			0.61			0.57	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.59			0.57			0.59			0.66			0.66			0.66	
Total reduction		0.15			0.18			0.25			0.34			0.38			0.36	
Total, real		88			216			148			20			482			463	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BT - Jaunaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September		October		November		December	
1	04:43		06:23 (15)	05:30		06:28 (14)	06:34		07:36		08:28 (17)	07:43		08:59 (16)	08:47		10:23 (21)
	22:33	43	07:06 (15)	21:50	40	07:08 (15)	20:34		19:11	30	08:58 (17)	16:52	45	09:44 (16)	15:59	17	10:40 (21)
2	04:43		06:23 (15)	05:32		06:28 (14)	06:36		07:38		08:27 (17)	07:45		09:00 (16)	08:48		10:23 (21)
	22:32	44	07:07 (15)	21:47	39	07:07 (15)	20:31		19:09	30	08:57 (17)	16:49	44	09:44 (16)	15:58	18	10:41 (21)
3	04:44		06:23 (15)	05:34		06:27 (14)	06:38		07:40		08:27 (17)	07:48		09:00 (16)	08:50		10:23 (21)
	22:31	44	07:07 (15)	21:45	39	07:06 (15)	20:28		19:06	30	08:57 (17)	16:47	42	09:42 (16)	15:57	19	10:42 (21)
4	04:45		06:23 (15)	05:36		06:27 (14)	06:40		07:42		08:26 (17)	07:50		09:01 (16)	08:52		10:22 (21)
	22:31	45	07:08 (15)	21:43	38	07:05 (15)	20:25		19:03	30	08:56 (17)	16:45	41	09:42 (16)	15:56	20	10:42 (21)
5	04:46		06:24 (15)	05:38		06:26 (14)	06:42		07:44		08:26 (17)	07:52		09:02 (16)	08:53		10:22 (21)
	22:30	44	07:08 (15)	21:41	38	07:04 (15)	20:23		19:00	29	08:55 (17)	16:43	39	09:41 (16)	15:55	21	10:43 (21)
6	04:47		06:24 (15)	05:40		06:26 (14)	06:44		07:46		08:27 (17)	07:54		09:04 (16)	08:55		10:22 (21)
	22:29	44	07:08 (15)	21:39	36	07:02 (15)	20:20		18:58	28	08:55 (17)	16:41	36	09:40 (16)	15:54	22	10:44 (21)
7	04:49		06:24 (15)	05:42		06:27 (14)	06:46		07:48		08:28 (17)	07:57		09:04 (20)	08:57		10:23 (21)
	22:28	45	07:09 (15)	21:36	34	07:01 (15)	20:17		18:55	26	08:54 (17)	16:38	34	09:38 (16)	15:54	22	10:45 (21)
8	04:50		06:24 (15)	05:44		06:27 (14)	06:48		07:50		08:28 (17)	07:59		09:04 (20)	08:58		10:22 (21)
	22:28	45	07:09 (15)	21:34	31	06:58 (15)	20:15		18:52	24	08:52 (17)	16:36	33	09:37 (16)	15:53	23	10:45 (21)
9	04:51		06:23 (15)	05:46		06:27 (14)	06:50		07:53		08:29 (17)	08:01		09:04 (20)	08:59		10:23 (21)
	22:27	46	07:09 (15)	21:32	28	06:55 (15)	20:12		18:50	39	10:32 (16)	16:34	31	09:35 (20)	15:53	23	10:46 (21)
10	04:52		06:23 (15)	05:48		06:26 (14)	06:52		07:55		08:31 (17)	08:03		09:05 (20)	09:01		10:23 (21)
	22:26	46	07:09 (15)	21:30	24	06:50 (14)	20:09		18:47	41	10:35 (16)	16:32	31	09:36 (20)	15:52	23	10:46 (21)
11	04:54		06:24 (15)	05:50		06:27 (14)	06:54		07:57		08:34 (17)	08:05		09:05 (20)	09:02		10:24 (21)
	22:24	46	07:10 (15)	21:27	22	06:49 (14)	20:06		18:44	41	10:38 (16)	16:30	30	09:35 (20)	15:52	23	10:47 (21)
12	04:55		06:24 (15)	05:52		06:28 (14)	06:57		07:59		10:07 (16)	08:08		09:05 (20)	09:03		10:24 (21)
	22:23	46	07:10 (15)	21:25	21	06:49 (14)	20:04		18:42	33	10:40 (16)	16:28	31	09:36 (20)	15:52	24	10:48 (21)
13	04:57		06:24 (15)	05:55		06:29 (14)	06:59		08:01		10:05 (16)	08:10		09:05 (20)	09:04		10:25 (21)
	22:22	46	07:10 (15)	21:22	18	06:47 (14)	20:01		18:39	36	10:41 (16)	16:26	30	09:35 (20)	15:51	24	10:49 (21)
14	04:58		06:24 (15)	05:57		06:30 (14)	07:01		08:03		10:03 (16)	08:12		09:06 (20)	09:06		10:25 (21)
	22:21	47	07:11 (15)	21:20	16	06:46 (14)	19:58		18:36	39	10:42 (16)	16:24	28	09:34 (20)	15:51	24	10:49 (21)
15	05:00		06:24 (15)	05:59		06:31 (14)	07:03		08:05		10:03 (16)	08:14		09:07 (20)	09:07		10:25 (21)
	22:19	47	07:11 (15)	21:18	13	06:44 (14)	19:55		18:34	41	10:44 (16)	16:22	28	09:35 (20)	15:51	25	10:50 (21)
16	05:01		06:24 (15)	06:01		06:34 (14)	07:05		08:08		10:01 (16)	08:16		09:07 (20)	09:08		10:26 (21)
	22:18	47	07:11 (15)	21:15	7	06:41 (14)	19:53		18:31	43	10:44 (16)	16:21	27	09:34 (20)	15:51	24	10:50 (21)
17	05:03		06:24 (15)	06:03			07:07		08:10		10:00 (16)	08:19		09:09 (20)	09:09		10:26 (21)
	22:17	47	07:11 (15)	21:13			19:50		18:29	45	10:45 (16)	16:19	25	09:34 (20)	15:51	25	10:51 (21)
18	05:04		06:24 (15)	06:05			07:09		08:12		10:00 (16)	08:21		09:09 (20)	09:09		10:27 (21)
	22:15	47	07:11 (15)	21:10			19:47		18:26	46	10:46 (16)	16:17	24	09:33 (20)	15:51	24	10:51 (21)
19	05:06		06:25 (15)	06:07			07:11		08:14		09:59 (16)	08:23		09:11 (20)	09:10		10:26 (21)
	22:14	47	07:12 (15)	21:08			19:44		18:23	47	10:46 (16)	16:15	21	09:32 (20)	15:51	25	10:51 (21)
20	05:08		06:24 (15)	06:09			07:13		08:16		09:58 (16)	08:25		09:12 (20)	09:11		10:27 (21)
	22:12	47	07:11 (15)	21:05			19:42		18:21	48	10:46 (16)	16:14	19	09:31 (20)	15:52	25	10:52 (21)
21	05:09		06:25 (15)	06:11			07:15		08:19		09:58 (16)	08:27		09:14 (20)	09:12		10:28 (21)
	22:10	47	07:12 (15)	21:02			19:39		18:18	49	10:47 (16)	16:12	15	09:29 (20)	15:52	25	10:53 (21)
22	05:11		06:25 (15)	06:13			07:17		08:21		09:57 (16)	08:29		09:16 (20)	09:12		10:28 (21)
	22:09	47	07:12 (15)	21:00			19:36		18:16	50	10:47 (16)	16:10	12	09:28 (20)	15:53	25	10:53 (21)
23	05:13		06:25 (15)	06:15			07:19	08:39 (17)	08:23		09:57 (16)	08:31		09:19 (20)	09:13		10:29 (21)
	22:07	46	07:11 (15)	20:57			19:33	12	08:51 (17)	18:13	49	10:46 (16)	16:09	6	09:25 (20)	15:53	25	10:54 (21)
24	05:15		06:26 (15)	06:17			07:21		08:36 (17)	08:25		09:57 (16)	08:33			09:13		10:29 (21)
	22:05	45	07:11 (15)	20:55			19:31	17	08:53 (17)	18:11	50	10:47 (16)	16:07			15:54	25	10:54 (21)
25	05:17		06:25 (15)	06:19			07:23		08:34 (17)	07:27		08:57 (16)	08:35			09:13		10:29 (21)
	22:03	46	07:11 (15)	20:52			19:28	21	08:55 (17)	17:08	49	09:46 (16)	16:06			15:54	25	10:54 (21)
26	05:19		06:26 (15)	06:21			07:25		08:32 (17)	07:30		08:56 (16)	08:37			09:14		10:30 (21)
	22:02	45	07:11 (15)	20:50			19:25	24	08:56 (17)	17:06	50	09:46 (16)	16:05			15:55	24	10:54 (21)
27	05:20		06:27 (15)	06:24			07:27		08:30 (17)	07:32		08:57 (16)	08:39		10:26 (21)	09:14		10:30 (21)
	22:00	44	07:11 (15)	20:47			19:22	26	08:56 (17)	17:04	49	09:46 (16)	16:03	7	10:33 (21)	15:56	25	10:55 (21)
28	05:22		06:27 (15)	06:26			07:29		08:29 (17)	07:34		08:57 (16)	08:41		10:25 (21)	09:14		10:31 (21)
	21:58	43	07:10 (15)	20:44			19:20	28	08:57 (17)	17:01	48	09:45 (16)	16:02	10	10:35 (21)	15:57	24	10:55 (21)
29	05:24		06:27 (15)	06:28			07:32		08:29 (17)	07:36		08:57 (16)	08:43		10:23 (21)	09:14		10:32 (21)
	21:56	42	07:09 (15)	20:42			19:17	29	08:58 (17)	16:59	49	09:46 (16)	16:01	14	10:37 (21)	15:58	24	10:56 (21)
30	05:26		06:28 (15)	06:30			07:34		08:28 (17)	07:39		08:57 (16)	08:45		10:24 (21)	09:14		10:32 (21)
	21:54	41	07:09 (15)	20:39			19:14	30	08:58 (17)	16:56	48	09:45 (16)	16:00	15	10:39 (21)	15:59	25	10:57 (21)
31	05:28		06:28 (15)	06:32						07:41		08:58 (16)				09:14		10:32 (21)
	21:52	41	07:09 (15)	20:36						16:54	47	09:45 (16)				16:00	24	10:56 (21)
Potential sun hours	534			472			385			322			244			211		
Total, worst case		1400			444			187			1264			718			722	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.66			0.66			0.60			0.57			0.57			0.61	
Total reduction		0.37			0.36			0.28			0.23			0.12			0.13	
Total, real		525			162			52			288			89			94	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BU - Jaunaraji A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:13	21:18	22:16	22:31	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:15	21:20	22:18	22:31	21:45	20:27	19:05	16:46	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:06	18:10	20:18	21:22	22:19	22:30	21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20	22:29	21:40	20:22	19:00	16:42	15:54
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:43	07:45	07:53	08:54
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56
	16:09	17:13	18:17	20:24	21:28	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:30	22:24	22:27	21:33	20:14	18:52	16:36	15:52
9	09:09	08:18	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:00	08:59
	16:12	17:18	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:02	09:00
	16:14	17:20	18:24	20:30	21:35	22:26	22:25	21:29	20:08	18:46	16:31	15:52
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	22:22	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00	08:09	09:04
	16:19	17:27	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38	16:25	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:32	20:39	21:43	22:29	22:20	21:19	19:57	18:36	16:24	15:50
15	09:03	08:04	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:13	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:30	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	22:16	21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:14	21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24	09:10
	16:33	17:43	18:45	20:52	21:54	22:33	22:11	21:04	19:41	18:20	16:13	15:51
21	08:54	07:50	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	22:10	21:02	19:38	18:18	16:11	15:51
22	08:53	07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:28	09:11
	16:37	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:18	08:22	08:30	09:12
	16:40	17:50	18:52	20:58	22:00	22:33	22:06	20:57	19:33	18:13	16:08	15:52
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:20	08:24	08:32	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	22:04	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:24	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:34	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	22:03	20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:36	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05	16:04	15:54
27	08:45	07:34	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:00	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:43	19:19	17:00	16:01	15:56
29	08:41		07:13	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:13	22:12	22:32	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50		05:27	06:31		07:40		09:13
	16:57		20:09		22:13		21:51	20:35		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BV - Jaunbirznieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:14		10:12 (42)	08:36		09:43 (2)	07:30	07:06	05:48	04:49
	16:01	27	10:39 (42)	17:00	28	10:11 (2)	18:04	20:12	21:17	22:16
2	09:14		10:12 (42)	08:34		09:43 (2)	07:27	07:03	05:45	04:48
	16:02	27	10:39 (42)	17:02	27	10:10 (2)	18:07	20:14	21:19	22:17
3	09:13		10:13 (42)	08:32		09:44 (2)	07:25	07:01	05:43	04:46
	16:04	27	10:40 (42)	17:05	25	10:09 (2)	18:09	20:16	21:21	22:19
4	09:13		10:13 (42)	08:30		09:45 (2)	07:22	06:58	05:41	04:45
	16:05	28	10:41 (42)	17:07	24	10:09 (2)	18:11	20:18	21:23	22:20
5	09:12		10:13 (42)	08:28		09:46 (2)	07:20	06:55	05:38	04:44
	16:07	28	10:41 (42)	17:09	22	10:08 (2)	18:13	20:21	21:25	22:21
6	09:12		10:13 (42)	08:26		08:59 (43)	07:17	06:52	05:36	04:43
	16:08	29	10:42 (42)	17:12	28	10:07 (2)	18:16	20:23	21:27	22:23
7	09:11		10:13 (42)	08:23		08:57 (43)	07:14	06:50	05:34	04:43
	16:10	29	10:42 (42)	17:14	29	10:05 (2)	18:18	20:25	21:29	22:24
8	09:10		10:14 (42)	08:21		08:54 (43)	07:12	06:47	05:31	04:42
	16:11	29	10:43 (42)	17:16	29	10:02 (2)	18:20	20:27	21:31	22:25
9	09:10		10:14 (42)	08:19		08:53 (43)	07:09	06:44	05:29	04:41
	16:13	29	10:43 (42)	17:19	21	09:14 (43)	18:22	20:29	21:33	22:26
10	09:09		10:14 (42)	08:17		08:52 (43)	07:06	06:42	05:27	04:40
	16:15	30	10:44 (42)	17:21	23	09:15 (43)	18:24	20:31	21:36	22:27
11	09:08		10:15 (42)	08:15		08:51 (43)	07:03	06:39	05:25	04:40
	16:16	30	10:45 (42)	17:23	25	09:16 (43)	18:27	20:33	21:38	22:28
12	09:07		09:50 (2)	08:12		08:50 (43)	07:01	06:36	05:23	04:39
	16:18	32	10:45 (42)	17:26	27	09:17 (43)	18:29	20:36	21:40	22:29
13	09:06		09:46 (2)	08:10		08:50 (43)	06:58	06:34	05:21	04:39
	16:20	39	10:45 (42)	17:28	28	09:18 (43)	18:31	20:38	21:42	22:30
14	09:05		09:45 (2)	08:08		08:49 (43)	06:55	06:31	05:19	04:38
	16:22	43	10:46 (42)	17:30	29	09:18 (43)	18:33	20:40	21:44	22:31
15	09:04		09:44 (2)	08:05		08:50 (43)	06:53	06:28	05:17	04:38
	16:24	46	10:46 (42)	17:33	28	09:18 (43)	18:35	20:42	21:46	22:31
16	09:02		09:44 (2)	08:03		08:49 (43)	06:50	06:26	05:15	04:38
	16:26	47	10:46 (42)	17:35	29	09:18 (43)	18:38	20:44	21:48	22:32
17	09:01		09:43 (2)	08:00		08:50 (43)	06:47	06:23	05:13	04:38
	16:28	49	10:46 (42)	17:37	29	09:19 (43)	18:40	20:46	21:50	22:32
18	09:00		09:42 (2)	07:58		08:49 (43)	06:44	06:20	05:11	04:37
	16:30	49	10:46 (42)	17:39	29	09:18 (43)	18:42	20:49	21:52	22:33
19	08:58		09:42 (2)	07:55		08:50 (43)	06:42	06:18	05:09	04:37
	16:32	51	10:47 (42)	17:42	28	09:18 (43)	18:44	20:51	21:54	22:33
20	08:57		09:42 (2)	07:53		08:50 (43)	06:39	06:15	05:07	04:37
	16:34	50	10:46 (42)	17:44	27	09:17 (43)	18:46	20:53	21:55	22:34
21	08:55		09:41 (2)	07:51		08:51 (43)	06:36	06:13	05:05	04:37
	16:36	52	10:46 (42)	17:46	25	09:16 (43)	18:48	20:55	21:57	22:34
22	08:54		09:41 (2)	07:48		08:52 (43)	06:33	06:10	05:04	04:38
	16:38	50	10:45 (42)	17:49	23	09:15 (43)	18:51	20:57	21:59	22:34
23	08:52		09:41 (2)	07:45		08:53 (43)	06:31	06:07	05:02	04:38
	16:40	50	10:45 (42)	17:51	21	09:14 (43)	18:53	20:59	22:01	22:34
24	08:51		09:40 (2)	07:43		08:54 (43)	06:28	06:05	05:00	04:38
	16:42	49	10:44 (42)	17:53	17	09:11 (43)	18:55	21:01	22:03	22:34
25	08:49		09:41 (2)	07:40		08:57 (43)	06:25	06:02	04:59	04:39
	16:44	48	10:44 (42)	17:55	12	09:09 (43)	18:57	21:04	22:05	22:34
26	08:47		09:40 (2)	07:38			06:22	06:00	04:57	04:39
	16:47	45	10:42 (42)	17:58			18:59	21:06	22:06	22:34
27	08:45		09:41 (2)	07:35			06:20	05:57	04:56	04:40
	16:49	41	10:40 (42)	18:00			19:01	21:08	22:08	22:34
28	08:44		09:41 (2)	07:33			06:17	05:55	04:54	04:40
	16:51	34	10:37 (42)	18:02			19:03	21:10	22:10	22:34
29	08:42		09:41 (2)				07:14	05:52	04:53	04:41
	16:53	29	10:10 (2)				20:06	21:12	22:11	22:34
30	08:40		09:42 (2)				07:11	05:50	04:51	04:42
	16:56	29	10:11 (2)				20:08	21:14	22:13	22:33
31	08:38		09:43 (2)				07:09		04:50	
	16:58	28	10:11 (2)				20:10		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1174			633					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.60			0.59					
Total reduction		0.15			0.18					
Total, real		181			117					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BV - Jaunbirznieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:30	06:34	07:36			07:43		08:21 (43)	08:47		09:57 (42)
	22:33	21:50	20:34	19:11			16:52	23	08:44 (43)	15:59	30	10:27 (42)
2	04:43	05:32	06:36	07:38			07:45		08:23 (43)	08:49		09:58 (42)
	22:32	21:48	20:31	19:09			16:49	21	08:44 (43)	15:58	29	10:27 (42)
3	04:44	05:34	06:38	07:40			07:48		08:24 (43)	08:50		09:58 (42)
	22:32	21:45	20:28	19:06			16:47	29	09:32 (2)	15:57	29	10:27 (42)
4	04:45	05:36	06:40	07:42			07:50		08:27 (43)	08:52		09:59 (42)
	22:31	21:43	20:26	19:03			16:45	30	09:35 (2)	15:56	29	10:28 (42)
5	04:46	05:38	06:42	07:44			07:52		08:29 (43)	08:54		09:59 (42)
	22:30	21:41	20:23	19:00			16:43	27	09:36 (2)	15:55	29	10:28 (42)
6	04:47	05:40	06:44	07:46			07:54		09:16 (2)	08:55		09:59 (42)
	22:30	21:39	20:20	18:58			16:40	22	09:38 (2)	15:54	29	10:28 (42)
7	04:48	05:42	06:46	07:48			07:57		09:15 (2)	08:57		10:00 (42)
	22:29	21:37	20:17	18:55			16:38	24	09:39 (2)	15:54	28	10:28 (42)
8	04:50	05:44	06:48	07:51			07:59		09:15 (2)	08:58		10:01 (42)
	22:28	21:34	20:15	18:52			16:36	25	09:40 (2)	15:53	28	10:29 (42)
9	04:51	05:46	06:50	07:53			08:01		09:14 (2)	09:00		10:01 (42)
	22:27	21:32	20:12	18:50			16:34	27	09:41 (2)	15:52	28	10:29 (42)
10	04:52	05:48	06:52	07:55			08:03		09:14 (2)	09:01		10:02 (42)
	22:26	21:30	20:09	18:47			16:32	28	09:42 (2)	15:52	27	10:29 (42)
11	04:53	05:50	06:54	07:57			08:06		09:13 (2)	09:02		10:02 (42)
	22:25	21:27	20:06	18:44			16:30	29	09:42 (2)	15:52	27	10:29 (42)
12	04:55	05:52	06:56	07:59			08:08		09:14 (2)	09:04		10:03 (42)
	22:24	21:25	20:04	18:42			16:28	28	09:42 (2)	15:51	27	10:30 (42)
13	04:56	05:54	06:59	08:01			08:10		09:13 (2)	09:05		10:04 (42)
	22:22	21:22	20:01	18:39			16:26	29	09:42 (2)	15:51	26	10:30 (42)
14	04:58	05:56	07:01	08:03			08:12		09:14 (2)	09:06		10:04 (42)
	22:21	21:20	19:58	18:36			16:24	34	10:10 (42)	15:51	26	10:30 (42)
15	04:59	05:58	07:03	08:06			08:14		09:14 (2)	09:07		10:05 (42)
	22:20	21:18	19:55	18:34			16:22	41	10:13 (42)	15:51	25	10:30 (42)
16	05:01	06:01	07:05	08:08		09:31 (43)	08:17		09:14 (2)	09:08		10:05 (42)
	22:18	21:15	19:53	18:31	7	09:38 (43)	16:20	45	10:16 (42)	15:51	26	10:31 (42)
17	05:02	06:03	07:07	08:10		09:27 (43)	08:19		09:14 (2)	09:09		10:06 (42)
	22:17	21:13	19:50	18:28	15	09:42 (43)	16:19	48	10:17 (42)	15:51	25	10:31 (42)
18	05:04	06:05	07:09	08:12		09:26 (43)	08:21		09:14 (2)	09:10		10:06 (42)
	22:15	21:10	19:47	18:26	18	09:44 (43)	16:17	49	10:18 (42)	15:51	26	10:32 (42)
19	05:06	06:07	07:11	08:14		09:24 (43)	08:23		09:16 (2)	09:10		10:07 (42)
	22:14	21:08	19:44	18:23	21	09:45 (43)	16:15	50	10:20 (42)	15:51	25	10:32 (42)
20	05:07	06:09	07:13	08:16		09:22 (43)	08:25		09:16 (2)	09:11		10:07 (42)
	22:12	21:05	19:42	18:21	24	09:46 (43)	16:13	50	10:20 (42)	15:52	25	10:32 (42)
21	05:09	06:11	07:15	08:19		09:22 (43)	08:27		09:17 (2)	09:12		10:08 (42)
	22:11	21:03	19:39	18:18	25	09:47 (43)	16:12	52	10:22 (42)	15:52	25	10:33 (42)
22	05:11	06:13	07:17	08:21		09:20 (43)	08:29		09:18 (2)	09:12		10:08 (42)
	22:09	21:00	19:36	18:16	27	09:47 (43)	16:10	50	10:22 (42)	15:52	25	10:33 (42)
23	05:13	06:15	07:19	08:23		09:19 (43)	08:31		09:18 (2)	09:13		10:09 (42)
	22:07	20:57	19:33	18:13	28	09:47 (43)	16:09	51	10:23 (42)	15:53	25	10:34 (42)
24	05:15	06:17	07:21	08:25		09:20 (43)	08:33		09:20 (2)	09:13		10:09 (42)
	22:05	20:55	19:31	18:11	28	09:48 (43)	16:07	50	10:24 (42)	15:53	25	10:34 (42)
25	05:16	06:19	07:23	07:27		08:19 (43)	08:35		09:21 (2)	09:14		10:09 (42)
	22:04	20:52	19:28	17:08	29	08:48 (43)	16:06	48	10:24 (42)	15:54	26	10:35 (42)
26	05:18	06:21	07:25	07:30		08:19 (43)	08:37		09:22 (2)	09:14		10:10 (42)
	22:02	20:50	19:25	17:06	29	08:48 (43)	16:05	47	10:24 (42)	15:55	25	10:35 (42)
27	05:20	06:23	07:27	07:32		08:19 (43)	08:39		09:23 (2)	09:14		10:10 (42)
	22:00	20:47	19:22	17:03	29	08:48 (43)	16:03	46	10:25 (42)	15:56	25	10:35 (42)
28	05:22	06:26	07:29	07:34		08:19 (43)	08:41		09:25 (2)	09:14		10:10 (42)
	21:58	20:44	19:19	17:01	28	08:47 (43)	16:02	44	10:26 (42)	15:57	26	10:36 (42)
29	05:24	06:28	07:32	07:36		08:20 (43)	08:43		09:27 (2)	09:14		10:11 (42)
	21:56	20:42	19:17	16:59	27	08:47 (43)	16:01	39	10:26 (42)	15:58	26	10:37 (42)
30	05:26	06:30	07:34	07:39		08:20 (43)	08:45		09:31 (2)	09:14		10:11 (42)
	21:54	20:39	19:14	16:56	26	08:46 (43)	16:00	32	10:26 (42)	15:59	27	10:38 (42)
31	05:28	06:32		07:41		08:21 (43)				09:14		10:12 (42)
	21:52	20:36		16:54	25	08:46 (43)				16:00	27	10:39 (42)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					386			1118			826	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.59			0.59			0.61	
Total reduction					0.23			0.13			0.13	
Total, real					91			142			106	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BW - Jaunbirznieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:14		10:13 (42)	08:36		09:43 (2)	07:30	07:06	05:48	04:49
	16:01	27	10:40 (42)	17:00	28	10:11 (2)	18:04	20:12	21:17	22:16
2	09:14		10:13 (42)	08:34		09:43 (2)	07:27	07:03	05:45	04:48
	16:02	27	10:40 (42)	17:02	27	10:10 (2)	18:07	20:14	21:19	22:17
3	09:13		10:13 (42)	08:32		09:44 (2)	07:25	07:01	05:43	04:46
	16:04	28	10:41 (42)	17:05	26	10:10 (2)	18:09	20:16	21:21	22:19
4	09:13		10:13 (42)	08:30		09:45 (2)	07:22	06:58	05:41	04:45
	16:05	29	10:42 (42)	17:07	25	10:10 (2)	18:11	20:18	21:23	22:20
5	09:12		10:13 (42)	08:28		09:45 (2)	07:20	06:55	05:38	04:44
	16:07	29	10:42 (42)	17:09	23	10:08 (2)	18:13	20:21	21:25	22:21
6	09:12		10:14 (42)	08:26		09:47 (2)	07:17	06:52	05:36	04:43
	16:08	29	10:43 (42)	17:12	21	10:08 (2)	18:16	20:23	21:27	22:23
7	09:11		10:14 (42)	08:23		08:58 (43)	07:14	06:50	05:34	04:43
	16:10	29	10:43 (42)	17:14	29	10:07 (2)	18:18	20:25	21:29	22:24
8	09:10		10:14 (42)	08:21		08:54 (43)	07:12	06:47	05:31	04:42
	16:11	30	10:44 (42)	17:16	30	10:04 (2)	18:20	20:27	21:31	22:25
9	09:10		10:15 (42)	08:19		08:53 (43)	07:09	06:44	05:29	04:41
	16:13	29	10:44 (42)	17:19	26	10:01 (2)	18:22	20:29	21:33	22:26
10	09:09		10:15 (42)	08:17		08:51 (43)	07:06	06:42	05:27	04:40
	16:15	30	10:45 (42)	17:21	22	09:13 (43)	18:24	20:31	21:36	22:27
11	09:08		10:16 (42)	08:15		08:51 (43)	07:03	06:39	05:25	04:40
	16:16	30	10:46 (42)	17:23	24	09:15 (43)	18:27	20:33	21:38	22:28
12	09:07		10:16 (42)	08:12		08:49 (43)	07:01	06:36	05:23	04:39
	16:18	30	10:46 (42)	17:26	26	09:15 (43)	18:29	20:36	21:40	22:29
13	09:06		09:48 (2)	08:10		08:49 (43)	06:58	06:34	05:21	04:39
	16:20	37	10:46 (42)	17:28	27	09:16 (43)	18:31	20:38	21:42	22:30
14	09:05		09:46 (2)	08:08		08:48 (43)	06:55	06:31	05:19	04:38
	16:22	42	10:47 (42)	17:30	28	09:16 (43)	18:33	20:40	21:44	22:31
15	09:04		09:44 (2)	08:05		08:48 (43)	06:53	06:28	05:17	04:38
	16:24	45	10:47 (42)	17:33	29	09:17 (43)	18:35	20:42	21:46	22:31
16	09:02		09:44 (2)	08:03		08:48 (43)	06:50	06:26	05:15	04:38
	16:26	47	10:48 (42)	17:35	29	09:17 (43)	18:38	20:44	21:48	22:32
17	09:01		09:43 (2)	08:00		08:48 (43)	06:47	06:23	05:13	04:38
	16:28	48	10:47 (42)	17:37	30	09:18 (43)	18:40	20:46	21:50	22:32
18	09:00		09:42 (2)	07:58		08:48 (43)	06:44	06:20	05:11	04:37
	16:30	50	10:47 (42)	17:39	29	09:17 (43)	18:42	20:49	21:52	22:33
19	08:58		09:42 (2)	07:55		08:49 (43)	06:42	06:18	05:09	04:37
	16:32	52	10:48 (42)	17:42	28	09:17 (43)	18:44	20:51	21:54	22:33
20	08:57		09:42 (2)	07:53		08:48 (43)	06:39	06:15	05:07	04:37
	16:34	52	10:48 (42)	17:44	29	09:17 (43)	18:46	20:53	21:55	22:34
21	08:55		09:41 (2)	07:51		08:49 (43)	06:36	06:13	05:05	04:37
	16:36	53	10:47 (42)	17:46	27	09:16 (43)	18:48	20:55	21:57	22:34
22	08:54		09:41 (2)	07:48		08:50 (43)	06:33	06:10	05:04	04:38
	16:38	52	10:47 (42)	17:49	25	09:15 (43)	18:51	20:57	21:59	22:34
23	08:52		09:40 (2)	07:45		08:50 (43)	06:31	06:07	05:02	04:38
	16:40	52	10:46 (42)	17:51	24	09:14 (43)	18:53	20:59	22:01	22:34
24	08:51		09:40 (2)	07:43		08:51 (43)	06:28	06:05	05:00	04:38
	16:42	51	10:46 (42)	17:53	21	09:12 (43)	18:55	21:01	22:03	22:34
25	08:49		09:41 (2)	07:40		08:53 (43)	06:25	06:02	04:59	04:39
	16:44	50	10:46 (42)	17:55	18	09:11 (43)	18:57	21:04	22:05	22:34
26	08:47		09:40 (2)	07:38		08:55 (43)	06:22	06:00	04:57	04:39
	16:47	47	10:44 (42)	17:58	13	09:08 (43)	18:59	21:06	22:06	22:34
27	08:45		09:40 (2)	07:35			06:20	05:57	04:56	04:40
	16:49	46	10:43 (42)	18:00			19:01	21:08	22:08	22:34
28	08:44		09:41 (2)	07:33			06:17	05:55	04:54	04:40
	16:51	40	10:41 (42)	18:02			19:03	21:10	22:10	22:34
29	08:42		09:41 (2)				07:14	05:52	04:53	04:41
	16:53	30	10:11 (2)				20:06	21:12	22:11	22:34
30	08:40		09:41 (2)				07:11	05:50	04:51	04:42
	16:56	30	10:11 (2)				20:08	21:14	22:13	22:33
31	08:38		09:42 (2)				07:09		04:50	
	16:58	29	10:11 (2)				20:10		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1200			664					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.60			0.59					
Total reduction		0.15			0.18					
Total, real		185			122					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BW - Jaunbirznieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:30	06:34	07:36		07:43		08:21 (43)	08:47	09:58 (42)
	22:33	21:50	20:34	19:11		16:52	22	08:43 (43)	15:59	30 10:28 (42)
2	04:43	05:32	06:36	07:38		07:45		08:23 (43)	08:49	09:58 (42)
	22:32	21:48	20:31	19:09		16:49	29	09:32 (2)	15:58	30 10:28 (42)
3	04:44	05:34	06:38	07:40		07:48		08:24 (43)	08:50	09:59 (42)
	22:32	21:45	20:28	19:06		16:47	30	09:34 (2)	15:57	29 10:28 (42)
4	04:45	05:36	06:40	07:42		07:50		08:28 (43)	08:52	09:59 (42)
	22:31	21:43	20:26	19:03		16:45	28	09:37 (2)	15:56	30 10:29 (42)
5	04:46	05:38	06:42	07:44		07:52		09:16 (2)	08:54	10:00 (42)
	22:30	21:41	20:23	19:00		16:43	22	09:38 (2)	15:55	29 10:29 (42)
6	04:47	05:40	06:44	07:46		07:54		09:16 (2)	08:55	10:00 (42)
	22:30	21:39	20:20	18:58		16:40	23	09:39 (2)	15:54	29 10:29 (42)
7	04:48	05:42	06:46	07:48		07:57		09:14 (2)	08:57	10:01 (42)
	22:29	21:37	20:17	18:55		16:38	26	09:40 (2)	15:54	28 10:29 (42)
8	04:50	05:44	06:48	07:51		07:59		09:14 (2)	08:58	10:01 (42)
	22:28	21:34	20:15	18:52		16:36	27	09:41 (2)	15:53	29 10:30 (42)
9	04:51	05:46	06:50	07:53		08:01		09:13 (2)	09:00	10:02 (42)
	22:27	21:32	20:12	18:50		16:34	28	09:41 (2)	15:52	28 10:30 (42)
10	04:52	05:48	06:52	07:55		08:03		09:13 (2)	09:01	10:03 (42)
	22:26	21:30	20:09	18:47		16:32	29	09:42 (2)	15:52	27 10:30 (42)
11	04:53	05:50	06:54	07:57		08:06		09:13 (2)	09:02	10:03 (42)
	22:25	21:27	20:06	18:44		16:30	29	09:42 (2)	15:52	27 10:30 (42)
12	04:55	05:52	06:56	07:59		08:08		09:13 (2)	09:04	10:04 (42)
	22:24	21:25	20:04	18:42		16:28	30	09:43 (2)	15:51	27 10:31 (42)
13	04:56	05:54	06:59	08:01		08:10		09:13 (2)	09:05	10:04 (42)
	22:22	21:22	20:01	18:39		16:26	30	09:43 (2)	15:51	27 10:31 (42)
14	04:58	05:56	07:01	08:03		08:12		09:14 (2)	09:06	10:05 (42)
	22:21	21:20	19:58	18:36		16:24	40	10:14 (42)	15:51	26 10:31 (42)
15	04:59	05:58	07:03	08:06	09:30 (43)	08:14		09:13 (2)	09:07	10:05 (42)
	22:20	21:18	19:55	18:34	8 09:38 (43)	16:22	46	10:16 (42)	15:51	26 10:31 (42)
16	05:01	06:01	07:05	08:08	09:26 (43)	08:17		09:14 (2)	09:08	10:06 (42)
	22:18	21:15	19:53	18:31	15 09:41 (43)	16:20	48	10:18 (42)	15:51	26 10:32 (42)
17	05:02	06:03	07:07	08:10	09:24 (43)	08:19		09:14 (2)	09:09	10:06 (42)
	22:17	21:13	19:50	18:28	19 09:43 (43)	16:19	50	10:19 (42)	15:51	26 10:32 (42)
18	05:04	06:05	07:09	08:12	09:23 (43)	08:21		09:14 (2)	09:10	10:07 (42)
	22:15	21:10	19:47	18:26	22 09:45 (43)	16:17	51	10:20 (42)	15:51	26 10:33 (42)
19	05:06	06:07	07:11	08:14	09:21 (43)	08:23		09:15 (2)	09:10	10:08 (42)
	22:14	21:08	19:44	18:23	25 09:46 (43)	16:15	52	10:21 (42)	15:51	25 10:33 (42)
20	05:07	06:09	07:13	08:16	09:20 (43)	08:25		09:16 (2)	09:11	10:08 (42)
	22:12	21:05	19:42	18:21	26 09:46 (43)	16:13	52	10:22 (42)	15:52	25 10:33 (42)
21	05:09	06:11	07:15	08:19	09:20 (43)	08:27		09:17 (2)	09:12	10:09 (42)
	22:11	21:03	19:39	18:18	27 09:47 (43)	16:12	53	10:23 (42)	15:52	25 10:34 (42)
22	05:11	06:13	07:17	08:21	09:19 (43)	08:29		09:18 (2)	09:12	10:09 (42)
	22:09	21:00	19:36	18:16	28 09:47 (43)	16:10	52	10:24 (42)	15:52	25 10:34 (42)
23	05:13	06:15	07:19	08:23	09:18 (43)	08:31		09:18 (2)	09:13	10:10 (42)
	22:07	20:57	19:33	18:13	29 09:47 (43)	16:09	52	10:24 (42)	15:53	25 10:35 (42)
24	05:15	06:17	07:21	08:25	09:18 (43)	08:33		09:20 (2)	09:13	10:10 (42)
	22:05	20:55	19:31	18:11	30 09:48 (43)	16:07	50	10:25 (42)	15:53	25 10:35 (42)
25	05:16	06:19	07:23	07:27	08:18 (43)	08:35		09:21 (2)	09:14	10:10 (42)
	22:04	20:52	19:28	17:08	29 08:47 (43)	16:06	48	10:25 (42)	15:54	25 10:35 (42)
26	05:18	06:21	07:25	07:30	08:18 (43)	08:37		09:22 (2)	09:14	10:10 (42)
	22:02	20:50	19:25	17:06	29 08:47 (43)	16:05	47	10:26 (42)	15:55	26 10:36 (42)
27	05:20	06:23	07:27	07:32	08:18 (43)	08:39		09:23 (2)	09:14	10:11 (42)
	22:00	20:47	19:22	17:03	29 08:47 (43)	16:03	45	10:26 (42)	15:56	25 10:36 (42)
28	05:22	06:26	07:29	07:34	08:18 (43)	08:41		09:26 (2)	09:14	10:11 (42)
	21:58	20:44	19:19	17:01	28 08:46 (43)	16:02	42	10:27 (42)	15:57	26 10:37 (42)
29	05:24	06:28	07:32	07:36	08:19 (43)	08:43		09:29 (2)	09:14	10:12 (42)
	21:56	20:42	19:17	16:59	27 08:46 (43)	16:01	37	10:27 (42)	15:58	26 10:38 (42)
30	05:26	06:30	07:34	07:39	08:19 (43)	08:45		09:57 (42)	09:14	10:12 (42)
	21:54	20:39	19:14	16:56	26 08:45 (43)	16:00	31	10:28 (42)	15:59	27 10:39 (42)
31	05:28	06:32		07:41	08:20 (43)				09:14	10:13 (42)
	21:52	20:36		16:54	24 08:44 (43)				16:00	27 10:40 (42)
Potential sun hours	534	472	385	322		244			211	
Total, worst case					421		1149			832
Sun reduction					0.42		0.23			0.23
Oper. time red.					0.94		0.94			0.94
Wind dir. red.					0.59		0.59			0.61
Total reduction					0.24		0.13			0.13
Total, real					99		146			107

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BX - Jaunbrie ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April			May			June	July			August			September	October	November	December
1	09:13	08:36	07:30	07:06			05:48		06:20 (29)	04:49	04:43			05:30		06:32 (29)	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12			21:16	23	06:43 (29)	22:15	22:32			21:49	19	06:51 (29)	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03			05:46		06:20 (29)	04:48	04:44			05:32		06:31 (29)	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14			21:18	23	06:43 (29)	22:17	22:32			21:47	21	06:52 (29)	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01			05:43		06:19 (29)	04:47	04:45			05:34		06:31 (29)	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16			21:21	25	06:44 (29)	22:18	22:31			21:45	22	06:53 (29)	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58			05:41		06:19 (29)	04:46	04:46			05:36		06:29 (29)	06:40	07:42	07:50	08:52
	16:06	17:08	18:11	20:18			21:23	25	06:44 (29)	22:20	22:31			21:43	23	06:52 (29)	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55			05:39		06:19 (29)	04:45	04:47			05:38		06:29 (29)	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21			21:25	25	06:44 (29)	22:21	22:30			21:41	24	06:53 (29)	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53			05:36		06:19 (29)	04:44	04:48			05:40		06:29 (29)	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23			21:27	25	06:44 (29)	22:22	22:29			21:39	24	06:53 (29)	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50			05:34		06:19 (29)	04:43	04:49			05:42		06:29 (29)	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25			21:29	25	06:44 (29)	22:23	22:28			21:36	24	06:53 (29)	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47			05:32		06:20 (29)	04:42	04:50			05:45		06:29 (29)	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27			21:31	23	06:43 (29)	22:25	22:27			21:34	24	06:53 (29)	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:45			05:30		06:20 (29)	04:42	04:52			05:47		06:29 (29)	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29			21:33	23	06:43 (29)	22:26	22:26			21:32	24	06:53 (29)	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42			05:28		06:20 (29)	04:41	04:53			05:49		06:29 (29)	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31			21:35	22	06:42 (29)	22:27	22:25			21:29	24	06:53 (29)	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39			05:25		06:21 (29)	04:40	04:54			05:51		06:29 (29)	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33			21:37	20	06:41 (29)	22:28	22:24			21:27	24	06:53 (29)	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36			05:23		06:22 (29)	04:40	04:56			05:53		06:29 (29)	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36			21:39	18	06:40 (29)	22:28	22:23			21:25	22	06:51 (29)	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34			05:21		06:22 (29)	04:39	04:57			05:55		06:29 (29)	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38			21:41	17	06:39 (29)	22:29	22:22			21:22	21	06:50 (29)	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31			05:19		06:24 (29)	04:39	04:58			05:57		06:30 (29)	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40			21:43	14	06:38 (29)	22:30	22:21			21:20	19	06:49 (29)	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29			05:17		06:25 (29)	04:39	05:00			05:59		06:31 (29)	07:03	08:06	08:14	09:06
	16:24	17:33	18:36	20:42			21:45	11	06:36 (29)	22:31	22:19			21:17	17	06:48 (29)	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26			05:15		06:29 (29)	04:38	05:02			06:01		06:33 (29)	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44			21:47	5	06:34 (29)	22:31	22:18			21:15	13	06:46 (29)	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23			05:13			04:38	05:03			06:03		06:35 (29)	07:07	08:10	08:18	09:08
	16:28	17:38	18:40	20:46			21:49			22:32	22:16			21:13	9	06:44 (29)	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21			05:11			04:38	05:05			06:05			07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48			21:51			22:32	22:15			21:10			19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18			05:09			04:38	05:06			06:07			07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51			21:53			22:33	22:13			21:07			19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15			05:08			04:38	05:08			06:09			07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53			21:55			22:33	22:12			21:05			19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13			05:06			04:38	05:10			06:11			07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55			21:57			22:33	22:10			21:02			19:39	18:19	16:12	15:53
22	08:54	07:48	06:34	06:10			05:04			04:38	05:12			06:13			07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57			21:59			22:34	22:09			21:00			19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08			05:02			04:39	05:13			06:15			07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59			22:01			22:34	22:07			20:57			19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05			05:01			04:39	05:15			06:18			07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01			22:02			22:34	22:05			20:55			19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03			04:59			04:39	05:17			06:20			07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03			22:04			22:34	22:03			20:52			19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00		06:28 (29)	04:58			04:40	05:19			06:22			07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	10	06:38 (29)	22:06			22:34	22:01			20:49			19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58		06:26 (29)	04:56			04:40	05:21			06:24			07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	14	06:40 (29)	22:08			22:34	21:59			20:47			19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55		06:23 (29)	04:55			04:41	05:23		06:37 (29)	06:26			07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	18	06:41 (29)	22:09			22:33	21:58	8	06:45 (29)	20:44			19:20	17:01	16:03	15:57
29	08:42		07:14	05:53		06:22 (29)	04:53			04:42	05:25		06:36 (29)	06:28			07:32	07:36	08:43	09:14
	16:54		20:06	21:12	20	06:42 (29)	22:11			22:33	21:56	12	06:48 (29)	20:42			19:17	16:59	16:01	15:58
30	08:40		07:12	05:50		06:21 (29)	04:52			04:42	05:27		06:33 (29)	06:30			07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22	06:43 (29)	22:12			22:33	21:54	16	06:49 (29)	20:39			19:14	16:57	16:00	15:59
31	08:38		07:09				04:51				05:28		06:32 (29)	06:32				07:41		09:14
	16:58		20:10				22:14				21:52	18	06:50 (29)	20:36				16:54		16:00
Potential sun hours	231	264	366	428			511			534	534			472			385	322	244	212
Total, worst case					84			324				54			354					
Sun reduction					0.55			0.61				0.60			0.59					
Oper. time red.					0.94			0.94				0.94			0.94					
Wind dir. red.					0.66			0.66				0.66			0.66					
Total reduction					0.34			0.38				0.37			0.36					
Total, real					28			123				20			129					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BY - Jaundobri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:30	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:13	21:18	22:16	22:31	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:27	19:05	16:47	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44	04:46	05:38	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20	22:29	21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:54
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:28	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:30	22:24	22:27	21:33	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:00	08:59
	16:13	17:18	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:34	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:02	09:00
	16:14	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:31	15:52
11	09:07	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:58	08:07	09:02
	16:18	17:25	18:28	20:35	21:39	22:28	22:22	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00	08:09	09:04
	16:20	17:27	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:33	20:39	21:43	22:29	22:20	21:19	19:57	18:36	16:24	15:51
15	09:03	08:04	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:13	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:31	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	22:16	21:12	19:49	18:28	16:18	15:51
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:14	21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24	09:10
	16:33	17:43	18:46	20:52	21:54	22:33	22:11	21:04	19:41	18:20	16:13	15:51
21	08:54	07:50	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	22:10	21:02	19:38	18:18	16:11	15:52
22	08:53	07:47	06:33	06:09	05:03	04:37	05:11	06:13	07:16	08:20	08:28	09:11
	16:38	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:18	08:22	08:30	09:12
	16:40	17:50	18:52	20:58	22:00	22:33	22:06	20:57	19:33	18:13	16:08	15:53
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:24	08:32	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	22:04	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:34	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	22:03	20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:36	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05	16:04	15:55
27	08:45	07:34	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:43	19:19	17:00	16:02	15:56
29	08:41		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:13	22:12	22:32	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50		05:28	06:31		07:40		09:13
	16:57		20:09		22:13		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: BZ - Jaunsamie š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April		May	June	July	August		September		October	November	December
1	09:14	08:36	07:30	07:06		05:48	04:49	04:43	05:30		06:34	07:06 (16)	07:36	07:43	08:47
	16:02	17:00	18:05	20:12		21:16	22:16	22:33	21:50		20:34	21 07:27 (16)	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03		05:46	04:48	04:44	05:32		06:36	07:07 (16)	07:38	07:45	08:48
	16:03	17:03	18:07	20:14		21:19	22:17	22:32	21:47		20:31	19 07:26 (16)	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01		05:43	04:47	04:45	05:34		06:38	07:08 (16)	07:40	07:48	08:50
	16:04	17:05	18:09	20:16		21:21	22:19	22:32	21:45		20:28	16 07:24 (16)	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58		05:41	04:46	04:46	05:36		06:40	07:10 (16)	07:42	07:50	08:52
	16:06	17:07	18:11	20:18		21:23	22:20	22:31	21:43		20:26	12 07:22 (16)	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55		05:39	04:45	04:47	05:38		06:42	07:12 (16)	07:44	07:52	08:53
	16:07	17:10	18:14	20:21		21:25	22:21	22:30	21:41		20:23	7 07:19 (16)	19:01	16:43	15:55
6	09:12	08:26	07:17	06:53		05:36	04:44	04:48	05:40		06:44		07:46	07:54	08:55
	16:09	17:12	18:16	20:23		21:27	22:22	22:29	21:39		20:20		18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	07:16 (16)	05:34	04:43	04:49	05:42		06:46		07:48	07:57	08:57
	16:10	17:14	18:18	20:25	7 07:23 (16)	21:29	22:24	22:29	21:36		20:17		18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	07:13 (16)	05:32	04:42	04:50	05:44		06:48		07:51	07:59	08:58
	16:12	17:17	18:20	20:27	12 07:25 (16)	21:31	22:25	22:28	21:34		20:15		18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	07:10 (16)	05:30	04:41	04:51	05:46		06:50		07:53	08:01	08:59
	16:13	17:19	18:22	20:29	16 07:26 (16)	21:33	22:26	22:27	21:32		20:12		18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	07:09 (16)	05:27	04:41	04:53	05:48		06:53		07:55	08:03	09:01
	16:15	17:21	18:25	20:31	19 07:28 (16)	21:35	22:27	22:26	21:30		20:09		18:47	16:32	15:52
11	09:08	08:14	07:04	06:39	07:07 (16)	05:25	04:40	04:54	05:51		06:55		07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21 07:28 (16)	21:37	22:28	22:24	21:27		20:06		18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	07:06 (16)	05:23	04:40	04:55	05:53		06:57		07:59	08:08	09:03
	16:18	17:26	18:29	20:36	22 07:28 (16)	21:40	22:29	22:23	21:25		20:04		18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	07:06 (16)	05:21	04:39	04:57	05:55		06:59		08:01	08:10	09:05
	16:20	17:28	18:31	20:38	23 07:29 (16)	21:42	22:30	22:22	21:22		20:01		18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	07:05 (16)	05:19	04:39	04:58	05:57		07:01		08:03	08:12	09:06
	16:22	17:30	18:33	20:40	23 07:28 (16)	21:44	22:30	22:21	21:20		19:58		18:37	16:24	15:51
15	09:03	08:05	06:53	06:28	07:05 (16)	05:17	04:38	05:00	05:59		07:03		08:06	08:14	09:07
	16:24	17:33	18:36	20:42	23 07:28 (16)	21:46	22:31	22:19	21:18		19:55		18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	07:05 (16)	05:15	04:38	05:01	06:01		07:05		08:08	08:16	09:08
	16:26	17:35	18:38	20:44	22 07:27 (16)	21:48	22:32	22:18	21:15		19:53		18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	07:06 (16)	05:13	04:38	05:03	06:03		07:07		08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21 07:27 (16)	21:50	22:32	22:17	21:13		19:50		18:29	16:19	15:51
18	09:00	07:58	06:44	06:21	07:05 (16)	05:11	04:38	05:05	06:05		07:09		08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21 07:26 (16)	21:51	22:33	22:15	21:10		19:47		18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	07:06 (16)	05:09	04:38	05:06	06:07		07:11		08:14	08:23	09:10
	16:32	17:42	18:44	20:51	19 07:25 (16)	21:53	22:33	22:14	21:08		19:44		18:24	16:15	15:52
20	08:57	07:53	06:39	06:15	07:07 (16)	05:07	04:38	05:08	06:09		07:13		08:16	08:25	09:11
	16:34	17:44	18:46	20:53	16 07:23 (16)	21:55	22:33	22:12	21:05		19:42		18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	07:09 (16)	05:06	04:38	05:10	06:11	07:16 (16)	07:15		08:19	08:27	09:12
	16:36	17:47	18:48	20:55	13 07:22 (16)	21:57	22:34	22:10	21:03	9 07:25 (16)	19:39		18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	07:11 (16)	05:04	04:38	05:11	06:13	07:13 (16)	07:17		08:21	08:29	09:12
	16:38	17:49	18:51	20:57	7 07:18 (16)	21:59	22:34	22:09	21:00	14 07:27 (16)	19:36		18:16	16:11	15:53
23	08:52	07:45	06:31	06:08		05:02	04:38	05:13	06:15	07:11 (16)	07:19		08:23	08:31	09:13
	16:40	17:51	18:53	20:59		22:01	22:34	22:07	20:57	17 07:28 (16)	19:33		18:13	16:09	15:53
24	08:51	07:43	06:28	06:05		05:01	04:39	05:15	06:17	07:10 (16)	07:21		08:25	08:33	09:13
	16:43	17:53	18:55	21:01		22:03	22:34	22:05	20:55	19 07:29 (16)	19:31		18:11	16:08	15:54
25	08:49	07:40	06:25	06:03		04:59	04:39	05:17	06:20	07:08 (16)	07:23		07:27	08:35	09:13
	16:45	17:56	18:57	21:04		22:04	22:34	22:03	20:52	21 07:29 (16)	19:28		17:09	16:06	15:55
26	08:47	07:38	06:23	06:00		04:57	04:40	05:19	06:22	07:07 (16)	07:25		07:30	08:37	09:14
	16:47	17:58	18:59	21:06		22:06	22:34	22:02	20:50	22 07:29 (16)	19:25		17:06	16:05	15:55
27	08:45	07:35	06:20	05:58		04:56	04:40	05:21	06:24	07:07 (16)	07:28		07:32	08:39	09:14
	16:49	18:00	19:01	21:08		22:08	22:34	22:00	20:47	22 07:29 (16)	19:22		17:04	16:04	15:56
28	08:44	07:33	06:17	05:55		04:54	04:41	05:22	06:26	07:06 (16)	07:30		07:34	08:41	09:14
	16:51	18:02	19:03	21:10		22:09	22:34	21:58	20:44	23 07:29 (16)	19:20		17:01	16:02	15:57
29	08:42		07:14	05:53		04:53	04:41	05:24	06:28	07:06 (16)	07:32		07:36	08:43	09:14
	16:54		20:06	21:12		22:11	22:33	21:56	20:42	23 07:29 (16)	19:17		16:59	16:01	15:58
30	08:40		07:12	05:50		04:52	04:42	05:26	06:30	07:06 (16)	07:34		07:39	08:45	09:14
	16:56		20:08	21:14		22:13	22:33	21:54	20:39	22 07:28 (16)	19:14		16:56	16:00	15:59
31	08:38		07:09			04:50		05:28	06:32	07:06 (16)			07:41		09:14
	16:58		20:10			22:14		21:52	20:36	22 07:28 (16)			16:54		16:00
Potential sun hours	231	264	366	428		512	534	534	472		385		322	244	211
Total, worst case					285					214		75			
Sun reduction					0.55					0.59		0.50			
Oper. time red.					0.94					0.94		0.94			
Wind dir. red.					0.64					0.64		0.64			
Total reduction					0.33					0.35		0.30			
Total, real					94					76		23			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CA - Jaunsudrabini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:28	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:23	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:49	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:46	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:06	09:02
	16:17	17:24	18:27	20:34	21:38	22:28	22:25	21:27	20:07	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:38	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:20	21:18	19:56	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:15	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:51	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:28	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:57	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:54	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:04	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CB - Jaunventas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		14:45 (9)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		14:30 (9)
	16:01	22	15:07 (9)	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51			15:58	25	14:55 (9)
2	09:13		14:45 (9)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		14:30 (9)
	16:02	22	15:07 (9)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	25	14:55 (9)
3	09:13		14:46 (9)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		14:31 (9)
	16:03	22	15:08 (9)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47			15:56	24	14:55 (9)
4	09:12		14:46 (9)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		14:30 (9)
	16:05	23	15:09 (9)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	25	14:55 (9)
5	09:12		14:46 (9)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		14:31 (9)
	16:06	23	15:09 (9)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	24	14:55 (9)
6	09:11		14:46 (9)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:32 (9)
	16:08	24	15:10 (9)	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40			15:54	24	14:56 (9)
7	09:11		14:46 (9)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		14:33 (9)
	16:09	24	15:10 (9)	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38			15:53	23	14:56 (9)
8	09:10		14:46 (9)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		14:33 (9)
	16:11	25	15:11 (9)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	23	14:56 (9)
9	09:09		14:47 (9)	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		14:34 (9)
	16:13	24	15:11 (9)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	23	14:57 (9)
10	09:08		14:47 (9)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		14:34 (9)
	16:14	25	15:12 (9)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	22	14:56 (9)
11	09:08		14:48 (9)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		14:35 (9)
	16:16	25	15:13 (9)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	22	14:57 (9)
12	09:07		14:48 (9)	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:07			09:03		14:35 (9)
	16:18	24	15:12 (9)	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	22	14:57 (9)
13	09:06		14:48 (9)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		14:37 (9)
	16:20	25	15:13 (9)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	21	14:58 (9)
14	09:04		14:49 (9)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:06		14:37 (9)
	16:21	25	15:14 (9)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	21	14:58 (9)
15	09:03		14:49 (9)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		14:37 (9)
	16:23	25	15:14 (9)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	21	14:58 (9)
16	09:02		14:49 (9)	08:02	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:08		14:38 (9)
	16:25	24	15:13 (9)	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20			15:50	21	14:59 (9)
17	09:01		14:50 (9)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18		14:34 (9)	09:08		14:39 (9)
	16:27	24	15:14 (9)	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	9	14:43 (9)	15:51	20	14:59 (9)
18	08:59		14:51 (9)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21		14:32 (9)	09:09		14:39 (9)
	16:29	23	15:14 (9)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	13	14:45 (9)	15:51	20	14:59 (9)
19	08:58		14:51 (9)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23		14:31 (9)	09:10		14:39 (9)
	16:31	22	15:13 (9)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	16	14:47 (9)	15:51	20	14:59 (9)
20	08:57		14:53 (9)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		14:30 (9)	09:11		14:40 (9)
	16:33	21	15:14 (9)	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	18	14:48 (9)	15:51	20	15:00 (9)
21	08:55		14:54 (9)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		14:29 (9)	09:11		14:41 (9)
	16:36	19	15:13 (9)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:12	19	14:48 (9)	15:52	20	15:01 (9)
22	08:54		14:55 (9)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29		14:29 (9)	09:12		14:41 (9)
	16:38	18	15:13 (9)	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	21	14:50 (9)	15:52	20	15:01 (9)
23	08:52		14:56 (9)	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31		14:28 (9)	09:13		14:42 (9)
	16:40	16	15:12 (9)	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	22	14:50 (9)	15:53	20	15:02 (9)
24	08:50		14:58 (9)	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:28 (9)	09:13		14:42 (9)
	16:42	13	15:11 (9)	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	23	14:51 (9)	15:53	20	15:02 (9)
25	08:49		15:00 (9)	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:29 (9)	09:13		14:42 (9)
	16:44	9	15:09 (9)	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	23	14:52 (9)	15:54	20	15:02 (9)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		14:28 (9)	09:14		14:43 (9)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	24	14:52 (9)	15:55	20	15:03 (9)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		14:28 (9)	09:14		14:43 (9)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	25	14:53 (9)	15:55	20	15:03 (9)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:28 (9)	09:14		14:43 (9)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	25	14:53 (9)	15:56	21	15:04 (9)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		14:28 (9)	09:14		14:44 (9)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	25	14:53 (9)	15:57	21	15:05 (9)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:30 (9)	09:14		14:44 (9)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	25	14:55 (9)	15:58	22	15:06 (9)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		14:44 (9)
	16:58				20:10		22:14		21:51	20:36		16:54				15:59	22	15:06 (9)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		547												288			672	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.69	
Total reduction		0.18												0.15			0.15	
Total, real		97												43			98	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CC - Jaunzemji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May		June	
1	09:14	08:36		07:30		07:06		07:42 (15)	05:48		06:34 (3)	04:49
	16:02	17:00		18:05		20:12	25	08:07 (15)	21:16	26	07:00 (3)	22:16
2	09:13	08:34		07:27		07:03		07:41 (15)	05:45		06:34 (3)	04:48
	16:03	17:03		18:07		20:14	25	08:06 (15)	21:19	26	07:00 (3)	22:17
3	09:13	08:32		07:25		07:01		07:40 (15)	05:43		06:35 (3)	04:47
	16:04	17:05		18:09		20:16	25	08:05 (15)	21:21	25	07:00 (3)	22:19
4	09:13	08:30		07:22		06:58		07:41 (15)	05:41		06:35 (3)	04:46
	16:05	17:07		18:11		20:18	25	08:06 (15)	21:23	24	06:59 (3)	22:20
5	09:12	08:28		07:20		06:55		07:41 (15)	05:38		06:36 (3)	04:45
	16:07	17:10		18:14		20:21	23	08:04 (15)	21:25	23	06:59 (3)	22:21
6	09:12	08:26		08:58 (16)		07:17		06:52	07:41 (15)	05:36		06:36 (3)	04:44
	16:08	17:12	9	09:07 (16)		18:16		20:23	22	08:03 (15)	21:27	22	06:58 (3)	22:23
7	09:11	08:23		08:56 (16)		07:14		06:50	07:42 (15)	05:34		06:36 (3)	04:43
	16:10	17:14	14	09:10 (16)		18:18		20:25	20	08:02 (15)	21:29	20	06:56 (3)	22:24
8	09:10	08:21		08:54 (16)		07:12		06:47	07:43 (15)	05:32		06:38 (3)	04:42
	16:12	17:17	17	09:11 (16)		18:20		20:27	17	08:00 (15)	21:31	17	06:55 (3)	22:25
9	09:09	08:19		08:53 (16)		07:09		06:44	07:44 (15)	05:29		06:39 (3)	04:41
	16:13	17:19	20	09:13 (16)		18:22		20:29	14	07:58 (15)	21:33	14	06:53 (3)	22:26
10	09:09	08:17		08:51 (16)		07:06		06:42	07:48 (15)	05:27		06:41 (3)	04:41
	16:15	17:21	22	09:13 (16)		18:25		20:31	7	07:55 (15)	21:35	10	06:51 (3)	22:27
11	09:08	08:14		08:51 (16)		07:03		06:39			05:25			04:40
	16:17	17:23	23	09:14 (16)		18:27		20:33			21:38			22:28
12	09:07	08:12		08:50 (16)		07:01		06:36			05:23			04:39
	16:18	17:26	24	09:14 (16)		18:29		20:36			21:40			22:29
13	09:06	08:10		08:50 (16)		06:58		06:34			05:21			04:39
	16:20	17:28	25	09:15 (16)		18:31		20:38			21:42			22:30
14	09:05	08:08		08:50 (16)		06:55		06:31			05:19			04:39
	16:22	17:30	25	09:15 (16)		18:33		20:40			21:44			22:30
15	09:03	08:05		08:50 (16)		06:53		06:28			05:17			04:38
	16:24	17:33	26	09:16 (16)		18:35		20:42			21:46			22:31
16	09:02	08:03		08:50 (16)		06:50		06:26			05:15			04:38
	16:26	17:35	25	09:15 (16)		18:38		20:44			21:48			22:32
17	09:01	08:00		08:51 (16)		06:47		06:23			05:13			04:38
	16:28	17:37	24	09:15 (16)		18:40		20:46			21:50			22:32
18	09:00	07:58		08:51 (16)		06:44		06:20			05:11			04:38
	16:30	17:40	23	09:14 (16)		18:42		20:49			21:52			22:33
19	08:58	07:55		08:52 (16)		06:42		06:18			05:09			04:38
	16:32	17:42	22	09:14 (16)		18:44		20:51			21:53			22:33
20	08:57	07:53		08:52 (16)		06:39		06:15		06:45 (3)	05:07			04:38
	16:34	17:44	21	09:13 (16)		18:46		20:53	8	06:53 (3)	21:55			22:34
21	08:55	07:51		08:53 (16)		06:36		06:13		06:42 (3)	05:06			04:38
	16:36	17:46	18	09:11 (16)		18:48		20:55	15	06:57 (3)	21:57			22:34
22	08:54	07:48		08:55 (16)		06:34		06:10		06:40 (3)	05:04			04:38
	16:38	17:49	15	09:10 (16)		18:51		20:57	18	06:58 (3)	21:59			22:34
23	08:52	07:45		08:58 (16)		06:31		06:08		06:39 (3)	05:02			04:38
	16:40	17:51	8	09:06 (16)		18:53		20:59	20	06:59 (3)	22:01			22:34
24	08:51	07:43				06:28		06:05		06:37 (3)	05:00			04:39
	16:43	17:53				18:55		21:01	22	06:59 (3)	22:03			22:34
25	08:49	07:40				06:25		06:56 (15)	06:03		06:36 (3)	04:59			04:39
	16:45	17:56				18:57	1	06:57 (15)	21:04	24	07:00 (3)	22:04			22:34
26	08:47	07:38				06:23		06:50 (15)	06:00		06:36 (3)	04:57			04:39
	16:47	17:58				18:59	12	07:02 (15)	21:06	25	07:01 (3)	22:06			22:34
27	08:45	07:35				06:20		06:47 (15)	05:58		06:35 (3)	04:56			04:40
	16:49	18:00				19:01	16	07:03 (15)	21:08	26	07:01 (3)	22:08			22:34
28	08:44	07:33				06:17		06:46 (15)	05:55		06:35 (3)	04:54			04:40
	16:51	18:02				19:03	19	07:05 (15)	21:10	26	07:01 (3)	22:10			22:34
29	08:42					07:14		07:44 (15)	05:53		06:34 (3)	04:53			04:41
	16:54					20:06	22	08:06 (15)	21:12	27	07:01 (3)	22:11			22:33
30	08:40					07:12		07:43 (15)	05:50		06:35 (3)	04:52			04:42
	16:56					20:08	23	08:06 (15)	21:14	26	07:01 (3)	22:13			22:33
31	08:38					07:09		07:42 (15)				04:50			
	16:58					20:10	24	08:06 (15)				22:14			
Potential sun hours	231	264		366		428			512			534			
Total, worst case			361				117			440			207		
Sun reduction			0.33				0.46			0.55			0.61		
Oper. time red.			0.94				0.94			0.94			0.94		
Wind dir. red.			0.59				0.64			0.64			0.65		
Total reduction			0.19				0.27			0.33			0.37		
Total, real			67				32			145			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CC - Jaunzemji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August			September			October			November			December
1	04:43	05:30			06:34			07:36			07:43		08:21 (16)	08:47
	22:33	21:50			20:34			19:11			16:52	21	08:42 (16)	15:59
2	04:44	05:32		06:55 (3)	06:36		07:46 (15)	07:38			07:45		08:23 (16)	08:48
	22:32	21:48	4	06:59 (3)	20:31	7	07:53 (15)	19:09			16:49	19	08:42 (16)	15:58
3	04:44	05:34		06:50 (3)	06:38		07:42 (15)	07:40			07:48		08:23 (16)	08:50
	22:32	21:45	12	07:02 (3)	20:28	14	07:56 (15)	19:06			16:47	17	08:40 (16)	15:57
4	04:45	05:36		06:49 (3)	06:40		07:40 (15)	07:42			07:50		08:26 (16)	08:52
	22:31	21:43	15	07:04 (3)	20:26	17	07:57 (15)	19:03			16:45	13	08:39 (16)	15:56
5	04:46	05:38		06:47 (3)	06:42		07:38 (15)	07:44			07:52		08:28 (16)	08:53
	22:30	21:41	18	07:05 (3)	20:23	20	07:58 (15)	19:00			16:43	8	08:36 (16)	15:55
6	04:48	05:40		06:46 (3)	06:44		07:37 (15)	07:46			07:54			08:55
	22:29	21:39	21	07:07 (3)	20:20	22	07:59 (15)	18:58			16:41			15:55
7	04:49	05:42		06:46 (3)	06:46		07:36 (15)	07:48			07:57			08:57
	22:29	21:37	22	07:08 (3)	20:17	23	07:59 (15)	18:55			16:38			15:54
8	04:50	05:44		06:45 (3)	06:48		07:35 (15)	07:51			07:59			08:58
	22:28	21:34	23	07:08 (3)	20:15	25	08:00 (15)	18:52			16:36			15:53
9	04:51	05:46		06:44 (3)	06:50		07:35 (15)	07:53			08:01			08:59
	22:27	21:32	25	07:09 (3)	20:12	25	08:00 (15)	18:50			16:34			15:53
10	04:52	05:48		06:43 (3)	06:52		07:34 (15)	07:55			08:03			09:01
	22:26	21:30	25	07:08 (3)	20:09	25	07:59 (15)	18:47			16:32			15:52
11	04:54	05:50		06:42 (3)	06:55		07:34 (15)	07:57			08:06			09:02
	22:25	21:27	27	07:09 (3)	20:06	25	07:59 (15)	18:44			16:30			15:52
12	04:55	05:52		06:42 (3)	06:57		07:34 (15)	07:59			08:08			09:03
	22:23	21:25	27	07:09 (3)	20:04	24	07:58 (15)	18:42			16:28			15:52
13	04:57	05:55		06:42 (3)	06:59		07:34 (15)	08:01			08:10			09:05
	22:22	21:22	27	07:09 (3)	20:01	23	07:57 (15)	18:39			16:26			15:51
14	04:58	05:57		06:42 (3)	07:01		07:34 (15)	08:03			08:12			09:06
	22:21	21:20	27	07:09 (3)	19:58	22	07:56 (15)	18:36			16:24			15:51
15	05:00	05:59		06:42 (3)	07:03		07:35 (15)	08:06			08:14			09:07
	22:20	21:18	26	07:08 (3)	19:55	20	07:55 (15)	18:34			16:22			15:51
16	05:01	06:01		06:42 (3)	07:05		07:36 (15)	08:08			08:17			09:08
	22:18	21:15	26	07:08 (3)	19:53	17	07:53 (15)	18:31			16:21			15:51
17	05:03	06:03		06:43 (3)	07:07		07:38 (15)	08:10			08:19			09:09
	22:17	21:13	25	07:08 (3)	19:50	13	07:51 (15)	18:29			16:19			15:51
18	05:04	06:05		06:43 (3)	07:09		07:41 (15)	08:12			08:21			09:10
	22:15	21:10	24	07:07 (3)	19:47	6	07:47 (15)	18:26			16:17			15:51
19	05:06	06:07		06:44 (3)	07:11			08:14		09:28 (16)	08:23			09:10
	22:14	21:08	22	07:06 (3)	19:44			18:23	10	09:38 (16)	16:15			15:52
20	05:08	06:09		06:45 (3)	07:13			08:16		09:25 (16)	08:25			09:11
	22:12	21:05	20	07:05 (3)	19:42			18:21	15	09:40 (16)	16:14			15:52
21	05:09	06:11		06:46 (3)	07:15			08:19		09:24 (16)	08:27			09:12
	22:10	21:03	17	07:03 (3)	19:39			18:18	19	09:43 (16)	16:12			15:52
22	05:11	06:13		06:48 (3)	07:17			08:21		09:22 (16)	08:29			09:12
	22:09	21:00	13	07:01 (3)	19:36			18:16	21	09:43 (16)	16:11			15:53
23	05:13	06:15		06:51 (3)	07:19			08:23		09:21 (16)	08:31			09:13
	22:07	20:57	6	06:57 (3)	19:33			18:13	23	09:44 (16)	16:09			15:53
24	05:15	06:17			07:21			08:25		09:21 (16)	08:33			09:13
	22:05	20:55			19:31			18:11	24	09:45 (16)	16:08			15:54
25	05:17	06:19			07:23			07:27		08:20 (16)	08:35			09:13
	22:03	20:52			19:28			17:08	25	08:45 (16)	16:06			15:54
26	05:19	06:22			07:25			07:30		08:20 (16)	08:37			09:14
	22:02	20:50			19:25			17:06	25	08:45 (16)	16:05			15:55
27	05:20	06:24			07:27			07:32		08:20 (16)	08:39			09:14
	22:00	20:47			19:22			17:04	25	08:45 (16)	16:03			15:56
28	05:22	06:26			07:30			07:34		08:19 (16)	08:41			09:14
	21:58	20:44			19:20			17:01	25	08:44 (16)	16:02			15:57
29	05:24	06:28			07:32			07:36		08:20 (16)	08:43			09:14
	21:56	20:42			19:17			16:59	25	08:45 (16)	16:01			15:58
30	05:26	06:30			07:34			07:39		08:20 (16)	08:45			09:14
	21:54	20:39			19:14			16:56	24	08:44 (16)	16:00			15:59
31	05:28	06:32						07:41		08:21 (16)				09:14
	21:52	20:36						16:54	23	08:44 (16)				16:00
Potential sun hours	534	472			385			322			244			211
Total, worst case			452			328			284			78		
Sun reduction			0.59			0.50			0.42			0.23		
Oper. time red.			0.94			0.94			0.94			0.94		
Wind dir. red.			0.65			0.64			0.59			0.59		
Total reduction			0.36			0.30			0.23			0.13		
Total, real			161			97			67			10		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CD - Jorgi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March		April	May	June	July	August	September		October	November	December
1	09:13	08:35	07:29		07:05	05:47	04:48	04:42	05:29	06:33		07:35	07:42	08:46
	16:01	17:00	18:04		20:11	21:16	22:15	22:32	21:49	20:33		19:11	16:51	15:58
2	09:13	08:33	07:27		07:03	05:45	04:47	04:43	05:31	06:35		07:37	07:45	08:48
	16:02	17:02	18:06		20:13	21:18	22:16	22:31	21:47	20:30		19:08	16:49	15:57
3	09:12	08:31	07:24		07:00	05:42	04:46	04:44	05:33	06:37		07:39	07:47	08:49
	16:03	17:04	18:08		20:16	21:20	22:18	22:31	21:45	20:27		19:05	16:46	15:56
4	09:12	08:29	07:21		06:57	05:40	04:45	04:45	05:35	06:39		07:41	07:49	08:51
	16:05	17:06	18:10		20:18	21:22	22:19	22:30	21:42	20:25		19:02	16:44	15:55
5	09:11	08:27	07:19		06:54	05:38	04:44	04:46	05:37	06:41		07:43	07:51	08:53
	16:06	17:09	18:13		20:20	21:24	22:21	22:29	21:40	20:22		19:00	16:42	15:54
6	09:11	08:25	07:16		06:52	05:35	04:43	04:47	05:39	06:43		07:46	07:54	08:54
	16:08	17:11	18:15		20:22	21:26	22:22	22:29	21:38	20:19		18:57	16:40	15:54
7	09:10	08:23	07:13		06:49	05:33	04:42	04:48	05:41	06:46		07:48	07:56	08:56
	16:09	17:13	18:17		20:24	21:28	22:23	22:28	21:36	20:17		18:54	16:38	15:53
8	09:09	08:20	07:11		06:46	05:31	04:41	04:49	05:43	06:48		07:50	07:58	08:57
	16:11	17:16	18:19		20:26	21:31	22:24	22:27	21:33	20:14		18:52	16:35	15:52
9	09:09	08:18	07:08		06:44	05:29	04:40	04:50	05:45	06:50		07:52	08:00	08:59
	16:12	17:18	18:22		20:28	21:33	22:25	22:26	21:31	20:11		18:49	16:33	15:52
10	09:08	08:16	07:05		06:41	05:26	04:40	04:52	05:48	06:52		07:54	08:03	09:00
	16:14	17:20	18:24		20:31	21:35	22:26	22:25	21:29	20:08		18:46	16:31	15:51
11	09:07	08:14	07:03		06:38	05:24	04:39	04:53	05:50	06:54		07:56	08:05	09:01
	16:16	17:23	18:26		20:33	21:37	22:27	22:24	21:26	20:06		18:44	16:29	15:51
12	09:06	08:11	07:00		06:36	05:22	04:39	04:54	05:52	06:56		07:58	08:07	09:03
	16:18	17:25	18:28		20:35	21:39	22:28	22:23	21:24	20:03		18:41	16:27	15:51
13	09:05	08:09	06:57		06:33	05:20	04:38	04:56	05:54	06:58		08:00	08:09	09:04
	16:19	17:27	18:30		20:37	21:41	22:29	22:21	21:22	20:00		18:38	16:25	15:50
14	09:04	08:07	06:55		18:00 (38)	06:30	05:18	04:38	04:57	05:56	07:00		08:03	08:11	09:05
	16:21	17:30	18:32	3	18:03 (38)	20:39	21:43	22:30	22:20	21:19	19:57		18:36	16:23	15:50
15	09:03	08:04	06:52		17:59 (38)	06:28	05:16	04:37	04:59	05:58	07:02		08:05	08:14	09:06
	16:23	17:32	18:35	7	18:06 (38)	20:41	21:45	22:30	22:19	21:17	19:55		18:33	16:22	15:50
16	09:01	08:02	06:49		17:57 (38)	06:25	05:14	04:37	05:00	06:00	07:04	18:50 (38)	08:07	08:16	09:07
	16:25	17:34	18:37	11	18:08 (38)	20:43	21:47	22:31	22:17	21:14	19:52	5 18:55 (38)	18:30	16:20	15:50
17	09:00	08:00	06:46		17:56 (38)	06:22	05:12	04:37	05:02	06:02	07:06	18:46 (38)	08:09	08:18	09:08
	16:27	17:37	18:39	14	18:10 (38)	20:46	21:49	22:32	22:16	21:12	19:49	12 18:58 (38)	18:28	16:18	15:50
18	08:59	07:57	06:44		17:55 (38)	06:20	05:10	04:37	05:04	06:04	07:08	18:43 (38)	08:11	08:20	09:09
	16:29	17:39	18:41	17	18:12 (38)	20:48	21:51	22:32	22:14	21:09	19:46	17 19:00 (38)	18:25	16:16	15:50
19	08:57	07:55	06:41		17:55 (38)	06:17	05:08	04:37	05:05	06:06	07:10	18:42 (38)	08:13	08:22	09:10
	16:31	17:41	18:43	20	18:15 (38)	20:50	21:53	22:32	22:13	21:07	19:44	19 19:01 (38)	18:23	16:15	15:51
20	08:56	07:52	06:38		17:54 (38)	06:14	05:07	04:37	05:07	06:08	07:12	18:40 (38)	08:16	08:24	09:10
	16:33	17:43	18:45	23	18:17 (38)	20:52	21:55	22:33	22:11	21:04	19:41	21 19:01 (38)	18:20	16:13	15:51
21	08:55	07:50	06:35		17:54 (38)	06:12	05:05	04:37	05:09	06:10	07:14	18:39 (38)	08:18	08:26	09:11
	16:35	17:46	18:48	23	18:17 (38)	20:54	21:56	22:33	22:10	21:02	19:38	22 19:01 (38)	18:18	16:11	15:51
22	08:53	07:47	06:33		17:53 (38)	06:09	05:03	04:37	05:10	06:12	07:16	18:38 (38)	08:20	08:28	09:11
	16:37	17:48	18:50	23	18:16 (38)	20:56	21:58	22:33	22:08	20:59	19:35	23 19:01 (38)	18:15	16:10	15:52
23	08:51	07:45	06:30		17:54 (38)	06:07	05:01	04:37	05:12	06:14	07:18	18:38 (38)	08:22	08:31	09:12
	16:40	17:50	18:52	22	18:16 (38)	20:59	22:00	22:33	22:06	20:57	19:33	23 19:01 (38)	18:13	16:08	15:52
24	08:50	07:42	06:27		17:55 (38)	06:04	05:00	04:38	05:14	06:17	07:20	18:37 (38)	08:24	08:33	09:12
	16:42	17:52	18:54	19	18:14 (38)	21:01	22:02	22:33	22:04	20:54	19:30	22 18:59 (38)	18:10	16:07	15:53
25	08:48	07:40	06:24		17:55 (38)	06:02	04:58	04:38	05:16	06:19	07:23	18:37 (38)	08:27	08:35	09:13
	16:44	17:55	18:56	18	18:13 (38)	21:03	22:04	22:33	22:03	20:51	19:27	19 18:56 (38)	17:08	16:05	15:54
26	08:46	07:37	06:22		17:57 (38)	05:59	04:56	04:39	05:18	06:21	07:25	18:38 (38)	07:29	08:37	09:13
	16:46	17:57	18:58	13	18:10 (38)	21:05	22:05	22:33	22:01	20:49	19:24	16 18:54 (38)	17:05	16:04	15:54
27	08:45	07:34	06:19		18:00 (38)	05:57	04:55	04:39	05:20	06:23	07:27	18:39 (38)	07:31	08:38	09:13
	16:48	17:59	19:01	8	18:08 (38)	21:07	22:07	22:33	21:59	20:46	19:22	12 18:51 (38)	17:03	16:03	15:55
28	08:43	07:32	06:16			05:54	04:53	04:40	05:22	06:25	07:29	18:39 (38)	07:33	08:40	09:13
	16:51	18:02	19:03			21:09	22:09	22:33	21:57	20:44	19:19	9 18:48 (38)	17:00	16:01	15:56
29	08:41		07:13			05:52	04:52	04:40	05:23	06:27	07:31	18:40 (38)	07:36	08:42	09:13
	16:53		20:05			21:11	22:10	22:33	21:55	20:41	19:16	5 18:45 (38)	16:58	16:00	15:57
30	08:39		07:11			05:49	04:51	04:41	05:25	06:29	07:33		07:38	08:44	09:13
	16:55		20:07			21:14	22:12	22:32	21:53	20:38	19:13		16:56	15:59	15:58
31	08:37		07:08				04:49		05:27	06:31			07:40		09:13
	16:57		20:09				22:14		21:51	20:36			16:53		15:59
Potential sun hours	231	264	366		428	512	534	534	472	385		322	244	211
Total, worst case				221							225			
Sun reduction				0.46							0.50			
Oper. time red.				0.94							0.94			
Wind dir. red.				0.64							0.64			
Total reduction				0.28							0.30			
Total, real				61							68			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CE - Josati

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:05 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	23 08:28 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:05 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	22 08:27 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:06 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	21 08:27 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	08:06 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20 08:26 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	08:06 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:13	19 08:25 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	08:07 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	08:47 (41)	07:54	08:55
	16:08	17:12	18:16	16 08:23 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58	9 08:56 (41)	16:41	15:54
7	09:11	08:24	07:14	08:10 (41)	06:50	05:34	04:43	04:49	05:42	06:46	07:48	08:44 (41)	07:57	08:57
	16:10	17:14	18:18	11 08:21 (41)	20:25	21:29	22:24	22:29	21:37	20:17	18:55	14 08:58 (41)	16:38	15:54
8	09:10	08:21	07:12	08:14 (41)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:42 (41)	07:59	08:58
	16:11	17:16	18:20	2 08:16 (41)	20:27	21:31	22:25	22:28	21:34	20:15	18:52	17 08:59 (41)	16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:41 (41)	08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50	19 09:00 (41)	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:39 (41)	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47	21 09:00 (41)	16:32	15:52
11	09:08	08:15	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:39 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44	22 09:01 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:39 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42	22 09:01 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:38 (41)	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39	23 09:01 (41)	16:26	15:51
14	09:05	08:08	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:38 (41)	08:12	09:06
	16:22	17:30	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36	22 09:00 (41)	16:24	15:51
15	09:04	08:05	06:53		06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:39 (41)	08:14	09:07
	16:24	17:33	18:35		20:42	21:46	22:31	22:20	21:18	19:55	2 08:02 (42)	18:34	21 09:00 (41)	16:22	15:51
16	09:02	08:03	06:50	07:16 (42)	06:26	05:15	04:38	05:01	06:01	07:05	07:55 (42)	08:08	08:39 (41)	08:17	09:08
	16:26	17:35	18:38	3 07:19 (42)	20:44	21:48	22:32	22:18	21:15	19:53	11 08:06 (42)	18:31	20 08:59 (41)	16:20	15:51
17	09:01	08:00	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07	07:53 (42)	08:10	08:40 (41)	08:19	09:09
	16:28	17:37	18:40	8 07:21 (42)	20:46	21:50	22:32	22:17	21:13	19:50	14 08:07 (42)	18:29	18 08:58 (41)	16:19	15:51
18	09:00	07:58	06:44	07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09	07:51 (42)	08:12	08:43 (41)	08:21	09:10
	16:30	17:40	18:42	12 07:22 (42)	20:49	21:52	22:33	22:15	21:10	19:47	17 08:08 (42)	18:26	14 08:57 (41)	16:17	15:51
19	08:58	07:56	06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:50 (42)	08:14	08:45 (41)	08:23	09:10
	16:32	17:42	18:44	15 07:22 (42)	20:51	21:54	22:33	22:14	21:08	19:44	19 08:09 (42)	18:23	10 08:55 (41)	16:15	15:51
20	08:57	07:53	06:39	07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:49 (42)	08:16	08:47 (41)	08:25	09:11
	16:34	17:44	18:46	19 07:24 (42)	20:53	21:55	22:34	22:12	21:05	19:42	20 08:09 (42)	18:21	4 08:51 (41)	16:14	15:52
21	08:55	07:51	06:36	07:04 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:49 (42)	08:19		08:27	09:12
	16:36	17:46	18:48	19 07:23 (42)	20:55	21:57	22:34	22:11	21:03	19:39	20 08:09 (42)	18:18		16:12	15:52
22	08:54	07:48	06:34	07:03 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:48 (42)	08:21		08:29	09:12
	16:38	17:49	6 08:22 (41)	18:51	20 07:23 (42)	20:57	21:59	22:34	22:09	21:00	19:36	20 08:08 (42)	18:16		16:10	15:52
23	08:52	07:46	08:13 (41)	06:31	07:03 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:48 (42)	08:23		08:31	09:13
	16:40	17:51	11 08:24 (41)	18:53	19 07:22 (42)	20:59	22:01	22:34	22:07	20:57	19:33	19 08:07 (42)	18:13		16:09	15:53
24	08:51	07:43	08:10 (41)	06:28	07:03 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:50 (42)	08:25		08:33	09:13
	16:42	17:53	15 08:25 (41)	18:55	19 07:22 (42)	21:02	22:03	22:34	22:05	20:55	19:31	16 08:06 (42)	18:11		16:07	15:54
25	08:49	07:40	08:08 (41)	06:25	07:04 (42)	06:03	04:59	04:39	05:17	06:19	07:23	07:52 (42)	07:28		08:35	09:14
	16:45	17:56	19 08:27 (41)	18:57	17 07:21 (42)	21:04	22:05	22:34	22:04	20:52	19:28	13 08:05 (42)	17:08		16:06	15:54
26	08:47	07:38	08:06 (41)	06:23	07:04 (42)	06:00	04:57	04:39	05:18	06:21	07:25	07:54 (42)	07:30		08:37	09:14
	16:47	17:58	21 08:27 (41)	18:59	15 07:19 (42)	21:06	22:06	22:34	22:02	20:50	19:25	9 08:03 (42)	17:06		16:05	15:55
27	08:45	07:35	08:06 (41)	06:20	07:05 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:56 (42)	07:32		08:39	09:14
	16:49	18:00	21 08:27 (41)	19:01	12 07:17 (42)	21:08	22:08	22:34	22:00	20:47	19:22	5 08:01 (42)	17:04		16:03	15:56
28	08:44	07:33	08:06 (41)	06:17	07:09 (42)	05:55	04:54	04:40	05:22	06:26	07:30		07:34		08:41	09:14
	16:51	18:02	22 08:28 (41)	19:03	5 07:14 (42)	21:10	22:10	22:34	21:58	20:44	19:20		17:01		16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32		07:36		08:43	09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17		16:59		16:01	15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14		16:56		16:00	15:59
31	08:38			07:09			04:50		05:28	06:32			07:41			09:14
	16:58			20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385		322		244	211
Total, worst case			115		317							185		256		
Sun reduction			0.33		0.46							0.50		0.42		
Oper. time red.			0.94		0.94							0.94		0.94		
Wind dir. red.			0.60		0.61							0.62		0.60		
Total reduction			0.19		0.26							0.29		0.24		
Total, real			22		84							54		61		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CF - Jostnieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:13		12:40 (36)	08:36		14:45 (35)	07:30	07:06	05:47	04:48	04:42	05:29	06:33	07:35	07:43			08:46		14:23 (35)
	16:01	40	15:00 (35)	17:00	33	15:18 (35)	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:51			15:58	29	14:52 (35)
2	09:13		12:40 (36)	08:34		14:46 (35)	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45		14:32 (35)	08:48		12:34 (36)
	16:02	39	15:00 (35)	17:02	32	15:18 (35)	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49	1	14:33 (35)	15:57	35	14:52 (35)
3	09:13		12:41 (36)	08:31		14:48 (35)	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47		14:26 (35)	08:50		12:32 (36)
	16:03	40	15:01 (35)	17:04	30	15:18 (35)	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	14	14:40 (35)	15:56	39	14:52 (35)
4	09:12		12:42 (36)	08:29		14:48 (35)	07:22	06:57	05:40	04:45	04:45	05:35	06:40	07:42	07:49		14:23 (35)	08:51		12:31 (36)
	16:05	42	15:03 (35)	17:07	28	15:16 (35)	18:11	20:18	21:22	22:20	22:31	21:43	20:25	19:03	16:44	19	14:42 (35)	15:55	40	14:51 (35)
5	09:12		12:43 (36)	08:27		14:50 (35)	07:19	06:55	05:38	04:44	04:46	05:37	06:42	07:44	07:52		14:21 (35)	08:53		12:30 (36)
	16:06	41	15:04 (35)	17:09	25	15:15 (35)	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	23	14:44 (35)	15:55	41	14:51 (35)
6	09:11		12:44 (36)	08:25		14:52 (35)	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54		14:19 (35)	08:55		12:30 (36)
	16:08	41	15:05 (35)	17:11	22	15:14 (35)	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40	26	14:45 (35)	15:54	41	14:51 (35)
7	09:11		12:45 (36)	08:23		14:54 (35)	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56		14:19 (35)	08:56		12:30 (36)
	16:09	41	15:06 (35)	17:14	18	15:12 (35)	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38	28	14:47 (35)	15:53	41	14:51 (35)
8	09:10		12:47 (36)	08:21		14:57 (35)	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58		14:17 (35)	08:58		12:29 (36)
	16:11	40	15:07 (35)	17:16	13	15:10 (35)	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	31	14:48 (35)	15:53	42	14:50 (35)
9	09:09		12:49 (36)	08:19			07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01		14:17 (35)	08:59		12:30 (36)
	16:12	38	15:08 (35)	17:18			18:22	20:29	21:33	22:26	22:26	21:32	20:11	18:49	16:34	32	14:49 (35)	15:52	41	14:51 (35)
10	09:08		12:51 (36)	08:16			07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03		14:16 (35)	09:00		12:29 (36)
	16:14	36	15:10 (35)	17:21			18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:46	16:32	33	14:49 (35)	15:52	40	14:50 (35)
11	09:07		14:41 (35)	08:14			07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05		14:16 (35)	09:02		12:30 (36)
	16:16	29	15:10 (35)	17:23			18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:29	34	14:50 (35)	15:51	40	14:50 (35)
12	09:06		14:41 (35)	08:12			07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07		14:15 (35)	09:03		12:30 (36)
	16:18	30	15:11 (35)	17:25			18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:28	35	14:50 (35)	15:51	38	14:49 (35)
13	09:05		14:41 (35)	08:09			06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10		14:16 (35)	09:04		12:30 (36)
	16:20	31	15:12 (35)	17:27			18:31	20:37	21:41	22:29	22:22	21:22	20:00	18:39	16:26	35	14:51 (35)	15:51	36	14:48 (35)
14	09:04		14:41 (35)	08:07			06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12		14:15 (35)	09:05		12:31 (36)
	16:21	32	15:13 (35)	17:30			18:33	20:39	21:43	22:30	22:21	21:20	19:58	18:36	16:24	36	14:51 (35)	15:50	36	14:49 (35)
15	09:03		14:41 (35)	08:05			06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14		14:16 (35)	09:06		12:31 (36)
	16:23	33	15:14 (35)	17:32			18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	36	14:52 (35)	15:50	33	14:48 (35)
16	09:02		14:41 (35)	08:02			06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16		14:15 (35)	09:07		12:31 (36)
	16:25	33	15:14 (35)	17:34			18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	37	14:52 (35)	15:50	33	14:48 (35)
17	09:01		14:41 (35)	08:00			06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18		14:16 (35)	09:08		12:31 (36)
	16:27	34	15:15 (35)	17:37			18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	37	14:53 (35)	15:50	31	14:47 (35)
18	08:59		14:41 (35)	07:57			06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:20		14:16 (35)	09:09		12:31 (36)
	16:29	35	15:16 (35)	17:39			18:41	20:48	21:51	22:32	22:15	21:10	19:47	18:25	16:16	37	14:53 (35)	15:51	26	12:57 (36)
19	08:58		14:41 (35)	07:55			06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:23		14:15 (35)	09:10		12:31 (36)
	16:31	35	15:16 (35)	17:41			18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	37	14:52 (35)	15:51	27	12:58 (36)
20	08:56		14:42 (35)	07:53			06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25		14:16 (35)	09:11		12:32 (36)
	16:33	35	15:17 (35)	17:44			18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	37	14:53 (35)	15:51	27	12:59 (36)
21	08:55		14:41 (35)	07:50			06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		14:16 (35)	09:11		12:32 (36)
	16:35	37	15:18 (35)	17:46			18:48	20:55	21:57	22:33	22:10	21:02	19:38	18:18	16:11	37	14:53 (35)	15:51	27	12:59 (36)
22	08:53		14:41 (35)	07:48			06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		14:18 (35)	09:12		12:33 (36)
	16:38	37	15:18 (35)	17:48			18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10	35	14:53 (35)	15:52	27	13:00 (36)
23	08:52		14:41 (35)	07:45			06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31		14:18 (35)	09:12		12:33 (36)
	16:40	37	15:18 (35)	17:50			18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	35	14:53 (35)	15:52	27	13:00 (36)
24	08:50		14:42 (35)	07:42			06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:18 (35)	09:13		12:34 (36)
	16:42	37	15:19 (35)	17:53			18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	35	14:53 (35)	15:53	27	13:01 (36)
25	08:48		14:42 (35)	07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:18 (35)	09:13		12:35 (36)
	16:44	37	15:19 (35)	17:55			18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	35	14:53 (35)	15:54	26	13:01 (36)
26	08:47		14:42 (35)	07:37			06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37		14:20 (35)	09:13		12:35 (36)
	16:46	37	15:19 (35)	17:57			18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	33	14:53 (35)	15:54	30	14:50 (35)
27	08:45		14:43 (35)	07:35			06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39		14:20 (35)	09:14		12:36 (36)
	16:48	36	15:19 (35)	18:00			19:01	21:07	22:08	22:34	21:59	20:46	19:22	17:03	16:03	33	14:53 (35)	15:55	32	14:52 (35)
28	08:43		14:43 (35)	07:32			06:16	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:21 (35)	09:14		12:36 (36)
	16:51	36	15:19 (35)	18:02			19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	32	14:53 (35)	15:56	34	14:54 (35)
29	08:41		14:44 (35)				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		14:22 (35)	09:14		12:37 (36)
	16:53	36	15:20 (35)				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	30	14:52 (35)	15:57	36	14:55 (35)
30	08:39		14:45 (35)				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:22 (35)	09:14		12:37 (36)
	16:55	35	15:20 (35)				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	30	14:52 (35)	15:58	37	14:56 (35)
31	08:37		14:44 (35)				07:08		04:50		05:28	06:31		07:40				09:14		12:38 (36)
	16:57	34	15:18 (35)				20:09		22:14		21:51	20:36		16:53				15:59	39	14:58 (35)
Potential sun hours	231			264			366	428	512	534	534	472	385	322	244			211		
Total, worst case		1124			201											903			1058	
Sun reduction		0.28			0.33											0.23			0.23	
Oper. time red.		0.94			0.94											0.94			0.94	
Wind dir. red.		0.68			0.69											0.69			0.67	
Total reduction		0.18			0.22											0.15			0.14	
Total, real		198			43											134			151	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CG - Jostnieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:13		12:39 (36)	08:36	14:55 (35)	07:30	07:06	05:47	04:48
	16:01	30	13:09 (36)	17:00	39	15:34 (35)	18:04	20:12	21:16	22:15
2	09:13		12:39 (36)	08:33	14:55 (35)	07:27	07:03	05:45	04:47
	16:02	30	13:09 (36)	17:02	40	15:35 (35)	18:06	20:14	21:18	22:17
3	09:13		12:39 (36)	08:31	14:56 (35)	07:24	07:00	05:42	04:46
	16:03	30	13:09 (36)	17:04	39	15:35 (35)	18:08	20:16	21:20	22:18
4	09:12		12:41 (36)	08:29	14:56 (35)	07:22	06:57	05:40	04:45
	16:05	29	13:10 (36)	17:07	38	15:34 (35)	18:11	20:18	21:22	22:20
5	09:12		12:41 (36)	08:27	14:57 (35)	07:19	06:55	05:38	04:44
	16:06	29	13:10 (36)	17:09	37	15:34 (35)	18:13	20:20	21:25	22:21
6	09:11		12:42 (36)	08:25	14:58 (35)	07:16	06:52	05:36	04:43
	16:08	28	13:10 (36)	17:11	36	15:34 (35)	18:15	20:22	21:27	22:22
7	09:11		12:43 (36)	08:23	14:58 (35)	07:14	06:49	05:33	04:42
	16:09	27	13:10 (36)	17:14	35	15:33 (35)	18:17	20:24	21:29	22:23
8	09:10		12:44 (36)	08:21	14:59 (35)	07:11	06:46	05:31	04:41
	16:11	26	13:10 (36)	17:16	34	15:33 (35)	18:20	20:27	21:31	22:24
9	09:09		12:45 (36)	08:19	14:59 (35)	07:08	06:44	05:29	04:41
	16:12	25	13:10 (36)	17:18	32	15:31 (35)	18:22	20:29	21:33	22:26
10	09:08		12:46 (36)	08:16	15:01 (35)	07:06	06:41	05:27	04:40
	16:14	32	15:13 (35)	17:21	30	15:31 (35)	18:24	20:31	21:35	22:27
11	09:07		12:47 (36)	08:14	15:02 (35)	07:03	06:38	05:25	04:39
	16:16	35	15:15 (35)	17:23	27	15:29 (35)	18:26	20:33	21:37	22:28
12	09:06		12:48 (36)	08:12	15:04 (35)	07:00	06:36	05:22	04:39
	16:18	37	15:17 (35)	17:25	24	15:28 (35)	18:28	20:35	21:39	22:28
13	09:05		12:50 (36)	08:09	15:06 (35)	06:58	06:33	05:20	04:38
	16:20	36	15:19 (35)	17:27	20	15:26 (35)	18:31	20:37	21:41	22:29
14	09:04		12:52 (36)	08:07	15:10 (35)	06:55	06:30	05:18	04:38
	16:21	36	15:20 (35)	17:30	13	15:23 (35)	18:33	20:39	21:43	22:30
15	09:03		12:55 (36)	08:05		06:52	06:28	05:16	04:38
	16:23	33	15:22 (35)	17:32		18:35	20:42	21:45	22:31
16	09:02		14:57 (35)	08:02		06:49	06:25	05:14	04:37
	16:25	26	15:23 (35)	17:34		18:37	20:44	21:47	22:31
17	09:01		14:57 (35)	08:00		06:47	06:23	05:12	04:37
	16:27	28	15:25 (35)	17:37		18:39	20:46	21:49	22:32
18	08:59		14:56 (35)	07:57		06:44	06:20	05:10	04:37
	16:29	30	15:26 (35)	17:39		18:41	20:48	21:51	22:32
19	08:58		14:56 (35)	07:55		06:41	06:17	05:08	04:37
	16:31	31	15:27 (35)	17:41		18:44	20:50	21:53	22:33
20	08:56		14:56 (35)	07:53		06:38	06:15	05:07	04:37
	16:33	32	15:28 (35)	17:44		18:46	20:52	21:55	22:33
21	08:55		14:56 (35)	07:50		06:36	06:12	05:05	04:37
	16:35	33	15:29 (35)	17:46		18:48	20:55	21:57	22:33
22	08:53		14:55 (35)	07:48		06:33	06:10	05:03	04:37
	16:38	35	15:30 (35)	17:48		18:50	20:57	21:59	22:34
23	08:52		14:55 (35)	07:45		06:30	06:07	05:01	04:37
	16:40	36	15:31 (35)	17:50		18:52	20:59	22:01	22:34
24	08:50		14:55 (35)	07:42		06:27	06:04	05:00	04:38
	16:42	36	15:31 (35)	17:53		18:54	21:01	22:02	22:34
25	08:48		14:54 (35)	07:40		06:25	06:02	04:58	04:38
	16:44	38	15:32 (35)	17:55		18:57	21:03	22:04	22:34
26	08:47		14:54 (35)	07:37		06:22	05:59	04:57	04:39
	16:46	38	15:32 (35)	17:57		18:59	21:05	22:06	22:34
27	08:45		14:54 (35)	07:35		06:19	05:57	04:55	04:39
	16:48	39	15:33 (35)	18:00		19:01	21:07	22:07	22:34
28	08:43		14:54 (35)	07:32		06:16	05:55	04:54	04:40
	16:51	40	15:34 (35)	18:02		19:03	21:10	22:09	22:33
29	08:41		14:55 (35)			07:14	05:52	04:52	04:40
	16:53	39	15:34 (35)			20:05	21:12	22:11	22:33
30	08:39		14:55 (35)			07:11	05:50	04:51	04:41
	16:55	40	15:35 (35)			20:07	21:14	22:12	22:33
31	08:37		14:54 (35)			07:08		04:50	
	16:57	40	15:34 (35)			20:09		22:14	
Potential sun hours	231			264		366	428	512	534
Total, worst case		1024			444				
Sun reduction		0.28			0.33				
Oper. time red.		0.94			0.94				
Wind dir. red.		0.68			0.69				
Total reduction		0.18			0.22				
Total, real		179			95				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CG - Jostnieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:30 (35)	08:46		12:29 (36)
	22:32	21:49	20:33	19:11			16:51	31	15:01 (35)	15:58	35	14:57 (35)
2	04:43	05:31	06:35	07:37			07:45		14:29 (35)	08:48		12:28 (36)
	22:32	21:47	20:30	19:08			16:49	32	15:01 (35)	15:57	32	14:55 (35)
3	04:44	05:33	06:38	07:39			07:47		14:28 (35)	08:50		12:28 (36)
	22:31	21:45	20:28	19:05			16:47	35	15:03 (35)	15:56	25	12:53 (36)
4	04:45	05:35	06:40	07:42			07:49		14:27 (35)	08:51		12:28 (36)
	22:31	21:43	20:25	19:03			16:44	36	15:03 (35)	15:55	26	12:54 (36)
5	04:46	05:38	06:42	07:44			07:52		14:27 (35)	08:53		12:28 (36)
	22:30	21:41	20:22	19:00			16:42	37	15:04 (35)	15:55	27	12:55 (36)
6	04:47	05:40	06:44	07:46			07:54		14:26 (35)	08:55		12:28 (36)
	22:29	21:38	20:20	18:57			16:40	38	15:04 (35)	15:54	28	12:56 (36)
7	04:48	05:42	06:46	07:48			07:56		14:26 (35)	08:56		12:29 (36)
	22:28	21:36	20:17	18:55			16:38	39	15:05 (35)	15:53	28	12:57 (36)
8	04:49	05:44	06:48	07:50			07:58		14:26 (35)	08:58		12:28 (36)
	22:27	21:34	20:14	18:52			16:36	39	15:05 (35)	15:53	29	12:57 (36)
9	04:50	05:46	06:50	07:52			08:01		14:26 (35)	08:59		12:29 (36)
	22:26	21:32	20:11	18:49			16:34	39	15:05 (35)	15:52	29	12:58 (36)
10	04:52	05:48	06:52	07:54			08:03		14:26 (35)	09:00		12:28 (36)
	22:25	21:29	20:09	18:46			16:32	39	15:05 (35)	15:52	30	12:58 (36)
11	04:53	05:50	06:54	07:56			08:05		14:26 (35)	09:02		12:29 (36)
	22:24	21:27	20:06	18:44			16:29	40	15:06 (35)	15:51	31	13:00 (36)
12	04:54	05:52	06:56	07:59			08:07		14:26 (35)	09:03		12:29 (36)
	22:23	21:24	20:03	18:41			16:28	39	15:05 (35)	15:51	31	13:00 (36)
13	04:56	05:54	06:58	08:01			08:10		14:27 (35)	09:04		12:29 (36)
	22:22	21:22	20:00	18:39			16:26	39	15:06 (35)	15:51	31	13:00 (36)
14	04:57	05:56	07:00	08:03			08:12		14:26 (35)	09:05		12:30 (36)
	22:21	21:20	19:58	18:36			16:24	39	15:05 (35)	15:50	32	13:02 (36)
15	04:59	05:58	07:02	08:05			08:14		14:27 (35)	09:06		12:30 (36)
	22:19	21:17	19:55	18:33			16:22	39	15:06 (35)	15:50	32	13:02 (36)
16	05:00	06:00	07:04	08:07			08:16		14:27 (35)	09:07		12:30 (36)
	22:18	21:15	19:52	18:31			16:20	38	15:05 (35)	15:50	33	13:03 (36)
17	05:02	06:02	07:06	08:09			08:18		14:28 (35)	09:08		12:31 (36)
	22:16	21:12	19:49	18:28			16:18	38	15:06 (35)	15:50	32	13:03 (36)
18	05:04	06:04	07:08	08:12			08:20		14:29 (35)	09:09		12:30 (36)
	22:15	21:10	19:47	18:25			16:16	36	15:05 (35)	15:51	33	13:03 (36)
19	05:05	06:06	07:10	08:14			08:23		14:29 (35)	09:10		12:31 (36)
	22:13	21:07	19:44	18:23			16:15	36	15:05 (35)	15:51	33	13:04 (36)
20	05:07	06:08	07:12	08:16			08:25		14:30 (35)	09:11		12:32 (36)
	22:12	21:05	19:41	18:20			16:13	35	15:05 (35)	15:51	32	13:04 (36)
21	05:09	06:11	07:15	08:18			08:27		14:31 (35)	09:11		12:32 (36)
	22:10	21:02	19:38	18:18			16:11	33	15:04 (35)	15:51	32	13:04 (36)
22	05:11	06:13	07:17	08:20			08:29		14:32 (35)	09:12		12:33 (36)
	22:08	21:00	19:36	18:15			16:10	32	15:04 (35)	15:52	32	13:05 (36)
23	05:12	06:15	07:19	08:23			08:31		14:33 (35)	09:12		12:33 (36)
	22:07	20:57	19:33	18:13			16:08	31	15:04 (35)	15:52	32	13:05 (36)
24	05:14	06:17	07:21	08:25			08:33		14:33 (35)	09:13		12:34 (36)
	22:05	20:54	19:30	18:10			16:07	30	15:03 (35)	15:53	32	13:06 (36)
25	05:16	06:19	07:23	07:27			08:35		14:34 (35)	09:13		12:34 (36)
	22:03	20:52	19:27	17:08			16:05	28	15:02 (35)	15:54	33	13:07 (36)
26	05:18	06:21	07:25	07:29			08:37		14:36 (35)	09:13		12:35 (36)
	22:01	20:49	19:25	17:05			16:04	26	15:02 (35)	15:54	32	13:07 (36)
27	05:20	06:23	07:27	07:31		14:44 (35)	08:39		12:34 (36)	09:14		12:35 (36)
	21:59	20:46	19:22	17:03	4	14:48 (35)	16:03	33	15:01 (35)	15:55	32	13:07 (36)
28	05:22	06:25	07:29	07:34		14:38 (35)	08:41		12:32 (36)	09:14		12:36 (36)
	21:57	20:44	19:19	17:01	15	14:53 (35)	16:02	37	15:01 (35)	15:56	32	13:08 (36)
29	05:24	06:27	07:31	07:36		14:35 (35)	08:43		12:31 (36)	09:14		12:37 (36)
	21:55	20:41	19:16	16:58	20	14:55 (35)	16:00	36	15:00 (35)	15:57	31	13:08 (36)
30	05:26	06:29	07:33	07:38		14:33 (35)	08:44		12:30 (36)	09:14		12:36 (36)
	21:53	20:39	19:14	16:56	25	14:58 (35)	15:59	36	14:58 (35)	15:58	32	13:08 (36)
31	05:28	06:31		07:40		14:31 (35)				09:14		12:37 (36)
	21:51	20:36		16:53	28	14:59 (35)				15:59	32	13:09 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					92			1066			961	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.68			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					25			157			135	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CH - Jostnieki C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:58 (36)	08:35		15:09 (35)	07:30	07:06	05:47	04:48
	16:01	29	13:27 (36)	17:00	37	15:46 (35)	18:04	20:12	21:16	22:15
2	09:13		12:58 (36)	08:33		15:10 (35)	07:27	07:03	05:45	04:47
	16:02	29	13:27 (36)	17:02	37	15:47 (35)	18:06	20:14	21:18	22:17
3	09:13		12:58 (36)	08:31		15:10 (35)	07:24	07:00	05:42	04:46
	16:03	29	13:27 (36)	17:04	37	15:47 (35)	18:08	20:16	21:20	22:18
4	09:12		13:00 (36)	08:29		15:10 (35)	07:22	06:57	05:40	04:45
	16:05	28	13:28 (36)	17:07	36	15:46 (35)	18:11	20:18	21:22	22:20
5	09:12		13:00 (36)	08:27		15:11 (35)	07:19	06:55	05:38	04:44
	16:06	28	13:28 (36)	17:09	35	15:46 (35)	18:13	20:20	21:25	22:21
6	09:11		13:01 (36)	08:25		15:12 (35)	07:16	06:52	05:36	04:43
	16:08	27	13:28 (36)	17:11	35	15:47 (35)	18:15	20:22	21:27	22:22
7	09:11		13:02 (36)	08:23		15:11 (35)	07:14	06:49	05:33	04:42
	16:09	26	13:28 (36)	17:14	35	15:46 (35)	18:17	20:24	21:29	22:23
8	09:10		13:03 (36)	08:21		15:13 (35)	07:11	06:46	05:31	04:41
	16:11	25	13:28 (36)	17:16	33	15:46 (35)	18:20	20:27	21:31	22:24
9	09:09		13:04 (36)	08:19		15:13 (35)	07:08	06:44	05:29	04:41
	16:12	24	13:28 (36)	17:18	31	15:44 (35)	18:22	20:29	21:33	22:26
10	09:08		13:05 (36)	08:16		15:14 (35)	07:06	06:41	05:27	04:40
	16:14	22	13:27 (36)	17:21	30	15:44 (35)	18:24	20:31	21:35	22:27
11	09:07		13:06 (36)	08:14		15:15 (35)	07:03	06:38	05:24	04:39
	16:16	20	13:26 (36)	17:23	27	15:42 (35)	18:26	20:33	21:37	22:28
12	09:06		13:07 (36)	08:12		15:17 (35)	07:00	06:36	05:22	04:39
	16:18	19	13:26 (36)	17:25	25	15:42 (35)	18:28	20:35	21:39	22:28
13	09:05		13:09 (36)	08:09		15:18 (35)	06:58	06:33	05:20	04:38
	16:20	16	13:25 (36)	17:27	21	15:39 (35)	18:31	20:37	21:41	22:29
14	09:04		13:11 (36)	08:07		15:21 (35)	06:55	06:30	05:18	04:38
	16:21	13	13:24 (36)	17:30	17	15:38 (35)	18:33	20:39	21:43	22:30
15	09:03		13:14 (36)	08:05		15:25 (35)	06:52	06:28	05:16	04:38
	16:23	17	15:28 (35)	17:32	9	15:34 (35)	18:35	20:42	21:45	22:31
16	09:02		15:16 (35)	08:02			06:49	06:25	05:14	04:37
	16:25	14	15:30 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		15:16 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	17	15:33 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		15:14 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	20	15:34 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		15:13 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	23	15:36 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:13 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	25	15:38 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:12 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	27	15:39 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		15:12 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	28	15:40 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		15:11 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	30	15:41 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		15:10 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	32	15:42 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:10 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	33	15:43 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:10 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	33	15:43 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:10 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	34	15:44 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		15:10 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	35	15:45 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:10 (35)				07:14	05:52	04:52	04:40
	16:53	36	15:46 (35)				20:05	21:12	22:11	22:33
30	08:39		15:10 (35)				07:11	05:50	04:51	04:41
	16:55	36	15:46 (35)				20:07	21:14	22:12	22:33
31	08:37		15:09 (35)				07:08		04:50	
	16:57	37	15:46 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		812			445					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.67			0.68					
Total reduction		0.17			0.21					
Total, real		141			95					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CH - Jostnieki C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:44 (35)	08:46		12:48 (36)
	22:32	21:49	20:33	19:11			16:51	30	15:14 (35)	15:58	20	13:08 (36)
2	04:43	05:31	06:35	07:37			07:45		14:42 (35)	08:48		12:47 (36)
	22:32	21:47	20:30	19:08			16:49	32	15:14 (35)	15:57	22	13:09 (36)
3	04:44	05:33	06:37	07:39			07:47		14:42 (35)	08:50		12:47 (36)
	22:31	21:45	20:28	19:05			16:47	33	15:15 (35)	15:56	24	13:11 (36)
4	04:45	05:35	06:40	07:42			07:49		14:41 (35)	08:51		12:47 (36)
	22:31	21:43	20:25	19:03			16:44	34	15:15 (35)	15:55	25	13:12 (36)
5	04:46	05:37	06:42	07:44			07:52		14:41 (35)	08:53		12:47 (36)
	22:30	21:41	20:22	19:00			16:42	35	15:16 (35)	15:55	26	13:13 (36)
6	04:47	05:40	06:44	07:46			07:54		14:40 (35)	08:55		12:47 (36)
	22:29	21:38	20:20	18:57			16:40	36	15:16 (35)	15:54	27	13:14 (36)
7	04:48	05:42	06:46	07:48			07:56		14:41 (35)	08:56		12:47 (36)
	22:28	21:36	20:17	18:55			16:38	36	15:17 (35)	15:53	28	13:15 (36)
8	04:49	05:44	06:48	07:50			07:58		14:40 (35)	08:58		12:47 (36)
	22:27	21:34	20:14	18:52			16:36	37	15:17 (35)	15:53	28	13:15 (36)
9	04:50	05:46	06:50	07:52			08:01		14:41 (35)	08:59		12:47 (36)
	22:26	21:31	20:11	18:49			16:34	36	15:17 (35)	15:52	29	13:16 (36)
10	04:52	05:48	06:52	07:54			08:03		14:40 (35)	09:00		12:47 (36)
	22:25	21:29	20:09	18:46			16:32	37	15:17 (35)	15:52	29	13:16 (36)
11	04:53	05:50	06:54	07:56			08:05		14:41 (35)	09:02		12:48 (36)
	22:24	21:27	20:06	18:44			16:29	36	15:17 (35)	15:51	30	13:18 (36)
12	04:54	05:52	06:56	07:59			08:07		14:41 (35)	09:03		12:48 (36)
	22:23	21:24	20:03	18:41			16:27	36	15:17 (35)	15:51	30	13:18 (36)
13	04:56	05:54	06:58	08:01			08:10		14:42 (35)	09:04		12:48 (36)
	22:22	21:22	20:00	18:39			16:26	35	15:17 (35)	15:51	30	13:18 (36)
14	04:57	05:56	07:00	08:03			08:12		14:42 (35)	09:05		12:49 (36)
	22:21	21:20	19:58	18:36			16:24	35	15:17 (35)	15:50	31	13:20 (36)
15	04:59	05:58	07:02	08:05			08:14		14:43 (35)	09:06		12:49 (36)
	22:19	21:17	19:55	18:33			16:22	34	15:17 (35)	15:50	31	13:20 (36)
16	05:00	06:00	07:04	08:07			08:16		14:43 (35)	09:07		12:49 (36)
	22:18	21:15	19:52	18:31			16:20	33	15:16 (35)	15:50	32	13:21 (36)
17	05:02	06:02	07:06	08:09			08:18		14:44 (35)	09:08		12:50 (36)
	22:16	21:12	19:49	18:28			16:18	33	15:17 (35)	15:50	31	13:21 (36)
18	05:04	06:04	07:08	08:12			08:20		14:44 (35)	09:09		12:49 (36)
	22:15	21:10	19:47	18:25			16:16	32	15:16 (35)	15:51	32	13:21 (36)
19	05:05	06:06	07:10	08:14			08:23		14:45 (35)	09:10		12:50 (36)
	22:13	21:07	19:44	18:23			16:15	30	15:15 (35)	15:51	32	13:22 (36)
20	05:07	06:08	07:12	08:16			08:25		14:47 (35)	09:11		12:51 (36)
	22:12	21:05	19:41	18:20			16:13	28	15:15 (35)	15:51	31	13:22 (36)
21	05:09	06:11	07:15	08:18			08:27		14:47 (35)	09:11		12:51 (36)
	22:10	21:02	19:38	18:18			16:11	27	15:14 (35)	15:51	31	13:22 (36)
22	05:11	06:13	07:17	08:20			08:29		14:49 (35)	09:12		12:52 (36)
	22:08	20:59	19:36	18:15			16:10	25	15:14 (35)	15:52	31	13:23 (36)
23	05:12	06:15	07:19	08:23			08:31		14:50 (35)	09:12		12:52 (36)
	22:07	20:57	19:33	18:13			16:08	23	15:13 (35)	15:52	31	13:23 (36)
24	05:14	06:17	07:21	08:25			08:33		14:51 (35)	09:13		12:53 (36)
	22:05	20:54	19:30	18:10			16:07	21	15:12 (35)	15:53	31	13:24 (36)
25	05:16	06:19	07:23	07:27			08:35		14:53 (35)	09:13		12:53 (36)
	22:03	20:52	19:27	17:08			16:05	17	15:10 (35)	15:54	32	13:25 (36)
26	05:18	06:21	07:25	07:29			08:37		14:55 (35)	09:13		12:54 (36)
	22:01	20:49	19:25	17:05			16:04	14	15:09 (35)	15:54	31	13:25 (36)
27	05:20	06:23	07:27	07:31		14:54 (35)	08:39		12:53 (36)	09:14		12:54 (36)
	21:59	20:46	19:22	17:03	11	15:05 (35)	16:03	17	15:07 (35)	15:55	31	13:25 (36)
28	05:22	06:25	07:29	07:34		14:50 (35)	08:41		12:51 (36)	09:14		12:55 (36)
	21:57	20:44	19:19	17:01	18	15:08 (35)	16:02	13	13:04 (36)	15:56	31	13:26 (36)
29	05:24	06:27	07:31	07:36		14:47 (35)	08:43		12:49 (36)	09:14		12:55 (36)
	21:55	20:41	19:16	16:58	22	15:09 (35)	16:00	16	13:05 (36)	15:57	31	13:26 (36)
30	05:26	06:29	07:33	07:38		14:46 (35)	08:44		12:48 (36)	09:14		12:55 (36)
	21:53	20:39	19:14	16:56	25	15:11 (35)	15:59	19	13:07 (36)	15:58	31	13:26 (36)
31	05:27	06:31		07:40		14:44 (35)				09:14		12:56 (36)
	21:51	20:36		16:53	28	15:12 (35)				15:59	31	13:27 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					104			870			910	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.68			0.68			0.67	
Total reduction					0.27			0.15			0.14	
Total, real					28			128			128	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CI - Jostnieki D

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		13:09 (36)	08:35		15:20 (35)	07:30	07:06	05:47	04:48
	16:01	30	13:39 (36)	17:00	35	15:55 (35)	18:04	20:12	21:16	22:15
2	09:13		13:10 (36)	08:33		15:20 (35)	07:27	07:03	05:45	04:47
	16:02	30	13:40 (36)	17:02	35	15:55 (35)	18:06	20:14	21:18	22:17
3	09:13		13:11 (36)	08:31		15:21 (35)	07:24	07:00	05:42	04:46
	16:03	29	13:40 (36)	17:04	35	15:56 (35)	18:08	20:16	21:20	22:18
4	09:12		13:12 (36)	08:29		15:20 (35)	07:22	06:57	05:40	04:45
	16:05	29	13:41 (36)	17:07	35	15:55 (35)	18:11	20:18	21:22	22:20
5	09:12		13:12 (36)	08:27		15:21 (35)	07:19	06:55	05:38	04:44
	16:06	29	13:41 (36)	17:09	35	15:56 (35)	18:13	20:20	21:25	22:21
6	09:11		13:13 (36)	08:25		15:21 (35)	07:16	06:52	05:36	04:43
	16:08	28	13:41 (36)	17:11	35	15:56 (35)	18:15	20:22	21:27	22:22
7	09:11		13:14 (36)	08:23		15:21 (35)	07:14	06:49	05:33	04:42
	16:09	27	13:41 (36)	17:14	34	15:55 (35)	18:17	20:24	21:29	22:23
8	09:10		13:15 (36)	08:21		15:22 (35)	07:11	06:46	05:31	04:41
	16:11	26	13:41 (36)	17:16	33	15:55 (35)	18:20	20:27	21:31	22:24
9	09:09		13:16 (36)	08:19		15:22 (35)	07:08	06:44	05:29	04:41
	16:12	25	13:41 (36)	17:18	32	15:54 (35)	18:22	20:29	21:33	22:26
10	09:08		13:17 (36)	08:16		15:23 (35)	07:06	06:41	05:27	04:40
	16:14	24	13:41 (36)	17:21	31	15:54 (35)	18:24	20:31	21:35	22:27
11	09:07		13:17 (36)	08:14		15:24 (35)	07:03	06:38	05:24	04:39
	16:16	22	13:39 (36)	17:23	29	15:53 (35)	18:26	20:33	21:37	22:28
12	09:06		13:19 (36)	08:12		15:25 (35)	07:00	06:36	05:22	04:39
	16:18	20	13:39 (36)	17:25	27	15:52 (35)	18:28	20:35	21:39	22:28
13	09:05		13:21 (36)	08:09		15:26 (35)	06:58	06:33	05:20	04:38
	16:20	18	13:39 (36)	17:27	24	15:50 (35)	18:31	20:37	21:41	22:29
14	09:04		13:22 (36)	08:07		15:28 (35)	06:55	06:30	05:18	04:38
	16:21	15	13:37 (36)	17:30	21	15:49 (35)	18:33	20:39	21:43	22:30
15	09:03		13:25 (36)	08:05		15:30 (35)	06:52	06:28	05:16	04:38
	16:23	11	13:36 (36)	17:32	17	15:47 (35)	18:35	20:42	21:45	22:31
16	09:02		13:28 (36)	08:02		15:35 (35)	06:49	06:25	05:14	04:37
	16:25	5	13:33 (36)	17:34	9	15:44 (35)	18:37	20:44	21:47	22:31
17	09:01			08:00			06:47	06:22	05:12	04:37
	16:27			17:37			18:39	20:46	21:49	22:32
18	08:59		15:32 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	4	15:36 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		15:28 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	12	15:40 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:27 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	16	15:43 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:26 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	19	15:45 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		15:24 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	22	15:46 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		15:23 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	24	15:47 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		15:23 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	26	15:49 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:22 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	28	15:50 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:22 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	29	15:51 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:21 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	31	15:52 (35)	17:59			19:01	21:07	22:07	22:34
28	08:43		15:21 (35)	07:32			06:16	05:54	04:54	04:40
	16:51	32	15:53 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:21 (35)				07:14	05:52	04:52	04:40
	16:53	33	15:54 (35)				20:05	21:12	22:11	22:33
30	08:39		15:21 (35)				07:11	05:50	04:51	04:41
	16:55	33	15:54 (35)				20:07	21:14	22:12	22:33
31	08:37		15:20 (35)				07:08		04:50	
	16:57	34	15:54 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		711			467					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.67			0.68					
Total reduction		0.17			0.21					
Total, real		123			99					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CI - Jostnieki D

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:53 (35)	08:46		13:00 (36)
	22:32	21:49	20:33	19:11			16:51	31	15:24 (35)	15:58	21	13:21 (36)
2	04:43	05:31	06:35	07:37			07:45		14:52 (35)	08:48		12:59 (36)
	22:32	21:47	20:30	19:08			16:49	32	15:24 (35)	15:57	24	13:23 (36)
3	04:44	05:33	06:37	07:39			07:47		14:52 (35)	08:50		12:59 (36)
	22:31	21:45	20:28	19:05			16:47	33	15:25 (35)	15:56	25	13:24 (36)
4	04:45	05:35	06:40	07:42			07:49		14:51 (35)	08:51		12:59 (36)
	22:31	21:43	20:25	19:03			16:44	34	15:25 (35)	15:55	26	13:25 (36)
5	04:46	05:37	06:42	07:44			07:52		14:51 (35)	08:53		12:59 (36)
	22:30	21:41	20:22	19:00			16:42	35	15:26 (35)	15:55	27	13:26 (36)
6	04:47	05:40	06:44	07:46			07:54		14:50 (35)	08:55		12:59 (36)
	22:29	21:38	20:20	18:57			16:40	35	15:25 (35)	15:54	28	13:27 (36)
7	04:48	05:42	06:46	07:48			07:56		14:51 (35)	08:56		13:00 (36)
	22:28	21:36	20:17	18:55			16:38	35	15:26 (35)	15:53	28	13:28 (36)
8	04:49	05:44	06:48	07:50			07:58		14:50 (35)	08:58		12:59 (36)
	22:27	21:34	20:14	18:52			16:36	35	15:25 (35)	15:53	29	13:28 (36)
9	04:50	05:46	06:50	07:52			08:01		14:51 (35)	08:59		13:00 (36)
	22:26	21:31	20:11	18:49			16:34	35	15:26 (35)	15:52	29	13:29 (36)
10	04:52	05:48	06:52	07:54			08:03		14:51 (35)	09:00		12:59 (36)
	22:25	21:29	20:09	18:46			16:32	34	15:25 (35)	15:52	30	13:29 (36)
11	04:53	05:50	06:54	07:56			08:05		14:52 (35)	09:02		13:00 (36)
	22:24	21:27	20:06	18:44			16:29	34	15:26 (35)	15:51	30	13:30 (36)
12	04:54	05:52	06:56	07:59			08:07		14:52 (35)	09:03		13:00 (36)
	22:23	21:24	20:03	18:41			16:27	33	15:25 (35)	15:51	30	13:30 (36)
13	04:56	05:54	06:58	08:01			08:10		14:53 (35)	09:04		13:00 (36)
	22:22	21:22	20:00	18:39			16:26	32	15:25 (35)	15:51	31	13:31 (36)
14	04:57	05:56	07:00	08:03			08:12		14:53 (35)	09:05		13:00 (36)
	22:21	21:20	19:58	18:36			16:24	32	15:25 (35)	15:50	31	13:31 (36)
15	04:59	05:58	07:02	08:05			08:14		14:54 (35)	09:06		13:01 (36)
	22:19	21:17	19:55	18:33			16:22	31	15:25 (35)	15:50	32	13:33 (36)
16	05:00	06:00	07:04	08:07			08:16		14:54 (35)	09:07		13:02 (36)
	22:18	21:15	19:52	18:31			16:20	30	15:24 (35)	15:50	31	13:33 (36)
17	05:02	06:02	07:06	08:09			08:18		14:56 (35)	09:08		13:02 (36)
	22:16	21:12	19:49	18:28			16:18	28	15:24 (35)	15:50	32	13:34 (36)
18	05:04	06:04	07:08	08:12			08:20		14:57 (35)	09:09		13:02 (36)
	22:15	21:10	19:47	18:25			16:16	26	15:23 (35)	15:51	31	13:33 (36)
19	05:05	06:06	07:10	08:14			08:23		14:57 (35)	09:10		13:02 (36)
	22:13	21:07	19:44	18:23			16:15	24	15:21 (35)	15:51	32	13:34 (36)
20	05:07	06:08	07:12	08:16			08:25		14:59 (35)	09:11		13:03 (36)
	22:12	21:05	19:41	18:20			16:13	22	15:21 (35)	15:51	32	13:35 (36)
21	05:09	06:11	07:15	08:18			08:27		15:01 (35)	09:11		13:03 (36)
	22:10	21:02	19:38	18:18			16:11	19	15:20 (35)	15:51	32	13:35 (36)
22	05:11	06:13	07:17	08:20			08:29		15:03 (35)	09:12		13:04 (36)
	22:08	20:59	19:36	18:15			16:10	16	15:19 (35)	15:52	32	13:36 (36)
23	05:12	06:15	07:19	08:23			08:31		15:05 (35)	09:12		13:04 (36)
	22:07	20:57	19:33	18:13			16:08	12	15:17 (35)	15:52	32	13:36 (36)
24	05:14	06:17	07:21	08:25			08:33		15:09 (35)	09:13		13:05 (36)
	22:05	20:54	19:30	18:10			16:07	4	15:13 (35)	15:53	32	13:37 (36)
25	05:16	06:19	07:23	07:27			08:35			09:13		13:06 (36)
	22:03	20:52	19:27	17:08			16:05			15:54	31	13:37 (36)
26	05:18	06:21	07:25	07:29		15:03 (35)	08:37		13:07 (36)	09:13		13:06 (36)
	22:01	20:49	19:25	17:05	11	15:14 (35)	16:04	5	13:12 (36)	15:54	32	13:38 (36)
27	05:20	06:23	07:27	07:31		15:00 (35)	08:39		13:04 (36)	09:14		13:07 (36)
	21:59	20:46	19:22	17:03	18	15:18 (35)	16:03	11	13:15 (36)	15:55	31	13:38 (36)
28	05:22	06:25	07:29	07:34		14:57 (35)	08:41		13:02 (36)	09:14		13:07 (36)
	21:57	20:44	19:19	17:01	22	15:19 (35)	16:02	15	13:17 (36)	15:56	31	13:38 (36)
29	05:24	06:27	07:31	07:36		14:55 (35)	08:43		13:01 (36)	09:14		13:08 (36)
	21:55	20:41	19:16	16:58	25	15:20 (35)	16:00	18	13:19 (36)	15:57	31	13:39 (36)
30	05:26	06:29	07:33	07:38		14:55 (35)	08:44		13:00 (36)	09:14		13:08 (36)
	21:53	20:38	19:14	16:56	27	15:22 (35)	15:59	20	13:20 (36)	15:58	31	13:39 (36)
31	05:27	06:31		07:40		14:53 (35)				09:14		13:09 (36)
	21:51	20:36		16:53	29	15:22 (35)				15:59	30	13:39 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					132			751			924	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.68			0.68			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					36			110			130	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CJ - Jostnieki E

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		13:03 (36)	08:35		15:16 (35)	07:30	07:06	05:47	04:48
	16:01	31	13:34 (36)	17:00	35	15:51 (35)	18:04	20:12	21:16	22:15
2	09:13		13:04 (36)	08:33		15:16 (35)	07:27	07:03	05:45	04:47
	16:02	30	13:34 (36)	17:02	36	15:52 (35)	18:06	20:14	21:18	22:17
3	09:13		13:05 (36)	08:31		15:16 (35)	07:24	07:00	05:42	04:46
	16:03	29	13:34 (36)	17:04	36	15:52 (35)	18:08	20:16	21:20	22:18
4	09:12		13:06 (36)	08:29		15:16 (35)	07:22	06:57	05:40	04:45
	16:05	29	13:35 (36)	17:07	36	15:52 (35)	18:11	20:18	21:22	22:20
5	09:12		13:07 (36)	08:27		15:17 (35)	07:19	06:55	05:38	04:44
	16:06	28	13:35 (36)	17:09	35	15:52 (35)	18:13	20:20	21:25	22:21
6	09:11		13:07 (36)	08:25		15:17 (35)	07:16	06:52	05:36	04:43
	16:08	28	13:35 (36)	17:11	35	15:52 (35)	18:15	20:22	21:27	22:22
7	09:11		13:08 (36)	08:23		15:17 (35)	07:14	06:49	05:33	04:42
	16:09	27	13:35 (36)	17:14	35	15:52 (35)	18:17	20:24	21:29	22:23
8	09:10		13:09 (36)	08:21		15:18 (35)	07:11	06:46	05:31	04:41
	16:11	26	13:35 (36)	17:16	34	15:52 (35)	18:20	20:27	21:31	22:24
9	09:09		13:10 (36)	08:19		15:18 (35)	07:08	06:44	05:29	04:41
	16:12	25	13:35 (36)	17:18	33	15:51 (35)	18:22	20:29	21:33	22:26
10	09:08		13:11 (36)	08:16		15:19 (35)	07:06	06:41	05:27	04:40
	16:14	24	13:35 (36)	17:21	31	15:50 (35)	18:24	20:31	21:35	22:27
11	09:07		13:12 (36)	08:14		15:20 (35)	07:03	06:38	05:24	04:39
	16:16	22	13:34 (36)	17:23	29	15:49 (35)	18:26	20:33	21:37	22:28
12	09:06		13:13 (36)	08:12		15:22 (35)	07:00	06:36	05:22	04:39
	16:18	20	13:33 (36)	17:25	26	15:48 (35)	18:28	20:35	21:39	22:28
13	09:05		13:15 (36)	08:09		15:23 (35)	06:58	06:33	05:20	04:38
	16:20	18	13:33 (36)	17:27	24	15:47 (35)	18:31	20:37	21:41	22:29
14	09:04		13:16 (36)	08:07		15:25 (35)	06:55	06:30	05:18	04:38
	16:21	16	13:32 (36)	17:30	20	15:45 (35)	18:33	20:39	21:43	22:30
15	09:03		13:19 (36)	08:05		15:27 (35)	06:52	06:28	05:16	04:38
	16:23	11	13:30 (36)	17:32	16	15:43 (35)	18:35	20:42	21:45	22:31
16	09:02		13:23 (36)	08:02		15:32 (35)	06:49	06:25	05:14	04:37
	16:25	4	13:27 (36)	17:34	7	15:39 (35)	18:37	20:44	21:47	22:31
17	09:01		15:27 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	6	15:33 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		15:24 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	12	15:36 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		15:22 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	16	15:38 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:21 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	20	15:41 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:20 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	23	15:43 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		15:19 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	25	15:44 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		15:18 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	27	15:45 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		15:18 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	28	15:46 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:17 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	30	15:47 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:17 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	31	15:48 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:17 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	32	15:49 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		15:16 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	34	15:50 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:16 (35)				07:14	05:52	04:52	04:40
	16:53	34	15:50 (35)				20:05	21:12	22:11	22:33
30	08:39		15:16 (35)				07:11	05:50	04:51	04:41
	16:55	35	15:51 (35)				20:07	21:14	22:12	22:33
31	08:37		15:15 (35)				07:08		04:50	
	16:57	36	15:51 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		757			468					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.67			0.68					
Total reduction		0.17			0.21					
Total, real		131			100					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CJ - Jostnieki E

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:49 (35)	08:46		12:54 (36)
	22:32	21:49	20:33	19:11			16:51	31	15:20 (35)	15:58	22	13:16 (36)
2	04:43	05:31	06:35	07:37			07:45		14:48 (35)	08:48		12:54 (36)
	22:32	21:47	20:30	19:08			16:49	32	15:20 (35)	15:57	23	13:17 (36)
3	04:44	05:33	06:37	07:39			07:47		14:48 (35)	08:50		12:53 (36)
	22:31	21:45	20:28	19:05			16:47	33	15:21 (35)	15:56	25	13:18 (36)
4	04:45	05:35	06:40	07:42			07:49		14:47 (35)	08:51		12:53 (36)
	22:31	21:43	20:25	19:03			16:44	34	15:21 (35)	15:55	26	13:19 (36)
5	04:46	05:37	06:42	07:44			07:52		14:47 (35)	08:53		12:53 (36)
	22:30	21:41	20:22	19:00			16:42	35	15:22 (35)	15:55	27	13:20 (36)
6	04:47	05:40	06:44	07:46			07:54		14:46 (35)	08:55		12:54 (36)
	22:29	21:38	20:20	18:57			16:40	36	15:22 (35)	15:54	27	13:21 (36)
7	04:48	05:42	06:46	07:48			07:56		14:47 (35)	08:56		12:54 (36)
	22:28	21:36	20:17	18:55			16:38	36	15:23 (35)	15:53	28	13:22 (36)
8	04:49	05:44	06:48	07:50			07:58		14:46 (35)	08:58		12:53 (36)
	22:27	21:34	20:14	18:52			16:36	36	15:22 (35)	15:53	29	13:22 (36)
9	04:50	05:46	06:50	07:52			08:01		14:47 (35)	08:59		12:54 (36)
	22:26	21:31	20:11	18:49			16:34	36	15:23 (35)	15:52	29	13:23 (36)
10	04:52	05:48	06:52	07:54			08:03		14:46 (35)	09:00		12:54 (36)
	22:25	21:29	20:09	18:46			16:32	36	15:22 (35)	15:52	29	13:23 (36)
11	04:53	05:50	06:54	07:56			08:05		14:47 (35)	09:02		12:54 (36)
	22:24	21:27	20:06	18:44			16:29	36	15:23 (35)	15:51	31	13:25 (36)
12	04:54	05:52	06:56	07:59			08:07		14:47 (35)	09:03		12:54 (36)
	22:23	21:24	20:03	18:41			16:27	35	15:22 (35)	15:51	31	13:25 (36)
13	04:56	05:54	06:58	08:01			08:10		14:48 (35)	09:04		12:54 (36)
	22:22	21:22	20:00	18:39			16:26	34	15:22 (35)	15:51	31	13:25 (36)
14	04:57	05:56	07:00	08:03			08:12		14:48 (35)	09:05		12:54 (36)
	22:21	21:20	19:58	18:36			16:24	34	15:22 (35)	15:50	32	13:26 (36)
15	04:59	05:58	07:02	08:05			08:14		14:50 (35)	09:06		12:56 (36)
	22:19	21:17	19:55	18:33			16:22	32	15:22 (35)	15:50	31	13:27 (36)
16	05:00	06:00	07:04	08:07			08:16		14:50 (35)	09:07		12:56 (36)
	22:18	21:15	19:52	18:31			16:20	31	15:21 (35)	15:50	31	13:27 (36)
17	05:02	06:02	07:06	08:09			08:18		14:51 (35)	09:08		12:56 (36)
	22:16	21:12	19:49	18:28			16:18	30	15:21 (35)	15:50	32	13:28 (36)
18	05:04	06:04	07:08	08:12			08:20		14:52 (35)	09:09		12:56 (36)
	22:15	21:10	19:47	18:25			16:16	28	15:20 (35)	15:51	32	13:28 (36)
19	05:05	06:06	07:10	08:14			08:23		14:52 (35)	09:10		12:57 (36)
	22:13	21:07	19:44	18:23			16:15	27	15:19 (35)	15:51	31	13:28 (36)
20	05:07	06:08	07:12	08:16			08:25		14:54 (35)	09:11		12:57 (36)
	22:12	21:05	19:41	18:20			16:13	25	15:19 (35)	15:51	32	13:29 (36)
21	05:09	06:11	07:15	08:18			08:27		14:55 (35)	09:11		12:57 (36)
	22:10	21:02	19:38	18:18			16:11	23	15:18 (35)	15:51	32	13:29 (36)
22	05:11	06:13	07:17	08:20			08:29		14:57 (35)	09:12		12:58 (36)
	22:08	20:59	19:36	18:15			16:10	20	15:17 (35)	15:52	32	13:30 (36)
23	05:12	06:15	07:19	08:23			08:31		14:59 (35)	09:12		12:58 (36)
	22:07	20:57	19:33	18:13			16:08	17	15:16 (35)	15:52	32	13:30 (36)
24	05:14	06:17	07:21	08:25			08:33		15:01 (35)	09:13		13:00 (36)
	22:05	20:54	19:30	18:10			16:07	13	15:14 (35)	15:53	31	13:31 (36)
25	05:16	06:19	07:23	07:27			08:35		15:04 (35)	09:13		13:00 (36)
	22:03	20:52	19:27	17:08			16:05	7	15:11 (35)	15:54	32	13:32 (36)
26	05:18	06:21	07:25	07:29		15:00 (35)	08:37		13:02 (36)	09:13		13:00 (36)
	22:01	20:49	19:25	17:05	10	15:10 (35)	16:04	3	13:05 (36)	15:54	32	13:32 (36)
27	05:20	06:23	07:27	07:31		14:57 (35)	08:39		12:58 (36)	09:14		13:01 (36)
	21:59	20:46	19:22	17:03	17	15:14 (35)	16:03	11	13:09 (36)	15:55	31	13:32 (36)
28	05:22	06:25	07:29	07:34		14:54 (35)	08:41		12:57 (36)	09:14		13:01 (36)
	21:57	20:44	19:19	17:01	21	15:15 (35)	16:02	15	13:12 (36)	15:56	32	13:33 (36)
29	05:24	06:27	07:31	07:36		14:52 (35)	08:43		12:55 (36)	09:14		13:02 (36)
	21:55	20:41	19:16	16:58	24	15:16 (35)	16:00	18	13:13 (36)	15:57	31	13:33 (36)
30	05:26	06:29	07:33	07:38		14:51 (35)	08:44		12:55 (36)	09:14		13:02 (36)
	21:53	20:39	19:14	16:56	27	15:18 (35)	15:59	19	13:14 (36)	15:58	31	13:33 (36)
31	05:27	06:31		07:40		14:49 (35)				09:14		13:03 (36)
	21:51	20:36		16:53	30	15:19 (35)				15:59	31	13:34 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					129			803			926	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.68			0.68			0.67	
Total reduction					0.27			0.15			0.14	
Total, real					35			118			131	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CK - Jostnieki F

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:58 (36)	08:35		15:07 (35)	07:30	07:06	05:47	04:48
	16:01	29	13:27 (36)	17:00	37	15:44 (35)	18:04	20:12	21:16	22:15
2	09:13		12:58 (36)	08:33		15:08 (35)	07:27	07:03	05:45	04:47
	16:02	28	13:26 (36)	17:02	36	15:44 (35)	18:06	20:14	21:18	22:17
3	09:13		12:59 (36)	08:31		15:08 (35)	07:24	07:00	05:42	04:46
	16:03	27	13:26 (36)	17:04	36	15:44 (35)	18:08	20:16	21:20	22:18
4	09:12		13:00 (36)	08:29		15:08 (35)	07:22	06:57	05:40	04:45
	16:05	27	13:27 (36)	17:07	35	15:43 (35)	18:11	20:18	21:22	22:20
5	09:12		13:01 (36)	08:27		15:09 (35)	07:19	06:55	05:38	04:44
	16:06	26	13:27 (36)	17:09	34	15:43 (35)	18:13	20:20	21:25	22:21
6	09:11		13:01 (36)	08:25		15:10 (35)	07:16	06:52	05:36	04:43
	16:08	26	13:27 (36)	17:11	34	15:44 (35)	18:15	20:22	21:27	22:22
7	09:11		13:02 (36)	08:23		15:10 (35)	07:14	06:49	05:33	04:42
	16:09	25	13:27 (36)	17:14	32	15:42 (35)	18:17	20:24	21:29	22:23
8	09:10		13:03 (36)	08:21		15:11 (35)	07:11	06:46	05:31	04:41
	16:11	23	13:26 (36)	17:16	31	15:42 (35)	18:20	20:27	21:31	22:24
9	09:09		13:05 (36)	08:19		15:12 (35)	07:08	06:44	05:29	04:41
	16:12	21	13:26 (36)	17:18	29	15:41 (35)	18:22	20:29	21:33	22:26
10	09:08		13:06 (36)	08:16		15:14 (35)	07:06	06:41	05:27	04:40
	16:14	20	13:26 (36)	17:21	26	15:40 (35)	18:24	20:31	21:35	22:27
11	09:07		13:07 (36)	08:14		15:15 (35)	07:03	06:38	05:24	04:39
	16:16	18	13:25 (36)	17:23	23	15:38 (35)	18:26	20:33	21:37	22:28
12	09:06		13:08 (36)	08:12		15:17 (35)	07:00	06:36	05:22	04:39
	16:18	16	13:24 (36)	17:25	20	15:37 (35)	18:28	20:35	21:39	22:28
13	09:05		13:11 (36)	08:09		15:19 (35)	06:58	06:33	05:20	04:38
	16:20	17	15:23 (35)	17:27	15	15:34 (35)	18:31	20:37	21:41	22:29
14	09:04		13:13 (36)	08:07		15:24 (35)	06:55	06:30	05:18	04:38
	16:21	20	15:26 (35)	17:30	6	15:30 (35)	18:33	20:39	21:43	22:30
15	09:03		15:13 (35)	08:05			06:52	06:28	05:16	04:38
	16:23	16	15:29 (35)	17:32			18:35	20:42	21:45	22:31
16	09:02		15:12 (35)	08:02			06:49	06:25	05:14	04:37
	16:25	18	15:30 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		15:11 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	22	15:33 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		15:10 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	24	15:34 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		15:09 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	26	15:35 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:10 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	27	15:37 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:09 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	29	15:38 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		15:08 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	30	15:38 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		15:08 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	31	15:39 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		15:08 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	32	15:40 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:07 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	34	15:41 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:07 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	34	15:41 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:07 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	35	15:42 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		15:07 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	36	15:43 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:07 (35)				07:14	05:52	04:52	04:40
	16:53	36	15:43 (35)				20:05	21:12	22:11	22:33
30	08:39		15:08 (35)				07:11	05:50	04:51	04:41
	16:55	36	15:44 (35)				20:07	21:14	22:12	22:33
31	08:37		15:07 (35)				07:08		04:50	
	16:57	36	15:43 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		825			394					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.68					
Total reduction		0.17			0.21					
Total, real		144			84					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CK - Jostnieki F

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:43 (35)	08:46		12:49 (36)
	22:32	21:49	20:33	19:11			16:51	27	15:10 (35)	15:58	18	13:07 (36)
2	04:43	05:31	06:35	07:37			07:45		14:41 (35)	08:48		12:48 (36)
	22:32	21:47	20:30	19:08			16:49	30	15:11 (35)	15:57	20	13:08 (36)
3	04:44	05:33	06:37	07:39			07:47		14:41 (35)	08:50		12:48 (36)
	22:31	21:45	20:28	19:05			16:47	31	15:12 (35)	15:56	21	13:09 (36)
4	04:45	05:35	06:40	07:42			07:49		14:40 (35)	08:51		12:48 (36)
	22:31	21:43	20:25	19:03			16:44	32	15:12 (35)	15:55	22	13:10 (36)
5	04:46	05:37	06:42	07:44			07:52		14:40 (35)	08:53		12:47 (36)
	22:30	21:41	20:22	19:00			16:42	33	15:13 (35)	15:55	25	13:12 (36)
6	04:47	05:40	06:44	07:46			07:54		14:39 (35)	08:55		12:48 (36)
	22:29	21:38	20:20	18:57			16:40	34	15:13 (35)	15:54	25	13:13 (36)
7	04:48	05:42	06:46	07:48			07:56		14:39 (35)	08:56		12:48 (36)
	22:28	21:36	20:17	18:55			16:38	35	15:14 (35)	15:53	26	13:14 (36)
8	04:49	05:44	06:48	07:50			07:58		14:38 (35)	08:58		12:47 (36)
	22:27	21:34	20:14	18:52			16:36	36	15:14 (35)	15:53	27	13:14 (36)
9	04:50	05:46	06:50	07:52			08:01		14:39 (35)	08:59		12:48 (36)
	22:26	21:31	20:11	18:49			16:34	36	15:15 (35)	15:52	27	13:15 (36)
10	04:52	05:48	06:52	07:54			08:03		14:38 (35)	09:00		12:47 (36)
	22:25	21:29	20:09	18:46			16:32	36	15:14 (35)	15:52	28	13:15 (36)
11	04:53	05:50	06:54	07:56			08:05		14:39 (35)	09:02		12:48 (36)
	22:24	21:27	20:06	18:44			16:29	36	15:15 (35)	15:51	29	13:17 (36)
12	04:54	05:52	06:56	07:59			08:07		14:38 (35)	09:03		12:48 (36)
	22:23	21:24	20:03	18:41			16:27	37	15:15 (35)	15:51	29	13:17 (36)
13	04:56	05:54	06:58	08:01			08:10		14:39 (35)	09:04		12:48 (36)
	22:22	21:22	20:00	18:39			16:26	36	15:15 (35)	15:51	29	13:17 (36)
14	04:57	05:56	07:00	08:03			08:12		14:39 (35)	09:05		12:49 (36)
	22:21	21:20	19:58	18:36			16:24	36	15:15 (35)	15:50	30	13:19 (36)
15	04:59	05:58	07:02	08:05			08:14		14:40 (35)	09:06		12:49 (36)
	22:19	21:17	19:55	18:33			16:22	35	15:15 (35)	15:50	30	13:19 (36)
16	05:00	06:00	07:04	08:07			08:16		14:40 (35)	09:07		12:50 (36)
	22:18	21:15	19:52	18:31			16:20	34	15:14 (35)	15:50	30	13:20 (36)
17	05:02	06:02	07:06	08:09			08:18		14:41 (35)	09:08		12:50 (36)
	22:16	21:12	19:49	18:28			16:18	34	15:15 (35)	15:50	30	13:20 (36)
18	05:04	06:04	07:08	08:12			08:20		14:42 (35)	09:09		12:50 (36)
	22:15	21:10	19:47	18:25			16:16	32	15:14 (35)	15:51	30	13:20 (36)
19	05:05	06:06	07:10	08:14			08:23		14:42 (35)	09:10		12:50 (36)
	22:13	21:07	19:44	18:23			16:15	31	15:13 (35)	15:51	31	13:21 (36)
20	05:07	06:08	07:12	08:16			08:25		14:43 (35)	09:11		12:51 (36)
	22:12	21:05	19:41	18:20			16:13	30	15:13 (35)	15:51	31	13:22 (36)
21	05:09	06:11	07:15	08:18			08:27		14:44 (35)	09:11		12:51 (36)
	22:10	21:02	19:38	18:18			16:11	29	15:13 (35)	15:51	30	13:21 (36)
22	05:11	06:13	07:17	08:20			08:29		14:46 (35)	09:12		12:52 (36)
	22:08	20:59	19:36	18:15			16:10	27	15:13 (35)	15:52	30	13:22 (36)
23	05:12	06:15	07:19	08:23			08:31		14:46 (35)	09:12		12:52 (36)
	22:07	20:57	19:33	18:13			16:08	26	15:12 (35)	15:52	30	13:22 (36)
24	05:14	06:17	07:21	08:25			08:33		14:47 (35)	09:13		12:53 (36)
	22:05	20:54	19:30	18:10			16:07	24	15:11 (35)	15:53	31	13:24 (36)
25	05:16	06:19	07:23	07:27			08:35		14:49 (35)	09:13		12:53 (36)
	22:03	20:52	19:27	17:08			16:05	21	15:10 (35)	15:54	31	13:24 (36)
26	05:18	06:21	07:25	07:29			08:37		14:51 (35)	09:13		12:54 (36)
	22:01	20:49	19:25	17:05			16:04	19	15:10 (35)	15:54	30	13:24 (36)
27	05:20	06:23	07:27	07:31			08:39		14:52 (35)	09:14		12:54 (36)
	21:59	20:46	19:22	17:03			16:03	16	15:08 (35)	15:55	30	13:24 (36)
28	05:22	06:25	07:29	07:34		14:52 (35)	08:41		12:54 (36)	09:14		12:55 (36)
	21:57	20:44	19:19	17:01	9	15:01 (35)	16:02	18	15:06 (35)	15:56	30	13:25 (36)
29	05:24	06:27	07:31	07:36		14:48 (35)	08:43		12:51 (36)	09:14		12:56 (36)
	21:55	20:41	19:16	16:58	16	15:04 (35)	16:00	19	15:04 (35)	15:57	29	13:25 (36)
30	05:26	06:29	07:33	07:38		14:46 (35)	08:44		12:50 (36)	09:14		12:56 (36)
	21:53	20:39	19:14	16:56	21	15:07 (35)	15:59	15	13:05 (36)	15:58	29	13:25 (36)
31	05:27	06:31		07:40		14:44 (35)				09:14		12:57 (36)
	21:51	20:36		16:53	24	15:08 (35)				15:59	29	13:26 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					70			885			867	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.68			0.68			0.67	
Total reduction					0.27			0.15			0.14	
Total, real					19			130			122	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CL - Jostnieki G

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		13:04 (36)	08:35		15:13 (35)	07:30	07:06	05:47	04:48
	16:01	29	13:33 (36)	17:00	36	15:49 (35)	18:04	20:12	21:16	22:15
2	09:13		13:05 (36)	08:33		15:14 (35)	07:27	07:03	05:45	04:47
	16:02	28	13:33 (36)	17:02	35	15:49 (35)	18:06	20:14	21:18	22:17
3	09:13		13:05 (36)	08:31		15:14 (35)	07:24	07:00	05:42	04:46
	16:03	28	13:33 (36)	17:04	36	15:50 (35)	18:08	20:16	21:20	22:18
4	09:12		13:06 (36)	08:29		15:14 (35)	07:22	06:57	05:40	04:45
	16:05	28	13:34 (36)	17:07	35	15:49 (35)	18:11	20:18	21:22	22:20
5	09:12		13:07 (36)	08:27		15:15 (35)	07:19	06:55	05:38	04:44
	16:06	27	13:34 (36)	17:09	34	15:49 (35)	18:13	20:20	21:25	22:21
6	09:11		13:08 (36)	08:25		15:16 (35)	07:16	06:52	05:36	04:43
	16:08	26	13:34 (36)	17:11	33	15:49 (35)	18:15	20:22	21:27	22:22
7	09:11		13:09 (36)	08:23		15:15 (35)	07:14	06:49	05:33	04:42
	16:09	25	13:34 (36)	17:14	33	15:48 (35)	18:17	20:24	21:29	22:23
8	09:10		13:10 (36)	08:21		15:17 (35)	07:11	06:46	05:31	04:41
	16:11	23	13:33 (36)	17:16	31	15:48 (35)	18:20	20:27	21:31	22:24
9	09:09		13:11 (36)	08:19		15:17 (35)	07:08	06:44	05:29	04:41
	16:12	22	13:33 (36)	17:18	30	15:47 (35)	18:22	20:29	21:33	22:26
10	09:08		13:12 (36)	08:16		15:18 (35)	07:06	06:41	05:27	04:40
	16:14	21	13:33 (36)	17:21	29	15:47 (35)	18:24	20:31	21:35	22:27
11	09:07		13:13 (36)	08:14		15:19 (35)	07:03	06:38	05:24	04:39
	16:16	19	13:32 (36)	17:23	26	15:45 (35)	18:26	20:33	21:37	22:28
12	09:06		13:14 (36)	08:12		15:21 (35)	07:00	06:36	05:22	04:39
	16:18	18	13:32 (36)	17:25	23	15:44 (35)	18:28	20:35	21:39	22:28
13	09:05		13:17 (36)	08:09		15:23 (35)	06:58	06:33	05:20	04:38
	16:20	14	13:31 (36)	17:27	19	15:42 (35)	18:31	20:37	21:41	22:29
14	09:04		13:18 (36)	08:07		15:26 (35)	06:55	06:30	05:18	04:38
	16:21	11	13:29 (36)	17:30	14	15:40 (35)	18:33	20:39	21:43	22:30
15	09:03		13:23 (36)	08:05			06:52	06:28	05:16	04:38
	16:23	2	13:25 (36)	17:32			18:35	20:42	21:45	22:31
16	09:02		15:22 (35)	08:02			06:49	06:25	05:14	04:37
	16:25	10	15:32 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		15:20 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	15	15:35 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		15:19 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	18	15:37 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		15:17 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	21	15:38 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:17 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	23	15:40 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:16 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	26	15:42 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		15:16 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	27	15:43 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		15:15 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	29	15:44 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		15:15 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	29	15:44 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:14 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	31	15:45 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:14 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	32	15:46 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:14 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	33	15:47 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		15:14 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	34	15:48 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:14 (35)				07:14	05:52	04:52	04:40
	16:53	34	15:48 (35)				20:05	21:12	22:11	22:33
30	08:39		15:14 (35)				07:11	05:50	04:51	04:41
	16:55	35	15:49 (35)				20:07	21:14	22:12	22:33
31	08:37		15:13 (35)				07:08		04:50	
	16:57	35	15:48 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		753			414					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.67			0.68					
Total reduction		0.17			0.21					
Total, real		131			88					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CL - Jostnieki G

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:48 (35)	08:46		12:55 (36)
	22:32	21:49	20:33	19:11			16:51	28	15:16 (35)	15:58	19	13:14 (36)
2	04:43	05:31	06:35	07:37			07:45		14:46 (35)	08:48		12:54 (36)
	22:32	21:47	20:30	19:08			16:49	31	15:17 (35)	15:57	21	13:15 (36)
3	04:44	05:33	06:37	07:39			07:47		14:46 (35)	08:50		12:54 (36)
	22:31	21:45	20:28	19:05			16:47	32	15:18 (35)	15:56	22	13:16 (36)
4	04:45	05:35	06:40	07:42			07:49		14:45 (35)	08:51		12:54 (36)
	22:31	21:43	20:25	19:03			16:44	33	15:18 (35)	15:55	24	13:18 (36)
5	04:46	05:37	06:42	07:44			07:52		14:45 (35)	08:53		12:54 (36)
	22:30	21:41	20:22	19:00			16:42	34	15:19 (35)	15:55	25	13:19 (36)
6	04:47	05:40	06:44	07:46			07:54		14:44 (35)	08:55		12:54 (36)
	22:29	21:38	20:20	18:57			16:40	35	15:19 (35)	15:54	26	13:20 (36)
7	04:48	05:42	06:46	07:48			07:56		14:45 (35)	08:56		12:54 (36)
	22:28	21:36	20:17	18:55			16:38	35	15:20 (35)	15:53	27	13:21 (36)
8	04:49	05:44	06:48	07:50			07:58		14:44 (35)	08:58		12:54 (36)
	22:27	21:34	20:14	18:52			16:36	35	15:19 (35)	15:53	27	13:21 (36)
9	04:50	05:46	06:50	07:52			08:01		14:45 (35)	08:59		12:54 (36)
	22:26	21:31	20:11	18:49			16:34	35	15:20 (35)	15:52	28	13:22 (36)
10	04:52	05:48	06:52	07:54			08:03		14:44 (35)	09:00		12:54 (36)
	22:25	21:29	20:09	18:46			16:32	36	15:20 (35)	15:52	28	13:22 (36)
11	04:53	05:50	06:54	07:56			08:05		14:45 (35)	09:02		12:55 (36)
	22:24	21:27	20:06	18:44			16:29	35	15:20 (35)	15:51	29	13:24 (36)
12	04:54	05:52	06:56	07:59			08:07		14:45 (35)	09:03		12:54 (36)
	22:23	21:24	20:03	18:41			16:27	35	15:20 (35)	15:51	30	13:24 (36)
13	04:56	05:54	06:58	08:01			08:10		14:46 (35)	09:04		12:54 (36)
	22:22	21:22	20:00	18:39			16:26	34	15:20 (35)	15:51	30	13:24 (36)
14	04:57	05:56	07:00	08:03			08:12		14:46 (35)	09:05		12:56 (36)
	22:21	21:20	19:58	18:36			16:24	33	15:19 (35)	15:50	30	13:26 (36)
15	04:59	05:58	07:02	08:05			08:14		14:47 (35)	09:06		12:56 (36)
	22:19	21:17	19:55	18:33			16:22	33	15:20 (35)	15:50	30	13:26 (36)
16	05:00	06:00	07:04	08:07			08:16		14:47 (35)	09:07		12:56 (36)
	22:18	21:15	19:52	18:31			16:20	32	15:19 (35)	15:50	30	13:26 (36)
17	05:02	06:02	07:06	08:09			08:18		14:48 (35)	09:08		12:57 (36)
	22:16	21:12	19:49	18:28			16:18	31	15:19 (35)	15:50	30	13:27 (36)
18	05:04	06:04	07:08	08:12			08:20		14:49 (35)	09:09		12:56 (36)
	22:15	21:10	19:47	18:25			16:16	29	15:18 (35)	15:51	31	13:27 (36)
19	05:05	06:06	07:10	08:14			08:23		14:49 (35)	09:10		12:57 (36)
	22:13	21:07	19:44	18:23			16:15	29	15:18 (35)	15:51	31	13:28 (36)
20	05:07	06:08	07:12	08:16			08:25		14:51 (35)	09:11		12:57 (36)
	22:12	21:05	19:41	18:20			16:13	27	15:18 (35)	15:51	31	13:28 (36)
21	05:09	06:11	07:15	08:18			08:27		14:51 (35)	09:11		12:57 (36)
	22:10	21:02	19:38	18:18			16:11	26	15:17 (35)	15:51	31	13:28 (36)
22	05:11	06:13	07:17	08:20			08:29		14:53 (35)	09:12		12:58 (36)
	22:08	20:59	19:36	18:15			16:10	23	15:16 (35)	15:52	31	13:29 (36)
23	05:12	06:15	07:19	08:23			08:31		14:54 (35)	09:12		12:58 (36)
	22:07	20:57	19:33	18:13			16:08	21	15:15 (35)	15:52	31	13:29 (36)
24	05:14	06:17	07:21	08:25			08:33		14:56 (35)	09:13		13:00 (36)
	22:05	20:54	19:30	18:10			16:07	18	15:14 (35)	15:53	30	13:30 (36)
25	05:16	06:19	07:23	07:27			08:35		14:57 (35)	09:13		13:00 (36)
	22:03	20:52	19:27	17:08			16:05	15	15:12 (35)	15:54	31	13:31 (36)
26	05:18	06:21	07:25	07:29			08:37		15:01 (35)	09:13		13:00 (36)
	22:01	20:49	19:25	17:05			16:04	10	15:11 (35)	15:54	31	13:31 (36)
27	05:20	06:23	07:27	07:31		15:00 (35)	08:39		15:05 (35)	09:14		13:01 (36)
	21:59	20:46	19:22	17:03	6	15:06 (35)	16:03	2	15:07 (35)	15:55	30	13:31 (36)
28	05:22	06:25	07:29	07:34		14:55 (35)	08:41		12:59 (36)	09:14		13:01 (36)
	21:57	20:44	19:19	17:01	15	15:10 (35)	16:02	10	13:09 (36)	15:56	31	13:32 (36)
29	05:24	06:27	07:31	07:36		14:52 (35)	08:43		12:57 (36)	09:14		13:02 (36)
	21:55	20:41	19:16	16:58	20	15:12 (35)	16:00	14	13:11 (36)	15:57	30	13:32 (36)
30	05:26	06:29	07:33	07:38		14:50 (35)	08:44		12:56 (36)	09:14		13:02 (36)
	21:53	20:39	19:14	16:56	24	15:14 (35)	15:59	17	13:13 (36)	15:58	30	13:32 (36)
31	05:27	06:31		07:40		14:48 (35)				09:14		13:03 (36)
	21:51	20:36		16:53	27	15:15 (35)				15:59	30	13:33 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					92			808			885	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.68			0.68			0.67	
Total reduction					0.27			0.15			0.14	
Total, real					25			119			125	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CM - Jostnieki H

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:33 (36)	08:36		14:49 (35)	07:30	07:06	05:47	04:48
	16:01	30	13:03 (36)	17:00	39	15:28 (35)	18:04	20:12	21:16	22:15
2	09:13		12:33 (36)	08:34		14:49 (35)	07:27	07:03	05:45	04:47
	16:02	30	13:03 (36)	17:02	40	15:29 (35)	18:06	20:14	21:18	22:17
3	09:13		12:34 (36)	08:31		14:50 (35)	07:24	07:00	05:42	04:46
	16:03	29	13:03 (36)	17:04	39	15:29 (35)	18:08	20:16	21:20	22:18
4	09:12		12:35 (36)	08:29		14:50 (35)	07:22	06:57	05:40	04:45
	16:05	29	13:04 (36)	17:07	38	15:28 (35)	18:11	20:18	21:22	22:20
5	09:12		12:36 (36)	08:27		14:51 (35)	07:19	06:55	05:38	04:44
	16:06	28	13:04 (36)	17:09	37	15:28 (35)	18:13	20:20	21:25	22:21
6	09:11		12:36 (36)	08:25		14:52 (35)	07:16	06:52	05:36	04:43
	16:08	30	15:02 (35)	17:11	36	15:28 (35)	18:15	20:22	21:27	22:22
7	09:11		12:37 (36)	08:23		14:52 (35)	07:14	06:49	05:33	04:42
	16:09	36	15:06 (35)	17:14	35	15:27 (35)	18:17	20:24	21:29	22:23
8	09:10		12:38 (36)	08:21		14:54 (35)	07:11	06:46	05:31	04:41
	16:11	38	15:08 (35)	17:16	32	15:26 (35)	18:20	20:27	21:31	22:24
9	09:09		12:39 (36)	08:19		14:54 (35)	07:08	06:44	05:29	04:41
	16:12	40	15:10 (35)	17:18	31	15:25 (35)	18:22	20:29	21:33	22:26
10	09:08		12:41 (36)	08:16		14:56 (35)	07:06	06:41	05:27	04:40
	16:14	41	15:12 (35)	17:21	28	15:24 (35)	18:24	20:31	21:35	22:27
11	09:07		12:41 (36)	08:14		14:57 (35)	07:03	06:38	05:25	04:39
	16:16	42	15:13 (35)	17:23	25	15:22 (35)	18:26	20:33	21:37	22:28
12	09:06		12:43 (36)	08:12		15:00 (35)	07:00	06:36	05:22	04:39
	16:18	41	15:14 (35)	17:25	20	15:20 (35)	18:28	20:35	21:39	22:28
13	09:05		12:45 (36)	08:09		15:03 (35)	06:58	06:33	05:20	04:38
	16:20	41	15:16 (35)	17:27	14	15:17 (35)	18:31	20:37	21:41	22:29
14	09:04		12:47 (36)	08:07			06:55	06:30	05:18	04:38
	16:21	39	15:17 (35)	17:30			18:33	20:39	21:43	22:30
15	09:03		12:50 (36)	08:05			06:52	06:28	05:16	04:38
	16:23	36	15:19 (35)	17:32			18:35	20:42	21:45	22:31
16	09:02		14:49 (35)	08:02			06:49	06:25	05:14	04:37
	16:25	30	15:19 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		14:49 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	32	15:21 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:49 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	32	15:21 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:48 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	34	15:22 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:49 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	35	15:24 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:48 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	36	15:24 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:48 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	37	15:25 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:48 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	38	15:26 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:48 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	38	15:26 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:48 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	39	15:27 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:48 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	39	15:27 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:48 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	40	15:28 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:48 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	40	15:28 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:48 (35)				07:14	05:52	04:52	04:40
	16:53	40	15:28 (35)				20:05	21:12	22:11	22:33
30	08:39		14:49 (35)				07:11	05:50	04:51	04:41
	16:55	40	15:29 (35)				20:07	21:14	22:12	22:33
31	08:37		14:48 (35)				07:08		04:50	
	16:57	40	15:28 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1120			414					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.18			0.22					
Total, real		196			89					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CM - Jostnieki H

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:25 (35)	08:46		12:23 (36)
	22:32	21:49	20:33	19:11			16:51	29	14:54 (35)	15:58	42	14:55 (35)
2	04:43	05:31	06:35	07:37			07:45		14:24 (35)	08:48		12:23 (36)
	22:32	21:47	20:30	19:08			16:49	30	14:54 (35)	15:57	41	14:54 (35)
3	04:44	05:33	06:38	07:39			07:47		14:23 (35)	08:50		12:22 (36)
	22:31	21:45	20:28	19:05			16:47	33	14:56 (35)	15:56	40	14:53 (35)
4	04:45	05:35	06:40	07:42			07:49		14:22 (35)	08:51		12:22 (36)
	22:31	21:43	20:25	19:03			16:44	34	14:56 (35)	15:55	38	14:52 (35)
5	04:46	05:38	06:42	07:44			07:52		14:22 (35)	08:53		12:22 (36)
	22:30	21:41	20:22	19:00			16:42	35	14:57 (35)	15:55	36	14:51 (35)
6	04:47	05:40	06:44	07:46			07:54		14:21 (35)	08:55		12:22 (36)
	22:29	21:38	20:20	18:57			16:40	37	14:58 (35)	15:54	31	14:49 (35)
7	04:48	05:42	06:46	07:48			07:56		14:21 (35)	08:56		12:23 (36)
	22:28	21:36	20:17	18:55			16:38	38	14:59 (35)	15:53	28	12:51 (36)
8	04:49	05:44	06:48	07:50			07:58		14:20 (35)	08:58		12:22 (36)
	22:27	21:34	20:14	18:52			16:36	39	14:59 (35)	15:53	29	12:51 (36)
9	04:50	05:46	06:50	07:52			08:01		14:20 (35)	08:59		12:23 (36)
	22:26	21:32	20:11	18:49			16:34	39	14:59 (35)	15:52	29	12:52 (36)
10	04:52	05:48	06:52	07:54			08:03		14:19 (35)	09:00		12:22 (36)
	22:25	21:29	20:09	18:46			16:32	40	14:59 (35)	15:52	30	12:52 (36)
11	04:53	05:50	06:54	07:56			08:05		14:20 (35)	09:02		12:23 (36)
	22:24	21:27	20:06	18:44			16:29	40	15:00 (35)	15:51	30	12:53 (36)
12	04:54	05:52	06:56	07:59			08:07		14:19 (35)	09:03		12:23 (36)
	22:23	21:24	20:03	18:41			16:28	41	15:00 (35)	15:51	31	12:54 (36)
13	04:56	05:54	06:58	08:01			08:10		14:20 (35)	09:04		12:23 (36)
	22:22	21:22	20:00	18:39			16:26	40	15:00 (35)	15:51	31	12:54 (36)
14	04:57	05:56	07:00	08:03			08:12		14:20 (35)	09:05		12:24 (36)
	22:21	21:20	19:58	18:36			16:24	40	15:00 (35)	15:50	31	12:55 (36)
15	04:59	05:58	07:02	08:05			08:14		14:21 (35)	09:06		12:24 (36)
	22:19	21:17	19:55	18:33			16:22	40	15:01 (35)	15:50	32	12:56 (36)
16	05:00	06:00	07:04	08:07			08:16		14:21 (35)	09:07		12:25 (36)
	22:18	21:15	19:52	18:31			16:20	39	15:00 (35)	15:50	31	12:56 (36)
17	05:02	06:02	07:06	08:09			08:18		14:22 (35)	09:08		12:25 (36)
	22:16	21:12	19:49	18:28			16:18	39	15:01 (35)	15:50	32	12:57 (36)
18	05:04	06:04	07:08	08:12			08:20		14:22 (35)	09:09		12:25 (36)
	22:15	21:10	19:47	18:25			16:16	38	15:00 (35)	15:51	32	12:57 (36)
19	05:05	06:06	07:10	08:14			08:23		14:22 (35)	09:10		12:25 (36)
	22:13	21:07	19:44	18:23			16:15	38	15:00 (35)	15:51	32	12:57 (36)
20	05:07	06:08	07:12	08:16			08:25		14:23 (35)	09:11		12:26 (36)
	22:12	21:05	19:41	18:20			16:13	37	15:00 (35)	15:51	32	12:58 (36)
21	05:09	06:11	07:15	08:18			08:27		14:23 (35)	09:11		12:26 (36)
	22:10	21:02	19:38	18:18			16:11	36	14:59 (35)	15:51	32	12:58 (36)
22	05:11	06:13	07:17	08:20			08:29		14:25 (35)	09:12		12:27 (36)
	22:08	21:00	19:36	18:15			16:10	35	15:00 (35)	15:52	32	12:59 (36)
23	05:12	06:15	07:19	08:23			08:31		14:25 (35)	09:12		12:27 (36)
	22:07	20:57	19:33	18:13			16:08	34	14:59 (35)	15:52	32	12:59 (36)
24	05:14	06:17	07:21	08:25			08:33		14:26 (35)	09:13		12:28 (36)
	22:05	20:54	19:30	18:10			16:07	33	14:59 (35)	15:53	32	13:00 (36)
25	05:16	06:19	07:23	07:27			08:35		14:26 (35)	09:13		12:28 (36)
	22:03	20:52	19:27	17:08			16:05	32	14:58 (35)	15:54	32	13:00 (36)
26	05:18	06:21	07:25	07:29			08:37		14:28 (35)	09:13		12:29 (36)
	22:01	20:49	19:25	17:05			16:04	30	14:58 (35)	15:54	32	13:01 (36)
27	05:20	06:23	07:27	07:31			08:39		12:30 (36)	09:14		12:29 (36)
	21:59	20:46	19:22	17:03			16:03	35	14:58 (35)	15:55	32	13:01 (36)
28	05:22	06:25	07:29	07:34		14:37 (35)	08:41		12:27 (36)	09:14		12:30 (36)
	21:57	20:44	19:19	17:01	6	14:43 (35)	16:02	39	14:57 (35)	15:56	32	13:02 (36)
29	05:24	06:27	07:31	07:36		14:31 (35)	08:43		12:25 (36)	09:14		12:31 (36)
	21:55	20:41	19:16	16:58	16	14:47 (35)	16:00	41	14:56 (35)	15:57	31	13:02 (36)
30	05:26	06:29	07:33	07:38		14:29 (35)	08:44		12:24 (36)	09:14		12:31 (36)
	21:53	20:39	19:14	16:56	21	14:50 (35)	15:59	42	14:56 (35)	15:58	31	13:02 (36)
31	05:28	06:31		07:40		14:27 (35)				09:14		12:32 (36)
	21:51	20:36		16:53	25	14:52 (35)				15:59	30	13:02 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					68			1103			1006	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.69			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					19			163			142	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CN - Jostnieki I

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:13		12:37 (36)	08:36	14:56 (35)	07:30	07:06	05:47	04:48
	16:01	32	13:09 (36)	17:00	40	15:36 (35)	18:04	20:12	21:16	22:15
2	09:13		12:37 (36)	08:33	14:56 (35)	07:27	07:03	05:45	04:47
	16:02	32	13:09 (36)	17:02	41	15:37 (35)	18:06	20:14	21:18	22:17
3	09:13		12:38 (36)	08:31	14:57 (35)	07:24	07:00	05:42	04:46
	16:03	31	13:09 (36)	17:04	40	15:37 (35)	18:08	20:16	21:20	22:18
4	09:12		12:39 (36)	08:29	14:57 (35)	07:22	06:57	05:40	04:45
	16:05	31	13:10 (36)	17:07	39	15:36 (35)	18:11	20:18	21:22	22:20
5	09:12		12:40 (36)	08:27	14:57 (35)	07:19	06:55	05:38	04:44
	16:06	30	13:10 (36)	17:09	40	15:37 (35)	18:13	20:20	21:25	22:21
6	09:11		12:40 (36)	08:25	14:58 (35)	07:16	06:52	05:36	04:43
	16:08	30	13:10 (36)	17:11	39	15:37 (35)	18:15	20:22	21:27	22:22
7	09:11		12:41 (36)	08:23	14:58 (35)	07:14	06:49	05:33	04:42
	16:09	29	13:10 (36)	17:14	38	15:36 (35)	18:17	20:24	21:29	22:23
8	09:10		12:42 (36)	08:21	14:59 (35)	07:11	06:46	05:31	04:41
	16:11	28	13:10 (36)	17:16	37	15:36 (35)	18:20	20:27	21:31	22:24
9	09:09		12:43 (36)	08:19	14:59 (35)	07:08	06:44	05:29	04:41
	16:12	27	13:10 (36)	17:18	36	15:35 (35)	18:22	20:29	21:33	22:26
10	09:08		12:44 (36)	08:16	15:01 (35)	07:06	06:41	05:27	04:40
	16:14	26	13:10 (36)	17:21	33	15:34 (35)	18:24	20:31	21:35	22:27
11	09:07		12:44 (36)	08:14	15:01 (35)	07:03	06:38	05:25	04:39
	16:16	25	13:09 (36)	17:23	32	15:33 (35)	18:26	20:33	21:37	22:28
12	09:06		12:46 (36)	08:12	15:03 (35)	07:00	06:36	05:22	04:39
	16:18	34	15:16 (35)	17:25	29	15:32 (35)	18:28	20:35	21:39	22:28
13	09:05		12:48 (36)	08:09	15:04 (35)	06:58	06:33	05:20	04:38
	16:20	34	15:18 (35)	17:27	26	15:30 (35)	18:31	20:37	21:41	22:29
14	09:04		12:49 (36)	08:07	15:07 (35)	06:55	06:30	05:18	04:38
	16:21	36	15:20 (35)	17:30	22	15:29 (35)	18:33	20:39	21:43	22:30
15	09:03		12:51 (36)	08:05	15:09 (35)	06:52	06:28	05:16	04:38
	16:23	36	15:22 (35)	17:32	17	15:26 (35)	18:35	20:42	21:45	22:31
16	09:02		12:53 (36)	08:02	15:15 (35)	06:49	06:25	05:14	04:37
	16:25	34	15:23 (35)	17:34	7	15:22 (35)	18:37	20:44	21:47	22:31
17	09:01		15:00 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	25	15:25 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:59 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	27	15:26 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:58 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	29	15:27 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:58 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	31	15:29 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:58 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	32	15:30 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:57 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	34	15:31 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:57 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	35	15:32 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:56 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	37	15:33 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:56 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	37	15:33 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:56 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	38	15:34 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:56 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	39	15:35 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:56 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	39	15:35 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:56 (35)				07:14	05:52	04:52	04:40
	16:53	40	15:36 (35)				20:05	21:12	22:11	22:33
30	08:39		14:56 (35)				07:11	05:50	04:51	04:41
	16:55	40	15:36 (35)				20:07	21:14	22:12	22:33
31	08:37		14:56 (35)				07:08		04:50	
	16:57	40	15:36 (35)				20:09		22:14	
Potential sun hours	231			264		366	428	512	534
Total, worst case		1018			516				
Sun reduction		0.28			0.33				
Oper. time red.		0.94			0.94				
Wind dir. red.		0.68			0.69				
Total reduction		0.17			0.21				
Total, real		178			111				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CN - Jostnieki I

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:30 (35)	08:46		12:27 (36)
	22:32	21:49	20:33	19:11			16:51	34	15:04 (35)	15:58	26	14:53 (35)
2	04:43	05:31	06:35	07:37			07:45		14:29 (35)	08:48		12:26 (36)
	22:32	21:47	20:30	19:08			16:49	35	15:04 (35)	15:57	26	12:52 (36)
3	04:44	05:33	06:38	07:39			07:47		14:29 (35)	08:50		12:26 (36)
	22:31	21:45	20:28	19:05			16:47	36	15:05 (35)	15:56	27	12:53 (36)
4	04:45	05:35	06:40	07:42			07:49		14:28 (35)	08:51		12:26 (36)
	22:31	21:43	20:25	19:03			16:44	37	15:05 (35)	15:55	28	12:54 (36)
5	04:46	05:38	06:42	07:44			07:52		14:28 (35)	08:53		12:26 (36)
	22:30	21:41	20:22	19:00			16:42	38	15:06 (35)	15:55	29	12:55 (36)
6	04:47	05:40	06:44	07:46			07:54		14:27 (35)	08:55		12:26 (36)
	22:29	21:38	20:20	18:57			16:40	39	15:06 (35)	15:54	30	12:56 (36)
7	04:48	05:42	06:46	07:48			07:56		14:27 (35)	08:56		12:27 (36)
	22:28	21:36	20:17	18:55			16:38	40	15:07 (35)	15:53	30	12:57 (36)
8	04:49	05:44	06:48	07:50			07:58		14:27 (35)	08:58		12:26 (36)
	22:27	21:34	20:14	18:52			16:36	40	15:07 (35)	15:53	31	12:57 (36)
9	04:50	05:46	06:50	07:52			08:01		14:27 (35)	08:59		12:27 (36)
	22:26	21:31	20:11	18:49			16:34	41	15:08 (35)	15:52	31	12:58 (36)
10	04:52	05:48	06:52	07:54			08:03		14:27 (35)	09:00		12:26 (36)
	22:25	21:29	20:09	18:46			16:32	40	15:07 (35)	15:52	32	12:58 (36)
11	04:53	05:50	06:54	07:56			08:05		14:27 (35)	09:02		12:27 (36)
	22:24	21:27	20:06	18:44			16:29	41	15:08 (35)	15:51	32	12:59 (36)
12	04:54	05:52	06:56	07:59			08:07		14:27 (35)	09:03		12:27 (36)
	22:23	21:24	20:03	18:41			16:28	40	15:07 (35)	15:51	33	13:00 (36)
13	04:56	05:54	06:58	08:01			08:10		14:28 (35)	09:04		12:27 (36)
	22:22	21:22	20:00	18:39			16:26	40	15:08 (35)	15:51	33	13:00 (36)
14	04:57	05:56	07:00	08:03			08:12		14:28 (35)	09:05		12:28 (36)
	22:21	21:20	19:58	18:36			16:24	39	15:07 (35)	15:50	33	13:01 (36)
15	04:59	05:58	07:02	08:05			08:14		14:29 (35)	09:06		12:29 (36)
	22:19	21:17	19:55	18:33			16:22	39	15:08 (35)	15:50	33	13:02 (36)
16	05:00	06:00	07:04	08:07			08:16		14:29 (35)	09:07		12:29 (36)
	22:18	21:15	19:52	18:31			16:20	38	15:07 (35)	15:50	33	13:02 (36)
17	05:02	06:02	07:06	08:09			08:18		14:30 (35)	09:08		11:22 (37)
	22:16	21:12	19:49	18:28			16:18	37	15:07 (35)	15:50	37	13:03 (36)
18	05:04	06:04	07:08	08:12			08:20		14:30 (35)	09:09		11:21 (37)
	22:15	21:10	19:47	18:25			16:16	37	15:07 (35)	15:51	38	13:02 (36)
19	05:05	06:06	07:10	08:14			08:23		14:31 (35)	09:10		11:21 (37)
	22:13	21:07	19:44	18:23			16:15	35	15:06 (35)	15:51	39	13:03 (36)
20	05:07	06:08	07:12	08:16			08:25		14:32 (35)	09:11		11:21 (37)
	22:12	21:05	19:41	18:20			16:13	34	15:06 (35)	15:51	41	13:04 (36)
21	05:09	06:11	07:15	08:18			08:27		14:33 (35)	09:11		11:21 (37)
	22:10	21:02	19:38	18:18			16:11	32	15:05 (35)	15:51	41	13:04 (36)
22	05:11	06:13	07:17	08:20			08:29		14:34 (35)	09:12		11:22 (37)
	22:08	21:00	19:36	18:15			16:10	31	15:05 (35)	15:52	41	13:05 (36)
23	05:12	06:15	07:19	08:23			08:31		14:35 (35)	09:12		11:22 (37)
	22:07	20:57	19:33	18:13			16:08	29	15:04 (35)	15:52	41	13:05 (36)
24	05:14	06:17	07:21	08:25			08:33		14:36 (35)	09:13		11:23 (37)
	22:05	20:54	19:30	18:10			16:07	28	15:04 (35)	15:53	41	13:06 (36)
25	05:16	06:19	07:23	07:27			08:35		14:37 (35)	09:13		11:24 (37)
	22:03	20:52	19:27	17:08			16:05	26	15:03 (35)	15:54	39	13:06 (36)
26	05:18	06:21	07:25	07:29		14:42 (35)	08:37		12:32 (36)	09:13		11:25 (37)
	22:01	20:49	19:25	17:05	11	14:53 (35)	16:04	35	15:03 (35)	15:54	38	13:07 (36)
27	05:20	06:23	07:27	07:31		14:39 (35)	08:39		12:30 (36)	09:14		12:34 (36)
	21:59	20:46	19:22	17:03	18	14:57 (35)	16:03	36	15:01 (35)	15:55	33	13:07 (36)
28	05:22	06:25	07:29	07:34		14:36 (35)	08:41		12:29 (36)	09:14		12:34 (36)
	21:57	20:44	19:19	17:01	23	14:59 (35)	16:02	36	15:00 (35)	15:56	34	13:08 (36)
29	05:24	06:27	07:31	07:36		14:33 (35)	08:43		12:28 (36)	09:14		12:35 (36)
	21:55	20:41	19:16	16:58	27	15:00 (35)	16:00	35	14:59 (35)	15:57	33	13:08 (36)
30	05:26	06:29	07:33	07:38		14:32 (35)	08:44		12:27 (36)	09:14		12:35 (36)
	21:53	20:39	19:14	16:56	30	15:02 (35)	15:59	34	14:57 (35)	15:58	33	13:08 (36)
31	05:28	06:31		07:40		14:31 (35)				09:14		12:36 (36)
	21:51	20:36		16:53	31	15:02 (35)				15:59	32	13:08 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					140			1082			1048	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.68			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					38			160			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CO - Jostnieki J

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:13		12:37 (36)	08:36	14:57 (35)	07:30	07:06	05:47	04:48
	16:01	33	13:10 (36)	17:00	41	15:38 (35)	18:04	20:12	21:16	22:15
2	09:13		12:37 (36)	08:33	14:58 (35)	07:27	07:03	05:45	04:47
	16:02	33	13:10 (36)	17:02	41	15:39 (35)	18:06	20:14	21:18	22:17
3	09:13		12:37 (36)	08:31	14:58 (35)	07:24	07:00	05:42	04:46
	16:03	32	13:09 (36)	17:04	41	15:39 (35)	18:08	20:16	21:20	22:18
4	09:12		12:39 (36)	08:29	14:58 (35)	07:22	06:57	05:40	04:45
	16:05	31	13:10 (36)	17:07	40	15:38 (35)	18:11	20:18	21:22	22:20
5	09:12		12:39 (36)	08:27	14:59 (35)	07:19	06:55	05:38	04:44
	16:06	31	13:10 (36)	17:09	40	15:39 (35)	18:13	20:20	21:25	22:21
6	09:11		12:40 (36)	08:25	14:59 (35)	07:16	06:52	05:36	04:43
	16:08	30	13:10 (36)	17:11	40	15:39 (35)	18:15	20:22	21:27	22:22
7	09:11		12:41 (36)	08:23	14:59 (35)	07:14	06:49	05:33	04:42
	16:09	29	13:10 (36)	17:14	39	15:38 (35)	18:17	20:24	21:29	22:23
8	09:10		12:41 (36)	08:21	15:00 (35)	07:11	06:46	05:31	04:41
	16:11	29	13:10 (36)	17:16	38	15:38 (35)	18:20	20:27	21:31	22:24
9	09:09		12:42 (36)	08:19	15:00 (35)	07:08	06:44	05:29	04:41
	16:12	28	13:10 (36)	17:18	37	15:37 (35)	18:22	20:29	21:33	22:26
10	09:08		12:44 (36)	08:16	15:02 (35)	07:06	06:41	05:27	04:40
	16:14	26	13:10 (36)	17:21	35	15:37 (35)	18:24	20:31	21:35	22:27
11	09:07		12:44 (36)	08:14	15:02 (35)	07:03	06:38	05:25	04:39
	16:16	25	13:09 (36)	17:23	33	15:35 (35)	18:26	20:33	21:37	22:28
12	09:06		12:45 (36)	08:12	15:04 (35)	07:00	06:36	05:22	04:39
	16:18	24	13:09 (36)	17:25	31	15:35 (35)	18:28	20:35	21:39	22:28
13	09:05		12:47 (36)	08:09	15:05 (35)	06:58	06:33	05:20	04:38
	16:20	32	15:18 (35)	17:27	28	15:33 (35)	18:31	20:37	21:41	22:29
14	09:04		12:48 (36)	08:07	15:07 (35)	06:55	06:30	05:18	04:38
	16:21	35	15:20 (35)	17:30	25	15:32 (35)	18:33	20:39	21:43	22:30
15	09:03		12:50 (36)	08:05	15:08 (35)	06:52	06:28	05:16	04:38
	16:23	35	15:22 (35)	17:32	22	15:30 (35)	18:35	20:42	21:45	22:31
16	09:02		12:52 (36)	08:02	15:12 (35)	06:49	06:25	05:14	04:37
	16:25	35	15:24 (35)	17:34	15	15:27 (35)	18:37	20:44	21:47	22:31
17	09:01		12:55 (36)	08:00	15:18 (35)	06:47	06:23	05:12	04:37
	16:27	32	15:26 (35)	17:37	3	15:21 (35)	18:39	20:46	21:49	22:32
18	08:59		15:01 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	26	15:27 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		15:01 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	27	15:28 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		15:01 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	29	15:30 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		15:00 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	31	15:31 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:59 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	33	15:32 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:59 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	34	15:33 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:58 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	36	15:34 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:58 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	37	15:35 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:58 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	37	15:35 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:58 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	38	15:36 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:58 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	39	15:37 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:58 (35)				07:14	05:52	04:52	04:40
	16:53	39	15:37 (35)				20:05	21:12	22:11	22:33
30	08:39		14:58 (35)				07:11	05:50	04:51	04:41
	16:55	40	15:38 (35)				20:07	21:14	22:12	22:33
31	08:37		14:57 (35)				07:08		04:50	
	16:57	41	15:38 (35)				20:09		22:14	
Potential sun hours	231			264		366	428	512	534
Total, worst case		1007			549				
Sun reduction		0.28			0.33				
Oper. time red.		0.94			0.94				
Wind dir. red.		0.68			0.68				
Total reduction		0.17			0.21				
Total, real		176			118				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CO - Jostnieki J

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:31 (35)	08:46		12:26 (36)
	22:32	21:49	20:33	19:11			16:51	35	15:06 (35)	15:58	25	12:51 (36)
2	04:43	05:31	06:35	07:37			07:45		14:30 (35)	08:48		12:26 (36)
	22:32	21:47	20:30	19:08			16:49	37	15:07 (35)	15:57	26	12:52 (36)
3	04:44	05:33	06:38	07:39			07:47		14:30 (35)	08:50		12:26 (36)
	22:31	21:45	20:28	19:05			16:47	38	15:08 (35)	15:56	27	12:53 (36)
4	04:45	05:35	06:40	07:42			07:49		14:29 (35)	08:51		12:26 (36)
	22:31	21:43	20:25	19:03			16:44	39	15:08 (35)	15:55	28	12:54 (36)
5	04:46	05:38	06:42	07:44			07:52		14:29 (35)	08:53		12:26 (36)
	22:30	21:41	20:22	19:00			16:42	40	15:09 (35)	15:55	29	12:55 (36)
6	04:47	05:40	06:44	07:46			07:54		14:28 (35)	08:55		12:26 (36)
	22:29	21:38	20:20	18:57			16:40	40	15:08 (35)	15:54	30	12:56 (36)
7	04:48	05:42	06:46	07:48			07:56		14:29 (35)	08:56		12:26 (36)
	22:28	21:36	20:17	18:55			16:38	40	15:09 (35)	15:53	31	12:57 (36)
8	04:49	05:44	06:48	07:50			07:58		14:28 (35)	08:58		12:26 (36)
	22:27	21:34	20:14	18:52			16:36	41	15:09 (35)	15:53	31	12:57 (36)
9	04:50	05:46	06:50	07:52			08:01		14:29 (35)	08:59		12:26 (36)
	22:26	21:31	20:11	18:49			16:34	40	15:09 (35)	15:52	33	12:59 (36)
10	04:52	05:48	06:52	07:54			08:03		14:28 (35)	09:00		12:26 (36)
	22:25	21:29	20:09	18:46			16:32	41	15:09 (35)	15:52	33	12:59 (36)
11	04:53	05:50	06:54	07:56			08:05		14:29 (35)	09:02		12:27 (36)
	22:24	21:27	20:06	18:44			16:30	40	15:09 (35)	15:51	33	13:00 (36)
12	04:54	05:52	06:56	07:59			08:07		14:29 (35)	09:03		12:27 (36)
	22:23	21:24	20:03	18:41			16:28	40	15:09 (35)	15:51	33	13:00 (36)
13	04:56	05:54	06:58	08:01			08:10		14:30 (35)	09:04		12:27 (36)
	22:22	21:22	20:00	18:39			16:26	39	15:09 (35)	15:51	33	13:00 (36)
14	04:57	05:56	07:00	08:03			08:12		14:30 (35)	09:05		12:28 (36)
	22:21	21:20	19:58	18:36			16:24	39	15:09 (35)	15:50	34	13:02 (36)
15	04:59	05:58	07:02	08:05			08:14		14:31 (35)	09:06		11:21 (37)
	22:19	21:17	19:55	18:33			16:22	38	15:09 (35)	15:50	36	13:02 (36)
16	05:00	06:00	07:04	08:07			08:16		14:31 (35)	09:07		11:20 (37)
	22:18	21:15	19:52	18:31			16:20	37	15:08 (35)	15:50	39	13:03 (36)
17	05:02	06:02	07:06	08:09			08:18		14:32 (35)	09:08		11:19 (37)
	22:16	21:12	19:49	18:28			16:18	37	15:09 (35)	15:50	41	13:03 (36)
18	05:04	06:04	07:08	08:12			08:20		14:32 (35)	09:09		11:18 (37)
	22:15	21:10	19:47	18:25			16:16	36	15:08 (35)	15:51	43	13:03 (36)
19	05:05	06:06	07:10	08:14			08:23		14:33 (35)	09:10		11:19 (37)
	22:13	21:07	19:44	18:23			16:15	34	15:07 (35)	15:51	44	13:04 (36)
20	05:07	06:08	07:12	08:16			08:25		14:34 (35)	09:11		11:19 (37)
	22:12	21:05	19:41	18:20			16:13	33	15:07 (35)	15:51	44	13:04 (36)
21	05:09	06:11	07:15	08:18			08:27		14:35 (35)	09:11		11:19 (37)
	22:10	21:02	19:38	18:18			16:11	31	15:06 (35)	15:51	44	13:04 (36)
22	05:11	06:13	07:17	08:20			08:29		14:37 (35)	09:12		11:20 (37)
	22:08	21:00	19:36	18:15			16:10	29	15:06 (35)	15:52	44	13:05 (36)
23	05:12	06:15	07:19	08:23			08:31		14:38 (35)	09:12		11:20 (37)
	22:07	20:57	19:33	18:13			16:08	27	15:05 (35)	15:52	44	13:05 (36)
24	05:14	06:17	07:21	08:25			08:33		14:39 (35)	09:13		11:21 (37)
	22:05	20:54	19:30	18:10			16:07	25	15:04 (35)	15:53	45	13:07 (36)
25	05:16	06:19	07:23	07:27		14:45 (35)	08:35		12:32 (36)	09:13		11:22 (37)
	22:03	20:52	19:27	17:08	9	14:54 (35)	16:05	32	15:03 (35)	15:54	43	13:07 (36)
26	05:18	06:21	07:25	07:29		14:40 (35)	08:37		12:31 (36)	09:13		11:23 (37)
	22:01	20:49	19:25	17:05	18	14:58 (35)	16:04	35	15:03 (35)	15:54	42	13:07 (36)
27	05:20	06:23	07:27	07:31		14:38 (35)	08:39		12:29 (36)	09:14		11:24 (37)
	21:59	20:46	19:22	17:03	23	15:01 (35)	16:03	36	15:02 (35)	15:55	41	13:08 (36)
28	05:22	06:25	07:29	07:34		14:36 (35)	08:41		12:28 (36)	09:14		11:26 (37)
	21:57	20:44	19:19	17:01	26	15:02 (35)	16:02	35	15:00 (35)	15:56	38	13:08 (36)
29	05:24	06:27	07:31	07:36		14:34 (35)	08:43		12:27 (36)	09:14		12:35 (36)
	21:55	20:41	19:16	16:58	29	15:03 (35)	16:00	32	14:58 (35)	15:57	34	13:09 (36)
30	05:26	06:29	07:33	07:38		14:33 (35)	08:44		12:26 (36)	09:14		12:35 (36)
	21:53	20:39	19:14	16:56	32	15:05 (35)	15:59	24	12:50 (36)	15:58	33	13:08 (36)
31	05:28	06:31		07:40		14:31 (35)				09:14		12:36 (36)
	21:51	20:36		16:53	34	15:05 (35)				15:59	33	13:09 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					171			1070			1114	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.68			0.68			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					47			158			155	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CP - Jostnieki K

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:34 (36)	08:36		14:53 (35)	07:30	07:06	05:47	04:48
	16:01	32	13:06 (36)	17:00	40	15:33 (35)	18:04	20:12	21:16	22:15
2	09:13		12:34 (36)	08:33		14:53 (35)	07:27	07:03	05:45	04:47
	16:02	32	13:06 (36)	17:02	41	15:34 (35)	18:06	20:14	21:18	22:17
3	09:13		12:35 (36)	08:31		14:54 (35)	07:24	07:00	05:42	04:46
	16:03	31	13:06 (36)	17:04	40	15:34 (35)	18:08	20:16	21:20	22:18
4	09:12		12:36 (36)	08:29		14:54 (35)	07:22	06:57	05:40	04:45
	16:05	31	13:07 (36)	17:07	39	15:33 (35)	18:11	20:18	21:22	22:20
5	09:12		12:37 (36)	08:27		14:54 (35)	07:19	06:55	05:38	04:44
	16:06	30	13:07 (36)	17:09	39	15:33 (35)	18:13	20:20	21:25	22:21
6	09:11		12:37 (36)	08:25		14:55 (35)	07:16	06:52	05:36	04:43
	16:08	30	13:07 (36)	17:11	39	15:34 (35)	18:15	20:22	21:27	22:22
7	09:11		12:38 (36)	08:23		14:55 (35)	07:14	06:49	05:33	04:42
	16:09	29	13:07 (36)	17:14	38	15:33 (35)	18:17	20:24	21:29	22:23
8	09:10		12:39 (36)	08:21		14:56 (35)	07:11	06:46	05:31	04:41
	16:11	28	13:07 (36)	17:16	36	15:32 (35)	18:20	20:27	21:31	22:24
9	09:09		12:40 (36)	08:19		14:57 (35)	07:08	06:44	05:29	04:41
	16:12	27	13:07 (36)	17:18	34	15:31 (35)	18:22	20:29	21:33	22:26
10	09:08		12:41 (36)	08:16		14:58 (35)	07:06	06:41	05:27	04:40
	16:14	32	15:10 (35)	17:21	33	15:31 (35)	18:24	20:31	21:35	22:27
11	09:07		12:42 (36)	08:14		14:59 (35)	07:03	06:38	05:25	04:39
	16:16	35	15:12 (35)	17:23	30	15:29 (35)	18:26	20:33	21:37	22:28
12	09:06		12:43 (36)	08:12		15:01 (35)	07:00	06:36	05:22	04:39
	16:18	37	15:15 (35)	17:25	27	15:28 (35)	18:28	20:35	21:39	22:28
13	09:05		12:45 (36)	08:09		15:02 (35)	06:58	06:33	05:20	04:38
	16:20	38	15:17 (35)	17:27	24	15:26 (35)	18:31	20:37	21:41	22:29
14	09:04		12:46 (36)	08:07		15:05 (35)	06:55	06:30	05:18	04:38
	16:21	40	15:19 (35)	17:30	20	15:25 (35)	18:33	20:39	21:43	22:30
15	09:03		12:48 (36)	08:05		15:08 (35)	06:52	06:28	05:16	04:38
	16:23	39	15:21 (35)	17:32	13	15:21 (35)	18:35	20:42	21:45	22:31
16	09:02		12:51 (36)	08:02			06:49	06:25	05:14	04:37
	16:25	36	15:22 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		14:56 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	27	15:23 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:55 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	29	15:24 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:54 (35)	07:55			06:41	06:17	05:08	04:37
	16:31	31	15:25 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:55 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	32	15:27 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:54 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	34	15:28 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:54 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	35	15:29 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:53 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	36	15:29 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:53 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	37	15:30 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:53 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	38	15:31 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:53 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	38	15:31 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:53 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	39	15:32 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:53 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	39	15:32 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:53 (35)				07:14	05:52	04:52	04:40
	16:53	40	15:33 (35)				20:05	21:12	22:11	22:33
30	08:39		14:53 (35)				07:11	05:50	04:51	04:41
	16:55	41	15:34 (35)				20:07	21:14	22:12	22:33
31	08:37		14:52 (35)				07:08		04:50	
	16:57	41	15:33 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1064			493					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.17			0.22					
Total, real		186			106					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CP - Jostnieki K

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:28 (35)	08:46		12:24 (36)
	22:32	21:49	20:33	19:11			16:51	32	15:00 (35)	15:58	36	14:55 (35)
2	04:43	05:31	06:35	07:37			07:45		14:26 (35)	08:48		12:23 (36)
	22:32	21:47	20:30	19:08			16:49	35	15:01 (35)	15:57	32	14:52 (35)
3	04:44	05:33	06:38	07:39			07:47		14:26 (35)	08:50		12:23 (36)
	22:31	21:45	20:28	19:05			16:47	36	15:02 (35)	15:56	27	12:50 (36)
4	04:45	05:35	06:40	07:42			07:49		14:25 (35)	08:51		12:23 (36)
	22:31	21:43	20:25	19:03			16:44	37	15:02 (35)	15:55	28	12:51 (36)
5	04:46	05:38	06:42	07:44			07:52		14:25 (35)	08:53		12:23 (36)
	22:30	21:41	20:22	19:00			16:42	38	15:03 (35)	15:55	29	12:52 (36)
6	04:47	05:40	06:44	07:46			07:54		14:24 (35)	08:55		12:24 (36)
	22:29	21:38	20:20	18:57			16:40	39	15:03 (35)	15:54	29	12:53 (36)
7	04:48	05:42	06:46	07:48			07:56		14:24 (35)	08:56		12:24 (36)
	22:28	21:36	20:17	18:55			16:38	40	15:04 (35)	15:53	30	12:54 (36)
8	04:49	05:44	06:48	07:50			07:58		14:24 (35)	08:58		12:23 (36)
	22:27	21:34	20:14	18:52			16:36	40	15:04 (35)	15:53	31	12:54 (36)
9	04:50	05:46	06:50	07:52			08:01		14:24 (35)	08:59		12:24 (36)
	22:26	21:32	20:11	18:49			16:34	41	15:05 (35)	15:52	31	12:55 (36)
10	04:52	05:48	06:52	07:54			08:03		14:24 (35)	09:00		12:24 (36)
	22:25	21:29	20:09	18:46			16:32	40	15:04 (35)	15:52	31	12:55 (36)
11	04:53	05:50	06:54	07:56			08:05		14:24 (35)	09:02		12:24 (36)
	22:24	21:27	20:06	18:44			16:30	41	15:05 (35)	15:51	32	12:56 (36)
12	04:54	05:52	06:56	07:59			08:07		14:24 (35)	09:03		12:24 (36)
	22:23	21:24	20:03	18:41			16:28	40	15:04 (35)	15:51	33	12:57 (36)
13	04:56	05:54	06:58	08:01			08:10		14:25 (35)	09:04		12:24 (36)
	22:22	21:22	20:00	18:39			16:26	40	15:05 (35)	15:51	33	12:57 (36)
14	04:57	05:56	07:00	08:03			08:12		14:25 (35)	09:05		12:25 (36)
	22:21	21:20	19:58	18:36			16:24	39	15:04 (35)	15:50	33	12:58 (36)
15	04:59	05:58	07:02	08:05			08:14		14:26 (35)	09:06		12:26 (36)
	22:19	21:17	19:55	18:33			16:22	39	15:05 (35)	15:50	33	12:59 (36)
16	05:00	06:00	07:04	08:07			08:16		14:26 (35)	09:07		11:19 (37)
	22:18	21:15	19:52	18:31			16:20	38	15:04 (35)	15:50	37	12:59 (36)
17	05:02	06:02	07:06	08:09			08:18		14:27 (35)	09:08		11:18 (37)
	22:16	21:12	19:49	18:28			16:18	38	15:05 (35)	15:50	40	13:00 (36)
18	05:04	06:04	07:08	08:12			08:20		14:27 (35)	09:09		11:17 (37)
	22:15	21:10	19:47	18:25			16:16	37	15:04 (35)	15:51	41	12:59 (36)
19	05:05	06:06	07:10	08:14			08:23		14:27 (35)	09:10		11:18 (37)
	22:13	21:07	19:44	18:23			16:15	36	15:03 (35)	15:51	41	13:00 (36)
20	05:07	06:08	07:12	08:16			08:25		14:29 (35)	09:11		11:18 (37)
	22:12	21:05	19:41	18:20			16:13	35	15:04 (35)	15:51	43	13:01 (36)
21	05:09	06:11	07:15	08:18			08:27		14:29 (35)	09:11		11:18 (37)
	22:10	21:02	19:38	18:18			16:11	34	15:03 (35)	15:51	43	13:01 (36)
22	05:11	06:13	07:17	08:20			08:29		14:31 (35)	09:12		11:19 (37)
	22:08	21:00	19:36	18:15			16:10	32	15:03 (35)	15:52	43	13:02 (36)
23	05:12	06:15	07:19	08:23			08:31		14:31 (35)	09:12		11:19 (37)
	22:07	20:57	19:33	18:13			16:08	31	15:02 (35)	15:52	43	13:02 (36)
24	05:14	06:17	07:21	08:25			08:33		14:32 (35)	09:13		11:21 (37)
	22:05	20:54	19:30	18:10			16:07	29	15:01 (35)	15:53	41	13:03 (36)
25	05:16	06:19	07:23	07:27			08:35		14:33 (35)	09:13		11:21 (37)
	22:03	20:52	19:27	17:08			16:05	28	15:01 (35)	15:54	41	13:03 (36)
26	05:18	06:21	07:25	07:29		14:44 (35)	08:37		12:30 (36)	09:13		11:22 (37)
	22:01	20:49	19:25	17:05	1	14:45 (35)	16:04	36	15:01 (35)	15:54	40	13:04 (36)
27	05:20	06:23	07:27	07:31		14:37 (35)	08:39		12:28 (36)	09:14		11:23 (37)
	21:59	20:46	19:22	17:03	15	14:52 (35)	16:03	38	15:00 (35)	15:55	38	13:04 (36)
28	05:22	06:25	07:29	07:34		14:34 (35)	08:41		12:26 (36)	09:14		12:31 (36)
	21:57	20:44	19:19	17:01	21	14:55 (35)	16:02	40	14:59 (35)	15:56	34	13:05 (36)
29	05:24	06:27	07:31	07:36		14:31 (35)	08:43		12:25 (36)	09:14		12:32 (36)
	21:55	20:41	19:16	16:58	25	14:56 (35)	16:00	39	14:58 (35)	15:57	33	13:05 (36)
30	05:26	06:29	07:33	07:38		14:30 (35)	08:44		12:24 (36)	09:14		12:32 (36)
	21:53	20:39	19:14	16:56	28	14:58 (35)	15:59	37	14:56 (35)	15:58	33	13:05 (36)
31	05:28	06:31		07:40		14:28 (35)				09:14		12:33 (36)
	21:51	20:36		16:53	31	14:59 (35)				15:59	32	13:05 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					121			1105			1091	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.68			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					33			163			152	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CQ - Jostnieki L

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:34 (36)	08:36		14:54 (35)	07:30	07:06	05:47	04:48
	16:01	33	13:07 (36)	17:00	41	15:35 (35)	18:04	20:12	21:16	22:15
2	09:13		12:34 (36)	08:33		14:55 (35)	07:27	07:03	05:45	04:47
	16:02	32	13:06 (36)	17:02	41	15:36 (35)	18:06	20:14	21:18	22:17
3	09:13		12:34 (36)	08:31		14:55 (35)	07:24	07:00	05:42	04:46
	16:03	32	13:06 (36)	17:04	41	15:36 (35)	18:08	20:16	21:20	22:18
4	09:12		12:36 (36)	08:29		14:55 (35)	07:22	06:57	05:40	04:45
	16:05	31	13:07 (36)	17:07	40	15:35 (35)	18:11	20:18	21:22	22:20
5	09:12		12:36 (36)	08:27		14:55 (35)	07:19	06:55	05:38	04:44
	16:06	31	13:07 (36)	17:09	40	15:35 (35)	18:13	20:20	21:25	22:21
6	09:11		12:37 (36)	08:25		14:56 (35)	07:16	06:52	05:36	04:43
	16:08	30	13:07 (36)	17:11	40	15:36 (35)	18:15	20:22	21:27	22:22
7	09:11		12:38 (36)	08:23		14:56 (35)	07:14	06:49	05:33	04:42
	16:09	29	13:07 (36)	17:14	39	15:35 (35)	18:17	20:24	21:29	22:23
8	09:10		12:39 (36)	08:21		14:57 (35)	07:11	06:46	05:31	04:41
	16:11	28	13:07 (36)	17:16	38	15:35 (35)	18:20	20:27	21:31	22:24
9	09:09		12:40 (36)	08:19		14:57 (35)	07:08	06:44	05:29	04:41
	16:12	27	13:07 (36)	17:18	37	15:34 (35)	18:22	20:29	21:33	22:26
10	09:08		12:41 (36)	08:16		14:59 (35)	07:06	06:41	05:27	04:40
	16:14	26	13:07 (36)	17:21	34	15:33 (35)	18:24	20:31	21:35	22:27
11	09:07		12:41 (36)	08:14		14:59 (35)	07:03	06:38	05:25	04:39
	16:16	29	15:10 (35)	17:23	33	15:32 (35)	18:26	20:33	21:37	22:28
12	09:06		12:42 (36)	08:12		15:01 (35)	07:00	06:36	05:22	04:39
	16:18	36	15:15 (35)	17:25	30	15:31 (35)	18:28	20:35	21:39	22:28
13	09:05		12:44 (36)	08:09		15:02 (35)	06:58	06:33	05:20	04:38
	16:20	37	15:17 (35)	17:27	27	15:29 (35)	18:31	20:37	21:41	22:29
14	09:04		12:45 (36)	08:07		15:05 (35)	06:55	06:30	05:18	04:38
	16:21	39	15:19 (35)	17:30	23	15:28 (35)	18:33	20:39	21:43	22:30
15	09:03		12:47 (36)	08:05		15:07 (35)	06:52	06:28	05:16	04:38
	16:23	38	15:21 (35)	17:32	18	15:25 (35)	18:35	20:42	21:45	22:31
16	09:02		12:49 (36)	08:02		15:11 (35)	06:49	06:25	05:14	04:37
	16:25	37	15:22 (35)	17:34	11	15:22 (35)	18:37	20:44	21:47	22:31
17	09:01		12:53 (36)	08:00			06:47	06:23	05:12	04:37
	16:27	33	15:24 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:57 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	28	15:25 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:56 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	30	15:26 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:57 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	31	15:28 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:56 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	33	15:29 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:55 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	35	15:30 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:55 (35)	07:45			06:30	06:07	05:01	04:37
	16:40	36	15:31 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:55 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	36	15:31 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:54 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	38	15:32 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:54 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	39	15:33 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:54 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	39	15:33 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:54 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	40	15:34 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:54 (35)				07:14	05:52	04:52	04:40
	16:53	41	15:35 (35)				20:05	21:12	22:11	22:33
30	08:39		14:55 (35)				07:11	05:50	04:51	04:41
	16:55	40	15:35 (35)				20:07	21:14	22:12	22:33
31	08:37		14:54 (35)				07:08		04:50	
	16:57	41	15:35 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1055			533					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.17			0.21					
Total, real		184			115					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CQ - Jostnieki L

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:28 (35)	08:46		12:23 (36)
	22:32	21:49	20:33	19:11			16:51	35	15:03 (35)	15:58	30	14:53 (35)
2	04:43	05:31	06:35	07:37			07:45		14:27 (35)	08:48		12:23 (36)
	22:32	21:47	20:30	19:08			16:49	36	15:03 (35)	15:57	26	12:49 (36)
3	04:44	05:33	06:38	07:39			07:47		14:27 (35)	08:50		12:23 (36)
	22:31	21:45	20:28	19:05			16:47	37	15:04 (35)	15:56	27	12:50 (36)
4	04:45	05:35	06:40	07:42			07:49		14:26 (35)	08:51		12:23 (36)
	22:31	21:43	20:25	19:03			16:44	38	15:04 (35)	15:55	28	12:51 (36)
5	04:46	05:38	06:42	07:44			07:52		14:26 (35)	08:53		12:23 (36)
	22:30	21:41	20:22	19:00			16:42	39	15:05 (35)	15:55	29	12:52 (36)
6	04:47	05:40	06:44	07:46			07:54		14:25 (35)	08:55		12:23 (36)
	22:29	21:38	20:20	18:57			16:40	40	15:05 (35)	15:54	30	12:53 (36)
7	04:48	05:42	06:46	07:48			07:56		14:25 (35)	08:56		12:23 (36)
	22:28	21:36	20:17	18:55			16:38	41	15:06 (35)	15:53	31	12:54 (36)
8	04:49	05:44	06:48	07:50			07:58		14:25 (35)	08:58		12:23 (36)
	22:27	21:34	20:14	18:52			16:36	41	15:06 (35)	15:53	31	12:54 (36)
9	04:50	05:46	06:50	07:52			08:01		14:25 (35)	08:59		12:24 (36)
	22:26	21:32	20:11	18:49			16:34	41	15:06 (35)	15:52	31	12:55 (36)
10	04:52	05:48	06:52	07:54			08:03		14:25 (35)	09:00		12:23 (36)
	22:25	21:29	20:09	18:46			16:32	41	15:06 (35)	15:52	33	12:56 (36)
11	04:53	05:50	06:54	07:56			08:05		14:26 (35)	09:02		12:24 (36)
	22:24	21:27	20:06	18:44			16:30	41	15:07 (35)	15:51	33	12:57 (36)
12	04:54	05:52	06:56	07:59			08:07		14:25 (35)	09:03		12:24 (36)
	22:23	21:24	20:03	18:41			16:28	41	15:06 (35)	15:51	33	12:57 (36)
13	04:56	05:54	06:58	08:01			08:10		14:26 (35)	09:04		12:24 (36)
	22:22	21:22	20:00	18:39			16:26	41	15:07 (35)	15:51	33	12:57 (36)
14	04:57	05:56	07:00	08:03			08:12		14:26 (35)	09:05		11:19 (37)
	22:21	21:20	19:58	18:36			16:24	40	15:06 (35)	15:50	35	12:59 (36)
15	04:59	05:58	07:02	08:05			08:14		14:27 (35)	09:06		11:17 (37)
	22:19	21:17	19:55	18:33			16:22	39	15:06 (35)	15:50	40	12:59 (36)
16	05:00	06:00	07:04	08:07			08:16		14:27 (35)	09:07		11:16 (37)
	22:18	21:15	19:52	18:31			16:20	39	15:06 (35)	15:50	42	13:00 (36)
17	05:02	06:02	07:06	08:09			08:18		14:28 (35)	09:08		11:16 (37)
	22:16	21:12	19:49	18:28			16:18	38	15:06 (35)	15:50	43	13:00 (36)
18	05:04	06:04	07:08	08:12			08:20		14:29 (35)	09:09		11:15 (37)
	22:15	21:10	19:47	18:25			16:16	36	15:05 (35)	15:51	44	13:00 (36)
19	05:05	06:06	07:10	08:14			08:23		14:29 (35)	09:10		11:16 (37)
	22:13	21:07	19:44	18:23			16:15	36	15:05 (35)	15:51	45	13:01 (36)
20	05:07	06:08	07:12	08:16			08:25		14:31 (35)	09:11		11:16 (37)
	22:12	21:05	19:41	18:20			16:13	34	15:05 (35)	15:51	45	13:01 (36)
21	05:09	06:11	07:15	08:18			08:27		14:31 (35)	09:11		11:16 (37)
	22:10	21:02	19:38	18:18			16:11	33	15:04 (35)	15:51	45	13:01 (36)
22	05:11	06:13	07:17	08:20			08:29		14:33 (35)	09:12		11:17 (37)
	22:08	21:00	19:36	18:15			16:10	31	15:04 (35)	15:52	45	13:02 (36)
23	05:12	06:15	07:19	08:23			08:31		14:33 (35)	09:12		11:17 (37)
	22:07	20:57	19:33	18:13			16:08	30	15:03 (35)	15:52	45	13:02 (36)
24	05:14	06:17	07:21	08:25			08:33		14:34 (35)	09:13		11:19 (37)
	22:05	20:54	19:30	18:10			16:07	28	15:02 (35)	15:53	44	13:03 (36)
25	05:16	06:19	07:23	07:27			08:35		12:30 (36)	09:13		11:19 (37)
	22:03	20:52	19:27	17:08			16:05	33	15:01 (35)	15:54	44	13:04 (36)
26	05:18	06:21	07:25	07:29		14:39 (35)	08:37		12:28 (36)	09:13		11:20 (37)
	22:01	20:49	19:25	17:05	14	14:53 (35)	16:04	37	15:01 (35)	15:54	43	13:04 (36)
27	05:20	06:23	07:27	07:31		14:36 (35)	08:39		12:26 (36)	09:14		11:21 (37)
	21:59	20:46	19:22	17:03	20	14:56 (35)	16:03	38	15:00 (35)	15:55	42	13:04 (36)
28	05:22	06:25	07:29	07:34		14:34 (35)	08:41		12:25 (36)	09:14		11:22 (37)
	21:57	20:44	19:19	17:01	24	14:58 (35)	16:02	39	14:59 (35)	15:56	41	13:05 (36)
29	05:24	06:27	07:31	07:36		14:31 (35)	08:43		12:24 (36)	09:14		11:24 (37)
	21:55	20:41	19:16	16:58	28	14:59 (35)	16:00	38	14:58 (35)	15:57	37	13:05 (36)
30	05:26	06:29	07:33	07:38		14:30 (35)	08:44		12:24 (36)	09:14		12:32 (36)
	21:53	20:39	19:14	16:56	31	15:01 (35)	15:59	35	14:56 (35)	15:58	33	13:05 (36)
31	05:28	06:31		07:40		14:29 (35)				09:14		12:33 (36)
	21:51	20:36		16:53	33	15:02 (35)				15:59	33	13:06 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					150			1116			1141	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.68			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					41			165			159	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CR - Jostnieki M

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:13		12:30 (36)	08:36	14:52 (35)	07:30	07:06	05:47	04:48
	16:01	33	13:03 (36)	17:00	42	15:34 (35)	18:04	20:12	21:16	22:15
2	09:13		12:30 (36)	08:33	14:53 (35)	07:27	07:03	05:45	04:47
	16:02	33	13:03 (36)	17:02	42	15:35 (35)	18:06	20:14	21:18	22:17
3	09:13		12:30 (36)	08:31	14:53 (35)	07:24	07:00	05:42	04:46
	16:03	33	13:03 (36)	17:04	42	15:35 (35)	18:08	20:16	21:20	22:18
4	09:12		12:32 (36)	08:29	14:53 (35)	07:22	06:57	05:40	04:45
	16:05	32	13:04 (36)	17:07	41	15:34 (35)	18:11	20:18	21:22	22:20
5	09:12		12:32 (36)	08:27	14:53 (35)	07:19	06:55	05:38	04:44
	16:06	32	13:04 (36)	17:09	42	15:35 (35)	18:13	20:20	21:25	22:21
6	09:11		12:33 (36)	08:25	14:54 (35)	07:16	06:52	05:36	04:43
	16:08	31	13:04 (36)	17:11	41	15:35 (35)	18:15	20:22	21:27	22:22
7	09:11		12:33 (36)	08:23	14:54 (35)	07:14	06:49	05:33	04:42
	16:09	31	13:04 (36)	17:14	40	15:34 (35)	18:17	20:24	21:29	22:23
8	09:10		12:34 (36)	08:21	14:55 (35)	07:11	06:47	05:31	04:41
	16:11	30	13:04 (36)	17:16	39	15:34 (35)	18:20	20:27	21:31	22:24
9	09:09		12:35 (36)	08:19	14:55 (35)	07:08	06:44	05:29	04:41
	16:12	29	13:04 (36)	17:18	38	15:33 (35)	18:22	20:29	21:33	22:26
10	09:08		12:36 (36)	08:16	14:56 (35)	07:06	06:41	05:27	04:40
	16:14	28	13:04 (36)	17:21	37	15:33 (35)	18:24	20:31	21:35	22:27
11	09:07		12:37 (36)	08:14	14:57 (35)	07:03	06:38	05:25	04:39
	16:16	29	15:08 (35)	17:23	34	15:31 (35)	18:26	20:33	21:37	22:28
12	09:06		12:38 (36)	08:12	14:59 (35)	07:00	06:36	05:22	04:39
	16:18	36	15:13 (35)	17:25	32	15:31 (35)	18:28	20:35	21:39	22:28
13	09:05		12:40 (36)	08:09	14:59 (35)	06:58	06:33	05:20	04:38
	16:20	39	15:16 (35)	17:27	30	15:29 (35)	18:31	20:37	21:41	22:29
14	09:04		12:40 (36)	08:07	15:02 (35)	06:55	06:30	05:18	04:38
	16:21	40	15:17 (35)	17:30	26	15:28 (35)	18:33	20:39	21:43	22:30
15	09:03		12:42 (36)	08:05	15:03 (35)	06:52	06:28	05:16	04:38
	16:23	42	15:20 (35)	17:32	23	15:26 (35)	18:35	20:42	21:45	22:31
16	09:02		12:44 (36)	08:02	15:07 (35)	06:49	06:25	05:14	04:37
	16:25	40	15:21 (35)	17:34	17	15:24 (35)	18:37	20:44	21:47	22:31
17	09:01		12:47 (36)	08:00	15:11 (35)	06:47	06:23	05:12	04:37
	16:27	38	15:23 (35)	17:37	7	15:18 (35)	18:39	20:46	21:49	22:32
18	08:59		12:51 (36)	07:57			06:44	06:20	05:10	04:37
	16:29	32	15:24 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:55 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	30	15:25 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:55 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	32	15:27 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:54 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	34	15:28 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:54 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	34	15:28 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:53 (35)	07:45			06:30	06:07	05:01	04:38
	16:40	36	15:29 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:53 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	37	15:30 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:53 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	38	15:31 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:52 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	40	15:32 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:52 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	40	15:32 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:52 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	41	15:33 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:52 (35)				07:14	05:52	04:52	04:40
	16:53	42	15:34 (35)				20:05	21:12	22:11	22:33
30	08:39		14:53 (35)				07:11	05:50	04:51	04:41
	16:55	41	15:34 (35)				20:07	21:14	22:12	22:33
31	08:37		14:52 (35)				07:08		04:50	
	16:57	42	15:34 (35)				20:09		22:14	
Potential sun hours	231			264		366	428	512	534
Total, worst case		1095			573				
Sun reduction		0.28			0.33				
Oper. time red.		0.94			0.94				
Wind dir. red.		0.68			0.69				
Total reduction		0.17			0.22				
Total, real		191			123				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CR - Jostnieki M

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:26 (35)	08:46		12:19 (36)
	22:32	21:49	20:33	19:11			16:51	36	15:02 (35)	15:58	30	14:51 (35)
2	04:43	05:31	06:35	07:37			07:45		14:25 (35)	08:48		12:18 (36)
	22:32	21:47	20:30	19:08			16:49	37	15:02 (35)	15:57	28	12:46 (36)
3	04:44	05:33	06:38	07:39			07:47		14:25 (35)	08:50		12:18 (36)
	22:31	21:45	20:28	19:05			16:47	39	15:04 (35)	15:56	29	12:47 (36)
4	04:45	05:35	06:40	07:42			07:49		14:24 (35)	08:51		12:18 (36)
	22:31	21:43	20:25	19:03			16:44	40	15:04 (35)	15:55	30	12:48 (36)
5	04:46	05:38	06:42	07:44			07:52		14:24 (35)	08:53		12:19 (36)
	22:30	21:41	20:22	19:00			16:42	40	15:04 (35)	15:55	30	12:49 (36)
6	04:47	05:40	06:44	07:46			07:54		14:23 (35)	08:55		12:19 (36)
	22:29	21:38	20:20	18:57			16:40	41	15:04 (35)	15:54	31	12:50 (36)
7	04:48	05:42	06:46	07:48			07:56		14:23 (35)	08:56		12:19 (36)
	22:28	21:36	20:17	18:55			16:38	42	15:05 (35)	15:53	32	12:51 (36)
8	04:49	05:44	06:48	07:50			07:58		14:23 (35)	08:58		12:19 (36)
	22:27	21:34	20:14	18:52			16:36	42	15:05 (35)	15:53	32	12:51 (36)
9	04:50	05:46	06:50	07:52			08:01		14:23 (35)	08:59		12:19 (36)
	22:26	21:32	20:11	18:49			16:34	42	15:05 (35)	15:52	33	12:52 (36)
10	04:52	05:48	06:52	07:54			08:03		14:23 (35)	09:00		12:19 (36)
	22:25	21:29	20:09	18:46			16:32	42	15:05 (35)	15:52	33	12:52 (36)
11	04:53	05:50	06:54	07:56			08:05		14:24 (35)	09:02		12:20 (36)
	22:24	21:27	20:06	18:44			16:30	41	15:05 (35)	15:51	34	12:54 (36)
12	04:54	05:52	06:56	07:59			08:07		14:23 (35)	09:03		11:11 (37)
	22:23	21:24	20:03	18:41			16:28	42	15:05 (35)	15:51	40	12:54 (36)
13	04:56	05:54	06:58	08:01			08:10		14:24 (35)	09:04		11:10 (37)
	22:22	21:22	20:00	18:39			16:26	41	15:05 (35)	15:51	43	12:54 (36)
14	04:57	05:56	07:00	08:03			08:12		14:24 (35)	09:05		11:11 (37)
	22:21	21:20	19:58	18:36			16:24	41	15:05 (35)	15:50	44	12:55 (36)
15	04:59	05:58	07:02	08:05			08:14		14:25 (35)	09:06		11:10 (37)
	22:19	21:17	19:55	18:33			16:22	40	15:05 (35)	15:50	47	12:56 (36)
16	05:00	06:00	07:04	08:07			08:16		14:25 (35)	09:07		11:10 (37)
	22:18	21:15	19:52	18:31			16:20	39	15:04 (35)	15:50	47	12:56 (36)
17	05:02	06:02	07:06	08:09			08:18		14:27 (35)	09:08		11:10 (37)
	22:16	21:12	19:49	18:28			16:18	38	15:05 (35)	15:50	49	12:57 (36)
18	05:04	06:04	07:08	08:12			08:20		14:27 (35)	09:09		11:10 (37)
	22:15	21:10	19:47	18:25			16:16	37	15:04 (35)	15:51	49	12:57 (36)
19	05:05	06:06	07:10	08:14			08:23		14:27 (35)	09:10		11:10 (37)
	22:13	21:07	19:44	18:23			16:15	36	15:03 (35)	15:51	49	12:57 (36)
20	05:07	06:08	07:12	08:16			08:25		14:29 (35)	09:11		11:11 (37)
	22:12	21:05	19:41	18:20			16:13	34	15:03 (35)	15:51	49	12:58 (36)
21	05:09	06:11	07:15	08:18			08:27		14:29 (35)	09:11		11:11 (37)
	22:10	21:02	19:38	18:18			16:11	34	15:03 (35)	15:51	49	12:58 (36)
22	05:11	06:13	07:17	08:20			08:29		14:31 (35)	09:12		11:12 (37)
	22:08	21:00	19:36	18:15			16:10	32	15:03 (35)	15:52	49	12:59 (36)
23	05:12	06:15	07:19	08:23			08:31		14:32 (35)	09:12		11:12 (37)
	22:07	20:57	19:33	18:13			16:08	30	15:02 (35)	15:52	49	12:59 (36)
24	05:14	06:17	07:21	08:25			08:33		12:28 (36)	09:13		11:13 (37)
	22:05	20:54	19:30	18:10			16:07	32	15:01 (35)	15:53	49	13:00 (36)
25	05:16	06:19	07:23	07:27		14:40 (35)	08:35		12:24 (36)	09:13		11:14 (37)
	22:03	20:52	19:27	17:08	10	14:50 (35)	16:05	38	15:00 (35)	15:54	48	13:00 (36)
26	05:18	06:21	07:25	07:29		14:35 (35)	08:37		12:23 (36)	09:13		11:14 (37)
	22:01	20:49	19:25	17:05	19	14:54 (35)	16:04	40	15:00 (35)	15:54	49	13:01 (36)
27	05:20	06:23	07:27	07:31		14:33 (35)	08:39		12:22 (36)	09:14		11:15 (37)
	21:59	20:46	19:22	17:03	24	14:57 (35)	16:03	41	14:59 (35)	15:55	48	13:01 (36)
28	05:22	06:25	07:29	07:34		14:31 (35)	08:41		12:20 (36)	09:14		11:16 (37)
	21:57	20:44	19:19	17:01	27	14:58 (35)	16:02	41	14:58 (35)	15:56	47	13:02 (36)
29	05:24	06:27	07:31	07:36		14:29 (35)	08:43		12:20 (36)	09:14		11:17 (37)
	21:55	20:41	19:16	16:58	30	14:59 (35)	16:00	39	14:56 (35)	15:57	45	13:02 (36)
30	05:26	06:29	07:33	07:38		14:28 (35)	08:44		12:19 (36)	09:14		11:18 (37)
	21:53	20:39	19:14	16:56	32	15:00 (35)	15:59	36	14:54 (35)	15:58	43	13:02 (36)
31	05:28	06:31		07:40		14:26 (35)				09:14		11:19 (37)
	21:51	20:36		16:53	35	15:01 (35)				15:59	42	13:02 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					177			1153			1277	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.68			0.65	
Total reduction					0.27			0.15			0.14	
Total, real					48			170			177	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CS - Jostnieki N

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		11:21 (37)	08:36		14:48 (35)	07:30	07:06	05:47	04:48
	16:01	36	13:00 (36)	17:00	42	15:30 (35)	18:04	20:12	21:16	22:15
2	09:13		12:27 (36)	08:34		14:48 (35)	07:27	07:03	05:45	04:47
	16:02	33	13:00 (36)	17:02	42	15:30 (35)	18:06	20:14	21:18	22:17
3	09:13		12:27 (36)	08:31		14:49 (35)	07:24	07:00	05:42	04:46
	16:03	32	12:59 (36)	17:04	41	15:30 (35)	18:08	20:16	21:20	22:18
4	09:12		12:29 (36)	08:29		14:48 (35)	07:22	06:57	05:40	04:45
	16:05	31	13:00 (36)	17:07	42	15:30 (35)	18:11	20:18	21:22	22:20
5	09:12		12:29 (36)	08:27		14:49 (35)	07:19	06:55	05:38	04:44
	16:06	31	13:00 (36)	17:09	41	15:30 (35)	18:13	20:20	21:25	22:21
6	09:11		12:30 (36)	08:25		14:50 (35)	07:16	06:52	05:36	04:43
	16:08	30	13:00 (36)	17:11	40	15:30 (35)	18:15	20:22	21:27	22:22
7	09:11		12:30 (36)	08:23		14:50 (35)	07:14	06:49	05:33	04:42
	16:09	30	13:00 (36)	17:14	39	15:29 (35)	18:17	20:24	21:29	22:23
8	09:10		12:31 (36)	08:21		14:51 (35)	07:11	06:47	05:31	04:41
	16:11	29	13:00 (36)	17:16	38	15:29 (35)	18:20	20:27	21:31	22:24
9	09:09		12:32 (36)	08:19		14:52 (35)	07:08	06:44	05:29	04:41
	16:12	34	15:05 (35)	17:18	36	15:28 (35)	18:22	20:29	21:33	22:26
10	09:08		12:33 (36)	08:16		14:53 (35)	07:06	06:41	05:27	04:40
	16:14	38	15:08 (35)	17:21	34	15:27 (35)	18:24	20:31	21:35	22:27
11	09:07		12:34 (36)	08:14		14:54 (35)	07:03	06:38	05:25	04:39
	16:16	40	15:10 (35)	17:23	32	15:26 (35)	18:26	20:33	21:37	22:28
12	09:06		12:35 (36)	08:12		14:55 (35)	07:00	06:36	05:22	04:39
	16:18	42	15:12 (35)	17:25	30	15:25 (35)	18:28	20:35	21:39	22:28
13	09:05		12:37 (36)	08:09		14:57 (35)	06:58	06:33	05:20	04:38
	16:20	43	15:14 (35)	17:27	26	15:23 (35)	18:31	20:37	21:41	22:29
14	09:04		12:38 (36)	08:07		14:59 (35)	06:55	06:30	05:18	04:38
	16:21	43	15:15 (35)	17:30	23	15:22 (35)	18:33	20:39	21:43	22:30
15	09:03		12:40 (36)	08:05		15:01 (35)	06:52	06:28	05:16	04:38
	16:23	43	15:17 (35)	17:32	18	15:19 (35)	18:35	20:42	21:45	22:31
16	09:02		12:41 (36)	08:02		15:07 (35)	06:49	06:25	05:14	04:37
	16:25	42	15:18 (35)	17:34	8	15:15 (35)	18:37	20:44	21:47	22:31
17	09:01		12:45 (36)	08:00			06:47	06:23	05:12	04:37
	16:27	38	15:20 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:50 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	31	15:21 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:49 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	33	15:22 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:49 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	34	15:23 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:49 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	35	15:24 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:48 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	37	15:25 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:48 (35)	07:45			06:30	06:07	05:01	04:38
	16:40	38	15:26 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:48 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	38	15:26 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:48 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	39	15:27 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:48 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	40	15:28 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:48 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	40	15:28 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:48 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	41	15:29 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:48 (35)				07:14	05:52	04:52	04:40
	16:53	41	15:29 (35)				20:05	21:12	22:11	22:33
30	08:39		14:48 (35)				07:11	05:50	04:51	04:41
	16:55	42	15:30 (35)				20:07	21:14	22:12	22:33
31	08:37		14:47 (35)				07:08		04:50	
	16:57	42	15:29 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1146			532					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.17			0.22					
Total, real		200			115					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CS - Jostnieki N

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:22 (35)	08:46		12:16 (36)
	22:32	21:49	20:33	19:11			16:51	35	14:57 (35)	15:58	41	14:52 (35)
2	04:43	05:31	06:35	07:37			07:45		14:21 (35)	08:48		12:16 (36)
	22:32	21:47	20:30	19:08			16:49	36	14:57 (35)	15:57	39	14:51 (35)
3	04:44	05:33	06:38	07:39			07:47		14:21 (35)	08:50		12:15 (36)
	22:31	21:45	20:28	19:05			16:47	38	14:59 (35)	15:56	35	14:48 (35)
4	04:45	05:35	06:40	07:42			07:49		14:20 (35)	08:51		12:15 (36)
	22:31	21:43	20:25	19:03			16:44	39	14:59 (35)	15:55	30	12:45 (36)
5	04:46	05:38	06:42	07:44			07:52		14:20 (35)	08:53		12:16 (36)
	22:30	21:41	20:22	19:00			16:42	40	15:00 (35)	15:55	29	12:45 (36)
6	04:47	05:40	06:44	07:46			07:54		14:19 (35)	08:55		12:16 (36)
	22:29	21:38	20:20	18:57			16:40	41	15:00 (35)	15:54	30	12:46 (36)
7	04:48	05:42	06:46	07:48			07:56		14:19 (35)	08:56		12:16 (36)
	22:28	21:36	20:17	18:55			16:38	41	15:00 (35)	15:53	31	12:47 (36)
8	04:49	05:44	06:48	07:50			07:58		14:19 (35)	08:58		12:16 (36)
	22:27	21:34	20:14	18:52			16:36	41	15:00 (35)	15:53	32	12:48 (36)
9	04:50	05:46	06:50	07:52			08:01		14:19 (35)	08:59		12:16 (36)
	22:26	21:32	20:11	18:49			16:34	42	15:01 (35)	15:52	33	12:49 (36)
10	04:52	05:48	06:52	07:54			08:03		14:19 (35)	09:00		12:16 (36)
	22:25	21:29	20:09	18:46			16:32	42	15:01 (35)	15:52	33	12:49 (36)
11	04:53	05:50	06:54	07:56			08:05		14:19 (35)	09:02		11:11 (37)
	22:24	21:27	20:06	18:44			16:30	42	15:01 (35)	15:51	35	12:50 (36)
12	04:54	05:52	06:56	07:59			08:07		14:19 (35)	09:03		11:09 (37)
	22:23	21:24	20:03	18:41			16:28	42	15:01 (35)	15:51	40	12:50 (36)
13	04:56	05:54	06:58	08:01			08:10		14:20 (35)	09:04		11:08 (37)
	22:22	21:22	20:00	18:39			16:26	41	15:01 (35)	15:51	42	12:50 (36)
14	04:57	05:56	07:00	08:03			08:12		14:20 (35)	09:05		11:08 (37)
	22:21	21:20	19:58	18:36			16:24	41	15:01 (35)	15:50	45	12:52 (36)
15	04:59	05:58	07:02	08:05			08:14		14:20 (35)	09:06		11:08 (37)
	22:19	21:17	19:55	18:33			16:22	41	15:01 (35)	15:50	46	12:52 (36)
16	05:00	06:00	07:04	08:07			08:16		14:21 (35)	09:07		11:08 (37)
	22:18	21:15	19:52	18:31			16:20	40	15:01 (35)	15:50	47	12:53 (36)
17	05:02	06:02	07:06	08:09			08:18		14:22 (35)	09:08		11:08 (37)
	22:16	21:12	19:49	18:28			16:18	39	15:01 (35)	15:50	48	12:53 (36)
18	05:04	06:04	07:08	08:12			08:20		14:22 (35)	09:09		11:08 (37)
	22:15	21:10	19:47	18:25			16:16	38	15:00 (35)	15:51	48	12:53 (36)
19	05:05	06:06	07:10	08:14			08:23		14:22 (35)	09:10		11:08 (37)
	22:13	21:07	19:44	18:23			16:15	38	15:00 (35)	15:51	50	12:54 (36)
20	05:07	06:08	07:12	08:16			08:25		14:23 (35)	09:11		11:09 (37)
	22:12	21:05	19:41	18:20			16:13	37	15:00 (35)	15:51	49	12:55 (36)
21	05:09	06:11	07:15	08:18			08:27		14:24 (35)	09:11		11:09 (37)
	22:10	21:02	19:38	18:18			16:11	35	14:59 (35)	15:51	48	12:54 (36)
22	05:11	06:13	07:17	08:20			08:29		14:25 (35)	09:12		11:10 (37)
	22:08	21:00	19:36	18:15			16:10	35	15:00 (35)	15:52	48	12:55 (36)
23	05:12	06:15	07:19	08:23			08:31		14:26 (35)	09:12		11:10 (37)
	22:07	20:57	19:33	18:13			16:08	33	14:59 (35)	15:52	48	12:55 (36)
24	05:14	06:17	07:21	08:25			08:33		14:27 (35)	09:13		11:11 (37)
	22:05	20:54	19:30	18:10			16:07	31	14:58 (35)	15:53	50	12:57 (36)
25	05:16	06:19	07:23	07:27			08:35		12:22 (36)	09:13		11:11 (37)
	22:03	20:52	19:27	17:08			16:05	38	14:57 (35)	15:54	50	12:57 (36)
26	05:18	06:21	07:25	07:29		14:34 (35)	08:37		12:20 (36)	09:13		11:12 (37)
	22:01	20:49	19:25	17:05	12	14:46 (35)	16:04	42	14:57 (35)	15:54	48	12:57 (36)
27	05:20	06:23	07:27	07:31		14:31 (35)	08:39		12:19 (36)	09:14		11:13 (37)
	21:59	20:46	19:22	17:03	19	14:50 (35)	16:03	44	14:57 (35)	15:55	48	12:58 (36)
28	05:22	06:25	07:29	07:34		14:28 (35)	08:41		12:18 (36)	09:14		11:14 (37)
	21:57	20:44	19:19	17:01	24	14:52 (35)	16:02	44	14:56 (35)	15:56	46	12:58 (36)
29	05:24	06:27	07:31	07:36		14:26 (35)	08:43		12:17 (36)	09:14		11:15 (37)
	21:55	20:41	19:16	16:58	27	14:53 (35)	16:00	44	14:55 (35)	15:57	45	12:59 (36)
30	05:26	06:29	07:33	07:38		14:25 (35)	08:44		12:16 (36)	09:14		11:15 (37)
	21:53	20:39	19:14	16:56	30	14:55 (35)	15:59	43	14:54 (35)	15:58	44	12:58 (36)
31	05:28	06:31		07:40		14:23 (35)				09:14		11:17 (37)
	21:51	20:36		16:53	33	14:56 (35)				15:59	42	12:59 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					145			1183			1300	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.68			0.65	
Total reduction					0.27			0.15			0.14	
Total, real					40			175			180	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CT - Jostnieki O

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:27 (36)	08:36		14:46 (35)	07:30	07:06	05:47	04:48
	16:01	32	12:59 (36)	17:00	42	15:28 (35)	18:04	20:12	21:16	22:15
2	09:13		12:27 (36)	08:34		14:47 (35)	07:27	07:03	05:45	04:47
	16:02	32	12:59 (36)	17:02	41	15:28 (35)	18:06	20:14	21:18	22:17
3	09:13		12:27 (36)	08:31		14:47 (35)	07:24	07:00	05:42	04:46
	16:03	32	12:59 (36)	17:04	41	15:28 (35)	18:08	20:16	21:20	22:18
4	09:12		12:29 (36)	08:29		14:47 (35)	07:22	06:57	05:40	04:45
	16:05	31	13:00 (36)	17:07	40	15:27 (35)	18:11	20:18	21:22	22:20
5	09:12		12:29 (36)	08:27		14:48 (35)	07:19	06:55	05:38	04:44
	16:06	30	12:59 (36)	17:09	39	15:27 (35)	18:13	20:20	21:25	22:21
6	09:11		12:30 (36)	08:25		14:49 (35)	07:16	06:52	05:36	04:43
	16:08	29	12:59 (36)	17:11	38	15:27 (35)	18:15	20:22	21:27	22:22
7	09:11		12:31 (36)	08:23		14:49 (35)	07:14	06:49	05:33	04:42
	16:09	32	15:01 (35)	17:14	37	15:26 (35)	18:17	20:24	21:29	22:23
8	09:10		12:32 (36)	08:21		14:50 (35)	07:11	06:47	05:31	04:41
	16:11	37	15:05 (35)	17:16	36	15:26 (35)	18:20	20:27	21:31	22:24
9	09:09		12:33 (36)	08:19		14:51 (35)	07:08	06:44	05:29	04:41
	16:12	40	15:07 (35)	17:18	34	15:25 (35)	18:22	20:29	21:33	22:26
10	09:08		12:34 (36)	08:16		14:52 (35)	07:06	06:41	05:27	04:40
	16:14	43	15:10 (35)	17:21	32	15:24 (35)	18:24	20:31	21:35	22:27
11	09:07		12:34 (36)	08:14		14:53 (35)	07:03	06:38	05:25	04:39
	16:16	43	15:10 (35)	17:23	30	15:23 (35)	18:26	20:33	21:37	22:28
12	09:06		12:36 (36)	08:12		14:55 (35)	07:00	06:36	05:22	04:39
	16:18	44	15:12 (35)	17:25	27	15:22 (35)	18:28	20:35	21:39	22:28
13	09:05		12:37 (36)	08:09		14:57 (35)	06:58	06:33	05:20	04:38
	16:20	45	15:14 (35)	17:27	22	15:19 (35)	18:31	20:37	21:41	22:29
14	09:04		12:38 (36)	08:07		15:00 (35)	06:55	06:30	05:18	04:38
	16:21	44	15:15 (35)	17:30	17	15:17 (35)	18:33	20:39	21:43	22:30
15	09:03		12:41 (36)	08:05		15:04 (35)	06:52	06:28	05:16	04:38
	16:23	43	15:17 (35)	17:32	8	15:12 (35)	18:35	20:42	21:45	22:31
16	09:02		12:43 (36)	08:02			06:49	06:25	05:14	04:37
	16:25	39	15:17 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		14:48 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	31	15:19 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:47 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	33	15:20 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:46 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	35	15:21 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:47 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	35	15:22 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:47 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	36	15:23 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:46 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	38	15:24 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:46 (35)	07:45			06:30	06:07	05:01	04:38
	16:40	38	15:24 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:46 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	39	15:25 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:46 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	39	15:25 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:46 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	40	15:26 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:46 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	41	15:27 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:46 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	41	15:27 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:46 (35)				07:14	05:52	04:52	04:40
	16:53	42	15:28 (35)				20:05	21:12	22:11	22:33
30	08:39		14:46 (35)				07:11	05:50	04:51	04:41
	16:55	42	15:28 (35)				20:07	21:14	22:12	22:33
31	08:37		14:46 (35)				07:08		04:50	
	16:57	41	15:27 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1167			484					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.17			0.22					
Total, real		204			104					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CT - Jostnieki O

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:22 (35)	08:46		12:16 (36)
	22:32	21:49	20:33	19:11			16:51	32	14:54 (35)	15:58	44	14:53 (35)
2	04:43	05:31	06:35	07:37			07:45		14:20 (35)	08:48		12:16 (36)
	22:32	21:47	20:30	19:08			16:49	35	14:55 (35)	15:57	43	14:52 (35)
3	04:44	05:33	06:38	07:39			07:47		14:20 (35)	08:50		12:16 (36)
	22:31	21:45	20:28	19:05			16:47	36	14:56 (35)	15:56	41	14:51 (35)
4	04:45	05:35	06:40	07:42			07:49		14:19 (35)	08:51		12:16 (36)
	22:31	21:43	20:25	19:03			16:44	37	14:56 (35)	15:55	37	14:49 (35)
5	04:46	05:38	06:42	07:44			07:52		14:19 (35)	08:53		12:16 (36)
	22:30	21:41	20:22	19:00			16:42	38	14:57 (35)	15:55	33	14:47 (35)
6	04:47	05:40	06:44	07:46			07:54		14:18 (35)	08:55		12:16 (36)
	22:29	21:38	20:20	18:57			16:40	39	14:57 (35)	15:54	30	12:46 (36)
7	04:48	05:42	06:46	07:48			07:56		14:18 (35)	08:56		12:16 (36)
	22:28	21:36	20:17	18:55			16:38	40	14:58 (35)	15:53	31	12:47 (36)
8	04:49	05:44	06:48	07:50			07:58		14:17 (35)	08:58		12:16 (36)
	22:27	21:34	20:14	18:52			16:36	41	14:58 (35)	15:53	31	12:47 (36)
9	04:50	05:46	06:50	07:52			08:01		14:17 (35)	08:59		12:16 (36)
	22:26	21:32	20:11	18:49			16:34	42	14:59 (35)	15:52	32	12:48 (36)
10	04:52	05:48	06:52	07:54			08:03		14:17 (35)	09:00		12:16 (36)
	22:25	21:29	20:09	18:46			16:32	42	14:59 (35)	15:52	32	12:48 (36)
11	04:53	05:50	06:54	07:56			08:05		14:17 (35)	09:02		12:17 (36)
	22:24	21:27	20:06	18:44			16:30	42	14:59 (35)	15:51	32	12:49 (36)
12	04:54	05:52	06:56	07:59			08:07		14:17 (35)	09:03		12:17 (36)
	22:23	21:24	20:03	18:41			16:28	42	14:59 (35)	15:51	32	12:49 (36)
13	04:56	05:54	06:58	08:01			08:10		14:18 (35)	09:04		11:10 (37)
	22:22	21:22	20:00	18:39			16:26	41	14:59 (35)	15:51	38	12:50 (36)
14	04:57	05:56	07:00	08:03			08:12		14:18 (35)	09:05		11:10 (37)
	22:21	21:20	19:58	18:36			16:24	41	14:59 (35)	15:50	41	12:51 (36)
15	04:59	05:58	07:02	08:05			08:14		14:19 (35)	09:06		11:10 (37)
	22:19	21:17	19:55	18:33			16:22	40	14:59 (35)	15:50	42	12:51 (36)
16	05:00	06:00	07:04	08:07			08:16		14:19 (35)	09:07		11:10 (37)
	22:18	21:15	19:52	18:31			16:20	40	14:59 (35)	15:50	43	12:52 (36)
17	05:02	06:02	07:06	08:09			08:18		14:20 (35)	09:08		11:10 (37)
	22:16	21:12	19:49	18:28			16:18	39	14:59 (35)	15:50	45	12:53 (36)
18	05:04	06:04	07:08	08:12			08:20		14:20 (35)	09:09		11:09 (37)
	22:15	21:10	19:47	18:25			16:16	39	14:59 (35)	15:51	45	12:52 (36)
19	05:05	06:06	07:10	08:14			08:23		14:20 (35)	09:10		11:10 (37)
	22:13	21:07	19:44	18:23			16:15	38	14:58 (35)	15:51	46	12:53 (36)
20	05:07	06:08	07:12	08:16			08:25		14:21 (35)	09:11		11:10 (37)
	22:12	21:05	19:41	18:20			16:13	38	14:59 (35)	15:51	47	12:54 (36)
21	05:09	06:11	07:15	08:18			08:27		14:22 (35)	09:11		11:10 (37)
	22:10	21:02	19:38	18:18			16:11	36	14:58 (35)	15:51	47	12:54 (36)
22	05:11	06:13	07:17	08:20			08:29		14:23 (35)	09:12		11:11 (37)
	22:08	21:00	19:36	18:15			16:10	35	14:58 (35)	15:52	47	12:55 (36)
23	05:12	06:15	07:19	08:23			08:31		14:24 (35)	09:12		11:11 (37)
	22:07	20:57	19:33	18:13			16:08	34	14:58 (35)	15:52	47	12:55 (36)
24	05:14	06:17	07:21	08:25			08:33		14:24 (35)	09:13		11:12 (37)
	22:05	20:54	19:30	18:10			16:07	33	14:57 (35)	15:53	47	12:56 (36)
25	05:16	06:19	07:23	07:27			08:35		14:25 (35)	09:13		11:13 (37)
	22:03	20:52	19:27	17:08			16:05	31	14:56 (35)	15:54	46	12:56 (36)
26	05:18	06:21	07:25	07:29			08:37		12:22 (36)	09:13		11:14 (37)
	22:01	20:49	19:25	17:05			16:04	40	14:57 (35)	15:54	44	12:56 (36)
27	05:20	06:23	07:27	07:31		14:33 (35)	08:39		12:20 (36)	09:14		11:14 (37)
	21:59	20:46	19:22	17:03	11	14:44 (35)	16:03	43	14:56 (35)	15:55	45	12:57 (36)
28	05:22	06:25	07:29	07:34		14:29 (35)	08:41		12:19 (36)	09:14		11:15 (37)
	21:57	20:44	19:19	17:01	18	14:47 (35)	16:02	43	14:55 (35)	15:56	43	12:57 (36)
29	05:24	06:27	07:31	07:36		14:26 (35)	08:43		12:18 (36)	09:14		11:17 (37)
	21:55	20:41	19:16	16:58	23	14:49 (35)	16:00	44	14:54 (35)	15:57	41	12:58 (36)
30	05:26	06:29	07:33	07:38		14:24 (35)	08:44		12:17 (36)	09:14		11:18 (37)
	21:53	20:39	19:14	16:56	28	14:52 (35)	15:59	45	14:54 (35)	15:58	38	12:57 (36)
31	05:28	06:31		07:40		14:22 (35)				09:14		11:21 (37)
	21:51	20:36		16:53	30	14:52 (35)				15:59	34	12:58 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					110			1166			1244	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.69			0.65	
Total reduction					0.27			0.15			0.14	
Total, real					30			172			173	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CU - Jostnieki P

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		12:25 (36)	08:36		14:44 (35)	07:30	07:06	05:47	04:48
	16:01	32	12:57 (36)	17:00	41	15:25 (35)	18:04	20:12	21:16	22:15
2	09:13		12:25 (36)	08:34		14:44 (35)	07:27	07:03	05:45	04:47
	16:02	31	12:56 (36)	17:02	42	15:26 (35)	18:06	20:14	21:18	22:17
3	09:13		12:25 (36)	08:31		14:45 (35)	07:24	07:00	05:42	04:46
	16:03	31	12:56 (36)	17:04	41	15:26 (35)	18:08	20:16	21:20	22:18
4	09:12		12:27 (36)	08:29		14:45 (35)	07:22	06:57	05:40	04:45
	16:05	30	12:57 (36)	17:07	40	15:25 (35)	18:11	20:18	21:22	22:20
5	09:12		12:27 (36)	08:27		14:46 (35)	07:19	06:55	05:38	04:44
	16:06	30	12:57 (36)	17:09	39	15:25 (35)	18:13	20:20	21:25	22:21
6	09:11		12:28 (36)	08:25		14:47 (35)	07:16	06:52	05:36	04:43
	16:08	36	15:00 (35)	17:11	38	15:25 (35)	18:15	20:22	21:27	22:22
7	09:11		12:28 (36)	08:23		14:47 (35)	07:14	06:49	05:33	04:42
	16:09	41	15:03 (35)	17:14	37	15:24 (35)	18:17	20:24	21:29	22:23
8	09:10		12:29 (36)	08:21		14:48 (35)	07:11	06:47	05:31	04:41
	16:11	43	15:05 (35)	17:16	36	15:24 (35)	18:20	20:27	21:31	22:24
9	09:09		12:30 (36)	08:19		14:49 (35)	07:08	06:44	05:29	04:41
	16:12	45	15:07 (35)	17:18	33	15:22 (35)	18:22	20:29	21:33	22:26
10	09:08		12:32 (36)	08:16		14:50 (35)	07:06	06:41	05:27	04:40
	16:14	46	15:09 (35)	17:21	32	15:22 (35)	18:24	20:31	21:35	22:27
11	09:07		12:32 (36)	08:14		14:51 (35)	07:03	06:38	05:25	04:39
	16:16	46	15:09 (35)	17:23	29	15:20 (35)	18:26	20:33	21:37	22:28
12	09:06		12:34 (36)	08:12		14:54 (35)	07:00	06:36	05:22	04:39
	16:18	46	15:11 (35)	17:25	25	15:19 (35)	18:28	20:35	21:39	22:28
13	09:05		12:35 (36)	08:09		14:55 (35)	06:58	06:33	05:20	04:38
	16:20	47	15:13 (35)	17:27	21	15:16 (35)	18:31	20:37	21:41	22:29
14	09:04		12:36 (36)	08:07		14:59 (35)	06:55	06:30	05:18	04:38
	16:21	46	15:13 (35)	17:30	15	15:14 (35)	18:33	20:39	21:43	22:30
15	09:03		12:39 (36)	08:05			06:52	06:28	05:16	04:38
	16:23	44	15:15 (35)	17:32			18:35	20:42	21:45	22:31
16	09:02		12:41 (36)	08:02			06:49	06:25	05:14	04:37
	16:25	41	15:16 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		14:45 (35)	08:00			06:47	06:23	05:12	04:37
	16:27	32	15:17 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:44 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	34	15:18 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:44 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	35	15:19 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:44 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	36	15:20 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:44 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	37	15:21 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:43 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	39	15:22 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:43 (35)	07:45			06:30	06:07	05:01	04:38
	16:40	39	15:22 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:43 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	40	15:23 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:43 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	40	15:23 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:43 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	41	15:24 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:43 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	41	15:24 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:43 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	42	15:25 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:43 (35)				07:14	05:52	04:52	04:40
	16:53	42	15:25 (35)				20:05	21:12	22:11	22:33
30	08:39		14:44 (35)				07:11	05:50	04:51	04:41
	16:55	42	15:26 (35)				20:07	21:14	22:12	22:33
31	08:37		14:43 (35)				07:08		04:50	
	16:57	42	15:25 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1217			469					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.18			0.22					
Total, real		213			101					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CU - Jostnieki P

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:20 (35)	08:46		12:14 (36)
	22:32	21:49	20:33	19:11			16:51	31	14:51 (35)	15:58	47	14:52 (35)
2	04:43	05:31	06:35	07:37			07:45		14:18 (35)	08:48		12:14 (36)
	22:32	21:47	20:30	19:08			16:49	34	14:52 (35)	15:57	46	14:51 (35)
3	04:44	05:33	06:38	07:39			07:47		14:18 (35)	08:50		12:14 (36)
	22:31	21:45	20:28	19:05			16:47	35	14:53 (35)	15:56	44	14:50 (35)
4	04:45	05:35	06:40	07:42			07:49		14:16 (35)	08:51		12:14 (36)
	22:31	21:43	20:25	19:03			16:44	38	14:54 (35)	15:55	42	14:49 (35)
5	04:46	05:38	06:42	07:44			07:52		14:16 (35)	08:53		12:14 (36)
	22:30	21:41	20:22	19:00			16:42	39	14:55 (35)	15:55	40	14:48 (35)
6	04:47	05:40	06:44	07:46			07:54		14:15 (35)	08:55		12:14 (36)
	22:29	21:38	20:20	18:57			16:40	40	14:55 (35)	15:54	36	14:46 (35)
7	04:48	05:42	06:46	07:48			07:56		14:15 (35)	08:56		12:14 (36)
	22:28	21:36	20:17	18:55			16:38	41	14:56 (35)	15:53	30	12:44 (36)
8	04:49	05:44	06:48	07:50			07:58		14:15 (35)	08:58		12:14 (36)
	22:27	21:34	20:14	18:52			16:36	41	14:56 (35)	15:53	30	12:44 (36)
9	04:50	05:46	06:50	07:52			08:01		14:15 (35)	08:59		12:14 (36)
	22:26	21:32	20:11	18:49			16:34	41	14:56 (35)	15:52	31	12:45 (36)
10	04:52	05:48	06:52	07:54			08:03		14:14 (35)	09:00		12:14 (36)
	22:25	21:29	20:09	18:46			16:32	42	14:56 (35)	15:52	32	12:46 (36)
11	04:53	05:50	06:54	07:56			08:05		14:15 (35)	09:02		12:15 (36)
	22:24	21:27	20:06	18:44			16:30	42	14:57 (35)	15:51	32	12:47 (36)
12	04:54	05:52	06:56	07:59			08:07		14:15 (35)	09:03		11:10 (37)
	22:23	21:24	20:03	18:41			16:28	42	14:57 (35)	15:51	34	12:47 (36)
13	04:56	05:54	06:58	08:01			08:10		14:15 (35)	09:04		11:08 (37)
	22:22	21:22	20:00	18:39			16:26	42	14:57 (35)	15:51	38	12:47 (36)
14	04:57	05:56	07:00	08:03			08:12		14:15 (35)	09:05		11:08 (37)
	22:21	21:20	19:58	18:36			16:24	42	14:57 (35)	15:50	42	12:49 (36)
15	04:59	05:58	07:02	08:05			08:14		14:16 (35)	09:06		11:08 (37)
	22:19	21:17	19:55	18:33			16:22	41	14:57 (35)	15:50	43	12:49 (36)
16	05:00	06:00	07:04	08:07			08:16		14:16 (35)	09:07		11:08 (37)
	22:18	21:15	19:52	18:31			16:20	41	14:57 (35)	15:50	45	12:50 (36)
17	05:02	06:02	07:06	08:09			08:18		14:17 (35)	09:08		11:08 (37)
	22:16	21:12	19:49	18:28			16:18	40	14:57 (35)	15:50	45	12:50 (36)
18	05:04	06:04	07:08	08:12			08:20		14:17 (35)	09:09		11:07 (37)
	22:15	21:10	19:47	18:25			16:16	40	14:57 (35)	15:51	47	12:50 (36)
19	05:05	06:06	07:10	08:14			08:23		14:17 (35)	09:10		11:08 (37)
	22:13	21:07	19:44	18:23			16:15	39	14:56 (35)	15:51	47	12:51 (36)
20	05:07	06:08	07:12	08:16			08:25		14:18 (35)	09:11		11:08 (37)
	22:12	21:05	19:41	18:20			16:13	39	14:57 (35)	15:51	47	12:51 (36)
21	05:09	06:11	07:15	08:18			08:27		14:19 (35)	09:11		11:08 (37)
	22:10	21:02	19:38	18:18			16:11	37	14:56 (35)	15:51	47	12:51 (36)
22	05:11	06:13	07:17	08:20			08:29		14:20 (35)	09:12		11:09 (37)
	22:08	21:00	19:36	18:15			16:10	36	14:56 (35)	15:52	47	12:52 (36)
23	05:12	06:15	07:19	08:23			08:31		14:21 (35)	09:12		11:09 (37)
	22:07	20:57	19:33	18:13			16:08	35	14:56 (35)	15:52	47	12:52 (36)
24	05:14	06:17	07:21	08:25			08:33		14:21 (35)	09:13		11:10 (37)
	22:05	20:54	19:30	18:10			16:07	34	14:55 (35)	15:53	48	12:54 (36)
25	05:16	06:19	07:23	07:27			08:35		14:22 (35)	09:13		11:11 (37)
	22:03	20:52	19:27	17:08			16:05	33	14:55 (35)	15:54	47	12:54 (36)
26	05:18	06:21	07:25	07:29			08:37		12:20 (36)	09:13		11:12 (37)
	22:01	20:49	19:25	17:05			16:04	41	14:55 (35)	15:54	45	12:54 (36)
27	05:20	06:23	07:27	07:31		14:33 (35)	08:39		12:18 (36)	09:14		11:12 (37)
	21:59	20:46	19:22	17:03	6	14:39 (35)	16:03	44	14:54 (35)	15:55	45	12:54 (36)
28	05:22	06:25	07:29	07:34		14:28 (35)	08:41		12:17 (36)	09:14		11:13 (37)
	21:57	20:44	19:19	17:01	16	14:44 (35)	16:02	46	14:54 (35)	15:56	44	12:55 (36)
29	05:24	06:27	07:31	07:36		14:24 (35)	08:43		12:16 (36)	09:14		11:15 (37)
	21:55	20:41	19:16	16:58	22	14:46 (35)	16:00	46	14:53 (35)	15:57	42	12:55 (36)
30	05:26	06:29	07:33	07:38		14:23 (35)	08:45		12:15 (36)	09:14		11:15 (37)
	21:53	20:39	19:14	16:56	26	14:49 (35)	15:59	46	14:52 (35)	15:58	41	12:55 (36)
31	05:28	06:31		07:40		14:21 (35)				09:14		11:18 (37)
	21:51	20:36		16:53	29	14:50 (35)				15:59	37	12:56 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					99			1188			1288	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.69			0.65	
Total reduction					0.27			0.15			0.14	
Total, real					27			176			179	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CV - Jostnieki R

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		11:17 (37)	08:36		14:45 (35)	07:30	07:06	05:47	04:48
	16:01	62	15:05 (34)	17:00	42	15:27 (35)	18:04	20:12	21:16	22:15
2	09:13		12:24 (36)	08:34		14:45 (35)	07:27	07:03	05:45	04:47
	16:02	56	15:05 (34)	17:02	42	15:27 (35)	18:06	20:14	21:18	22:17
3	09:13		12:24 (36)	08:31		14:46 (35)	07:24	07:00	05:42	04:46
	16:03	55	15:05 (34)	17:04	42	15:28 (35)	18:08	20:16	21:20	22:18
4	09:12		12:26 (36)	08:29		14:45 (35)	07:22	06:57	05:40	04:45
	16:05	54	15:06 (34)	17:07	42	15:27 (35)	18:11	20:18	21:22	22:20
5	09:12		12:26 (36)	08:27		14:46 (35)	07:19	06:55	05:38	04:44
	16:06	54	15:06 (34)	17:09	41	15:27 (35)	18:13	20:20	21:25	22:21
6	09:11		12:27 (36)	08:25		14:47 (35)	07:16	06:52	05:36	04:43
	16:08	54	15:07 (34)	17:11	40	15:27 (35)	18:15	20:22	21:27	22:22
7	09:11		12:28 (36)	08:23		14:47 (35)	07:14	06:49	05:33	04:42
	16:09	52	15:07 (34)	17:14	39	15:26 (35)	18:17	20:24	21:29	22:23
8	09:10		12:28 (36)	08:21		14:48 (35)	07:11	06:47	05:31	04:41
	16:11	52	15:07 (34)	17:16	38	15:26 (35)	18:20	20:27	21:31	22:24
9	09:09		12:29 (36)	08:19		14:49 (35)	07:08	06:44	05:29	04:41
	16:12	51	15:08 (34)	17:18	35	15:24 (35)	18:22	20:29	21:33	22:26
10	09:08		12:31 (36)	08:16		14:50 (35)	07:06	06:41	05:27	04:40
	16:14	49	15:08 (35)	17:21	34	15:24 (35)	18:24	20:31	21:35	22:27
11	09:07		12:31 (36)	08:14		14:51 (35)	07:03	06:38	05:25	04:39
	16:16	49	15:09 (35)	17:23	31	15:22 (35)	18:26	20:33	21:37	22:28
12	09:06		12:32 (36)	08:12		14:53 (35)	07:00	06:36	05:22	04:39
	16:18	49	15:11 (35)	17:25	29	15:22 (35)	18:28	20:35	21:39	22:28
13	09:05		12:34 (36)	08:09		14:54 (35)	06:58	06:33	05:20	04:38
	16:20	48	15:13 (35)	17:27	26	15:20 (35)	18:31	20:37	21:41	22:29
14	09:04		12:35 (36)	08:07		14:57 (35)	06:55	06:30	05:18	04:38
	16:21	47	15:14 (35)	17:30	21	15:18 (35)	18:33	20:39	21:43	22:30
15	09:03		12:37 (36)	08:05		15:00 (35)	06:52	06:28	05:16	04:38
	16:23	46	15:15 (35)	17:32	14	15:14 (35)	18:35	20:42	21:45	22:31
16	09:02		12:39 (36)	08:02			06:49	06:25	05:14	04:37
	16:25	43	15:16 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		12:42 (36)	08:00			06:47	06:23	05:12	04:37
	16:27	40	15:18 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:46 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	33	15:19 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:45 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	34	15:19 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:46 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	35	15:21 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:45 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	37	15:22 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:45 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	38	15:23 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:45 (35)	07:45			06:30	06:07	05:01	04:38
	16:40	38	15:23 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:44 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	40	15:24 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:44 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	40	15:24 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:44 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	41	15:25 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:44 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	42	15:26 (35)	18:00			19:01	21:07	22:07	22:34
28	08:43		14:44 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	42	15:26 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:45 (35)				07:14	05:52	04:52	04:40
	16:53	42	15:27 (35)				20:05	21:12	22:11	22:33
30	08:39		14:45 (35)				07:11	05:50	04:51	04:41
	16:55	42	15:27 (35)				20:07	21:14	22:12	22:33
31	08:37		14:44 (35)				07:08		04:50	
	16:57	43	15:27 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1408			516					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.18			0.22					
Total, real		247			111					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CV - Jostnieki R

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:20 (35)	08:46		12:13 (36)
	22:32	21:49	20:33	19:11			16:51	34	14:54 (35)	15:58	50	14:51 (35)
2	04:43	05:31	06:35	07:37			07:45		14:18 (35)	08:48		12:13 (36)
	22:32	21:47	20:30	19:08			16:49	36	14:54 (35)	15:57	49	14:50 (35)
3	04:44	05:33	06:38	07:39			07:47		14:18 (35)	08:50		12:13 (36)
	22:31	21:45	20:28	19:05			16:47	37	14:55 (35)	15:56	51	14:51 (34)
4	04:45	05:35	06:40	07:42			07:49		14:17 (35)	08:51		12:13 (36)
	22:31	21:43	20:25	19:03			16:44	39	14:56 (35)	15:55	51	14:51 (34)
5	04:46	05:38	06:42	07:44			07:52		14:17 (35)	08:53		12:13 (36)
	22:30	21:41	20:22	19:00			16:42	40	14:57 (35)	15:55	52	14:52 (34)
6	04:47	05:40	06:44	07:46			07:54		14:16 (35)	08:55		12:13 (36)
	22:29	21:38	20:20	18:57			16:40	41	14:57 (35)	15:54	54	14:53 (34)
7	04:48	05:42	06:46	07:48			07:56		14:16 (35)	08:56		12:13 (36)
	22:28	21:36	20:17	18:55			16:38	41	14:57 (35)	15:53	54	14:53 (34)
8	04:49	05:44	06:48	07:50			07:58		14:15 (35)	08:58		12:13 (36)
	22:27	21:34	20:14	18:52			16:36	42	14:57 (35)	15:53	55	14:53 (34)
9	04:50	05:46	06:50	07:52			08:01		14:16 (35)	08:59		12:13 (36)
	22:26	21:32	20:11	18:49			16:34	42	14:58 (35)	15:52	56	14:54 (34)
10	04:52	05:48	06:52	07:54			08:03		14:15 (35)	09:00		12:13 (36)
	22:25	21:29	20:09	18:46			16:32	43	14:58 (35)	15:52	56	14:54 (34)
11	04:53	05:50	06:54	07:56			08:05		14:16 (35)	09:02		11:07 (37)
	22:24	21:27	20:06	18:44			16:30	42	14:58 (35)	15:51	62	14:55 (34)
12	04:54	05:52	06:56	07:59			08:07		14:16 (35)	09:03		11:06 (37)
	22:23	21:24	20:03	18:41			16:28	42	14:58 (35)	15:51	64	14:55 (34)
13	04:56	05:54	06:58	08:01			08:10		14:16 (35)	09:04		11:05 (37)
	22:22	21:22	20:00	18:39			16:26	43	14:59 (35)	15:51	67	14:55 (34)
14	04:57	05:56	07:00	08:03			08:12		14:16 (35)	09:05		11:06 (37)
	22:21	21:20	19:58	18:36			16:24	42	14:58 (35)	15:50	69	14:56 (34)
15	04:59	05:58	07:02	08:05			08:14		14:17 (35)	09:06		11:06 (37)
	22:19	21:17	19:55	18:33			16:22	42	14:59 (35)	15:50	68	14:56 (34)
16	05:00	06:00	07:04	08:07			08:16		14:17 (35)	09:07		11:06 (37)
	22:18	21:15	19:52	18:31			16:20	41	14:58 (35)	15:50	70	14:57 (34)
17	05:02	06:02	07:06	08:09			08:18		14:18 (35)	09:08		11:06 (37)
	22:16	21:12	19:49	18:28			16:18	40	14:58 (35)	15:50	70	14:57 (34)
18	05:04	06:04	07:08	08:12			08:20		14:18 (35)	09:09		11:05 (37)
	22:15	21:10	19:47	18:25			16:16	40	14:58 (35)	15:51	71	14:57 (34)
19	05:05	06:06	07:10	08:14			08:23		14:19 (35)	09:10		11:06 (37)
	22:13	21:07	19:44	18:23			16:15	38	14:57 (35)	15:51	72	14:57 (34)
20	05:07	06:08	07:12	08:16			08:25		14:20 (35)	09:11		11:06 (37)
	22:12	21:05	19:41	18:20			16:13	38	14:58 (35)	15:51	73	14:58 (34)
21	05:09	06:11	07:15	08:18			08:27		14:20 (35)	09:11		11:06 (37)
	22:10	21:02	19:38	18:18			16:11	37	14:57 (35)	15:51	72	14:58 (34)
22	05:11	06:13	07:17	08:20			08:29		14:22 (35)	09:12		11:07 (37)
	22:08	21:00	19:36	18:15			16:10	35	14:57 (35)	15:52	72	14:59 (34)
23	05:12	06:15	07:19	08:23			08:31		14:22 (35)	09:12		11:07 (37)
	22:07	20:57	19:33	18:13			16:08	35	14:57 (35)	15:52	72	14:59 (34)
24	05:14	06:17	07:21	08:25			08:33		14:23 (35)	09:13		11:09 (37)
	22:05	20:54	19:30	18:10			16:07	33	14:56 (35)	15:53	72	15:00 (34)
25	05:16	06:19	07:23	07:27			08:35		12:19 (36)	09:13		11:09 (37)
	22:03	20:52	19:27	17:08			16:05	40	14:55 (35)	15:54	72	15:01 (34)
26	05:18	06:21	07:25	07:29		14:34 (35)	08:37		12:18 (36)	09:13		11:10 (37)
	22:01	20:49	19:25	17:05	6	14:40 (35)	16:04	43	14:55 (35)	15:54	70	15:01 (34)
27	05:20	06:23	07:27	07:31		14:29 (35)	08:39		12:16 (36)	09:14		11:10 (37)
	21:59	20:46	19:22	17:03	17	14:46 (35)	16:03	46	14:55 (35)	15:55	71	15:01 (34)
28	05:22	06:25	07:29	07:34		14:26 (35)	08:41		12:15 (36)	09:14		11:11 (37)
	21:57	20:44	19:19	17:01	22	14:48 (35)	16:02	47	14:54 (35)	15:56	69	15:02 (34)
29	05:24	06:27	07:31	07:36		14:23 (35)	08:43		12:14 (36)	09:14		11:12 (37)
	21:55	20:41	19:16	16:58	26	14:49 (35)	16:00	48	14:53 (35)	15:57	69	15:03 (34)
30	05:26	06:29	07:33	07:38		14:22 (35)	08:44		12:13 (36)	09:14		11:13 (37)
	21:53	20:39	19:14	16:56	29	14:51 (35)	15:59	49	14:52 (35)	15:58	66	15:02 (34)
31	05:28	06:31		07:40		14:20 (35)				09:14		11:14 (37)
	21:51	20:36		16:53	32	14:52 (35)				15:59	65	15:03 (34)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					132			1216			1984	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.69			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					36			180			279	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CW - Jostnieki S

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		11:13 (37)	08:36		14:41 (35)	07:30	07:06	05:47	04:48
	16:01	65	15:03 (34)	17:00	42	15:23 (35)	18:04	20:12	21:16	22:15
2	09:13		11:15 (37)	08:34		14:41 (35)	07:27	07:03	05:45	04:47
	16:02	61	15:03 (34)	17:02	43	15:24 (35)	18:06	20:14	21:18	22:17
3	09:13		12:21 (36)	08:31		14:42 (35)	07:24	07:00	05:42	04:46
	16:03	55	15:03 (34)	17:04	42	15:24 (35)	18:08	20:16	21:20	22:18
4	09:12		12:22 (36)	08:29		14:42 (35)	07:22	06:57	05:40	04:45
	16:05	55	15:04 (34)	17:07	41	15:23 (35)	18:11	20:18	21:22	22:20
5	09:12		12:23 (36)	08:27		14:43 (35)	07:19	06:55	05:38	04:44
	16:06	54	15:04 (34)	17:09	40	15:23 (35)	18:13	20:20	21:25	22:21
6	09:11		12:23 (36)	08:25		14:44 (35)	07:16	06:52	05:36	04:43
	16:08	55	15:05 (34)	17:11	39	15:23 (35)	18:15	20:22	21:27	22:22
7	09:11		12:24 (36)	08:23		14:44 (35)	07:14	06:49	05:33	04:42
	16:09	53	15:05 (34)	17:14	38	15:22 (35)	18:17	20:24	21:29	22:23
8	09:10		12:25 (36)	08:21		14:45 (35)	07:11	06:47	05:31	04:41
	16:11	52	15:05 (34)	17:16	37	15:22 (35)	18:20	20:27	21:31	22:24
9	09:09		12:26 (36)	08:19		14:46 (35)	07:08	06:44	05:29	04:41
	16:12	51	15:06 (34)	17:18	34	15:20 (35)	18:22	20:29	21:33	22:26
10	09:08		12:27 (36)	08:16		14:47 (35)	07:06	06:41	05:27	04:40
	16:14	49	15:06 (35)	17:21	33	15:20 (35)	18:24	20:31	21:35	22:27
11	09:07		12:28 (36)	08:14		14:48 (35)	07:03	06:38	05:25	04:39
	16:16	49	15:07 (35)	17:23	30	15:18 (35)	18:26	20:33	21:37	22:28
12	09:06		12:29 (36)	08:12		14:50 (35)	07:00	06:36	05:22	04:39
	16:18	49	15:09 (35)	17:25	27	15:17 (35)	18:28	20:35	21:39	22:28
13	09:05		12:31 (36)	08:09		14:52 (35)	06:58	06:33	05:20	04:38
	16:20	49	15:11 (35)	17:27	23	15:15 (35)	18:31	20:37	21:41	22:29
14	09:04		12:32 (36)	08:07		14:55 (35)	06:55	06:30	05:18	04:38
	16:21	47	15:11 (35)	17:30	18	15:13 (35)	18:33	20:39	21:43	22:30
15	09:03		12:34 (36)	08:05		14:59 (35)	06:52	06:28	05:16	04:38
	16:23	47	15:13 (35)	17:32	9	15:08 (35)	18:35	20:42	21:45	22:31
16	09:02		12:35 (36)	08:02			06:49	06:25	05:14	04:37
	16:25	46	15:14 (35)	17:34			18:37	20:44	21:47	22:31
17	09:01		12:39 (36)	08:00			06:47	06:23	05:12	04:37
	16:27	41	15:15 (35)	17:37			18:39	20:46	21:49	22:32
18	08:59		14:41 (35)	07:57			06:44	06:20	05:10	04:37
	16:29	35	15:16 (35)	17:39			18:41	20:48	21:51	22:32
19	08:58		14:41 (35)	07:55			06:41	06:17	05:09	04:37
	16:31	36	15:17 (35)	17:41			18:44	20:50	21:53	22:33
20	08:56		14:41 (35)	07:53			06:38	06:15	05:07	04:37
	16:33	37	15:18 (35)	17:44			18:46	20:52	21:55	22:33
21	08:55		14:41 (35)	07:50			06:36	06:12	05:05	04:37
	16:35	38	15:19 (35)	17:46			18:48	20:55	21:57	22:33
22	08:53		14:41 (35)	07:48			06:33	06:10	05:03	04:37
	16:38	39	15:20 (35)	17:48			18:50	20:57	21:59	22:34
23	08:52		14:40 (35)	07:45			06:30	06:07	05:01	04:38
	16:40	40	15:20 (35)	17:50			18:52	20:59	22:01	22:34
24	08:50		14:40 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	41	15:21 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		14:40 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	41	15:21 (35)	17:55			18:57	21:03	22:04	22:34
26	08:47		14:40 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	42	15:22 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		14:40 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	42	15:22 (35)	18:00			19:01	21:07	22:08	22:34
28	08:43		14:40 (35)	07:32			06:16	05:55	04:54	04:40
	16:51	43	15:23 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		14:41 (35)				07:14	05:52	04:52	04:40
	16:53	42	15:23 (35)				20:05	21:12	22:11	22:33
30	08:39		14:41 (35)				07:11	05:50	04:51	04:41
	16:55	43	15:24 (35)				20:07	21:14	22:12	22:33
31	08:37		14:40 (35)				07:08		04:50	
	16:57	43	15:23 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		1440			496					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.69					
Total reduction		0.18			0.22					
Total, real		253			107					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CW - Jostnieki S

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:17 (35)	08:46		12:10 (36)
	22:32	21:49	20:33	19:11			16:51	33	14:50 (35)	15:58	49	14:49 (35)
2	04:43	05:31	06:35	07:37			07:45		14:15 (35)	08:48		12:09 (36)
	22:32	21:47	20:30	19:08			16:49	35	14:50 (35)	15:57	50	14:49 (35)
3	04:44	05:33	06:38	07:39			07:47		14:15 (35)	08:50		12:09 (36)
	22:31	21:45	20:28	19:05			16:47	37	14:52 (35)	15:56	51	14:49 (34)
4	04:45	05:35	06:40	07:42			07:49		14:13 (35)	08:51		12:09 (36)
	22:31	21:43	20:25	19:03			16:44	39	14:52 (35)	15:55	52	14:49 (34)
5	04:46	05:38	06:42	07:44			07:52		14:13 (35)	08:53		12:09 (36)
	22:30	21:41	20:22	19:00			16:42	40	14:53 (35)	15:55	53	14:50 (34)
6	04:47	05:40	06:44	07:46			07:54		14:12 (35)	08:55		12:10 (36)
	22:29	21:38	20:20	18:57			16:40	41	14:53 (35)	15:54	54	14:51 (34)
7	04:48	05:42	06:46	07:48			07:56		14:13 (35)	08:56		12:10 (36)
	22:28	21:36	20:17	18:55			16:38	41	14:54 (35)	15:53	54	14:51 (34)
8	04:49	05:44	06:48	07:50			07:58		14:12 (35)	08:58		12:09 (36)
	22:27	21:34	20:14	18:52			16:36	42	14:54 (35)	15:53	55	14:51 (34)
9	04:50	05:46	06:50	07:52			08:01		14:12 (35)	08:59		12:10 (36)
	22:26	21:32	20:11	18:49			16:34	42	14:54 (35)	15:52	55	14:52 (34)
10	04:52	05:48	06:52	07:54			08:03		14:12 (35)	09:00		11:04 (37)
	22:25	21:29	20:09	18:46			16:32	42	14:54 (35)	15:52	60	14:52 (34)
11	04:53	05:50	06:54	07:56			08:05		14:12 (35)	09:02		11:04 (37)
	22:24	21:27	20:06	18:44			16:30	43	14:55 (35)	15:51	63	14:53 (34)
12	04:54	05:52	06:56	07:59			08:07		14:12 (35)	09:03		11:03 (37)
	22:23	21:24	20:03	18:41			16:28	43	14:55 (35)	15:51	66	14:53 (34)
13	04:56	05:54	06:58	08:01			08:10		14:13 (35)	09:04		11:02 (37)
	22:22	21:22	20:00	18:39			16:26	42	14:55 (35)	15:51	68	14:53 (34)
14	04:57	05:56	07:00	08:03			08:12		14:12 (35)	09:05		11:03 (37)
	22:21	21:20	19:58	18:36			16:24	43	14:55 (35)	15:50	69	14:54 (34)
15	04:59	05:58	07:02	08:05			08:14		14:13 (35)	09:06		11:03 (37)
	22:19	21:17	19:55	18:33			16:22	42	14:55 (35)	15:50	69	14:54 (34)
16	05:00	06:00	07:04	08:07			08:16		14:13 (35)	09:07		11:03 (37)
	22:18	21:15	19:52	18:31			16:20	42	14:55 (35)	15:50	71	14:55 (34)
17	05:02	06:02	07:06	08:09			08:18		14:14 (35)	09:08		11:03 (37)
	22:16	21:12	19:49	18:28			16:18	41	14:55 (35)	15:50	71	14:55 (34)
18	05:04	06:04	07:08	08:12			08:20		14:14 (35)	09:09		11:02 (37)
	22:15	21:10	19:47	18:25			16:16	41	14:55 (35)	15:51	73	14:55 (34)
19	05:05	06:06	07:10	08:14			08:23		14:14 (35)	09:10		11:03 (37)
	22:13	21:07	19:44	18:23			16:15	40	14:54 (35)	15:51	73	14:56 (34)
20	05:07	06:08	07:12	08:16			08:25		14:16 (35)	09:11		11:03 (37)
	22:12	21:05	19:41	18:20			16:13	39	14:55 (35)	15:51	73	14:56 (34)
21	05:09	06:11	07:15	08:18			08:27		14:16 (35)	09:11		11:03 (37)
	22:10	21:02	19:38	18:18			16:11	38	14:54 (35)	15:51	73	14:56 (34)
22	05:11	06:13	07:17	08:20			08:29		14:17 (35)	09:12		11:04 (37)
	22:08	21:00	19:36	18:15			16:10	37	14:54 (35)	15:52	73	14:57 (34)
23	05:12	06:15	07:19	08:23			08:31		14:18 (35)	09:12		11:04 (37)
	22:07	20:57	19:33	18:13			16:08	36	14:54 (35)	15:52	73	14:57 (34)
24	05:14	06:17	07:21	08:25			08:33		14:18 (35)	09:13		11:06 (37)
	22:05	20:54	19:30	18:10			16:07	35	14:53 (35)	15:53	72	14:58 (34)
25	05:16	06:19	07:23	07:27			08:35		12:16 (36)	09:13		11:06 (37)
	22:03	20:52	19:27	17:08			16:05	41	14:52 (35)	15:54	73	14:59 (34)
26	05:18	06:21	07:25	07:29			08:37		12:15 (36)	09:13		11:07 (37)
	22:01	20:49	19:25	17:05			16:04	45	14:53 (35)	15:55	71	14:59 (34)
27	05:20	06:23	07:27	07:31		14:28 (35)	08:39		12:13 (36)	09:14		11:07 (37)
	21:59	20:46	19:22	17:03	12	14:40 (35)	16:03	47	14:52 (35)	15:55	72	15:00 (34)
28	05:22	06:25	07:29	07:34		14:24 (35)	08:41		12:12 (36)	09:14		11:08 (37)
	21:57	20:44	19:19	17:01	19	14:43 (35)	16:02	47	14:51 (35)	15:56	71	15:00 (34)
29	05:24	06:27	07:31	07:36		14:21 (35)	08:43		12:11 (36)	09:14		11:09 (37)
	21:55	20:41	19:16	16:58	24	14:45 (35)	16:00	49	14:51 (35)	15:57	71	15:01 (34)
30	05:26	06:29	07:33	07:38		14:19 (35)	08:45		12:10 (36)	09:14		11:10 (37)
	21:53	20:39	19:14	16:56	28	14:47 (35)	15:59	49	14:50 (35)	15:58	69	15:01 (34)
31	05:28	06:31		07:40		14:17 (35)				09:14		11:11 (37)
	21:51	20:36		16:53	31	14:48 (35)				15:59	68	15:02 (34)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					114			1232			2015	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.69			0.66	
Total reduction					0.27			0.15			0.14	
Total, real					31			182			283	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CX - Jostnieki T

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:13		12:22 (36)	08:36	14:41 (35)	07:30	07:06	05:47	04:48
	16:01	32	12:54 (36)	17:00	41	15:22 (35)	18:04	20:12	21:16	22:15
2	09:13		12:22 (36)	08:34	14:41 (35)	07:27	07:03	05:45	04:47
	16:02	31	12:53 (36)	17:02	42	15:23 (35)	18:06	20:14	21:18	22:17
3	09:13		12:22 (36)	08:31	14:42 (35)	07:24	07:00	05:42	04:46
	16:03	31	12:53 (36)	17:04	41	15:23 (35)	18:08	20:16	21:20	22:18
4	09:12		12:24 (36)	08:29	14:42 (35)	07:22	06:57	05:40	04:45
	16:05	36	14:56 (35)	17:07	40	15:22 (35)	18:11	20:18	21:22	22:20
5	09:12		12:24 (36)	08:27	14:43 (35)	07:19	06:55	05:38	04:44
	16:06	41	14:59 (35)	17:09	39	15:22 (35)	18:13	20:20	21:25	22:21
6	09:11		12:25 (36)	08:25	14:44 (35)	07:16	06:52	05:36	04:43
	16:08	42	15:00 (35)	17:11	38	15:22 (35)	18:15	20:22	21:27	22:22
7	09:11		12:26 (36)	08:23	14:44 (35)	07:14	06:49	05:33	04:42
	16:09	44	15:02 (35)	17:14	37	15:21 (35)	18:17	20:24	21:29	22:23
8	09:10		12:27 (36)	08:21	14:46 (35)	07:11	06:47	05:31	04:41
	16:11	46	15:04 (35)	17:16	34	15:20 (35)	18:20	20:27	21:31	22:24
9	09:09		12:28 (36)	08:19	14:46 (35)	07:08	06:44	05:29	04:41
	16:12	48	15:06 (35)	17:18	33	15:19 (35)	18:22	20:29	21:33	22:26
10	09:08		12:29 (36)	08:16	14:48 (35)	07:06	06:41	05:27	04:40
	16:14	48	15:07 (35)	17:21	30	15:18 (35)	18:24	20:31	21:35	22:27
11	09:07		12:29 (36)	08:14	14:49 (35)	07:03	06:38	05:25	04:39
	16:16	49	15:08 (35)	17:23	27	15:16 (35)	18:26	20:33	21:37	22:28
12	09:06		12:31 (36)	08:12	14:51 (35)	07:00	06:36	05:22	04:39
	16:18	49	15:09 (35)	17:25	24	15:15 (35)	18:28	20:35	21:39	22:28
13	09:05		12:33 (36)	08:09	14:54 (35)	06:58	06:33	05:20	04:38
	16:20	48	15:11 (35)	17:27	18	15:12 (35)	18:31	20:37	21:41	22:29
14	09:04		12:34 (36)	08:07	14:58 (35)	06:55	06:30	05:18	04:38
	16:21	47	15:11 (35)	17:30	11	15:09 (35)	18:33	20:39	21:43	22:30
15	09:03		12:36 (36)	08:05		06:52	06:28	05:16	04:38
	16:23	46	15:13 (35)	17:32		18:35	20:42	21:45	22:31
16	09:02		12:39 (36)	08:02		06:49	06:25	05:14	04:37
	16:25	41	15:14 (35)	17:34		18:37	20:44	21:47	22:31
17	09:01		14:41 (35)	08:00		06:47	06:23	05:12	04:37
	16:27	34	15:15 (35)	17:37		18:39	20:46	21:49	22:32
18	08:59		14:40 (35)	07:57		06:44	06:20	05:10	04:37
	16:29	36	15:16 (35)	17:39		18:41	20:48	21:51	22:32
19	08:58		14:40 (35)	07:55		06:41	06:17	05:09	04:37
	16:31	36	15:16 (35)	17:41		18:44	20:50	21:53	22:33
20	08:56		14:40 (35)	07:53		06:38	06:15	05:07	04:37
	16:33	38	15:18 (35)	17:44		18:46	20:52	21:55	22:33
21	08:55		14:40 (35)	07:50		06:36	06:12	05:05	04:37
	16:35	39	15:19 (35)	17:46		18:48	20:55	21:57	22:33
22	08:53		14:40 (35)	07:48		06:33	06:10	05:03	04:37
	16:38	39	15:19 (35)	17:48		18:50	20:57	21:59	22:34
23	08:52		14:40 (35)	07:45		06:30	06:07	05:01	04:38
	16:40	40	15:20 (35)	17:50		18:52	20:59	22:01	22:34
24	08:50		14:40 (35)	07:42		06:27	06:04	05:00	04:38
	16:42	40	15:20 (35)	17:53		18:54	21:01	22:02	22:34
25	08:48		14:40 (35)	07:40		06:25	06:02	04:58	04:38
	16:44	41	15:21 (35)	17:55		18:57	21:03	22:04	22:34
26	08:47		14:40 (35)	07:37		06:22	05:59	04:57	04:39
	16:46	41	15:21 (35)	17:57		18:59	21:05	22:06	22:34
27	08:45		14:40 (35)	07:35		06:19	05:57	04:55	04:39
	16:48	42	15:22 (35)	18:00		19:01	21:07	22:08	22:34
28	08:43		14:40 (35)	07:32		06:16	05:55	04:54	04:40
	16:51	42	15:22 (35)	18:02		19:03	21:10	22:09	22:33
29	08:41		14:40 (35)			07:14	05:52	04:52	04:40
	16:53	42	15:22 (35)			20:05	21:12	22:11	22:33
30	08:39		14:41 (35)			07:11	05:50	04:51	04:41
	16:55	42	15:23 (35)			20:07	21:14	22:12	22:33
31	08:37		14:40 (35)			07:08		04:50	
	16:57	42	15:22 (35)			20:09		22:14	
Potential sun hours	231			264		366	428	512	534
Total, worst case		1273			455				
Sun reduction		0.28			0.33				
Oper. time red.		0.94			0.94				
Wind dir. red.		0.68			0.69				
Total reduction		0.18			0.22				
Total, real		223			98				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CX - Jostnieki T

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		14:17 (35)	08:46		12:11 (36)
	22:32	21:49	20:33	19:11			16:51	31	14:48 (35)	15:58	49	14:50 (35)
2	04:43	05:31	06:35	07:37			07:45		14:16 (35)	08:48		12:11 (36)
	22:32	21:47	20:30	19:08			16:49	33	14:49 (35)	15:57	48	14:49 (35)
3	04:44	05:33	06:38	07:39			07:47		14:15 (35)	08:50		12:11 (36)
	22:31	21:45	20:28	19:05			16:47	35	14:50 (35)	15:56	48	14:49 (35)
4	04:45	05:35	06:40	07:42			07:49		14:14 (35)	08:51		12:11 (36)
	22:31	21:43	20:25	19:03			16:44	36	14:50 (35)	15:55	46	14:48 (35)
5	04:46	05:38	06:42	07:44			07:52		14:14 (35)	08:53		12:11 (36)
	22:30	21:41	20:22	19:00			16:42	37	14:51 (35)	15:55	45	14:48 (35)
6	04:47	05:40	06:44	07:46			07:54		14:12 (35)	08:55		12:11 (36)
	22:29	21:38	20:20	18:57			16:40	40	14:52 (35)	15:54	43	14:47 (35)
7	04:48	05:42	06:46	07:48			07:56		14:13 (35)	08:56		12:11 (36)
	22:28	21:36	20:17	18:55			16:38	40	14:53 (35)	15:53	41	14:46 (35)
8	04:49	05:44	06:48	07:50			07:58		14:12 (35)	08:58		12:11 (36)
	22:27	21:34	20:14	18:52			16:36	41	14:53 (35)	15:53	36	14:43 (35)
9	04:50	05:46	06:50	07:52			08:01		14:12 (35)	08:59		12:11 (36)
	22:26	21:32	20:11	18:49			16:34	41	14:53 (35)	15:52	31	12:42 (36)
10	04:52	05:48	06:52	07:54			08:03		14:11 (35)	09:00		12:11 (36)
	22:25	21:29	20:09	18:46			16:32	42	14:53 (35)	15:52	32	12:43 (36)
11	04:53	05:50	06:54	07:56			08:05		14:12 (35)	09:02		12:12 (36)
	22:24	21:27	20:06	18:44			16:30	42	14:54 (35)	15:51	32	12:44 (36)
12	04:54	05:52	06:56	07:59			08:07		14:11 (35)	09:03		11:06 (37)
	22:23	21:24	20:03	18:41			16:28	43	14:54 (35)	15:51	38	12:44 (36)
13	04:56	05:54	06:58	08:01			08:10		14:12 (35)	09:04		11:05 (37)
	22:22	21:22	20:00	18:39			16:26	42	14:54 (35)	15:51	40	12:44 (36)
14	04:57	05:56	07:00	08:03			08:12		14:12 (35)	09:05		11:06 (37)
	22:21	21:20	19:58	18:36			16:24	42	14:54 (35)	15:50	42	12:46 (36)
15	04:59	05:58	07:02	08:05			08:14		14:13 (35)	09:06		11:05 (37)
	22:19	21:17	19:55	18:33			16:22	42	14:55 (35)	15:50	44	12:46 (36)
16	05:00	06:00	07:04	08:07			08:16		14:13 (35)	09:07		11:05 (37)
	22:18	21:15	19:52	18:31			16:20	41	14:54 (35)	15:50	45	12:47 (36)
17	05:02	06:02	07:06	08:09			08:18		14:14 (35)	09:08		11:05 (37)
	22:16	21:12	19:49	18:28			16:18	41	14:55 (35)	15:50	46	12:47 (36)
18	05:04	06:04	07:08	08:12			08:20		14:14 (35)	09:09		11:05 (37)
	22:15	21:10	19:47	18:25			16:16	40	14:54 (35)	15:51	46	12:47 (36)
19	05:05	06:06	07:10	08:14			08:23		14:14 (35)	09:10		11:05 (37)
	22:13	21:07	19:44	18:23			16:15	40	14:54 (35)	15:51	48	12:48 (36)
20	05:07	06:08	07:12	08:16			08:25		14:15 (35)	09:11		11:06 (37)
	22:12	21:05	19:41	18:20			16:13	39	14:54 (35)	15:51	48	12:49 (36)
21	05:09	06:11	07:15	08:18			08:27		14:15 (35)	09:11		11:06 (37)
	22:10	21:02	19:38	18:18			16:11	39	14:54 (35)	15:51	47	12:48 (36)
22	05:11	06:13	07:17	08:20			08:29		14:16 (35)	09:12		11:07 (37)
	22:08	21:00	19:36	18:15			16:10	38	14:54 (35)	15:52	47	12:49 (36)
23	05:12	06:15	07:19	08:23			08:31		14:17 (35)	09:12		11:07 (37)
	22:07	20:57	19:33	18:13			16:08	36	14:53 (35)	15:52	47	12:49 (36)
24	05:14	06:17	07:21	08:25			08:33		14:17 (35)	09:13		11:08 (37)
	22:05	20:54	19:30	18:10			16:07	36	14:53 (35)	15:53	48	12:51 (36)
25	05:16	06:19	07:23	07:27			08:35		14:18 (35)	09:13		11:08 (37)
	22:03	20:52	19:27	17:08			16:05	34	14:52 (35)	15:54	48	12:51 (36)
26	05:18	06:21	07:25	07:29			08:37		12:18 (36)	09:13		11:09 (37)
	22:01	20:49	19:25	17:05			16:04	41	14:53 (35)	15:54	46	12:51 (36)
27	05:20	06:23	07:27	07:31			08:39		12:16 (36)	09:14		11:10 (37)
	21:59	20:46	19:22	17:03			16:03	45	14:52 (35)	15:55	46	12:52 (36)
28	05:22	06:25	07:29	07:34		14:26 (35)	08:41		12:14 (36)	09:14		11:11 (37)
	21:57	20:44	19:19	17:01	13	14:39 (35)	16:02	48	14:52 (35)	15:56	44	12:52 (36)
29	05:24	06:27	07:31	07:36		14:22 (35)	08:43		12:13 (36)	09:14		11:12 (37)
	21:55	20:41	19:16	16:58	20	14:42 (35)	16:00	48	14:51 (35)	15:57	43	12:53 (36)
30	05:26	06:29	07:33	07:38		14:21 (35)	08:45		12:12 (36)	09:14		11:13 (37)
	21:53	20:39	19:14	16:56	24	14:45 (35)	15:59	49	14:50 (35)	15:58	40	12:52 (36)
31	05:28	06:31		07:40		14:18 (35)				09:14		11:14 (37)
	21:51	20:36		16:53	28	14:46 (35)				15:59	40	12:53 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					85			1202			1344	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.69			0.69			0.65	
Total reduction					0.27			0.15			0.14	
Total, real					23			178			186	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CY - Kaleji A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April			May			June
1	09:13	08:35	07:29			07:05			19:01 (39)	05:47		19:23 (38)	04:48
	16:01	17:00	18:04			20:11	39		19:40 (40)	21:16	50	20:13 (38)	22:15
2	09:13	08:33	07:27			07:03			19:00 (39)	05:45		19:22 (38)	04:47
	16:02	17:02	18:06			20:13	39		19:39 (40)	21:18	50	20:12 (38)	22:16
3	09:12	08:31	07:24			07:00			19:01 (39)	05:42		19:23 (38)	04:46
	16:03	17:04	18:08			20:16	38		19:39 (40)	21:20	49	20:12 (38)	22:18
4	09:12	08:29	07:21			06:57			19:00 (39)	05:40		19:23 (38)	04:45
	16:05	17:07	18:11			20:18	38		19:38 (40)	21:22	48	20:11 (38)	22:19
5	09:11	08:27	07:19			06:54			19:00 (39)	05:38		19:23 (38)	04:44
	16:06	17:09	18:13			20:20	36		19:36 (40)	21:24	48	20:11 (38)	22:21
6	09:11	08:25	07:16			06:52			19:00 (39)	05:35		19:23 (38)	04:43
	16:08	17:11	18:15			20:22	35		19:35 (40)	21:26	48	20:11 (38)	22:22
7	09:10	08:23	07:13			06:49			19:01 (39)	05:33		19:24 (38)	04:42
	16:09	17:13	18:17			20:24	33		19:34 (40)	21:28	47	20:11 (38)	22:23
8	09:10	08:21	07:11			06:46			19:01 (39)	05:31		19:24 (38)	04:41
	16:11	17:16	18:19			20:26	30		19:31 (40)	21:31	46	20:10 (38)	22:24
9	09:09	08:18	07:08			06:44			19:02 (39)	05:29		19:25 (38)	04:41
	16:12	17:18	18:22			20:28	28		19:30 (39)	21:33	45	20:10 (38)	22:25
10	09:08	08:16	07:05			06:41			19:03 (39)	05:27		19:25 (38)	04:40
	16:14	17:20	18:24			20:31	25		19:28 (39)	21:35	44	20:09 (38)	22:26
11	09:07	08:14	07:03			06:38			19:03 (39)	05:24		19:26 (38)	04:39
	16:16	17:23	18:26			20:33	23		19:26 (39)	21:37	42	20:08 (38)	22:27
12	09:06	08:11	07:00			06:36			19:06 (39)	05:22		19:26 (38)	04:39
	16:18	17:25	18:28			20:35	18		19:24 (39)	21:39	42	20:08 (38)	22:28
13	09:05	08:09	06:57			06:33			19:08 (39)	05:20		19:27 (38)	04:38
	16:19	17:27	18:30			20:37	23		19:56 (38)	21:41	40	20:07 (38)	22:29
14	09:04	08:07	06:55			06:30			19:42 (38)	05:18		19:28 (38)	04:38
	16:21	17:30	18:33			20:39	19		20:01 (38)	21:43	38	20:06 (38)	22:30
15	09:03	08:04	06:52			06:28			19:38 (38)	05:16		19:28 (38)	04:38
	16:23	17:32	18:35			20:41	25		20:03 (38)	21:45	37	20:05 (38)	22:30
16	09:02	08:02	06:49			06:25			19:35 (38)	05:14		19:30 (38)	04:37
	16:25	17:34	18:37			20:43	30		20:05 (38)	21:47	35	20:05 (38)	22:31
17	09:00	08:00	06:46			06:22			19:34 (38)	05:12		19:31 (38)	04:37
	16:27	17:37	18:39			20:46	33		20:07 (38)	21:49	33	20:04 (38)	22:32
18	08:59	07:57	06:44			06:20			19:31 (38)	05:10		19:32 (38)	04:37
	16:29	17:39	18:41			20:48	36		20:07 (38)	21:51	30	20:02 (38)	22:32
19	08:58	07:55	06:41			06:17			19:30 (38)	05:08		19:34 (38)	04:37
	16:31	17:41	18:43			20:50	39		20:09 (38)	21:53	28	20:02 (38)	22:32
20	08:56	07:52	06:38			06:15			19:29 (38)	05:07		19:35 (38)	04:37
	16:33	17:43	18:46			20:52	40		20:09 (38)	21:55	25	20:00 (38)	22:33
21	08:55	07:50	06:36			06:12			19:28 (38)	05:05		19:37 (38)	04:37
	16:35	17:46	18:48			20:54	42		20:10 (38)	21:57	22	19:59 (38)	22:33
22	08:53	07:47	06:33			06:09			19:27 (38)	05:03		19:38 (38)	04:37
	16:37	17:48	18:50			20:56	44		20:11 (38)	21:58	19	19:57 (38)	22:33
23	08:51	07:45	06:30			06:07			19:26 (38)	05:01		19:41 (38)	04:37
	16:40	17:50	18:52			20:59	45		20:11 (38)	22:00	14	19:55 (38)	22:33
24	08:50	07:42	06:27		18:14 (39)	06:04			19:26 (38)	05:00		19:45 (38)	04:38
	16:42	17:53	18:54	12	18:26 (39)	21:01	46		20:12 (38)	22:02	5	19:50 (38)	22:34
25	08:48	07:40	06:25		18:10 (39)	06:02			19:24 (38)	04:58			04:38
	16:44	17:55	18:56	18	18:28 (39)	21:03	48		20:12 (38)	22:04			22:33
26	08:46	07:37	06:22		18:08 (39)	05:59			19:24 (38)	04:57			04:39
	16:46	17:57	18:58	21	18:29 (39)	21:05	48		20:12 (38)	22:05			22:33
27	08:45	07:35	06:19		18:07 (39)	05:57			19:24 (38)	04:55			04:39
	16:48	17:59	19:01	25	18:32 (39)	21:07	49		20:13 (38)	22:07			22:33
28	08:43	07:32	06:16		18:05 (39)	05:54			19:23 (38)	04:54			04:40
	16:51	18:02	19:03	29	18:34 (40)	21:09	49		20:12 (38)	22:09			22:33
29	08:41		07:14		19:03 (39)	05:52			19:23 (38)	04:52			04:40
	16:53		20:05	33	19:36 (40)	21:11	49		20:12 (38)	22:10			22:33
30	08:39		07:11		19:02 (39)	05:50			19:23 (38)	04:51			04:41
	16:55		20:07	36	19:38 (40)	21:14	50		20:13 (38)	22:12			22:32
31	08:37		07:08		19:02 (39)					04:50			
	16:57		20:09	38	19:40 (40)					22:14			
Potential sun hours	231	264	366			428			512			534	
Total, worst case				212			1097			885			
Sun reduction				0.46			0.55			0.61			
Oper. time red.				0.94			0.94			0.94			
Wind dir. red.				0.64			0.62			0.61			
Total reduction				0.27			0.32			0.35			
Total, real				58			347			309			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CY - Kaleji A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October	November	December
1	04:42			05:29		19:36 (38)	06:33		19:02 (39)	07:35	07:42	08:46
	22:32			21:49	42	20:18 (38)	20:33	23	19:25 (39)	19:11	16:51	15:58
2	04:43			05:31		19:36 (38)	06:35		19:00 (39)	07:37	07:45	08:48
	22:31			21:47	43	20:19 (38)	20:30	26	19:26 (39)	19:08	16:49	15:57
3	04:44			05:33		19:35 (38)	06:37		18:59 (39)	07:39	07:47	08:49
	22:31			21:45	45	20:20 (38)	20:28	28	19:27 (39)	19:05	16:46	15:56
4	04:45			05:35		19:34 (38)	06:39		18:58 (39)	07:41	07:49	08:51
	22:30			21:42	45	20:19 (38)	20:25	30	19:28 (40)	19:02	16:44	15:55
5	04:46			05:37		19:33 (38)	06:41		18:57 (39)	07:43	07:51	08:53
	22:29			21:40	47	20:20 (38)	20:22	33	19:30 (40)	19:00	16:42	15:55
6	04:47			05:39		19:33 (38)	06:44		18:56 (39)	07:46	07:54	08:54
	22:29			21:38	47	20:20 (38)	20:19	35	19:31 (40)	18:57	16:40	15:54
7	04:48			05:41		19:33 (38)	06:46		18:55 (39)	07:48	07:56	08:56
	22:28			21:36	47	20:20 (38)	20:17	37	19:32 (40)	18:54	16:38	15:53
8	04:49			05:44		19:32 (38)	06:48		18:54 (39)	07:50	07:58	08:57
	22:27			21:34	49	20:21 (38)	20:14	38	19:32 (40)	18:52	16:36	15:52
9	04:50			05:46		19:32 (38)	06:50		18:54 (39)	07:52	08:00	08:59
	22:26			21:31	49	20:21 (38)	20:11	38	19:32 (40)	18:49	16:33	15:52
10	04:52			05:48		19:32 (38)	06:52		18:54 (39)	07:54	08:03	09:00
	22:25			21:29	49	20:21 (38)	20:08	38	19:32 (40)	18:46	16:31	15:52
11	04:53			05:50		19:32 (38)	06:54		18:53 (39)	07:56	08:05	09:01
	22:24			21:27	49	20:21 (38)	20:06	39	19:32 (40)	18:44	16:29	15:51
12	04:54			05:52		19:32 (38)	06:56		18:53 (39)	07:58	08:07	09:03
	22:23			21:24	49	20:21 (38)	20:03	38	19:31 (40)	18:41	16:27	15:51
13	04:56			05:54		19:30 (38)	06:58		18:53 (39)	08:01	08:09	09:04
	22:21			21:22	50	20:20 (38)	20:00	36	19:29 (40)	18:38	16:25	15:51
14	04:57			05:56		19:30 (38)	07:00		18:54 (39)	08:03	08:11	09:05
	22:20			21:19	50	20:20 (38)	19:57	33	19:27 (40)	18:36	16:24	15:50
15	04:59			05:58		19:30 (38)	07:02		18:54 (39)	08:05	08:14	09:06
	22:19			21:17	49	20:19 (38)	19:55	30	19:24 (40)	18:33	16:22	15:50
16	05:00			06:00		19:31 (38)	07:04		18:55 (39)	08:07	08:16	09:07
	22:17			21:14	48	20:19 (38)	19:52	26	19:21 (39)	18:30	16:20	15:50
17	05:02			06:02		19:31 (38)	07:06		18:56 (39)	08:09	08:18	09:08
	22:16			21:12	48	20:19 (38)	19:49	22	19:18 (39)	18:28	16:18	15:50
18	05:04			06:04		19:31 (38)	07:08		18:57 (39)	08:11	08:20	09:09
	22:15			21:09	47	20:18 (38)	19:46	19	19:16 (39)	18:25	16:16	15:51
19	05:05			06:06		19:31 (38)	07:10		18:59 (39)	08:14	08:22	09:10
	22:13			21:07	46	20:17 (38)	19:44	14	19:13 (39)	18:23	16:15	15:51
20	05:07		19:53 (38)	06:08		19:32 (38)	07:12		19:03 (39)	08:16	08:24	09:10
	22:11	10	20:03 (38)	21:04	45	20:17 (38)	19:41	7	19:10 (39)	18:20	16:13	15:51
21	05:09		19:49 (38)	06:10		19:32 (38)	07:14			08:18	08:26	09:11
	22:10	16	20:05 (38)	21:02	44	20:16 (38)	19:38			18:18	16:11	15:51
22	05:11		19:48 (38)	06:12		19:33 (38)	07:16			08:20	08:29	09:11
	22:08	20	20:08 (38)	20:59	42	20:15 (38)	19:35			18:15	16:10	15:52
23	05:12		19:45 (38)	06:15		19:34 (38)	07:18			08:22	08:31	09:12
	22:06	24	20:09 (38)	20:57	40	20:14 (38)	19:33			18:13	16:08	15:52
24	05:14		19:44 (38)	06:17		19:34 (38)	07:21			08:25	08:33	09:12
	22:05	27	20:11 (38)	20:54	38	20:12 (38)	19:30			18:10	16:07	15:53
25	05:16		19:43 (38)	06:19		19:35 (38)	07:23			07:27	08:35	09:13
	22:03	29	20:12 (38)	20:51	36	20:11 (38)	19:27			17:08	16:05	15:54
26	05:18		19:41 (38)	06:21		19:37 (38)	07:25			07:29	08:37	09:13
	22:01	32	20:13 (38)	20:49	32	20:09 (38)	19:24			17:05	16:04	15:54
27	05:20		19:41 (38)	06:23		19:38 (38)	07:27			07:31	08:39	09:13
	21:59	33	20:14 (38)	20:46	29	20:07 (38)	19:22			17:03	16:03	15:55
28	05:22		19:40 (38)	06:25		19:40 (38)	07:29			07:33	08:40	09:13
	21:57	35	20:15 (38)	20:44	25	20:05 (38)	19:19			17:00	16:01	15:56
29	05:24		19:39 (38)	06:27		19:15 (39)	07:31			07:36	08:42	09:13
	21:55	38	20:17 (38)	20:41	19	20:01 (38)	19:16			16:58	16:00	15:57
30	05:25		19:37 (38)	06:29		19:07 (39)	07:33			07:38	08:44	09:13
	21:53	40	20:17 (38)	20:38	22	19:55 (38)	19:13			16:56	15:59	15:58
31	05:27		19:37 (38)	06:31		19:04 (39)				07:40		09:13
	21:51	40	20:17 (38)	20:36	19	19:23 (39)				16:53		15:59
Potential sun hours	534			472			385			322	244	211
Total, worst case		344			1290			590				
Sun reduction		0.60			0.59			0.50				
Oper. time red.		0.94			0.94			0.94				
Wind dir. red.		0.61			0.61			0.64				
Total reduction		0.34			0.33			0.30				
Total, real		118			431			176				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CZ - Kaleji B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April		May		June	
1	09:13	08:35	07:29			07:05		19:05 (39)	05:47		19:29 (38)	04:48
	16:01	17:00	18:04			20:11	37	19:42 (40)	21:16	50	20:19 (38)	22:15
2	09:13	08:33	07:27			07:03		19:04 (39)	05:45		19:28 (38)	04:47
	16:02	17:02	18:06			20:13	38	19:42 (40)	21:18	50	20:18 (38)	22:16
3	09:12	08:31	07:24			07:00		19:04 (39)	05:42		19:28 (38)	04:46
	16:03	17:04	18:08			20:16	38	19:42 (40)	21:20	50	20:18 (38)	22:18
4	09:12	08:29	07:21			06:57		19:04 (39)	05:40		19:28 (38)	04:45
	16:05	17:07	18:11			20:18	37	19:41 (40)	21:22	50	20:18 (38)	22:19
5	09:11	08:27	07:19			06:54		19:03 (39)	05:38		19:28 (38)	04:44
	16:06	17:09	18:13			20:20	37	19:40 (40)	21:24	50	20:18 (38)	22:21
6	09:11	08:25	07:16			06:52		19:02 (39)	05:35		19:28 (38)	04:43
	16:08	17:11	18:15			20:22	37	19:39 (40)	21:26	50	20:18 (38)	22:22
7	09:10	08:23	07:13			06:49		19:03 (39)	05:33		19:28 (38)	04:42
	16:09	17:13	18:17			20:24	36	19:39 (40)	21:28	50	20:18 (38)	22:23
8	09:10	08:21	07:11			06:46		19:03 (39)	05:31		19:28 (38)	04:41
	16:11	17:16	18:19			20:26	34	19:37 (40)	21:31	50	20:18 (38)	22:24
9	09:09	08:18	07:08			06:44		19:04 (39)	05:29		19:29 (38)	04:41
	16:12	17:18	18:22			20:28	31	19:35 (39)	21:33	49	20:18 (38)	22:25
10	09:08	08:16	07:05			06:41		19:04 (39)	05:27		19:29 (38)	04:40
	16:14	17:20	18:24			20:31	30	19:34 (39)	21:35	49	20:18 (38)	22:26
11	09:07	08:14	07:03			06:38		19:04 (39)	05:24		19:29 (38)	04:39
	16:16	17:23	18:26			20:33	28	19:32 (39)	21:37	48	20:17 (38)	22:27
12	09:06	08:11	07:00			06:36		19:06 (39)	05:22		19:29 (38)	04:39
	16:18	17:25	18:28			20:35	26	19:32 (39)	21:39	48	20:17 (38)	22:28
13	09:05	08:09	06:57			06:33		19:06 (39)	05:20		19:30 (38)	04:38
	16:19	17:27	18:30			20:37	23	19:29 (39)	21:41	46	20:16 (38)	22:29
14	09:04	08:07	06:55			06:30		19:09 (39)	05:18		19:30 (38)	04:38
	16:21	17:30	18:33			20:39	19	19:28 (39)	21:43	46	20:16 (38)	22:30
15	09:03	08:04	06:52			06:28		19:10 (39)	05:16		19:30 (38)	04:38
	16:23	17:32	18:35			20:41	15	19:25 (39)	21:45	45	20:15 (38)	22:30
16	09:02	08:02	06:49			06:25		19:14 (39)	05:14		19:32 (38)	04:37
	16:25	17:34	18:37			20:43	14	20:01 (38)	21:47	43	20:15 (38)	22:31
17	09:00	08:00	06:46			06:22		19:47 (38)	05:12		19:32 (38)	04:37
	16:27	17:37	18:39			20:46	19	20:06 (38)	21:49	42	20:14 (38)	22:32
18	08:59	07:57	06:44			06:20		19:43 (38)	05:10		19:32 (38)	04:37
	16:29	17:39	18:41			20:48	25	20:08 (38)	21:51	41	20:13 (38)	22:32
19	08:58	07:55	06:41			06:17		19:41 (38)	05:08		19:34 (38)	04:37
	16:31	17:41	18:43			20:50	30	20:11 (38)	21:53	39	20:13 (38)	22:32
20	08:56	07:52	06:38			06:15		19:39 (38)	05:07		19:34 (38)	04:37
	16:33	17:43	18:46			20:52	33	20:12 (38)	21:55	38	20:12 (38)	22:33
21	08:55	07:50	06:36			06:12		19:37 (38)	05:05		19:36 (38)	04:37
	16:35	17:46	18:48			20:54	36	20:13 (38)	21:57	36	20:12 (38)	22:33
22	08:53	07:47	06:33			06:09		19:36 (38)	05:03		19:36 (38)	04:37
	16:37	17:48	18:50			20:56	39	20:15 (38)	21:58	35	20:11 (38)	22:33
23	08:51	07:45	06:30			06:07		19:34 (38)	05:01		19:38 (38)	04:37
	16:40	17:50	18:52			20:59	41	20:15 (38)	22:00	33	20:11 (38)	22:33
24	08:50	07:42	06:27			06:04		19:34 (38)	05:00		19:38 (38)	04:38
	16:42	17:53	18:54			21:01	42	20:16 (38)	22:02	31	20:09 (38)	22:34
25	08:48	07:40	06:25		18:20 (39)	06:02		19:32 (38)	04:58		19:40 (38)	04:38
	16:44	17:55	18:56	7	18:27 (39)	21:03	44	20:16 (38)	22:04	29	20:09 (38)	22:33
26	08:46	07:37	06:22		18:15 (39)	05:59		19:32 (38)	04:57		19:40 (38)	04:39
	16:46	17:57	18:58	14	18:29 (39)	21:05	45	20:17 (38)	22:05	27	20:07 (38)	22:33
27	08:45	07:35	06:19		18:13 (39)	05:57		19:31 (38)	04:55		19:42 (38)	04:39
	16:48	17:59	19:01	19	18:32 (39)	21:07	47	20:18 (38)	22:07	24	20:06 (38)	22:33
28	08:43	07:32	06:16		18:11 (39)	05:54		19:30 (38)	04:54		19:44 (38)	04:40
	16:51	18:02	19:03	23	18:34 (39)	21:09	48	20:18 (38)	22:09	21	20:05 (38)	22:33
29	08:41		07:14		19:09 (39)	05:52		19:30 (38)	04:52		19:46 (38)	04:40
	16:53		20:05	27	19:36 (39)	21:11	48	20:18 (38)	22:10	18	20:04 (38)	22:33
30	08:39		07:11		19:07 (39)	05:50		19:29 (38)	04:51		19:48 (38)	04:41
	16:55		20:07	31	19:38 (40)	21:14	50	20:19 (38)	22:12	14	20:02 (38)	22:32
31	08:37		07:08		19:07 (39)				04:50		19:50 (38)	
	16:57		20:09	34	19:41 (40)				22:14	10	20:00 (38)	
Potential sun hours	231	264	366			428			512			534
Total, worst case				155			1027			1212		
Sun reduction				0.46			0.55			0.61		
Oper. time red.				0.94			0.94			0.94		
Wind dir. red.				0.64			0.62			0.60		
Total reduction				0.27			0.32			0.34		
Total, real				42			324			418		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: CZ - Kaleji B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October	November	December
1	04:42			05:29		19:40 (38)	06:33		19:03 (39)	07:35	07:42	08:46
	22:32			21:49	47	20:27 (38)	20:33	28	19:31 (39)	19:11	16:51	15:58
2	04:43			05:31		19:39 (38)	06:35		19:02 (39)	07:37	07:45	08:48
	22:31			21:47	49	20:28 (38)	20:30	30	19:32 (39)	19:08	16:49	15:57
3	04:44			05:33		19:39 (38)	06:37		19:01 (39)	07:39	07:47	08:49
	22:31			21:45	49	20:28 (38)	20:28	31	19:32 (39)	19:05	16:46	15:56
4	04:45			05:35		19:38 (38)	06:39		19:00 (39)	07:41	07:49	08:51
	22:30			21:42	49	20:27 (38)	20:25	34	19:34 (40)	19:02	16:44	15:55
5	04:46			05:37		19:38 (38)	06:41		18:59 (39)	07:43	07:51	08:53
	22:29			21:40	50	20:28 (38)	20:22	36	19:35 (40)	19:00	16:42	15:55
6	04:47			05:39		19:38 (38)	06:44		18:59 (39)	07:46	07:54	08:54
	22:29			21:38	50	20:28 (38)	20:19	36	19:35 (40)	18:57	16:40	15:54
7	04:48			05:41		19:38 (38)	06:46		18:58 (39)	07:48	07:56	08:56
	22:28			21:36	50	20:28 (38)	20:17	37	19:35 (40)	18:54	16:38	15:53
8	04:49			05:44		19:37 (38)	06:48		18:58 (39)	07:50	07:58	08:57
	22:27			21:34	51	20:28 (38)	20:14	38	19:36 (40)	18:52	16:36	15:52
9	04:50			05:46		19:37 (38)	06:50		18:58 (39)	07:52	08:00	08:59
	22:26			21:31	51	20:28 (38)	20:11	37	19:35 (40)	18:49	16:33	15:52
10	04:52			05:48		19:37 (38)	06:52		18:58 (39)	07:54	08:03	09:00
	22:25			21:29	51	20:28 (38)	20:08	37	19:35 (40)	18:46	16:31	15:52
11	04:53			05:50		19:38 (38)	06:54		18:58 (39)	07:56	08:05	09:01
	22:24			21:27	50	20:28 (38)	20:06	37	19:35 (40)	18:44	16:29	15:51
12	04:54		20:00 (38)	05:52		19:38 (38)	06:56		18:58 (39)	07:58	08:07	09:03
	22:23	6	20:06 (38)	21:24	49	20:27 (38)	20:03	34	19:32 (40)	18:41	16:27	15:51
13	04:56		19:57 (38)	05:54		19:37 (38)	06:58		18:58 (39)	08:01	08:09	09:04
	22:21	13	20:10 (38)	21:22	49	20:26 (38)	20:00	31	19:29 (40)	18:38	16:25	15:51
14	04:57		19:55 (38)	05:56		19:37 (38)	07:00		18:59 (39)	08:03	08:11	09:05
	22:20	17	20:12 (38)	21:19	48	20:25 (38)	19:57	28	19:27 (40)	18:36	16:24	15:50
15	04:59		19:53 (38)	05:58		19:37 (38)	07:02		19:00 (39)	08:05	08:14	09:06
	22:19	20	20:13 (38)	21:17	48	20:25 (38)	19:55	24	19:24 (39)	18:33	16:22	15:50
16	05:00		19:52 (38)	06:00		19:38 (38)	07:04		19:01 (39)	08:07	08:16	09:07
	22:17	23	20:15 (38)	21:14	46	20:24 (38)	19:52	20	19:21 (39)	18:30	16:20	15:50
17	05:02		19:51 (38)	06:02		19:38 (38)	07:06		19:03 (39)	08:09	08:18	09:08
	22:16	25	20:16 (38)	21:12	46	20:24 (38)	19:49	15	19:18 (39)	18:28	16:18	15:50
18	05:04		19:50 (38)	06:04		19:39 (38)	07:08		19:06 (39)	08:11	08:20	09:09
	22:15	28	20:18 (38)	21:09	44	20:23 (38)	19:46	10	19:16 (39)	18:25	16:16	15:51
19	05:05		19:48 (38)	06:06		19:40 (38)	07:10			08:14	08:22	09:10
	22:13	30	20:18 (38)	21:07	42	20:22 (38)	19:44			18:23	16:15	15:51
20	05:07		19:48 (38)	06:08		19:40 (38)	07:12			08:16	08:24	09:10
	22:11	32	20:20 (38)	21:04	41	20:21 (38)	19:41			18:20	16:13	15:51
21	05:09		19:46 (38)	06:10		19:41 (38)	07:14			08:18	08:26	09:11
	22:10	34	20:20 (38)	21:02	38	20:19 (38)	19:38			18:18	16:11	15:51
22	05:11		19:46 (38)	06:12		19:42 (38)	07:16			08:20	08:29	09:11
	22:08	36	20:22 (38)	20:59	36	20:18 (38)	19:35			18:15	16:10	15:52
23	05:12		19:45 (38)	06:15		19:44 (38)	07:18			08:22	08:31	09:12
	22:06	37	20:22 (38)	20:57	32	20:16 (38)	19:33			18:13	16:08	15:52
24	05:14		19:44 (38)	06:17		19:45 (38)	07:21			08:25	08:33	09:12
	22:05	39	20:23 (38)	20:54	29	20:14 (38)	19:30			18:10	16:07	15:53
25	05:16		19:44 (38)	06:19		19:47 (38)	07:23			07:27	08:35	09:13
	22:03	40	20:24 (38)	20:51	24	20:11 (38)	19:27			17:08	16:05	15:54
26	05:18		19:42 (38)	06:21		19:50 (38)	07:25			07:29	08:37	09:13
	22:01	42	20:24 (38)	20:49	18	20:08 (38)	19:24			17:05	16:04	15:54
27	05:20		19:42 (38)	06:23		19:16 (39)	07:27			07:31	08:39	09:13
	21:59	43	20:25 (38)	20:46	15	20:03 (38)	19:22			17:03	16:03	15:55
28	05:22		19:42 (38)	06:25		19:12 (39)	07:29			07:33	08:40	09:13
	21:57	44	20:26 (38)	20:44	15	19:27 (39)	19:19			17:00	16:01	15:56
29	05:24		19:41 (38)	06:27		19:09 (39)	07:31			07:36	08:42	09:13
	21:55	45	20:26 (38)	20:41	20	19:29 (39)	19:16			16:58	16:00	15:57
30	05:25		19:40 (38)	06:29		19:06 (39)	07:33			07:38	08:44	09:13
	21:53	46	20:26 (38)	20:38	23	19:29 (39)	19:13			16:56	15:59	15:58
31	05:27		19:40 (38)	06:31		19:04 (39)				07:40		09:13
	21:51	47	20:27 (38)	20:36	27	19:31 (39)				16:53		15:59
Potential sun hours	534			472			385			322	244	211
Total, worst case		647			1237			543				
Sun reduction		0.60			0.59			0.50				
Oper. time red.		0.94			0.94			0.94				
Wind dir. red.		0.60			0.60			0.64				
Total reduction		0.34			0.33			0.30				
Total, real		219			410			161				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DA - Kaleji C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53
8	09:10	08:21	07:12	06:47	05:31	04:42	04:49	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:13	15:51
21	08:55	07:51	06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:39	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:57
29	08:42		07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DB - Kalnaraji A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:41	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:41	04:52	05:48	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:17	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:53
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:04	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DC - Kalnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:14		10:34 (3)	08:36		09:13 (4)	07:30			07:06		08:09 (2)	05:48	04:49
	16:01	27	11:01 (3)	17:00	39	09:52 (41)	18:04			20:12	39	08:48 (42)	21:16	22:16
2	09:14		10:34 (3)	08:34		09:11 (4)	07:27			07:03		08:09 (2)	05:45	04:48
	16:03	27	11:01 (3)	17:03	41	09:52 (41)	18:07			20:14	36	08:45 (42)	21:19	22:17
3	09:13		10:35 (3)	08:32		09:10 (4)	07:25			07:01		08:10 (2)	05:43	04:47
	16:04	27	11:02 (3)	17:05	44	09:54 (41)	18:09			20:16	31	08:41 (42)	21:21	22:19
4	09:13		10:35 (3)	08:30		09:10 (4)	07:22			06:58		08:13 (2)	05:41	04:45
	16:05	27	11:02 (3)	17:07	45	09:55 (41)	18:11			20:18	15	08:28 (2)	21:23	22:20
5	09:12		10:35 (3)	08:28		09:08 (4)	07:20			06:55		08:16 (2)	05:38	04:44
	16:07	27	11:02 (3)	17:09	48	09:56 (41)	18:13			20:21	8	08:24 (2)	21:25	22:21
6	09:12		10:36 (3)	08:26		09:08 (4)	07:17			06:52			05:36	04:44
	16:08	26	11:02 (3)	17:12	49	09:57 (41)	18:16			20:23			21:27	22:23
7	09:11		10:36 (3)	08:23		09:08 (4)	07:14			06:50		07:16 (43)	05:34	04:43
	16:10	26	11:02 (3)	17:14	50	09:58 (41)	18:18			20:25	12	07:28 (43)	21:29	22:24
8	09:10		10:37 (3)	08:21		09:07 (4)	07:12			06:47		07:14 (43)	05:32	04:42
	16:11	26	11:03 (3)	17:16	51	09:58 (41)	18:20			20:27	17	07:31 (43)	21:31	22:25
9	09:10		10:38 (3)	08:19		09:07 (4)	07:09			06:44		07:12 (43)	05:29	04:41
	16:13	25	11:03 (3)	17:19	52	09:59 (41)	18:22			20:29	20	07:32 (43)	21:33	22:26
10	09:09		10:39 (3)	08:17		09:07 (4)	07:06			06:42		07:11 (43)	05:27	04:40
	16:15	24	11:03 (3)	17:21	52	09:59 (41)	18:24			20:31	22	07:33 (43)	21:36	22:27
11	09:08		10:40 (3)	08:15		09:07 (4)	07:03			06:39		07:09 (43)	05:25	04:40
	16:16	23	11:03 (3)	17:23	52	09:59 (41)	18:27			20:33	24	07:33 (43)	21:38	22:28
12	09:07		10:41 (3)	08:12		09:07 (4)	07:01		07:40 (42)	06:36		07:08 (43)	05:23	04:39
	16:18	23	11:04 (3)	17:26	52	09:59 (41)	18:29	4	07:44 (42)	20:36	25	07:33 (43)	21:40	22:29
13	09:06		10:41 (3)	08:10		09:08 (4)	06:58		07:34 (42)	06:34		07:08 (43)	05:21	04:39
	16:20	22	11:03 (3)	17:28	51	09:59 (41)	18:31	15	07:49 (42)	20:38	26	07:34 (43)	21:42	22:30
14	09:05		10:42 (3)	08:08		09:08 (4)	06:55		07:31 (42)	06:31		07:07 (43)	05:19	04:38
	16:22	21	11:03 (3)	17:30	51	09:59 (41)	18:33	21	07:52 (42)	20:40	27	07:34 (43)	21:44	22:30
15	09:04		10:43 (3)	08:05		09:09 (4)	06:53		07:28 (42)	06:28		07:07 (43)	05:17	04:38
	16:24	19	11:02 (3)	17:33	50	09:59 (41)	18:35	25	07:53 (42)	20:42	27	07:34 (43)	21:46	22:31
16	09:02		10:45 (3)	08:03		09:09 (4)	06:50		07:27 (42)	06:26		07:07 (43)	05:15	04:38
	16:26	17	11:02 (3)	17:35	50	09:59 (41)	18:38	28	07:55 (42)	20:44	26	07:33 (43)	21:48	22:32
17	09:01		10:46 (3)	08:00		09:10 (4)	06:47		07:19 (2)	06:23		07:07 (43)	05:13	04:38
	16:28	15	11:01 (3)	17:37	49	09:59 (41)	18:40	37	07:56 (42)	20:46	26	07:33 (43)	21:50	22:32
18	09:00		10:48 (3)	07:58		09:11 (4)	06:44		07:16 (2)	06:20		07:07 (43)	05:11	04:38
	16:30	11	10:59 (3)	17:40	47	09:58 (41)	18:42	40	07:56 (42)	20:49	25	07:32 (43)	21:52	22:33
19	08:58		10:51 (3)	07:55		09:13 (4)	06:42		07:14 (2)	06:18		07:07 (43)	05:09	04:37
	16:32	7	10:58 (3)	17:42	44	09:57 (41)	18:44	42	07:56 (42)	20:51	25	07:32 (43)	21:54	22:33
20	08:57			07:53		09:15 (4)	06:39		07:13 (2)	06:15		07:07 (43)	05:07	04:37
	16:34			17:44	41	09:56 (41)	18:46	44	07:57 (42)	20:53	23	07:30 (43)	21:55	22:34
21	08:55			07:51		09:23 (41)	06:36		07:11 (2)	06:13		07:09 (43)	05:05	04:38
	16:36			17:46	32	09:55 (41)	18:48	46	07:57 (42)	20:55	21	07:30 (43)	21:57	22:34
22	08:54			07:48		09:24 (41)	06:33		07:10 (2)	06:10		07:09 (43)	05:04	04:38
	16:38			17:49	30	09:54 (41)	18:51	47	07:57 (42)	20:57	18	07:27 (43)	21:59	22:34
23	08:52			07:45		09:25 (41)	06:31		07:09 (2)	06:07		07:11 (43)	05:02	04:38
	16:40			17:51	27	09:52 (41)	18:53	47	07:56 (42)	20:59	15	07:26 (43)	22:01	22:34
24	08:51			07:43		09:27 (41)	06:28		07:09 (2)	06:05		07:13 (43)	05:00	04:38
	16:42			17:53	22	09:49 (41)	18:55	48	07:57 (42)	21:01	9	07:22 (43)	22:03	22:34
25	08:49			07:40		09:30 (41)	06:25		07:08 (2)	06:02			04:59	04:39
	16:45			17:55	17	09:47 (41)	18:57	48	07:56 (42)	21:04			22:05	22:34
26	08:47			07:38		09:34 (41)	06:22		07:07 (2)	06:00			04:57	04:39
	16:47			17:58	8	09:42 (41)	18:59	48	07:55 (42)	21:06			22:06	22:34
27	08:45			07:35			06:20		07:07 (2)	05:57			04:56	04:40
	16:49			18:00			19:01	47	07:54 (42)	21:08			22:08	22:34
28	08:44		09:35 (41)	07:33			06:17		07:07 (2)	05:55			04:54	04:40
	16:51	5	09:40 (41)	18:02			19:03	47	07:54 (42)	21:10			22:10	22:34
29	08:42		09:31 (41)				07:14		08:07 (2)	05:53			04:53	04:41
	16:53	14	09:45 (41)				20:06	45	08:52 (42)	21:12			22:11	22:34
30	08:40		09:28 (41)				07:11		08:07 (2)	05:50			04:51	04:42
	16:56	20	09:48 (41)				20:08	44	08:51 (42)	21:14			22:13	22:33
31	08:38		09:15 (4)				07:09		08:07 (2)				04:50	
	16:58	34	09:50 (41)				20:10	42	08:49 (42)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		493			1094			765			517			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.61			0.57			0.61			0.64			
Total reduction		0.16			0.18			0.26			0.33			
Total, real		77			196			201			169			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DC - Kalnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August			September			October			November			December		
1	04:42	05:30			06:34		07:08 (43)	07:36		08:16 (42)	07:43		08:36 (4)	08:47		10:22 (3)
	22:33	21:50			20:34	24	07:32 (43)	19:11	10	08:26 (42)	16:52	52	09:28 (41)	15:59	23	10:45 (3)
2	04:43	05:32			06:36		07:09 (43)	07:38			07:45		08:37 (4)	08:49		10:22 (3)
	22:32	21:48			20:31	22	07:31 (43)	19:09			16:49	51	09:28 (41)	15:58	24	10:46 (3)
3	04:44	05:34			06:38		07:10 (43)	07:40			07:48		08:37 (4)	08:50		10:22 (3)
	22:32	21:45			20:28	20	07:30 (43)	19:06			16:47	50	09:27 (41)	15:57	25	10:47 (3)
4	04:45	05:36			06:40		07:11 (43)	07:42			07:50		08:38 (4)	08:52		10:22 (3)
	22:31	21:43			20:26	17	07:28 (43)	19:03			16:45	49	09:27 (41)	15:56	26	10:48 (3)
5	04:46	05:38			06:42		07:13 (43)	07:44			07:52		08:38 (4)	08:54		10:22 (3)
	22:30	21:41			20:23	12	07:25 (43)	19:00			16:43	48	09:26 (41)	15:55	25	10:47 (3)
6	04:47	05:40			06:44		07:18 (43)	07:46			07:54		08:39 (4)	08:55		10:22 (3)
	22:30	21:39			20:20	1	07:19 (43)	18:58			16:40	47	09:26 (41)	15:54	26	10:48 (3)
7	04:48	05:42			06:46		08:11 (2)	07:48			07:57		08:40 (4)	08:57		10:23 (3)
	22:29	21:37			20:17	8	08:19 (2)	18:55			16:38	45	09:25 (41)	15:54	26	10:49 (3)
8	04:50	05:44			06:48		08:07 (2)	07:51			07:59		08:41 (4)	08:58		10:23 (3)
	22:28	21:34			20:15	15	08:22 (2)	18:52			16:36	44	09:25 (41)	15:53	27	10:50 (3)
9	04:51	05:46			06:50		08:05 (2)	07:53			08:01		08:42 (4)	09:00		10:23 (3)
	22:27	21:32			20:12	30	08:35 (42)	18:50			16:34	41	09:23 (41)	15:53	27	10:50 (3)
10	04:52	05:48			06:52		08:03 (2)	07:55			08:03		08:44 (4)	09:01		10:24 (3)
	22:26	21:30			20:09	35	08:38 (42)	18:47			16:32	38	09:22 (41)	15:52	27	10:51 (3)
11	04:54	05:50			06:54		08:01 (2)	07:57			08:06		08:46 (4)	09:02		10:24 (3)
	22:25	21:27			20:06	39	08:40 (42)	18:44			16:30	34	09:21 (41)	15:52	27	10:51 (3)
12	04:55	05:52			06:57		08:00 (2)	07:59			08:08		09:00 (41)	09:03		10:24 (3)
	22:23	21:25			20:04	41	08:41 (42)	18:42			16:28	19	09:19 (41)	15:51	27	10:51 (3)
13	04:56	05:54			06:59		07:59 (2)	08:01			08:10		09:03 (41)	09:05		10:25 (3)
	22:22	21:22			20:01	43	08:42 (42)	18:39			16:26	13	09:16 (41)	15:51	27	10:52 (3)
14	04:58	05:56			07:01		07:58 (2)	08:03			08:12		09:08 (41)	09:06		10:25 (3)
	22:21	21:20			19:58	45	08:43 (42)	18:36			16:24	4	09:12 (41)	15:51	28	10:53 (3)
15	04:59	05:59			07:03		07:57 (2)	08:06			08:14			09:07		10:25 (3)
	22:20	21:18			19:55	46	08:43 (42)	18:34			16:22			15:51	28	10:53 (3)
16	05:01	06:01			07:05		07:56 (2)	08:08		10:04 (41)	08:17			09:08		10:26 (3)
	22:18	21:15			19:53	47	08:43 (42)	18:31	12	10:16 (41)	16:20			15:51	27	10:53 (3)
17	05:03	06:03			07:07		07:56 (2)	08:10		10:00 (41)	08:19			09:09		10:26 (3)
	22:17	21:13			19:50	48	08:44 (42)	18:29	19	10:19 (41)	16:19			15:51	28	10:54 (3)
18	05:04	06:05			07:09		07:55 (2)	08:12		09:58 (41)	08:21			09:10		10:27 (3)
	22:15	21:10			19:47	49	08:44 (42)	18:26	24	10:22 (41)	16:17			15:51	27	10:54 (3)
19	05:06	06:07		07:19 (43)	07:11		07:55 (2)	08:14		09:56 (41)	08:23			09:10		10:28 (3)
	22:14	21:08	11	07:30 (43)	19:44	48	08:43 (42)	18:23	28	10:24 (41)	16:15			15:51	27	10:55 (3)
20	05:08	06:09		07:16 (43)	07:13		07:55 (2)	08:16		09:54 (41)	08:25			09:11		10:27 (3)
	22:12	21:05	16	07:32 (43)	19:42	48	08:43 (42)	18:21	30	10:24 (41)	16:14			15:52	28	10:55 (3)
21	05:09	06:11		07:15 (43)	07:15		07:55 (2)	08:19		09:49 (4)	08:27			09:12		10:28 (3)
	22:11	21:03	18	07:33 (43)	19:39	48	08:43 (42)	18:18	37	10:26 (41)	16:12			15:52	28	10:56 (3)
22	05:11	06:13		07:12 (43)	07:17		07:56 (2)	08:21		09:45 (4)	08:29			09:12		10:28 (3)
	22:09	21:00	21	07:33 (43)	19:36	46	08:42 (42)	18:16	42	10:27 (41)	16:10			15:52	28	10:56 (3)
23	05:13	06:15		07:11 (43)	07:19		07:56 (2)	08:23		09:42 (4)	08:31		10:27 (3)	09:13		10:29 (3)
	22:07	20:57	23	07:34 (43)	19:33	45	08:41 (42)	18:13	45	10:27 (41)	16:09	7	10:34 (3)	15:53	28	10:57 (3)
24	05:15	06:17		07:10 (43)	07:21		07:57 (2)	08:25		09:41 (4)	08:33		10:26 (3)	09:13		10:30 (3)
	22:05	20:55	25	07:35 (43)	19:31	43	08:40 (42)	18:11	47	10:28 (41)	16:07	11	10:37 (3)	15:54	27	10:57 (3)
25	05:17	06:19		07:09 (43)	07:23		07:58 (2)	07:27		08:39 (4)	08:35		10:24 (3)	09:14		10:30 (3)
	22:03	20:52	26	07:35 (43)	19:28	41	08:39 (42)	17:08	49	09:28 (41)	16:06	15	10:39 (3)	15:54	27	10:57 (3)
26	05:18	06:21		07:09 (43)	07:25		08:00 (2)	07:30		08:39 (4)	08:37		10:23 (3)	09:14		10:30 (3)
	22:02	20:50	26	07:35 (43)	19:25	38	08:38 (42)	17:06	50	09:29 (41)	16:05	17	10:40 (3)	15:55	28	10:58 (3)
27	05:20	06:23		07:08 (43)	07:27		08:04 (2)	07:32		08:38 (4)	08:39		10:22 (3)	09:14		10:31 (3)
	22:00	20:47	27	07:35 (43)	19:22	32	08:36 (42)	17:03	51	09:29 (41)	16:03	19	10:41 (3)	15:56	27	10:58 (3)
28	05:22	06:26		07:08 (43)	07:30		08:09 (42)	07:34		08:37 (4)	08:41		10:23 (3)	09:14		10:31 (3)
	21:58	20:44	27	07:35 (43)	19:20	25	08:34 (42)	17:01	51	09:28 (41)	16:02	20	10:43 (3)	15:57	28	10:59 (3)
29	05:24	06:28		07:08 (43)	07:32		08:11 (42)	07:36		08:37 (4)	08:43		10:22 (3)	09:14		10:32 (3)
	21:56	20:42	27	07:35 (43)	19:17	22	08:33 (42)	16:59	52	09:29 (41)	16:01	22	10:44 (3)	15:58	27	10:59 (3)
30	05:26	06:30		07:08 (43)	07:34		08:13 (42)	07:39		08:36 (4)	08:45		10:22 (3)	09:14		10:33 (3)
	21:54	20:39	26	07:34 (43)	19:14	18	08:31 (42)	16:56	52	09:28 (41)	16:00	23	10:45 (3)	15:59	27	11:00 (3)
31	05:28	06:32		07:08 (43)				07:41		08:37 (4)				09:14		10:33 (3)
	21:52	20:36	25	07:33 (43)				16:54	52	09:29 (41)				16:00	28	11:01 (3)
Potential sun hours	534	472			385			322			244			211		
Total, worst case			298			996			651			669			833	
Sun reduction			0.59			0.50			0.42			0.23			0.23	
Oper. time red.			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.			0.64			0.62			0.57			0.58			0.61	
Total reduction			0.35			0.29			0.23			0.13			0.13	
Total, real			106			286			148			84			108	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DD - Kalnrozes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47		
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58		
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48		
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57		
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50		
	16:03	17:04	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:56		
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55		
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55		
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54		
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53		
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58		
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53		
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52		
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52		
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51		
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03		
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51		
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51		
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06		
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51		
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50		
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08		
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50		
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09		13:38 (9)
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51	4	13:42 (9)
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09		13:38 (9)
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51	5	13:43 (9)
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10		13:37 (9)
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51	7	13:44 (9)
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		13:38 (9)
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:13	15:51	7	13:45 (9)
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12		13:39 (9)
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	7	13:46 (9)
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12		13:39 (9)
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52	7	13:46 (9)
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13		13:40 (9)
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53	7	13:47 (9)
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		13:40 (9)
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53	7	13:47 (9)
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		13:41 (9)
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54	5	13:46 (9)
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14		13:42 (9)
	16:46	17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55	4	13:46 (9)
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		13:43 (9)
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55	2	13:45 (9)
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56		
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14		
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57		
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58		
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14		
	16:58		20:10		22:14		21:52	20:36		16:54		15:59		
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211		
Total, worst case													62	
Sun reduction													0.23	
Oper. time red.													0.94	
Wind dir. red.													0.66	
Total reduction													0.14	
Total, real													9	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DE - Kapsetnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June	
1	09:14			08:36		09:18 (3)	07:30			07:06		08:12 (41)	05:48		06:19 (43)	04:49	
	16:01			17:00	27	10:00 (15)	18:05			20:12	28	08:40 (41)	21:17	20	06:39 (43)	22:16	
2	09:14			08:34		09:17 (3)	07:27			07:03		08:12 (41)	05:45		06:19 (43)	04:48	
	16:03			17:03	25	09:42 (3)	18:07			20:14	26	08:38 (41)	21:19	20	06:39 (43)	22:17	
3	09:13			08:32		09:16 (3)	07:25			07:01		08:13 (41)	05:43		06:19 (43)	04:47	
	16:04			17:05	27	09:43 (3)	18:09			20:16	23	08:36 (41)	21:21	20	06:39 (43)	22:19	
4	09:13			08:30		09:16 (3)	07:22		07:52 (4)	06:58		08:15 (41)	05:41		06:19 (43)	04:46	
	16:05			17:07	28	09:44 (3)	18:11	8	08:00 (4)	20:18	19	08:34 (41)	21:23	20	06:39 (43)	22:20	
5	09:12			08:28		09:16 (3)	07:20		07:48 (4)	06:55		08:17 (41)	05:38		06:20 (43)	04:45	
	16:07			17:09	28	09:44 (3)	18:13	15	08:03 (4)	20:21	14	08:31 (41)	21:25	18	06:38 (43)	22:21	
6	09:12			08:26		09:16 (3)	07:17		07:46 (4)	06:52			05:36		06:19 (43)	04:44	
	16:08			17:12	29	09:45 (3)	18:16	18	08:04 (4)	20:23			21:27	18	06:37 (43)	22:23	
7	09:11		09:50 (15)	08:23		09:16 (3)	07:14		07:45 (4)	06:50			05:34		06:20 (43)	04:43	
	16:10	3	09:53 (15)	17:14	29	09:45 (3)	18:18	21	08:06 (4)	20:25			21:29	16	06:36 (43)	22:24	
8	09:10		09:49 (15)	08:21		09:16 (3)	07:12		07:44 (4)	06:47			05:32		06:21 (43)	04:42	
	16:11	6	09:55 (15)	17:16	29	09:45 (3)	18:20	23	08:07 (4)	20:27			21:31	14	06:35 (43)	22:25	
9	09:10		09:48 (15)	08:19		09:16 (3)	07:09		07:42 (4)	06:44			05:29		06:23 (43)	04:41	
	16:13	9	09:57 (15)	17:19	29	09:45 (3)	18:22	25	08:07 (4)	20:29			21:33	10	06:33 (43)	22:26	
10	09:09		09:47 (15)	08:17		09:16 (3)	07:06		07:41 (4)	06:42		07:08 (2)	05:27		06:25 (43)	04:40	
	16:15	11	09:58 (15)	17:21	28	09:44 (3)	18:25	26	08:07 (4)	20:31	11	07:19 (2)	21:36	5	06:30 (43)	22:27	
11	09:08		09:46 (15)	08:15		09:17 (3)	07:03		07:41 (4)	06:39		07:05 (2)	05:25			04:40	
	16:16	14	10:00 (15)	17:23	27	09:44 (3)	18:27	26	08:07 (4)	20:33	15	07:20 (2)	21:38			22:28	
12	09:07		09:45 (15)	08:12		09:17 (3)	07:01		07:41 (4)	06:36		07:03 (42)	05:23			04:39	
	16:18	16	10:01 (15)	17:26	26	09:43 (3)	18:29	26	08:07 (4)	20:36	18	07:21 (2)	21:40			22:29	
13	09:06		09:44 (15)	08:10		09:18 (3)	06:58		07:41 (4)	06:34		07:01 (42)	05:21			04:39	
	16:20	17	10:01 (15)	17:28	25	09:43 (3)	18:31	26	08:07 (4)	20:38	22	07:23 (2)	21:42			22:30	
14	09:05		09:44 (15)	08:08		09:19 (3)	06:55		07:40 (4)	06:31		06:59 (42)	05:19			04:38	
	16:22	19	10:03 (15)	17:30	22	09:41 (3)	18:33	26	08:06 (4)	20:40	24	07:23 (2)	21:44			22:30	
15	09:04		09:43 (15)	08:05		09:21 (3)	06:53		07:40 (4)	06:28		06:58 (42)	05:17			04:38	
	16:24	20	10:03 (15)	17:33	20	09:41 (3)	18:35	25	08:05 (4)	20:42	26	07:24 (2)	21:46			22:31	
16	09:02		09:44 (15)	08:03		09:22 (3)	06:50		07:25 (41)	06:26		06:57 (42)	05:15			04:38	
	16:26	20	10:04 (15)	17:35	16	09:38 (3)	18:38	35	08:05 (4)	20:44	26	07:23 (2)	21:48			22:32	
17	09:01		09:43 (15)	08:00		09:25 (3)	06:47		07:21 (41)	06:23		06:56 (42)	05:13			04:38	
	16:28	22	10:05 (15)	17:37	11	09:36 (3)	18:40	40	08:03 (4)	20:46	28	07:24 (2)	21:50			22:32	
18	09:00		09:43 (15)	07:58			06:44		07:19 (41)	06:20		06:55 (42)	05:11			04:38	
	16:30	22	10:05 (15)	17:40			18:42	40	08:01 (4)	20:49	28	07:23 (2)	21:52			22:33	
19	08:58		09:44 (15)	07:55			06:42		07:16 (41)	06:18		06:55 (42)	05:09			04:38	
	16:32	22	10:06 (15)	17:42			18:44	41	07:59 (4)	20:51	28	07:23 (2)	21:54			22:33	
20	08:57		09:44 (15)	07:53			06:39		07:16 (41)	06:15		06:54 (42)	05:07			04:38	
	16:34	23	10:07 (15)	17:44			18:46	36	07:56 (4)	20:53	28	07:22 (2)	21:55			22:34	
21	08:55		09:44 (15)	07:51			06:36		07:14 (41)	06:13		06:55 (42)	05:05			04:38	
	16:36	23	10:07 (15)	17:46			18:48	30	07:44 (41)	20:55	27	07:22 (2)	21:57			22:34	
22	08:54		09:44 (15)	07:48			06:33		07:13 (41)	06:10		06:54 (42)	05:04			04:38	
	16:38	23	10:07 (15)	17:49			18:51	31	07:44 (41)	20:57	26	07:20 (42)	21:59			22:34	
23	08:52		09:44 (15)	07:45			06:31		07:12 (41)	06:08		06:55 (42)	05:02			04:38	
	16:40	23	10:07 (15)	17:51			18:53	32	07:44 (41)	20:59	25	07:20 (42)	22:01			22:34	
24	08:51		09:45 (15)	07:43			06:28		07:12 (41)	06:05		06:54 (42)	05:00			04:38	
	16:42	22	10:07 (15)	17:53			18:55	33	07:45 (41)	21:01	25	07:19 (42)	22:03			22:34	
25	08:49		09:45 (15)	07:40			06:25		07:11 (41)	06:02		06:30 (43)	04:59			04:39	
	16:45	22	10:07 (15)	17:56			18:57	34	07:45 (41)	21:04	28	07:18 (42)	22:05			22:34	
26	08:47		09:46 (15)	07:38			06:22		07:10 (41)	06:00		06:28 (43)	04:57			04:39	
	16:47	21	10:07 (15)	17:58			18:59	34	07:44 (41)	21:06	30	07:17 (42)	22:06			22:34	
27	08:45		09:23 (3)	07:35			06:20		07:10 (41)	05:58		06:25 (43)	04:56			04:40	
	16:49	30	10:07 (15)	18:00			19:01	34	07:44 (41)	21:08	31	07:15 (42)	22:08			22:34	
28	08:44		09:21 (3)	07:33			06:17		07:11 (41)	05:55		06:23 (43)	04:54			04:40	
	16:51	33	10:06 (15)	18:02			19:03	33	07:44 (41)	21:10	31	07:14 (42)	22:10			22:34	
29	08:42		09:20 (3)				07:14		08:10 (41)	05:53		06:21 (43)	04:53			04:41	
	16:53	35	10:06 (15)				20:06	33	08:43 (41)	21:12	30	07:12 (42)	22:11			22:34	
30	08:40		09:19 (3)				07:12		08:10 (41)	05:50		06:19 (43)	04:51			04:42	
	16:56	35	10:05 (15)				20:08	32	08:42 (41)	21:14	23	07:07 (42)	22:13			22:33	
31	08:38		09:18 (3)				07:09		08:10 (41)				04:50				
	16:58	33	10:03 (15)				20:10	30	08:40 (41)				22:14				
Potential sun hours	231			264			366			428			512			534	
Total, worst case		524			426			813			640			161			
Sun reduction		0.28			0.33			0.46			0.55			0.61			
Oper. time red.		0.94			0.94			0.94			0.94			0.94			
Wind dir. red.		0.58			0.57			0.61			0.64			0.66			
Total reduction		0.15			0.18			0.26			0.33			0.38			
Total, real		79			76			212			210			61			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DE - Kapsetnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August			September			October			November			December		
1	04:43		05:30			06:34		07:04 (2)	07:36		08:20 (4)	07:43		08:46 (3)	08:47		09:28 (15)
	22:33		21:50			20:34	15	07:19 (2)	19:11	26	08:46 (4)	16:52	28	09:14 (3)	15:59	14	09:42 (15)
2	04:43		05:32			06:36		07:06 (2)	07:38		08:20 (4)	07:45		08:46 (3)	08:49		09:30 (15)
	22:32		21:48			20:31	11	07:17 (2)	19:09	26	08:46 (4)	16:49	29	09:15 (3)	15:58	11	09:41 (15)
3	04:44		05:34		06:34 (43)	06:38			07:40		08:19 (4)	07:48		08:45 (3)	08:50		09:32 (15)
	22:32		21:45	8	06:42 (43)	20:28			19:06	26	08:45 (4)	16:47	29	09:14 (3)	15:57	9	09:41 (15)
4	04:45		05:36		06:32 (43)	06:40			07:42		08:19 (4)	07:50		08:46 (3)	08:52		09:34 (15)
	22:31		21:43	12	06:44 (43)	20:26			19:03	25	08:44 (4)	16:45	29	09:15 (3)	15:56	6	09:40 (15)
5	04:46		05:38		06:31 (43)	06:42			07:44		08:19 (4)	07:52		08:46 (3)	08:54		09:35 (15)
	22:30		21:41	14	06:45 (43)	20:23			19:00	24	08:43 (4)	16:43	28	09:14 (3)	15:55	3	09:38 (15)
6	04:47		05:40		06:30 (43)	06:44			07:46		08:21 (4)	07:54		08:46 (3)	08:55		
	22:30		21:39	16	06:46 (43)	20:20			18:58	22	08:43 (4)	16:40	29	09:15 (3)	15:54		
7	04:49		05:42		06:29 (43)	06:46		08:13 (41)	07:48		08:21 (4)	07:57		08:46 (3)	08:57		
	22:29		21:37	18	06:47 (43)	20:17	13	08:26 (41)	18:55	20	08:41 (4)	16:38	28	09:14 (3)	15:54		
8	04:50		05:44		06:29 (43)	06:48		08:10 (41)	07:51		08:23 (4)	07:59		08:47 (3)	08:58		
	22:28		21:34	19	06:48 (43)	20:15	18	08:28 (41)	18:52	16	08:39 (4)	16:36	27	09:14 (3)	15:53		
9	04:51		05:46		06:28 (43)	06:50		08:07 (41)	07:53		08:24 (4)	08:01		08:47 (3)	09:00		
	22:27		21:32	20	06:48 (43)	20:12	23	08:30 (41)	18:50	12	08:36 (4)	16:34	26	09:13 (3)	15:53		
10	04:52		05:48		06:27 (43)	06:52		08:06 (41)	07:55			08:03		08:49 (3)	09:01		
	22:26		21:30	20	06:47 (43)	20:09	25	08:31 (41)	18:47			16:32	28	09:31 (15)	15:52		
11	04:54		05:50		06:27 (43)	06:54		08:04 (41)	07:57			08:06		08:49 (3)	09:02		
	22:25		21:27	20	06:47 (43)	20:06	28	08:32 (41)	18:44			16:30	34	09:34 (15)	15:52		
12	04:55		05:52		06:27 (43)	06:57		08:03 (41)	07:59			08:08		08:51 (3)	09:03		
	22:23		21:25	20	06:47 (43)	20:04	30	08:33 (41)	18:42			16:28	35	09:37 (15)	15:51		
13	04:56		05:54		06:27 (43)	06:59		08:02 (41)	08:01			08:10		08:52 (3)	09:05		
	22:22		21:22	27	07:17 (42)	20:01	31	08:33 (41)	18:39			16:26	35	09:38 (15)	15:51		
14	04:58		05:57		06:29 (43)	07:01		08:01 (41)	08:03			08:12		08:54 (3)	09:06		
	22:21		21:20	30	07:20 (42)	19:58	32	08:33 (41)	18:36			16:24	34	09:39 (15)	15:51		
15	04:59		05:59		06:31 (43)	07:03		08:00 (41)	08:06			08:14		08:56 (3)	09:07		
	22:20		21:18	32	07:22 (42)	19:55	33	08:33 (41)	18:34			16:22	31	09:40 (15)	15:51		
16	05:01		06:01		06:33 (43)	07:05		07:59 (41)	08:08			08:17		09:20 (15)	09:08		
	22:18		21:15	31	07:23 (42)	19:53	34	08:33 (41)	18:31			16:20	21	09:41 (15)	15:51		
17	05:03		06:03		06:35 (43)	07:07		07:59 (41)	08:10			08:19		09:19 (15)	09:09		
	22:17		21:13	29	07:24 (42)	19:50	34	08:33 (41)	18:29			16:19	22	09:41 (15)	15:51		
18	05:04		06:05		06:37 (43)	07:09		07:59 (41)	08:12			08:21		09:19 (15)	09:10		
	22:15		21:10	27	07:25 (42)	19:47	33	08:32 (41)	18:26			16:17	22	09:41 (15)	15:51		
19	05:06		06:07		07:01 (42)	07:11		07:58 (41)	08:14			08:23		09:19 (15)	09:10		
	22:14		21:08	24	07:25 (42)	19:44	34	08:32 (41)	18:23			16:15	23	09:42 (15)	15:51		
20	05:08		06:09		07:00 (42)	07:13		07:58 (41)	08:16			08:25		09:19 (15)	09:11		
	22:12		21:05	26	07:26 (42)	19:42	33	08:31 (41)	18:21			16:14	23	09:42 (15)	15:52		
21	05:09		06:11		07:00 (42)	07:15		07:58 (41)	08:19			08:27		09:20 (15)	09:12		
	22:11		21:03	26	07:26 (42)	19:39	32	08:30 (41)	18:18			16:12	23	09:43 (15)	15:52		
22	05:11		06:13		06:59 (42)	07:17		07:59 (41)	08:21			08:29		09:20 (15)	09:12		
	22:09		21:00	27	07:26 (42)	19:36	30	08:29 (41)	18:16			16:10	23	09:43 (15)	15:53		
23	05:13		06:15		06:58 (42)	07:19		07:59 (41)	08:23			08:31		09:20 (15)	09:13		
	22:07		20:57	28	07:26 (2)	19:33	32	08:37 (4)	18:13			16:09	22	09:42 (15)	15:53		
24	05:15		06:17		06:58 (42)	07:21		08:00 (41)	08:25		09:59 (3)	08:33		09:21 (15)	09:13		
	22:05		20:55	28	07:26 (2)	19:31	39	08:42 (4)	18:11	3	10:02 (3)	16:07	22	09:43 (15)	15:54		
25	05:17		06:19		06:58 (42)	07:23		08:01 (41)	07:27		08:54 (3)	08:35		09:21 (15)	09:14		
	22:03		20:52	28	07:26 (2)	19:28	40	08:43 (4)	17:08	12	09:06 (3)	16:06	22	09:43 (15)	15:54		
26	05:18		06:21		06:58 (42)	07:25		08:02 (41)	07:30		08:52 (3)	08:37		09:22 (15)	09:14		
	22:02		20:50	27	07:25 (2)	19:25	41	08:45 (4)	17:06	17	09:09 (3)	16:05	21	09:43 (15)	15:55		
27	05:20		06:24		06:58 (42)	07:27		08:04 (41)	07:32		08:50 (3)	08:39		09:22 (15)	09:14		
	22:00		20:47	27	07:25 (2)	19:22	37	08:45 (4)	17:03	20	09:10 (3)	16:03	20	09:42 (15)	15:56		
28	05:22		06:26		06:59 (42)	07:30		08:09 (41)	07:34		08:48 (3)	08:41		09:24 (15)	09:14		
	21:58		20:44	25	07:24 (2)	19:20	30	08:46 (4)	17:01	23	09:11 (3)	16:02	19	09:43 (15)	15:57		
29	05:24		06:28		07:00 (42)	07:32		08:21 (4)	07:36		08:48 (3)	08:43		09:25 (15)	09:14		
	21:56		20:42	24	07:24 (2)	19:17	26	08:47 (4)	16:59	25	09:13 (3)	16:01	18	09:43 (15)	15:58		
30	05:26		06:30		07:01 (42)	07:34		08:21 (4)	07:39		08:46 (3)	08:45		09:26 (15)	09:14		
	21:54		20:39	21	07:22 (2)	19:14	26	08:47 (4)	16:56	27	09:13 (3)	16:00	16	09:42 (15)	15:59		
31	05:28		06:32		07:03 (42)				07:41		08:46 (3)				09:14		
	21:52		20:36	18	07:21 (2)				16:54	28	09:14 (3)				16:00		
Potential sun hours	534		472			385			322			244			211		
Total, worst case				672			760			352			767			43	
Sun reduction				0.59			0.50			0.42			0.23			0.23	
Oper. time red.				0.94			0.94			0.94			0.94			0.94	
Wind dir. red.				0.65			0.61			0.58			0.58			0.58	
Total reduction				0.36			0.29			0.23			0.12			0.12	
Total, real				240			217			82			96			5	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DF - Kliedini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June
1	09:13	08:36		07:30		08:13 (30)	05:48	04:49
	16:02	17:01		18:05	29	09:10 (29)	21:16	22:16
2	09:13	08:34		07:27		08:13 (30)	05:46	04:48
	16:03	17:03		18:07	21	08:34 (30)	21:18	22:17
3	09:13	08:32		07:25		08:13 (30)	05:43	04:47
	16:04	17:05		18:09	19	08:32 (30)	21:21	22:18
4	09:12	08:30		07:22		08:15 (30)	05:41	04:46
	16:06	17:07		18:11	16	08:31 (30)	21:23	22:20
5	09:12	08:28		07:20		08:17 (30)	05:39	04:45
	16:07	17:10		18:14	12	08:29 (30)	21:25	22:21
6	09:11	08:25		07:17		08:21 (30)	05:36	04:44
	16:09	17:12		18:16	3	08:24 (30)	21:27	22:22
7	09:11	08:23	09:02 (29)	07:14			05:34	04:43
	16:10	17:14	11 09:13 (29)	18:18			21:29	22:23
8	09:10	08:21	09:00 (29)	07:12			05:32	04:42
	16:12	17:17	17 09:17 (29)	18:20			21:31	22:25
9	09:09	08:19	08:58 (29)	07:09		07:42 (28)	05:30	04:42
	16:13	17:19	21 09:19 (29)	18:22	4	07:46 (28)	21:33	22:26
10	09:08	08:17	08:56 (29)	07:06		07:37 (28)	05:27	04:41
	16:15	17:21	24 09:20 (29)	18:25	14	07:51 (28)	21:35	22:27
11	09:08	08:14	08:56 (29)	07:03		07:34 (28)	05:25	04:40
	16:17	17:24	26 09:22 (29)	18:27	18	07:52 (28)	21:37	22:28
12	09:07	08:12	08:54 (29)	07:01		07:33 (28)	05:23	04:40
	16:19	17:26	28 09:22 (29)	18:29	22	07:55 (28)	21:39	22:29
13	09:06	08:10	08:54 (29)	06:58		07:31 (28)	05:21	04:39
	16:20	17:28	29 09:23 (29)	18:31	24	07:55 (28)	21:41	22:29
14	09:04	08:07	08:53 (29)	06:55		07:29 (28)	05:19	04:39
	16:22	17:31	31 09:24 (29)	18:33	27	07:56 (28)	21:43	22:30
15	09:03	08:05	08:53 (29)	06:53		07:28 (28)	05:17	04:39
	16:24	17:33	32 09:25 (29)	18:35	28	07:56 (28)	21:45	22:31
16	09:02	08:03	08:52 (29)	06:50		07:28 (28)	05:15	04:38
	16:26	17:35	32 09:24 (29)	18:38	29	07:57 (28)	21:47	22:31
17	09:01	08:00	08:52 (29)	06:47		07:27 (28)	05:13	04:38
	16:28	17:37	33 09:25 (29)	18:40	30	07:57 (28)	21:49	22:32
18	08:59	07:58	08:52 (29)	06:44		07:27 (28)	05:11	04:38
	16:30	17:40	33 09:25 (29)	18:42	29	07:56 (28)	21:51	22:32
19	08:58	07:55	08:23 (30)	06:42		07:26 (28)	05:09	04:38
	16:32	17:42	36 09:24 (29)	18:44	29	07:55 (28)	21:53	22:33
20	08:57	07:53	08:21 (30)	06:39		07:27 (28)	05:08	04:38
	16:34	17:44	43 09:25 (29)	18:46	29	07:56 (28)	21:55	22:33
21	08:55	07:50	08:18 (30)	06:36		07:27 (28)	05:06	04:38
	16:36	17:47	46 09:24 (29)	18:48	28	07:55 (28)	21:57	22:34
22	08:54	07:48	08:16 (30)	06:34		07:27 (28)	05:04	04:38
	16:38	17:49	49 09:24 (29)	18:51	27	07:54 (28)	21:59	22:34
23	08:52	07:45	08:14 (30)	06:31		07:27 (28)	05:02	04:38
	16:41	17:51	51 09:23 (29)	18:53	25	07:52 (28)	22:01	22:34
24	08:50	07:43	08:13 (30)	06:28		07:29 (28)	05:01	04:39
	16:43	17:53	51 09:22 (29)	18:55	22	07:51 (28)	22:02	22:34
25	08:49	07:40	08:13 (30)	06:25		07:30 (28)	04:59	04:39
	16:45	17:56	49 09:21 (29)	18:57	19	07:49 (28)	22:04	22:34
26	08:47	07:38	08:13 (30)	06:23		07:31 (28)	04:58	04:40
	16:47	17:58	46 09:19 (29)	18:59	16	07:47 (28)	22:06	22:34
27	08:45	07:35	08:12 (30)	06:20		07:34 (28)	04:56	04:40
	16:49	18:00	43 09:17 (29)	19:01	9	07:43 (28)	22:08	22:34
28	08:43	07:33	08:13 (30)	06:17			04:55	04:41
	16:52	18:02	38 09:15 (29)	19:03			22:09	22:33
29	08:42			07:14			04:53	04:41
	16:54			20:06			22:11	22:33
30	08:40			07:12			04:52	04:42
	16:56			20:08			22:12	22:33
31	08:38			07:09			04:51	
	16:58			20:10			22:14	
Potential sun hours	231	264		366		428	512	534
Total, worst case			769		529			
Sun reduction			0.33		0.46			
Oper. time red.			0.94		0.94			
Wind dir. red.			0.59		0.60			
Total reduction			0.19		0.26			
Total, real			143		137			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DF - Kliedini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September			October			November			December	
1	04:43		05:30		06:34			07:36			08:11 (28)	07:43		08:26 (29)	08:46
	22:32		21:49		20:34			19:11	23		08:34 (28)	16:52	23	08:49 (29)	15:59
2	04:44		05:32		06:36			07:38			08:12 (28)	07:45		08:28 (29)	08:48
	22:32		21:47		20:31			19:09	20		08:32 (28)	16:50	20	08:48 (29)	15:58
3	04:45		05:34		06:38			07:40			08:14 (28)	07:47		08:30 (29)	08:50
	22:31		21:45		20:28			19:06	16		08:30 (28)	16:47	16	08:46 (29)	15:57
4	04:46		05:36		06:40			07:42			08:16 (28)	07:50		08:33 (29)	08:52
	22:31		21:43		20:25			19:03	10		08:26 (28)	16:45	10	08:43 (29)	15:56
5	04:47		05:38		06:42			07:44				07:52			08:53
	22:30		21:41		20:23			19:01				16:43			15:55
6	04:48		05:40		06:44			07:46				07:54			08:55
	22:29		21:39		20:20			18:58				16:41			15:55
7	04:49		05:42		06:46			07:48				07:56			08:56
	22:28		21:36		20:17			18:55				16:39			15:54
8	04:50		05:44		06:48			07:51			08:54 (30)	07:59			08:58
	22:27		21:34		20:15			18:52	8		09:02 (30)	16:36			15:53
9	04:51		05:46		06:50			07:53			08:51 (30)	08:01			08:59
	22:26		21:32		20:12			18:50	14		09:05 (30)	16:34			15:53
10	04:53		05:49		06:53			07:55			08:48 (30)	08:03			09:01
	22:25		21:29		20:09			18:47	18		09:06 (30)	16:32			15:52
11	04:54		05:51		06:55			07:57			08:48 (30)	08:05			09:02
	22:24		21:27		20:06			18:44	19		09:07 (30)	16:30			15:52
12	04:55		05:53		06:57			07:59			08:47 (30)	08:08			09:03
	22:23		21:25		20:04			18:42	21		09:08 (30)	16:28			15:52
13	04:57		05:55		06:59			08:01			08:46 (30)	08:10			09:04
	22:22		21:22		20:01			18:39	33		09:45 (29)	16:26			15:52
14	04:58		05:57		07:01			08:03			08:45 (30)	08:12			09:05
	22:21		21:20		19:58			18:37	40		09:48 (29)	16:24			15:51
15	05:00		05:59		07:03			08:05			08:45 (30)	08:14			09:07
	22:19		21:17		19:55			18:34	45		09:51 (29)	16:23			15:51
16	05:01		06:01		07:05		08:24 (28)	08:08			08:45 (30)	08:16			09:08
	22:18		21:15		19:53	7	08:31 (28)	18:31	48		09:52 (29)	16:21			15:51
17	05:03		06:03		07:07		08:20 (28)	08:10			08:45 (30)	08:19			09:08
	22:17		21:13		19:50	14	08:34 (28)	18:29	50		09:53 (29)	16:19			15:51
18	05:05		06:05		07:09		08:18 (28)	08:12			08:45 (30)	08:21			09:09
	22:15		21:10		19:47	18	08:36 (28)	18:26	50		09:53 (29)	16:17			15:52
19	05:06		06:07		07:11		08:16 (28)	08:14			08:46 (30)	08:23			09:10
	22:13		21:08		19:44	22	08:38 (28)	18:24	49		09:54 (29)	16:16			15:52
20	05:08		06:09		07:13		08:14 (28)	08:16			08:47 (30)	08:25			09:11
	22:12		21:05		19:42	24	08:38 (28)	18:21	48		09:54 (29)	16:14			15:52
21	05:10		06:11		07:15		08:13 (28)	08:19			08:50 (30)	08:27			09:11
	22:10		21:02		19:39	26	08:39 (28)	18:18	45		09:55 (29)	16:12			15:52
22	05:11		06:13		07:17		08:12 (28)	08:21			08:52 (30)	08:29			09:12
	22:09		21:00		19:36	27	08:39 (28)	18:16	41		09:55 (29)	16:11			15:53
23	05:13		06:15		07:19		08:11 (28)	08:23			09:22 (29)	08:31			09:12
	22:07		20:57		19:33	28	08:39 (28)	18:13	33		09:55 (29)	16:09			15:53
24	05:15		06:17		07:21		08:10 (28)	08:25			09:22 (29)	08:33			09:13
	22:05		20:55		19:31	29	08:39 (28)	18:11	33		09:55 (29)	16:08			15:54
25	05:17		06:20		07:23		08:10 (28)	07:27			08:22 (29)	08:35			09:13
	22:03		20:52		19:28	29	08:39 (28)	17:09	32		08:54 (29)	16:06			15:55
26	05:19		06:22		07:25		08:09 (28)	07:30			08:21 (29)	08:37			09:13
	22:01		20:49		19:25	29	08:38 (28)	17:06	33		08:54 (29)	16:05			15:55
27	05:21		06:24		07:27		08:09 (28)	07:32			08:22 (29)	08:39			09:14
	21:59		20:47		19:22	29	08:38 (28)	17:04	32		08:54 (29)	16:04			15:56
28	05:23		06:26		07:30		08:09 (28)	07:34			08:22 (29)	08:41			09:14
	21:58		20:44		19:20	28	08:37 (28)	17:01	31		08:53 (29)	16:02			15:57
29	05:24		06:28		07:32		08:10 (28)	07:36			08:23 (29)	08:43			09:14
	21:56		20:42		19:17	27	08:37 (28)	16:59	30		08:53 (29)	16:01			15:58
30	05:26		06:30		07:34		08:10 (28)	07:39			08:24 (29)	08:45			09:14
	21:54		20:39		19:14	26	08:36 (28)	16:57	27		08:51 (29)	16:00			15:59
31	05:28		06:32					07:41			08:25 (29)				09:14
	21:52		20:36					16:54	26		08:51 (29)				16:00
Potential sun hours	534		472		385			322				244			212
Total, worst case						363			875				69		
Sun reduction						0.50			0.42				0.23		
Oper. time red.						0.94			0.94				0.94		
Wind dir. red.						0.60			0.59				0.59		
Total reduction						0.28			0.24				0.13		
Total, real						102			207				9		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DG - Klintnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		14:49 (38)	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42			08:46		14:35 (38)
	16:01	24	15:13 (38)	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51			15:58	24	14:59 (38)
2	09:13		14:50 (38)	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45			08:48		14:36 (38)
	16:02	24	15:14 (38)	17:02	18:06	20:13	21:18	22:17	22:32	21:47	20:30	19:08	16:49			15:57	24	15:00 (38)
3	09:12		14:50 (38)	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47			08:50		14:36 (38)
	16:03	24	15:14 (38)	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46			15:56	24	15:00 (38)
4	09:12		14:50 (38)	08:29	07:21	06:57	05:40	04:45	04:44	05:35	06:39	07:41	07:49			08:51		14:36 (38)
	16:05	24	15:14 (38)	17:06	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:02	16:44			15:55	25	15:01 (38)
5	09:12		14:51 (38)	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:43	07:51			08:53		14:37 (38)
	16:06	25	15:16 (38)	17:09	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42			15:54	24	15:01 (38)
6	09:11		14:51 (38)	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:43	07:46	07:54			08:54		14:37 (38)
	16:08	25	15:16 (38)	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40			15:54	25	15:02 (38)
7	09:10		14:52 (38)	08:23	07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56			08:56		14:37 (38)
	16:09	24	15:16 (38)	17:13	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38			15:53	25	15:02 (38)
8	09:10		14:52 (38)	08:21	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58			08:57		14:38 (38)
	16:11	25	15:17 (38)	17:16	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:35			15:52	25	15:03 (38)
9	09:09		14:53 (38)	08:18	07:08	06:44	05:29	04:40	04:50	05:45	06:50	07:52	08:00			08:59		14:38 (38)
	16:12	24	15:17 (38)	17:18	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:33			15:52	24	15:02 (38)
10	09:08		14:53 (38)	08:16	07:05	06:41	05:26	04:40	04:52	05:48	06:52	07:54	08:03			09:00		14:39 (38)
	16:14	24	15:17 (38)	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:31			15:51	24	15:03 (38)
11	09:07		14:53 (38)	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05			09:02		14:39 (38)
	16:16	24	15:17 (38)	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29			15:51	24	15:03 (38)
12	09:06		14:54 (38)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07			09:03		14:40 (38)
	16:18	23	15:17 (38)	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27			15:51	24	15:04 (38)
13	09:05		14:54 (38)	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09			09:04		14:40 (38)
	16:19	23	15:17 (38)	17:27	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25			15:50	24	15:04 (38)
14	09:04		14:55 (38)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11			09:05		14:40 (38)
	16:21	22	15:17 (38)	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36	16:23			15:50	24	15:04 (38)
15	09:03		14:57 (38)	08:04	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14			09:06		14:41 (38)
	16:23	21	15:18 (38)	17:32	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22			15:50	24	15:05 (38)
16	09:02		14:57 (38)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		14:41 (38)
	16:25	20	15:17 (38)	17:34	18:37	20:44	21:47	22:31	22:18	21:14	19:52	18:30	16:20			15:50	23	15:04 (38)
17	09:00		14:58 (38)	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		14:42 (38)
	16:27	19	15:17 (38)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	23	15:05 (38)
18	08:59		15:00 (38)	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20			09:09		14:43 (38)
	16:29	17	15:17 (38)	17:39	18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25	16:16			15:50	22	15:05 (38)
19	08:58		15:01 (38)	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22			09:10		14:43 (38)
	16:31	15	15:16 (38)	17:41	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:14			15:51	22	15:05 (38)
20	08:56		15:02 (38)	07:52	06:38	06:15	05:06	04:37	05:07	06:08	07:12	08:16	08:24			09:10		14:44 (38)
	16:33	12	15:14 (38)	17:43	18:46	20:52	21:55	22:33	22:11	21:04	19:41	18:20	16:13			15:51	22	15:06 (38)
21	08:55		15:04 (38)	07:50	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27		14:40 (38)	09:11		14:44 (38)
	16:35	9	15:13 (38)	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	9	14:49 (38)	15:51	21	15:05 (38)
22	08:53			07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29		14:38 (38)	09:12		14:45 (38)
	16:37			17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	13	14:51 (38)	15:52	21	15:06 (38)
23	08:52			07:45	06:30	06:07	05:01	04:37	05:12	06:14	07:18	08:22	08:31		14:38 (38)	09:12		14:45 (38)
	16:40			17:50	18:52	20:59	22:00	22:34	22:06	20:57	19:33	18:13	16:08	15	14:53 (38)	15:52	22	15:07 (38)
24	08:50			07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:37 (38)	09:12		14:45 (38)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	17	14:54 (38)	15:53	22	15:07 (38)
25	08:48			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:36 (38)	09:13		14:46 (38)
	16:44			17:55	18:56	21:03	22:04	22:34	22:03	20:51	19:27	17:08	16:05	19	14:55 (38)	15:54	22	15:08 (38)
26	08:46			07:37	06:22	05:59	04:56	04:38	05:18	06:21	07:25	07:29	08:37		14:35 (38)	09:13		14:47 (38)
	16:46			17:57	18:58	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	20	14:55 (38)	15:54	22	15:09 (38)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39		14:36 (38)	09:13		14:47 (38)
	16:48			17:59	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	21	14:57 (38)	15:55	23	15:10 (38)
28	08:43			07:32	06:16	05:54	04:53	04:40	05:21	06:25	07:29	07:33	08:41		14:36 (38)	09:13		14:48 (38)
	16:51			18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	21	14:57 (38)	15:56	23	15:11 (38)
29	08:41				07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:42		14:35 (38)	09:13		14:47 (38)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	23	14:58 (38)	15:57	24	15:11 (38)
30	08:39				07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	08:44		14:35 (38)	09:13		14:48 (38)
	16:55				20:07	21:14	22:12	22:33	21:53	20:38	19:13	16:56	15:59	24	14:59 (38)	15:58	24	15:12 (38)
31	08:37				07:08		04:49		05:27	06:31		07:40				09:13		14:49 (38)
	16:57				20:09		22:14		21:51	20:36		16:53				15:59	24	15:13 (38)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		448												182			724	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.69	
Total reduction		0.18												0.15			0.15	
Total, real		79												27			106	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DH - Kniplokkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May	June
1	09:13	08:36		07:30		08:09 (30)	07:06	08:28 (28)	05:48	04:49
	16:02	17:01		18:05	49	09:20 (29)	20:12	6 08:34 (28)	21:16	22:16
2	09:13	08:34		07:27		08:09 (30)	07:03		05:46	04:48
	16:03	17:03		18:07	45	09:17 (29)	20:14		21:18	22:17
3	09:13	08:32		07:25		08:09 (30)	07:01		05:43	04:47
	16:04	17:05		18:09	39	09:14 (29)	20:16		21:21	22:18
4	09:12	08:30		07:22		08:10 (30)	06:58		05:41	04:46
	16:06	17:07		18:11	29	09:10 (29)	20:18		21:23	22:20
5	09:12	08:28		07:20		08:10 (30)	06:55		05:39	04:45
	16:07	17:10		18:14	20	08:30 (30)	20:21		21:25	22:21
6	09:11	08:25		07:17		08:11 (30)	06:53		05:36	04:44
	16:09	17:12		18:16	18	08:29 (30)	20:23		21:27	22:22
7	09:11	08:23		07:14		08:12 (30)	06:50		05:34	04:43
	16:10	17:14		18:18	14	08:26 (30)	20:25		21:29	22:23
8	09:10	08:21	09:03 (29)	07:12		08:16 (30)	06:47		05:32	04:42
	16:12	17:17	10 09:13 (29)	18:20	8	08:24 (30)	20:27		21:31	22:25
9	09:09	08:19	09:01 (29)	07:09			06:44		05:30	04:42
	16:13	17:19	16 09:17 (29)	18:22			20:29		21:33	22:26
10	09:08	08:17	08:58 (29)	07:06			06:42		05:27	04:41
	16:15	17:21	21 09:19 (29)	18:25			20:31		21:35	22:27
11	09:07	08:14	08:57 (29)	07:03			06:39		05:25	04:40
	16:17	17:24	24 09:21 (29)	18:27			20:33		21:37	22:28
12	09:07	08:12	08:55 (29)	07:01			06:36		05:23	04:40
	16:19	17:26	27 09:22 (29)	18:29			20:36		21:39	22:29
13	09:05	08:10	08:54 (29)	06:58		07:31 (28)	06:34		05:21	04:39
	16:20	17:28	29 09:23 (29)	18:31	12	07:43 (28)	20:38		21:41	22:29
14	09:04	08:07	08:53 (29)	06:55		07:27 (28)	06:31		05:19	04:39
	16:22	17:31	31 09:24 (29)	18:33	18	07:45 (28)	20:40		21:43	22:30
15	09:03	08:05	08:53 (29)	06:53		07:25 (28)	06:28		05:17	04:39
	16:24	17:33	32 09:25 (29)	18:35	22	07:47 (28)	20:42		21:45	22:31
16	09:02	08:03	08:52 (29)	06:50		07:24 (28)	06:26		05:15	04:38
	16:26	17:35	33 09:25 (29)	18:38	25	07:49 (28)	20:44		21:47	22:31
17	09:01	08:00	08:52 (29)	06:47		07:22 (28)	06:23		05:13	04:38
	16:28	17:37	34 09:26 (29)	18:40	27	07:49 (28)	20:46		21:49	22:32
18	08:59	07:58	08:51 (29)	06:44		07:21 (28)	06:21		05:11	04:38
	16:30	17:40	35 09:26 (29)	18:42	29	07:50 (28)	20:48		21:51	22:32
19	08:58	07:55	08:50 (29)	06:42		07:20 (28)	06:18		05:09	04:38
	16:32	17:42	36 09:26 (29)	18:44	30	07:50 (28)	20:51		21:53	22:33
20	08:57	07:53	08:51 (29)	06:39		07:20 (28)	06:15		05:08	04:38
	16:34	17:44	36 09:27 (29)	18:46	31	07:51 (28)	20:53		21:55	22:33
21	08:55	07:50	08:18 (30)	06:36		07:19 (28)	06:13		05:06	04:38
	16:36	17:47	44 09:26 (29)	18:48	31	07:50 (28)	20:55		21:57	22:34
22	08:54	07:48	08:16 (30)	06:34		07:18 (28)	06:10		05:04	04:38
	16:38	17:49	50 09:27 (29)	18:51	32	07:50 (28)	20:57		21:59	22:34
23	08:52	07:45	08:13 (30)	06:31		07:18 (28)	06:08		05:02	04:38
	16:41	17:51	53 09:26 (29)	18:53	31	07:49 (28)	20:59		22:01	22:34
24	08:50	07:43	08:12 (30)	06:28		07:18 (28)	06:05		05:01	04:39
	16:43	17:53	55 09:25 (29)	18:55	31	07:49 (28)	21:01		22:02	22:34
25	08:49	07:40	08:11 (30)	06:25		07:18 (28)	06:03		04:59	04:39
	16:45	17:56	55 09:25 (29)	18:57	30	07:48 (28)	21:03		22:04	22:34
26	08:47	07:38	08:10 (30)	06:23		07:18 (28)	06:00		04:58	04:40
	16:47	17:58	55 09:24 (29)	18:59	29	07:47 (28)	21:06		22:06	22:34
27	08:45	07:35	08:09 (30)	06:20		07:18 (28)	05:58		04:56	04:40
	16:49	18:00	54 09:22 (29)	19:01	28	07:46 (28)	21:08		22:08	22:34
28	08:43	07:33	08:10 (30)	06:17		07:20 (28)	05:55		04:55	04:41
	16:51	18:02	52 09:22 (29)	19:03	25	07:45 (28)	21:10		22:09	22:33
29	08:42			07:14		08:20 (28)	05:53		04:53	04:41
	16:54			20:06	23	08:43 (28)	21:12		22:11	22:33
30	08:40			07:12		08:22 (28)	05:50		04:52	04:42
	16:56			20:08	19	08:41 (28)	21:14		22:12	22:33
31	08:38			07:09		08:23 (28)			04:51	
	16:58			20:10	15	08:38 (28)			22:14	
Potential sun hours	231	264		366			428		512	534
Total, worst case			782		710			6		
Sun reduction			0.33		0.46			0.55		
Oper. time red.			0.94		0.94			0.94		
Wind dir. red.			0.59		0.61			0.61		
Total reduction			0.19		0.26			0.31		
Total, real			145		185			2		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DH - Kniplokkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December
1	04:43	05:30	06:34		07:36		08:13 (28)	07:43	08:28 (29)	08:46
	22:32	21:49	20:34		19:11	7	08:20 (28)	16:52	20	08:48 (29)	15:59
2	04:44	05:32	06:36		07:38			07:45		08:31 (29)	08:48
	22:32	21:47	20:31		19:09			16:50	15	08:46 (29)	15:58
3	04:45	05:34	06:38		07:40			07:47		08:34 (29)	08:50
	22:31	21:45	20:28		19:06			16:47	8	08:42 (29)	15:57
4	04:46	05:36	06:40		07:42			07:50			08:52
	22:31	21:43	20:25		19:03			16:45			15:56
5	04:47	05:38	06:42		07:44			07:52			08:53
	22:30	21:41	20:23		19:01			16:43			15:55
6	04:48	05:40	06:44		07:46		08:51 (30)	07:54			08:55
	22:29	21:39	20:20		18:58	11	09:02 (30)	16:41			15:55
7	04:49	05:42	06:46		07:48		08:48 (30)	07:56			08:56
	22:28	21:36	20:17		18:55	16	09:04 (30)	16:39			15:54
8	04:50	05:44	06:48		07:51		08:46 (30)	07:59			08:58
	22:27	21:34	20:15		18:52	19	09:05 (30)	16:36			15:53
9	04:51	05:46	06:50		07:53		08:45 (30)	08:01			08:59
	22:26	21:32	20:12		18:50	21	09:06 (30)	16:34			15:53
10	04:53	05:49	06:53		07:55		08:43 (30)	08:03			09:01
	22:25	21:29	20:09		18:47	35	09:46 (29)	16:32			15:52
11	04:54	05:51	06:55	08:22 (28)	07:57		08:43 (30)	08:05			09:02
	22:24	21:27	20:06	3 08:25 (28)	18:44	42	09:50 (29)	16:30			15:52
12	04:55	05:53	06:57	08:16 (28)	07:59		08:43 (30)	08:08			09:03
	22:23	21:25	20:04	14 08:30 (28)	18:42	47	09:52 (29)	16:28			15:52
13	04:57	05:55	06:59	08:13 (28)	08:01		08:42 (30)	08:10			09:04
	22:22	21:22	20:01	19 08:32 (28)	18:39	50	09:53 (29)	16:26			15:52
14	04:58	05:57	07:01	08:11 (28)	08:03		08:42 (30)	08:12			09:05
	22:21	21:20	19:58	22 08:33 (28)	18:37	53	09:54 (29)	16:24			15:51
15	05:00	05:59	07:03	08:09 (28)	08:05		08:42 (30)	08:14			09:07
	22:19	21:17	19:55	25 08:34 (28)	18:34	55	09:56 (29)	16:23			15:51
16	05:01	06:01	07:05	08:08 (28)	08:08		08:42 (30)	08:16			09:07
	22:18	21:15	19:53	27 08:35 (28)	18:31	55	09:56 (29)	16:21			15:51
17	05:03	06:03	07:07	08:07 (28)	08:10		08:43 (30)	08:18			09:08
	22:16	21:13	19:50	29 08:36 (28)	18:29	55	09:56 (29)	16:19			15:51
18	05:05	06:05	07:09	08:06 (28)	08:12		08:43 (30)	08:21			09:09
	22:15	21:10	19:47	30 08:36 (28)	18:26	54	09:56 (29)	16:17			15:52
19	05:06	06:07	07:11	08:05 (28)	08:14		08:45 (30)	08:23			09:10
	22:13	21:07	19:44	31 08:36 (28)	18:24	51	09:57 (29)	16:16			15:52
20	05:08	06:09	07:13	08:04 (28)	08:16		08:47 (30)	08:25			09:11
	22:12	21:05	19:42	32 08:36 (28)	18:21	48	09:57 (29)	16:14			15:52
21	05:10	06:11	07:15	08:04 (28)	08:19		08:49 (30)	08:27			09:11
	22:10	21:02	19:39	31 08:35 (28)	18:18	42	09:56 (29)	16:12			15:52
22	05:11	06:13	07:17	08:04 (28)	08:21		09:21 (29)	08:29			09:12
	22:09	21:00	19:36	31 08:35 (28)	18:16	36	09:57 (29)	16:11			15:53
23	05:13	06:15	07:19	08:03 (28)	08:23		09:20 (29)	08:31			09:12
	22:07	20:57	19:33	31 08:34 (28)	18:13	36	09:56 (29)	16:09			15:53
24	05:15	06:17	07:21	08:03 (28)	08:25		09:21 (29)	08:33			09:13
	22:05	20:55	19:31	31 08:34 (28)	18:11	35	09:56 (29)	16:08			15:54
25	05:17	06:20	07:23	08:03 (28)	07:27		08:21 (29)	08:35			09:13
	22:03	20:52	19:28	30 08:33 (28)	17:09	35	08:56 (29)	16:06			15:55
26	05:19	06:22	07:25	08:04 (28)	07:30		08:21 (29)	08:37			09:13
	22:01	20:49	19:25	27 08:31 (28)	17:06	34	08:55 (29)	16:05			15:55
27	05:21	06:24	07:27	08:04 (28)	07:32		08:22 (29)	08:39			09:14
	21:59	20:47	19:22	26 08:30 (28)	17:04	32	08:54 (29)	16:04			15:56
28	05:23	06:26	07:30	08:05 (28)	07:34		08:22 (29)	08:41			09:14
	21:58	20:44	19:20	23 08:28 (28)	17:01	31	08:53 (29)	16:02			15:57
29	05:24	06:28	07:32	08:07 (28)	07:36		08:24 (29)	08:43			09:14
	21:56	20:42	19:17	20 08:27 (28)	16:59	29	08:53 (29)	16:01			15:58
30	05:26	06:30	07:34	08:09 (28)	07:39		08:25 (29)	08:45			09:14
	21:54	20:39	19:14	15 08:24 (28)	16:57	26	08:51 (29)	16:00			15:59
31	05:28	06:32			07:41		08:26 (29)				09:14
	21:52	20:36			16:54	24	08:50 (29)				16:00
Potential sun hours	534	472	385		322			244			212
Total, worst case				497		979			43		
Sun reduction				0.50		0.42			0.23		
Oper. time red.				0.94		0.94			0.94		
Wind dir. red.				0.61		0.59			0.59		
Total reduction				0.28		0.24			0.13		
Total, real				141		231			5		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DI - Krasti A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:35 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:22 (35)
	16:01	29	11:04 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	28	10:50 (35)
2	09:13		10:35 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:22 (35)
	16:02	29	11:04 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	29	10:51 (35)
3	09:13		10:35 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:21 (35)
	16:03	30	11:05 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	29	10:50 (35)
4	09:12		10:36 (35)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:22 (35)
	16:05	30	11:06 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	29	10:51 (35)
5	09:12		10:36 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:22 (35)
	16:06	30	11:06 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	30	10:52 (35)
6	09:11		10:36 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:23 (35)
	16:08	30	11:06 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	29	10:52 (35)
7	09:11		10:37 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:23 (35)
	16:09	29	11:06 (35)	17:14	18:17	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	30	10:53 (35)
8	09:10		10:37 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		10:23 (35)
	16:11	30	11:07 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	30	10:53 (35)
9	09:09		10:38 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:24 (35)
	16:13	29	11:07 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	30	10:54 (35)
10	09:08		10:39 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:24 (35)
	16:14	29	11:08 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	30	10:54 (35)
11	09:07		10:40 (35)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:25 (35)
	16:16	28	11:08 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	30	10:55 (35)
12	09:06		10:40 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:25 (35)
	16:18	28	11:08 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	30	10:55 (35)
13	09:05		10:41 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:25 (35)
	16:20	27	11:08 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	30	10:55 (35)
14	09:04		10:41 (35)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:26 (35)
	16:21	26	11:07 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	30	10:56 (35)
15	09:03		10:42 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		10:27 (35)
	16:23	26	11:08 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	29	10:56 (35)
16	09:02		10:42 (35)	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:08		10:27 (35)
	16:25	25	11:07 (35)	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20			15:50	30	10:57 (35)
17	09:01		10:44 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:28 (35)
	16:27	24	11:08 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	29	10:57 (35)
18	08:59		10:45 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:28 (35)
	16:29	22	11:07 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	30	10:58 (35)
19	08:58		10:46 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23		10:30 (35)	09:10		10:28 (35)
	16:31	20	11:06 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	5	10:35 (35)	15:51	29	10:57 (35)
20	08:57		10:48 (35)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		10:26 (35)	09:11		10:29 (35)
	16:33	18	11:06 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	12	10:38 (35)	15:51	29	10:58 (35)
21	08:55		10:49 (35)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		10:24 (35)	09:11		10:30 (35)
	16:35	16	11:05 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	16	10:40 (35)	15:52	29	10:59 (35)
22	08:53		10:51 (35)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:24 (35)	09:12		10:30 (35)
	16:38	12	11:03 (35)	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	18	10:42 (35)	15:52	29	10:59 (35)
23	08:52		10:55 (35)	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:23 (35)	09:12		10:30 (35)
	16:40	5	11:00 (35)	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	20	10:43 (35)	15:53	29	10:59 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:22 (35)	09:13		10:31 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	22	10:44 (35)	15:53	29	11:00 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:22 (35)	09:13		10:31 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	24	10:46 (35)	15:54	30	11:01 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:22 (35)	09:13		10:32 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	24	10:46 (35)	15:55	29	11:01 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:21 (35)	09:14		10:32 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	26	10:47 (35)	15:55	29	11:01 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:21 (35)	09:14		10:32 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	27	10:48 (35)	15:56	30	11:02 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:21 (35)	09:14		10:33 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	27	10:48 (35)	15:57	30	11:03 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:21 (35)	09:14		10:34 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	28	10:49 (35)	15:58	29	11:03 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:34 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	29	11:03 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		572												249			912	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		91												33			119	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DJ - Krasti B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:33 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:21 (35)
	16:01	29	11:02 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	26	10:47 (35)
2	09:13		10:33 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:21 (35)
	16:02	29	11:02 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	27	10:48 (35)
3	09:13		10:33 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:20 (35)
	16:03	29	11:02 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	27	10:47 (35)
4	09:12		10:35 (35)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:20 (35)
	16:05	28	11:03 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	28	10:48 (35)
5	09:12		10:35 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:21 (35)
	16:06	28	11:03 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	28	10:49 (35)
6	09:11		10:35 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:21 (35)
	16:08	28	11:03 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	28	10:49 (35)
7	09:11		10:36 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:22 (35)
	16:09	28	11:04 (35)	17:14	18:17	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	28	10:50 (35)
8	09:10		10:36 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		10:22 (35)
	16:11	28	11:04 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	28	10:50 (35)
9	09:09		10:37 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:23 (35)
	16:13	27	11:04 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	28	10:51 (35)
10	09:08		10:38 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:22 (35)
	16:14	27	11:05 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	29	10:51 (35)
11	09:07		10:38 (35)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:23 (35)
	16:16	27	11:05 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	29	10:52 (35)
12	09:06		10:38 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:24 (35)
	16:18	26	11:04 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	28	10:52 (35)
13	09:05		10:40 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:24 (35)
	16:20	25	11:05 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	28	10:52 (35)
14	09:04		10:40 (35)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:25 (35)
	16:21	24	11:04 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	28	10:53 (35)
15	09:03		10:41 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		10:25 (35)
	16:23	24	11:05 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	28	10:53 (35)
16	09:02		10:42 (35)	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:08		10:26 (35)
	16:25	22	11:04 (35)	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20			15:50	28	10:54 (35)
17	09:01		10:43 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18			09:08		10:26 (35)
	16:27	21	11:04 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	28	10:54 (35)
18	08:59		10:44 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:27 (35)
	16:29	19	11:03 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	28	10:55 (35)
19	08:58		10:45 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23			09:10		10:27 (35)
	16:31	17	11:02 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	28	10:55 (35)
20	08:57		10:48 (35)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		10:29 (35)	09:11		10:27 (35)
	16:33	14	11:02 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	2	10:31 (35)	15:51	28	10:55 (35)
21	08:55		10:50 (35)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		10:25 (35)	09:11		10:28 (35)
	16:35	10	11:00 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	10	10:35 (35)	15:52	28	10:56 (35)
22	08:53		10:54 (35)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:24 (35)	09:12		10:28 (35)
	16:38	2	10:56 (35)	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	14	10:38 (35)	15:52	28	10:56 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:22 (35)	09:12		10:28 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	17	10:39 (35)	15:53	28	10:56 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:21 (35)	09:13		10:30 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	19	10:40 (35)	15:53	28	10:58 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:21 (35)	09:13		10:30 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	21	10:42 (35)	15:54	28	10:58 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:21 (35)	09:13		10:30 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	22	10:43 (35)	15:55	28	10:58 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:20 (35)	09:14		10:31 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	24	10:44 (35)	15:55	28	10:59 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:20 (35)	09:14		10:31 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	24	10:44 (35)	15:56	28	10:59 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:20 (35)	09:14		10:32 (35)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	25	10:45 (35)	15:57	28	11:00 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:20 (35)	09:14		10:32 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	26	10:46 (35)	15:58	29	11:01 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:32 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	28	11:00 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		512												204			867	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		81												27			113	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DK - Krastini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DL - Krastkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:08	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:45	06:48	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:52	05:47	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:36	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:10	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:07	22:34	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:27	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DM - Kraujas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June
1	09:13		14:00 (36)	08:35		15:48 (35)	07:30	07:05	05:47	04:48
	16:01	26	14:26 (36)	17:00	25	16:13 (35)	18:04	20:11	21:16	22:15
2	09:13		14:01 (36)	08:33		15:48 (35)	07:27	07:03	05:45	04:47
	16:02	26	14:27 (36)	17:02	26	16:14 (35)	18:06	20:14	21:18	22:17
3	09:13		14:01 (36)	08:31		15:48 (35)	07:24	07:00	05:42	04:46
	16:03	26	14:27 (36)	17:04	27	16:15 (35)	18:08	20:16	21:20	22:18
4	09:12		14:02 (36)	08:29		15:47 (35)	07:22	06:57	05:40	04:45
	16:05	26	14:28 (36)	17:07	27	16:14 (35)	18:11	20:18	21:22	22:20
5	09:12		14:03 (36)	08:27		15:48 (35)	07:19	06:55	05:38	04:44
	16:06	25	14:28 (36)	17:09	27	16:15 (35)	18:13	20:20	21:25	22:21
6	09:11		14:03 (36)	08:25		15:49 (35)	07:16	06:52	05:35	04:43
	16:08	25	14:28 (36)	17:11	26	16:15 (35)	18:15	20:22	21:27	22:22
7	09:11		14:04 (36)	08:23		15:48 (35)	07:14	06:49	05:33	04:42
	16:09	24	14:28 (36)	17:14	26	16:14 (35)	18:17	20:24	21:29	22:23
8	09:10		14:05 (36)	08:21		15:49 (35)	07:11	06:46	05:31	04:41
	16:11	23	14:28 (36)	17:16	26	16:15 (35)	18:20	20:27	21:31	22:24
9	09:09		14:06 (36)	08:19		15:49 (35)	07:08	06:44	05:29	04:41
	16:12	22	14:28 (36)	17:18	24	16:13 (35)	18:22	20:29	21:33	22:26
10	09:08		14:07 (36)	08:16		15:51 (35)	07:06	06:41	05:27	04:40
	16:14	21	14:28 (36)	17:20	22	16:13 (35)	18:24	20:31	21:35	22:27
11	09:07		14:07 (36)	08:14		15:51 (35)	07:03	06:38	05:24	04:39
	16:16	20	14:27 (36)	17:23	21	16:12 (35)	18:26	20:33	21:37	22:28
12	09:06		14:09 (36)	08:12		15:53 (35)	07:00	06:36	05:22	04:39
	16:18	18	14:27 (36)	17:25	18	16:11 (35)	18:28	20:35	21:39	22:28
13	09:05		14:10 (36)	08:09		15:54 (35)	06:58	06:33	05:20	04:38
	16:19	17	14:27 (36)	17:27	15	16:09 (35)	18:31	20:37	21:41	22:29
14	09:04		14:11 (36)	08:07		15:58 (35)	06:55	06:30	05:18	04:38
	16:21	15	14:26 (36)	17:30	8	16:06 (35)	18:33	20:39	21:43	22:30
15	09:03		14:14 (36)	08:05			06:52	06:28	05:16	04:38
	16:23	11	14:25 (36)	17:32			18:35	20:42	21:45	22:31
16	09:02		14:16 (36)	08:02			06:49	06:25	05:14	04:37
	16:25	7	14:23 (36)	17:34			18:37	20:44	21:47	22:31
17	09:01			08:00			06:47	06:22	05:12	04:37
	16:27			17:37			18:39	20:46	21:49	22:32
18	08:59			07:57			06:44	06:20	05:10	04:37
	16:29			17:39			18:41	20:48	21:51	22:32
19	08:58			07:55			06:41	06:17	05:08	04:37
	16:31			17:41			18:44	20:50	21:53	22:33
20	08:56			07:53			06:38	06:15	05:07	04:37
	16:33			17:44			18:46	20:52	21:55	22:33
21	08:55			07:50			06:36	06:12	05:05	04:37
	16:35			17:46			18:48	20:54	21:57	22:33
22	08:53			07:48			06:33	06:10	05:03	04:37
	16:37			17:48			18:50	20:57	21:59	22:34
23	08:52			07:45			06:30	06:07	05:01	04:37
	16:40			17:50			18:52	20:59	22:00	22:34
24	08:50		15:56 (35)	07:42			06:27	06:04	05:00	04:38
	16:42	6	16:02 (35)	17:53			18:54	21:01	22:02	22:34
25	08:48		15:53 (35)	07:40			06:25	06:02	04:58	04:38
	16:44	12	16:05 (35)	17:55			18:56	21:03	22:04	22:34
26	08:47		15:52 (35)	07:37			06:22	05:59	04:57	04:39
	16:46	15	16:07 (35)	17:57			18:59	21:05	22:06	22:34
27	08:45		15:51 (35)	07:35			06:19	05:57	04:55	04:39
	16:48	18	16:09 (35)	17:59			19:01	21:07	22:07	22:34
28	08:43		15:50 (35)	07:32			06:16	05:54	04:54	04:40
	16:51	20	16:10 (35)	18:02			19:03	21:10	22:09	22:33
29	08:41		15:49 (35)				07:14	05:52	04:52	04:40
	16:53	22	16:11 (35)				20:05	21:12	22:11	22:33
30	08:39		15:49 (35)				07:11	05:50	04:51	04:41
	16:55	24	16:13 (35)				20:07	21:14	22:12	22:33
31	08:37		15:48 (35)				07:08		04:50	
	16:57	25	16:13 (35)				20:09		22:14	
Potential sun hours	231			264			366	428	512	534
Total, worst case		474			318					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.68			0.67					
Total reduction		0.17			0.21					
Total, real		83			67					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DM - Kraujas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:29	06:33	07:35			07:43		15:20 (35)	08:46		13:49 (36)
	22:32	21:49	20:33	19:11			16:51	23	15:43 (35)	15:58	20	14:09 (36)
2	04:43	05:31	06:35	07:37			07:45		15:19 (35)	08:48		13:49 (36)
	22:32	21:47	20:30	19:08			16:49	24	15:43 (35)	15:57	21	14:10 (36)
3	04:44	05:33	06:37	07:39			07:47		15:19 (35)	08:50		13:49 (36)
	22:31	21:45	20:28	19:05			16:47	25	15:44 (35)	15:56	22	14:11 (36)
4	04:45	05:35	06:40	07:42			07:49		15:18 (35)	08:51		13:49 (36)
	22:31	21:43	20:25	19:03			16:44	26	15:44 (35)	15:55	23	14:12 (36)
5	04:46	05:37	06:42	07:44			07:52		15:18 (35)	08:53		13:49 (36)
	22:30	21:41	20:22	19:00			16:42	27	15:45 (35)	15:55	24	14:13 (36)
6	04:47	05:39	06:44	07:46			07:54		15:18 (35)	08:55		13:50 (36)
	22:29	21:38	20:20	18:57			16:40	27	15:45 (35)	15:54	24	14:14 (36)
7	04:48	05:42	06:46	07:48			07:56		15:18 (35)	08:56		13:50 (36)
	22:28	21:36	20:17	18:54			16:38	27	15:45 (35)	15:53	25	14:15 (36)
8	04:49	05:44	06:48	07:50			07:58		15:18 (35)	08:58		13:50 (36)
	22:27	21:34	20:14	18:52			16:36	27	15:45 (35)	15:52	25	14:15 (36)
9	04:50	05:46	06:50	07:52			08:01		15:19 (35)	08:59		13:50 (36)
	22:26	21:31	20:11	18:49			16:34	26	15:45 (35)	15:52	26	14:16 (36)
10	04:52	05:48	06:52	07:54			08:03		15:19 (35)	09:00		13:50 (36)
	22:25	21:29	20:09	18:46			16:31	25	15:44 (35)	15:52	26	14:16 (36)
11	04:53	05:50	06:54	07:56			08:05		15:20 (35)	09:02		13:51 (36)
	22:24	21:27	20:06	18:44			16:29	24	15:44 (35)	15:51	26	14:17 (36)
12	04:54	05:52	06:56	07:59			08:07		15:20 (35)	09:03		13:51 (36)
	22:23	21:24	20:03	18:41			16:27	23	15:43 (35)	15:51	26	14:17 (36)
13	04:56	05:54	06:58	08:01			08:09		15:21 (35)	09:04		13:51 (36)
	22:22	21:22	20:00	18:38			16:26	22	15:43 (35)	15:51	27	14:18 (36)
14	04:57	05:56	07:00	08:03			08:12		15:22 (35)	09:05		13:51 (36)
	22:21	21:20	19:58	18:36			16:24	20	15:42 (35)	15:50	27	14:18 (36)
15	04:59	05:58	07:02	08:05			08:14		15:24 (35)	09:06		13:52 (36)
	22:19	21:17	19:55	18:33			16:22	18	15:42 (35)	15:50	27	14:19 (36)
16	05:00	06:00	07:04	08:07			08:16		15:25 (35)	09:07		13:53 (36)
	22:18	21:15	19:52	18:31			16:20	15	15:40 (35)	15:50	27	14:20 (36)
17	05:02	06:02	07:06	08:09			08:18		15:27 (35)	09:08		13:53 (36)
	22:16	21:12	19:49	18:28			16:18	12	15:39 (35)	15:50	27	14:20 (36)
18	05:04	06:04	07:08	08:12			08:20		15:30 (35)	09:09		13:53 (36)
	22:15	21:10	19:47	18:25			16:16	6	15:36 (35)	15:51	27	14:20 (36)
19	05:05	06:06	07:10	08:14			08:23			09:10		13:53 (36)
	22:13	21:07	19:44	18:23			16:15			15:51	28	14:21 (36)
20	05:07	06:08	07:12	08:16			08:25			09:11		13:54 (36)
	22:12	21:05	19:41	18:20			16:13			15:51	27	14:21 (36)
21	05:09	06:10	07:14	08:18			08:27			09:11		13:54 (36)
	22:10	21:02	19:38	18:18			16:11			15:51	27	14:21 (36)
22	05:11	06:13	07:17	08:20			08:29			09:12		13:55 (36)
	22:08	20:59	19:36	18:15			16:10			15:52	27	14:22 (36)
23	05:12	06:15	07:19	08:23			08:31			09:12		13:55 (36)
	22:07	20:57	19:33	18:13			16:08			15:52	27	14:22 (36)
24	05:14	06:17	07:21	08:25			08:33			09:13		13:56 (36)
	22:05	20:54	19:30	18:10			16:07			15:53	28	14:24 (36)
25	05:16	06:19	07:23	07:27			08:35			09:13		13:57 (36)
	22:03	20:52	19:27	17:08			16:05			15:54	27	14:24 (36)
26	05:18	06:21	07:25	07:29			08:37		13:55 (36)	09:13		13:57 (36)
	22:01	20:49	19:25	17:05			16:04	7	14:02 (36)	15:54	27	14:24 (36)
27	05:20	06:23	07:27	07:31			08:39		13:53 (36)	09:14		13:57 (36)
	21:59	20:46	19:22	17:03			16:03	11	14:04 (36)	15:55	28	14:25 (36)
28	05:22	06:25	07:29	07:34		15:26 (35)	08:41		13:51 (36)	09:14		13:58 (36)
	21:57	20:44	19:19	17:01	11	15:37 (35)	16:02	15	14:06 (36)	15:56	27	14:25 (36)
29	05:24	06:27	07:31	07:36		15:23 (35)	08:43		13:50 (36)	09:14		13:59 (36)
	21:55	20:41	19:16	16:58	16	15:39 (35)	16:00	17	14:07 (36)	15:57	27	14:26 (36)
30	05:25	06:29	07:33	07:38		15:22 (35)	08:44		13:50 (36)	09:14		13:58 (36)
	21:53	20:38	19:14	16:56	19	15:41 (35)	15:59	18	14:08 (36)	15:58	27	14:25 (36)
31	05:27	06:31		07:40		15:20 (35)				09:14		13:59 (36)
	21:51	20:36		16:53	22	15:42 (35)				15:59	27	14:26 (36)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					68			465			804	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.67			0.67			0.68	
Total reduction					0.27			0.14			0.14	
Total, real					18			67			116	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DN - Krumini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May		June		
1	09:14	08:36		07:30		08:03 (16)	07:06			05:48		06:36 (15)	04:49		05:36 (3)
	16:02	17:00		18:05	26	08:40 (20)	20:12			21:16	24	07:00 (15)	22:16	25	06:01 (3)
2	09:13	08:34		07:27		08:00 (16)	07:03			05:46		06:36 (15)	04:48		05:37 (3)
	16:03	17:03		18:07	21	08:35 (20)	20:14			21:19	24	07:00 (15)	22:17	25	06:02 (3)
3	09:13	08:32		07:25		07:58 (16)	07:01			05:43		06:37 (15)	04:47		05:37 (3)
	16:04	17:05		18:09	22	08:20 (16)	20:16			21:21	22	06:59 (15)	22:19	25	06:02 (3)
4	09:13	08:30		07:22		07:57 (16)	06:58			05:41		06:38 (15)	04:46		05:37 (3)
	16:05	17:07		18:11	25	08:22 (16)	20:18			21:23	20	06:58 (15)	22:20	25	06:02 (3)
5	09:12	08:28		07:20		07:56 (16)	06:55			05:38		06:39 (15)	04:45		05:37 (3)
	16:07	17:10		18:14	26	08:22 (16)	20:21			21:25	18	06:57 (15)	22:21	25	06:02 (3)
6	09:12	08:26		07:17		07:55 (16)	06:52			05:36		06:40 (15)	04:44		05:36 (3)
	16:08	17:12		18:16	27	08:22 (16)	20:23			21:27	16	06:56 (15)	22:22	26	06:02 (3)
7	09:11	08:23		07:14		07:55 (16)	06:50			05:34		06:41 (15)	04:43		05:37 (3)
	16:10	17:14		18:18	28	08:23 (16)	20:25			21:29	12	06:53 (15)	22:24	26	06:03 (3)
8	09:10	08:21		07:12		07:54 (16)	06:47			05:32		06:43 (15)	04:42		05:37 (3)
	16:12	17:17		18:20	29	08:23 (16)	20:27			21:31	8	06:51 (15)	22:25	25	06:02 (3)
9	09:09	08:19		07:09		07:53 (16)	06:44			05:30			04:41		05:37 (3)
	16:13	17:19		18:22	30	08:23 (16)	20:29			21:33			22:26	25	06:02 (3)
10	09:09	08:17		07:06		07:53 (16)	06:42			05:27			04:41		05:38 (3)
	16:15	17:21		18:25	29	08:22 (16)	20:31			21:35			22:27	25	06:03 (3)
11	09:08	08:14		07:03		07:52 (16)	06:39			05:25			04:40		05:38 (3)
	16:17	17:23		18:27	30	08:22 (16)	20:33			21:37			22:28	25	06:03 (3)
12	09:07	08:12		07:01		07:53 (16)	06:36			05:23			04:40		05:38 (3)
	16:18	17:26		18:29	29	08:22 (16)	20:36			21:40			22:29	25	06:03 (3)
13	09:06	08:10		06:58		07:53 (16)	06:34			05:21			04:39		05:39 (3)
	16:20	17:28		18:31	28	08:21 (16)	20:38			21:42			22:30	24	06:03 (3)
14	09:05	08:08		06:55		07:54 (16)	06:31			05:19			04:39		05:39 (3)
	16:22	17:30		18:33	25	08:19 (16)	20:40			21:44			22:30	25	06:04 (3)
15	09:03	08:05	08:35 (20)	06:53		07:54 (16)	06:28			05:17			04:38		05:39 (3)
	16:24	17:33	2 08:37 (20)	18:35	24	08:18 (16)	20:42			21:46			22:31	24	06:03 (3)
16	09:02	08:03	08:31 (20)	06:50		07:56 (16)	06:26			05:15			04:38		05:39 (3)
	16:26	17:35	10 08:41 (20)	18:38	21	08:17 (16)	20:44			21:48			22:32	24	06:03 (3)
17	09:01	08:00	08:29 (20)	06:47		07:57 (16)	06:23			05:13			04:38		05:39 (3)
	16:28	17:37	14 08:43 (20)	18:40	17	08:14 (16)	20:46			21:50			22:32	24	06:03 (3)
18	09:00	07:58	08:27 (20)	06:44		07:59 (16)	06:21			05:11		05:44 (3)	04:38		05:40 (3)
	16:30	17:40	17 08:44 (20)	18:42	12	08:11 (16)	20:49			21:51	7	05:51 (3)	22:33	24	06:04 (3)
19	08:58	07:55	08:25 (20)	06:42			06:18		06:47 (15)	05:09		05:41 (3)	04:38		05:40 (3)
	16:32	17:42	20 08:45 (20)	18:44			20:51	8	06:55 (15)	21:53	12	05:53 (3)	22:33	24	06:04 (3)
20	08:57	07:53	08:25 (20)	06:39			06:15		06:43 (15)	05:07		05:40 (3)	04:38		05:40 (3)
	16:34	17:44	21 08:46 (20)	18:46			20:53	14	06:57 (15)	21:55	15	05:55 (3)	22:33	24	06:04 (3)
21	08:55	07:51	08:24 (20)	06:36			06:13		06:42 (15)	05:06		05:39 (3)	04:38		05:41 (3)
	16:36	17:46	22 08:46 (20)	18:48			20:55	17	06:59 (15)	21:57	17	05:56 (3)	22:34	24	06:05 (3)
22	08:54	07:48	08:24 (20)	06:34			06:10		06:40 (15)	05:04		05:38 (3)	04:38		05:41 (3)
	16:38	17:49	23 08:47 (20)	18:51			20:57	20	07:00 (15)	21:59	19	05:57 (3)	22:34	24	06:05 (3)
23	08:52	07:45	08:24 (20)	06:31			06:08		06:39 (15)	05:02		05:37 (3)	04:38		05:41 (3)
	16:40	17:51	22 08:46 (20)	18:53			20:59	22	07:01 (15)	22:01	20	05:57 (3)	22:34	24	06:05 (3)
24	08:51	07:43	08:24 (20)	06:28			06:05		06:37 (15)	05:00		05:37 (3)	04:39		05:41 (3)
	16:43	17:53	22 08:46 (20)	18:55			21:01	24	07:01 (15)	22:03	21	05:58 (3)	22:34	24	06:05 (3)
25	08:49	07:40	08:25 (20)	06:25			06:03		06:37 (15)	04:59		05:37 (3)	04:39		05:42 (3)
	16:45	17:56	21 08:46 (20)	18:57			21:04	24	07:01 (15)	22:04	22	05:59 (3)	22:34	24	06:06 (3)
26	08:47	07:38	08:25 (20)	06:23			06:00		06:37 (15)	04:57		05:36 (3)	04:39		05:41 (3)
	16:47	17:58	20 08:45 (20)	18:59			21:06	25	07:02 (15)	22:06	23	05:59 (3)	22:34	24	06:05 (3)
27	08:45	07:35	08:25 (20)	06:20			05:58		06:36 (15)	04:56		05:36 (3)	04:40		05:42 (3)
	16:49	18:00	18 08:43 (20)	19:01			21:08	25	07:01 (15)	22:08	24	06:00 (3)	22:34	24	06:06 (3)
28	08:44	07:33	08:09 (16)	06:17			05:55		06:36 (15)	04:54		05:36 (3)	04:41		05:41 (3)
	16:51	18:02	18 08:42 (20)	19:03			21:10	25	07:01 (15)	22:09	24	06:00 (3)	22:34	25	06:06 (3)
29	08:42			07:14			05:53		06:36 (15)	04:53		05:36 (3)	04:41		05:42 (3)
	16:54			20:06			21:12	25	07:01 (15)	22:11	25	06:01 (3)	22:33	24	06:06 (3)
30	08:40			07:12			05:50		06:36 (15)	04:52		05:36 (3)	04:42		05:42 (3)
	16:56			20:08			21:14	25	07:01 (15)	22:13	25	06:01 (3)	22:33	25	06:07 (3)
31	08:38			07:09						04:50		05:35 (3)			
	16:58			20:10						22:14	26	06:01 (3)			
Potential sun hours	231	264		366			428			512			534		
Total, worst case			250		449			254			424			737	
Sun reduction			0.33		0.46			0.55			0.61			0.57	
Oper. time red.			0.94		0.94			0.94			0.94			0.94	
Wind dir. red.			0.60		0.60			0.65			0.67			0.68	
Total reduction			0.19		0.26			0.33			0.38			0.36	
Total, real			47		115			84			163			268	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DN - Krumini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September		October		November	December
1	04:43	05:43 (3)	05:30		06:34		07:36	08:33 (16)	07:43	08:47
	22:33 25	06:08 (3)	21:50		20:34		19:11 28	09:01 (16)	16:52	15:59
2	04:44	05:42 (3)	05:32		06:36		07:38	08:32 (16)	07:45	08:48
	22:32 25	06:07 (3)	21:48		20:31		19:09 29	09:01 (16)	16:49	15:58
3	04:44	05:42 (3)	05:34		06:38		07:40	08:31 (16)	07:48	08:50
	22:32 25	06:07 (3)	21:45		20:28		19:06 29	09:00 (16)	16:47	15:57
4	04:45	05:43 (3)	05:36		06:40		07:42	08:30 (16)	07:50	08:52
	22:31 25	06:08 (3)	21:43		20:26		19:03 30	09:00 (16)	16:45	15:56
5	04:46	05:43 (3)	05:38	06:52 (15)	06:42		07:44	08:30 (16)	07:52	08:53
	22:30 25	06:08 (3)	21:41 10	07:02 (15)	20:23		19:00 29	08:59 (16)	16:43	15:55
6	04:48	05:43 (3)	05:40	06:50 (15)	06:44		07:46	08:31 (16)	07:54	08:55
	22:29 25	06:08 (3)	21:39 14	07:04 (15)	20:20		18:58 29	09:00 (16)	16:41	15:55
7	04:49	05:43 (3)	05:42	06:49 (15)	06:46		07:48	08:31 (16)	07:57	08:57
	22:29 25	06:08 (3)	21:36 17	07:06 (15)	20:17		18:55 28	08:59 (16)	16:38	15:54
8	04:50	05:43 (3)	05:44	06:48 (15)	06:48		07:51	08:31 (16)	07:59	08:58
	22:28 26	06:09 (3)	21:34 19	07:07 (15)	20:15		18:52 27	08:58 (16)	16:36	15:53
9	04:51	05:43 (3)	05:46	06:47 (15)	06:50		07:53	08:31 (16)	08:01	08:59
	22:27 26	06:09 (3)	21:32 21	07:08 (15)	20:12		18:50 25	08:56 (16)	16:34	15:53
10	04:52	05:44 (3)	05:48	06:45 (15)	06:52		07:55	08:32 (16)	08:03	09:01
	22:26 26	06:10 (3)	21:30 23	07:08 (15)	20:09		18:47 23	08:55 (16)	16:32	15:52
11	04:54	05:44 (3)	05:50	06:44 (15)	06:55		07:57	08:34 (16)	08:05	09:02
	22:25 25	06:09 (3)	21:27 24	07:08 (15)	20:06		18:44 20	08:54 (16)	16:30	15:52
12	04:55	05:44 (3)	05:53	06:44 (15)	06:57		07:59	08:35 (16)	08:08	09:03
	22:23 25	06:09 (3)	21:25 25	07:09 (15)	20:04		18:42 24	09:11 (20)	16:28	15:52
13	04:57	05:44 (3)	05:55	06:44 (15)	06:59		08:01	08:38 (16)	08:10	09:05
	22:22 25	06:09 (3)	21:22 25	07:09 (15)	20:01		18:39 24	09:14 (20)	16:26	15:51
14	04:58	05:45 (3)	05:57	06:43 (15)	07:01		08:03	08:58 (20)	08:12	09:06
	22:21 25	06:10 (3)	21:20 26	07:09 (15)	19:58		18:36 17	09:15 (20)	16:24	15:51
15	05:00	05:45 (3)	05:59	06:43 (15)	07:03		08:06	08:58 (20)	08:14	09:07
	22:20 24	06:09 (3)	21:18 26	07:09 (15)	19:55		18:34 19	09:17 (20)	16:22	15:51
16	05:01	05:45 (3)	06:01	06:43 (15)	07:05		08:08	08:56 (20)	08:16	09:08
	22:18 24	06:09 (3)	21:15 26	07:09 (15)	19:53		18:31 21	09:17 (20)	16:21	15:51
17	05:03	05:46 (3)	06:03	06:43 (15)	07:07		08:10	08:55 (20)	08:19	09:09
	22:17 23	06:09 (3)	21:13 25	07:08 (15)	19:50		18:29 22	09:17 (20)	16:19	15:51
18	05:04	05:46 (3)	06:05	06:44 (15)	07:09		08:12	08:56 (20)	08:21	09:09
	22:15 22	06:08 (3)	21:10 24	07:08 (15)	19:47		18:26 22	09:18 (20)	16:17	15:51
19	05:06	05:47 (3)	06:07	06:44 (15)	07:11		08:14	08:55 (20)	08:23	09:10
	22:14 21	06:08 (3)	21:08 23	07:07 (15)	19:44		18:24 22	09:17 (20)	16:15	15:52
20	05:08	05:47 (3)	06:09	06:45 (15)	07:13		08:16	08:55 (20)	08:25	09:11
	22:12 20	06:07 (3)	21:05 21	07:06 (15)	19:42		18:21 22	09:17 (20)	16:14	15:52
21	05:10	05:48 (3)	06:11	06:45 (15)	07:15		08:19	08:55 (20)	08:27	09:12
	22:10 19	06:07 (3)	21:03 20	07:05 (15)	19:39		18:18 22	09:17 (20)	16:12	15:52
22	05:11	05:49 (3)	06:13	06:47 (15)	07:17		08:21	08:55 (20)	08:29	09:12
	22:09 18	06:07 (3)	21:00 16	07:03 (15)	19:36		18:16 21	09:16 (20)	16:11	15:53
23	05:13	05:49 (3)	06:15	06:48 (15)	07:19		08:23	08:56 (20)	08:31	09:13
	22:07 17	06:06 (3)	20:57 13	07:01 (15)	19:33		18:13 19	09:15 (20)	16:09	15:53
24	05:15	05:51 (3)	06:17	06:51 (15)	07:21		08:25	08:57 (20)	08:33	09:13
	22:05 14	06:05 (3)	20:55 6	06:57 (15)	19:31		18:11 17	09:14 (20)	16:08	15:54
25	05:17	05:53 (3)	06:19		07:23	08:43 (16)	07:27	07:59 (20)	08:35	09:13
	22:03 10	06:03 (3)	20:52		19:28 10	08:53 (16)	17:08 13	08:12 (20)	16:06	15:54
26	05:19	05:56 (3)	06:22		07:25	08:40 (16)	07:30	08:02 (20)	08:37	09:14
	22:02 4	06:00 (3)	20:50		19:25 16	08:56 (16)	17:06 9	08:11 (20)	16:05	15:55
27	05:20		06:24		07:27	08:37 (16)	07:32		08:39	09:14
	22:00		20:47		19:22 20	08:57 (16)	17:04		16:03	15:56
28	05:22		06:26		07:30	08:35 (16)	07:34		08:41	09:14
	21:58		20:44		19:20 23	08:58 (16)	17:01		16:02	15:57
29	05:24		06:28		07:32	08:35 (16)	07:36		08:43	09:14
	21:56		20:42		19:17 25	09:00 (16)	16:59		16:01	15:58
30	05:26		06:30		07:34	08:34 (16)	07:39		08:45	09:14
	21:54		20:39		19:14 26	09:00 (16)	16:56		16:00	15:59
31	05:28		06:32				07:41			09:14
	21:52		20:36				16:54			16:00
Potential sun hours	534		472		385		322		244	211
Total, worst case		569		404		120		591		
Sun reduction		0.60		0.59		0.50		0.42		
Oper. time red.		0.94		0.94		0.94		0.94		
Wind dir. red.		0.68		0.65		0.60		0.60		
Total reduction		0.38		0.36		0.28		0.24		
Total, real		218		144		33		141		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DO - Kurpnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:30	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:13	21:18	22:16	22:31	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:27	19:05	16:47	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44	04:46	05:38	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20	22:29	21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:54
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:28	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:30	22:24	22:27	21:33	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:00	08:59
	16:13	17:18	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:34	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:02	09:00
	16:14	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:32	15:52
11	09:07	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	22:22	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00	08:09	09:04
	16:20	17:27	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:33	20:39	21:43	22:29	22:20	21:19	19:57	18:36	16:24	15:51
15	09:03	08:04	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:13	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:31	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	22:16	21:12	19:49	18:28	16:18	15:51
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:14	21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24	09:10
	16:33	17:44	18:46	20:52	21:54	22:33	22:11	21:04	19:41	18:20	16:13	15:51
21	08:54	07:50	06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	22:10	21:02	19:38	18:18	16:11	15:52
22	08:53	07:47	06:33	06:09	05:03	04:37	05:11	06:13	07:16	08:20	08:28	09:11
	16:38	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:18	08:22	08:30	09:12
	16:40	17:50	18:52	20:58	22:00	22:33	22:06	20:57	19:33	18:13	16:08	15:53
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:24	08:32	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	22:04	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:34	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	22:03	20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:36	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05	16:04	15:55
27	08:45	07:34	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:02	15:56
29	08:41		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:14	22:12	22:32	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50		05:28	06:31		07:40		09:13
	16:57		20:09		22:13		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DP - Kveldes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	07:18 (42)	06:28	05:17	04:38	04:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	7 07:25 (42)	20:42	21:46	22:31	22:20	21:18	19:55	18:34	23 09:09 (41)	16:22	15:51
16	09:02	08:03	06:50	07:16 (42)	06:26	05:15	04:38	05:01	06:01	07:05	08:03 (42)	08:08	08:45 (41)	08:17	09:08
	16:26	17:35	18:38	11 07:27 (42)	20:44	21:48	22:32	22:18	21:15	19:53	4 08:07 (42)	18:31	24 09:09 (41)	16:20	15:51
17	09:01	08:00	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07	07:59 (42)	08:10	08:45 (41)	08:19	09:09
	16:28	17:37	18:40	15 07:28 (42)	20:46	21:50	22:32	22:17	21:13	19:50	12 08:11 (42)	18:29	23 09:08 (41)	16:19	15:51
18	09:00	07:58	06:44	07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09	07:57 (42)	08:12	08:46 (41)	08:21	09:10
	16:30	17:40	18:42	18 07:28 (42)	20:49	21:52	22:33	22:15	21:10	19:47	15 08:12 (42)	18:26	22 09:08 (41)	16:17	15:51
19	08:58	07:56	08:24 (41)	06:42	07:08 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:55 (42)	08:14	08:46 (41)	08:23	09:10
	16:32	17:42	6 08:30 (41)	18:44	20 07:28 (42)	20:51	21:54	22:33	22:14	21:08	19:44	18 08:13 (42)	18:23	21 09:07 (41)	16:15	15:51
20	08:57	07:53	08:21 (41)	06:39	07:08 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:54 (42)	08:16	08:47 (41)	08:25	09:11
	16:34	17:44	11 08:32 (41)	18:46	21 07:29 (42)	20:53	21:55	22:34	22:12	21:05	19:42	19 08:13 (42)	18:21	18 09:05 (41)	16:14	15:52
21	08:55	07:51	08:18 (41)	06:36	07:08 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:53 (42)	08:19	08:50 (41)	08:27	09:12
	16:36	17:46	16 08:34 (41)	18:48	21 07:29 (42)	20:55	21:57	22:34	22:11	21:03	19:39	20 08:13 (42)	18:18	14 09:04 (41)	16:12	15:52
22	08:54	07:48	08:16 (41)	06:33	07:07 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:52 (42)	08:21	08:52 (41)	08:29	09:12
	16:38	17:49	19 08:35 (41)	18:51	21 07:28 (42)	20:57	21:59	22:34	22:09	21:00	19:36	21 08:13 (42)	18:16	10 09:02 (41)	16:10	15:52
23	08:52	07:46	08:15 (41)	06:31	07:07 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:52 (42)	08:23	08:54 (41)	08:31	09:13
	16:40	17:51	21 08:36 (41)	18:53	20 07:27 (42)	20:59	22:01	22:34	22:07	20:57	19:33	21 08:13 (42)	18:13	4 08:58 (41)	16:09	15:53
24	08:51	07:43	08:14 (41)	06:28	07:09 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:52 (42)	08:25		08:33	09:13
	16:42	17:53	22 08:36 (41)	18:55	18 07:27 (42)	21:02	22:03	22:34	22:05	20:55	19:31	20 08:12 (42)	18:11		16:07	15:54
25	08:49	07:40	08:14 (41)	06:25	07:09 (42)	06:03	04:59	04:39	05:17	06:19	07:23	07:52 (42)	07:28		08:35	09:14
	16:45	17:56	23 08:37 (41)	18:57	16 07:25 (42)	21:04	22:05	22:34	22:04	20:52	19:28	19 08:11 (42)	17:08		16:06	15:54
26	08:47	07:38	08:13 (41)	06:23	07:10 (42)	06:00	04:57	04:39	05:18	06:21	07:25	07:54 (42)	07:30		08:37	09:14
	16:47	17:58	24 08:37 (41)	18:59	13 07:23 (42)	21:06	22:06	22:34	22:02	20:50	19:25	16 08:10 (42)	17:06		16:05	15:55
27	08:45	07:35	08:13 (41)	06:20	07:13 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:56 (42)	07:32		08:39	09:14
	16:49	18:00	23 08:36 (41)	19:01	6 07:19 (42)	21:08	22:08	22:34	22:00	20:47	19:22	13 08:09 (42)	17:04		16:03	15:56
28	08:44	07:33	08:14 (41)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	07:59 (42)	07:34		08:41	09:14
	16:51	18:02	23 08:37 (41)	19:03		21:10	22:10	22:34	21:58	20:44	19:20	8 08:07 (42)	17:01		16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	08:01 (42)	07:36		08:43	09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17	3 08:04 (42)	16:59		16:01	15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14		16:56		16:00	15:59
31	08:38			07:09			04:50		05:28	06:32			07:41			09:14
	16:58			20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case		188	298						209	287		
Sun reduction		0.33	0.46						0.50	0.42		
Oper. time red.		0.94	0.94						0.94	0.94		
Wind dir. red.		0.60	0.61						0.62	0.60		
Total reduction		0.19	0.26						0.29	0.24		
Total, real		35	79						60	69		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DQ - Lagzdienas Kalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42	08:46		
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58		
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48		
	16:02	17:02	18:06	20:13	21:18	22:17	22:32	21:47	20:30	19:08	16:49	15:57		
3	09:12	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:50		
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46	15:56		
4	09:12	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51		
	16:05	17:06	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:02	16:44	15:55		
5	09:12	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:44	07:51	08:53		
	16:06	17:09	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42	15:54		
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:44	07:46	07:54	08:54		
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54		
7	09:10	08:23	07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56		
	16:09	17:13	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38	15:53		
8	09:10	08:21	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58	08:57		
	16:11	17:16	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:35	15:52		
9	09:09	08:18	07:08	06:44	05:29	04:40	04:50	05:45	06:50	07:52	08:00	08:59		
	16:12	17:18	18:22	20:29	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52		
10	09:08	08:16	07:05	06:41	05:26	04:40	04:52	05:48	06:52	07:54	08:03	09:00		
	16:14	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:31	15:51		
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:02		
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29	15:51		
12	09:06	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:03		
	16:18	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27	15:51		
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09	09:04		
	16:19	17:27	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25	15:50		
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05		13:59 (38)
	16:21	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36	16:23	15:50	3	14:02 (38)
15	09:03	08:05	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14	09:06		13:58 (38)
	16:23	17:32	18:35	20:41	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	5	14:03 (38)
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07		13:57 (38)
	16:25	17:34	18:37	20:44	21:47	22:31	22:18	21:14	19:52	18:30	16:20	15:50	8	14:05 (38)
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08		13:57 (38)
	16:27	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50	9	14:06 (38)
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09		13:58 (38)
	16:29	17:39	18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25	16:16	15:50	9	14:07 (38)
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22	09:10		13:58 (38)
	16:31	17:41	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51	10	14:08 (38)
20	08:56	07:52	06:38	06:15	05:06	04:37	05:07	06:08	07:12	08:16	08:24	09:10		13:59 (38)
	16:33	17:43	18:46	20:52	21:55	22:33	22:12	21:04	19:41	18:20	16:13	15:51	10	14:09 (38)
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27	09:11		13:58 (38)
	16:35	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	15:51	11	14:09 (38)
22	08:53	07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29	09:12		13:59 (38)
	16:37	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52	11	14:10 (38)
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:18	08:22	08:31	09:12		13:59 (38)
	16:40	17:50	18:52	20:59	22:00	22:34	22:06	20:57	19:33	18:13	16:08	15:52	11	14:10 (38)
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		14:00 (38)
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53	10	14:10 (38)
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		14:01 (38)
	16:44	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54	10	14:11 (38)
26	08:47	07:37	06:22	05:59	04:56	04:38	05:18	06:21	07:25	07:29	08:37	09:13		14:02 (38)
	16:46	17:57	18:58	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	15:54	9	14:11 (38)
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39	09:13		14:03 (38)
	16:48	17:59	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55	8	14:11 (38)
28	08:43	07:32	06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:33	08:41	09:13		14:04 (38)
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	15:56	7	14:11 (38)
29	08:41		07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:42	09:13		14:05 (38)
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57	4	14:09 (38)
30	08:39		07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:13		
	16:55		20:07	21:14	22:12	22:33	21:53	20:38	19:13	16:56	15:59	15:58		
31	08:37		07:08		04:49		05:27	06:31		07:40		09:13		
	16:57		20:09		22:14		21:51	20:36		16:53		15:59		
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211		
Total, worst case													135	
Sun reduction													0.23	
Oper. time red.													0.94	
Wind dir. red.													0.68	
Total reduction													0.14	
Total, real													19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DR - Lagzdini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:07	22:34	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DS - Laucinieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:46	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:28	04:41	04:53	05:49	06:52	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:10
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:33	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:48	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:22	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:32	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	533	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DT - Laucini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:29	06:33	07:35	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:24	07:00	05:42	04:46	04:44	05:33	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	15:56
4	09:12	08:30	07:22	06:57	05:40	04:45	04:45	05:35	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:12	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:05	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:50
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:08
	16:25	17:34	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:49	18:28	16:18	15:50
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:09
	16:29	17:39	18:41	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:08	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:11
	16:35	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	15:51
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:50	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:43	06:28	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54
26	08:47	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:54
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:48	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:41		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:27	06:31		07:41		09:14
	16:57		20:09		22:14		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DU - Lazdaine

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:03 (41)	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05 22	08:25 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:03 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07 22	08:25 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:04 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09 21	08:25 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	08:04 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11 20	08:24 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	08:04 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44 08:48 (41)	07:52	08:54
	16:07	17:10	18:13 19	08:23 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00 2 08:50 (41)	16:43	15:55
6	09:12	08:26	07:17	08:04 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46 08:44 (41)	07:54	08:55
	16:08	17:12	18:16 17	08:21 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58 11 08:55 (41)	16:41	15:54
7	09:11	08:24	07:14	08:07 (41)	06:50	05:34	04:43	04:49	05:42	06:46	07:48 08:41 (41)	07:57	08:57
	16:10	17:14	18:18 13	08:20 (41)	20:25	21:29	22:24	22:29	21:37	20:17	18:55 16 08:57 (41)	16:38	15:54
8	09:10	08:21	07:12	08:09 (41)	06:47	05:32	04:42	04:50	05:44	06:48	07:51 08:40 (41)	07:59	08:58
	16:11	17:16	18:20 8	08:17 (41)	20:27	21:31	22:25	22:28	21:34	20:15	18:52 18 08:58 (41)	16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53 08:38 (41)	08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50 20 08:58 (41)	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55 08:37 (41)	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47 21 08:58 (41)	16:32	15:52
11	09:08	08:15	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57 08:37 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44 22 08:59 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59 08:37 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42 22 08:59 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01 08:36 (41)	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39 22 08:58 (41)	16:26	15:51
14	09:05	08:08	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03 08:36 (41)	08:12	09:06
	16:22	17:30	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36 21 08:57 (41)	16:24	15:51
15	09:04	08:05	06:53		06:28	05:17	04:38	04:59	05:59	07:03 07:57 (42)	08:06 08:37 (41)	08:14	09:07
	16:24	17:33	18:35		20:42	21:46	22:31	22:20	21:18	19:55 5 08:02 (42)	18:34 20 08:57 (41)	16:22	15:51
16	09:02	08:03	06:50		06:26	05:15	04:38	05:01	06:01	07:05 07:54 (42)	08:08 08:38 (41)	08:17	09:08
	16:26	17:35	18:38		20:44	21:48	22:32	22:18	21:15	19:53 11 08:05 (42)	18:31 18 08:56 (41)	16:20	15:51
17	09:01	08:00	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07 07:52 (42)	08:10 08:40 (41)	08:19	09:09
	16:28	17:37	18:40 6	07:19 (42)	20:46	21:50	22:32	22:17	21:13	19:50 14 08:06 (42)	18:29 14 08:54 (41)	16:19	15:51
18	09:00	07:58	06:44	07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09 07:50 (42)	08:12 08:43 (41)	08:21	09:10
	16:30	17:40	18:42 10	07:20 (42)	20:49	21:52	22:33	22:15	21:10	19:47 17 08:07 (42)	18:26 10 08:53 (41)	16:17	15:51
19	08:58	07:56	06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11 07:49 (42)	08:14 08:45 (41)	08:23	09:10
	16:32	17:42	18:44 14	07:21 (42)	20:51	21:54	22:33	22:14	21:08	19:44 18 08:07 (42)	18:23 5 08:50 (41)	16:15	15:51
20	08:57	07:53	06:39	07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13 07:48 (42)	08:16	08:25	09:11
	16:34	17:44	18:46 17	07:22 (42)	20:53	21:55	22:34	22:12	21:05	19:42 20 08:08 (42)	18:21	16:14	15:52
21	08:55	07:51	06:36	07:03 (42)	06:13	05:05	04:38	05:09	06:11	07:15 07:48 (42)	08:19	08:27	09:12
	16:36	17:46	18:48 19	07:22 (42)	20:55	21:57	22:34	22:11	21:03	19:39 19 08:07 (42)	18:18	16:12	15:52
22	08:54	07:48	06:34	07:02 (42)	06:10	05:04	04:38	05:11	06:13	07:17 07:47 (42)	08:21	08:29	09:12
	16:38	17:49	18:51 20	07:22 (42)	20:57	21:59	22:34	22:09	21:00	19:36 20 08:07 (42)	18:16	16:10	15:53
23	08:52	07:46 08:13 (41)	06:31	07:01 (42)	06:08	05:02	04:38	05:13	06:15	07:19 07:48 (42)	08:23	08:31	09:13
	16:40	17:51 7 08:20 (41)	18:53 20	07:21 (42)	20:59	22:01	22:34	22:07	20:57	19:33 18 08:06 (42)	18:13	16:09	15:53
24	08:51	07:43 08:10 (41)	06:28	07:02 (42)	06:05	05:00	04:38	05:15	06:17	07:21 07:50 (42)	08:25	08:33	09:13
	16:42	17:53 12 08:22 (41)	18:55 19	07:21 (42)	21:02	22:03	22:34	22:05	20:55	19:31 15 08:05 (42)	18:11	16:07	15:54
25	08:49	07:40 08:08 (41)	06:25	07:02 (42)	06:03	04:59	04:39	05:17	06:19	07:23 07:52 (42)	08:28	08:35	09:14
	16:45	17:56 16 08:24 (41)	18:57 18	07:20 (42)	21:04	22:05	22:34	22:04	20:52	19:28 11 08:03 (42)	17:08	16:06	15:54
26	08:47	07:38 08:05 (41)	06:23	07:03 (42)	06:00	04:57	04:39	05:18	06:21	07:25 07:54 (42)	07:30	08:37	09:14
	16:47	17:58 19 08:24 (41)	18:59 15	07:18 (42)	21:06	22:06	22:34	22:02	20:50	19:25 8 08:02 (42)	17:06	16:05	15:55
27	08:45	07:35 08:04 (41)	06:20	07:04 (42)	05:58	04:56	04:40	05:20	06:24	07:27 07:56 (42)	07:32	08:39	09:14
	16:49	18:00 21 08:25 (41)	19:01 12	07:16 (42)	21:08	22:08	22:34	22:00	20:47	19:22 2 07:58 (42)	17:04	16:03	15:56
28	08:44	07:33 08:04 (41)	06:17	07:07 (42)	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02 22 08:26 (41)	19:03 7	07:14 (42)	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14		05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06		21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12		05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09			04:50		05:28	06:32		07:41		09:14
	16:58		20:10			22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366		428	512	534	534	472	385	322	244	211
Total, worst case		97	319							178	242		
Sun reduction		0.33	0.46							0.50	0.42		
Oper. time red.		0.94	0.94							0.94	0.94		
Wind dir. red.		0.60	0.61							0.62	0.60		
Total reduction		0.19	0.26							0.29	0.24		
Total, real		18	84							52	58		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DV - Lazdkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:14			08:36		09:08 (41)	07:30		08:04 (42)	07:06		05:48	04:49
	16:01			17:00	16	09:24 (41)	18:05	20	08:24 (42)	20:12		21:17	22:16
2	09:14			08:34		09:05 (41)	07:27		08:04 (42)	07:03		05:45	04:48
	16:03			17:03	19	09:24 (41)	18:07	19	08:23 (42)	20:14		21:19	22:17
3	09:13			08:32		09:05 (41)	07:25		08:05 (42)	07:01		05:43	04:47
	16:04			17:05	20	09:25 (41)	18:09	18	08:23 (42)	20:16		21:21	22:19
4	09:13			08:30		09:05 (41)	07:22		08:06 (42)	06:58		05:41	04:45
	16:05			17:07	21	09:26 (41)	18:11	15	08:21 (42)	20:18		21:23	22:20
5	09:12			08:28		09:04 (41)	07:20		08:07 (42)	06:55		05:38	04:44
	16:07			17:09	21	09:25 (41)	18:13	12	08:19 (42)	20:21		21:25	22:21
6	09:12			08:26		09:05 (41)	07:17		08:09 (42)	06:52		05:36	04:44
	16:08			17:12	21	09:26 (41)	18:16	7	08:16 (42)	20:23		21:27	22:23
7	09:11			08:24		09:06 (41)	07:14			06:50		05:34	04:43
	16:10			17:14	20	09:26 (41)	18:18			20:25		21:29	22:24
8	09:10			08:21		09:06 (41)	07:12			06:47		05:32	04:42
	16:11			17:16	19	09:25 (41)	18:20			20:27		21:31	22:25
9	09:10			08:19		09:07 (41)	07:09			06:44		05:29	04:41
	16:13			17:19	18	09:25 (41)	18:22			20:29		21:34	22:26
10	09:09			08:17		09:07 (41)	07:06			06:42		05:27	04:40
	16:15			17:21	17	09:24 (41)	18:25			20:31		21:36	22:27
11	09:08			08:15		09:09 (41)	07:04			06:39		05:25	04:40
	16:16			17:23	14	09:23 (41)	18:27			20:34		21:38	22:28
12	09:07			08:12		09:10 (41)	07:01			06:36		05:23	04:39
	16:18			17:26	11	09:21 (41)	18:29			20:36		21:40	22:29
13	09:06			08:10		09:14 (41)	06:58			06:34		05:21	04:39
	16:20			17:28	4	09:18 (41)	18:31			20:38		21:42	22:30
14	09:05			08:08			06:55			06:31		05:19	04:38
	16:22			17:30			18:33			20:40		21:44	22:31
15	09:04			08:05			06:53			06:28		05:17	04:38
	16:24			17:33			18:35			20:42		21:46	22:31
16	09:02			08:03			06:50			06:26		05:15	04:38
	16:26			17:35			18:38			20:44		21:48	22:32
17	09:01			08:00			06:47			06:23		05:13	04:38
	16:28			17:37			18:40			20:46		21:50	22:32
18	09:00			07:58			06:44			06:20		05:11	04:38
	16:30			17:40			18:42			20:49		21:52	22:33
19	08:58			07:56			06:42			06:18		05:09	04:37
	16:32			17:42			18:44			20:51		21:54	22:33
20	08:57			07:53			06:39			06:15		05:07	04:38
	16:34			17:44			18:46			20:53		21:56	22:34
21	08:55			07:51			06:36			06:13		05:05	04:38
	16:36			17:46			18:48			20:55		21:57	22:34
22	08:54			07:48		08:16 (42)	06:33			06:10		05:04	04:38
	16:38			17:49	3	08:19 (42)	18:51			20:57		21:59	22:34
23	08:52			07:46		08:13 (42)	06:31			06:08		05:02	04:38
	16:40			17:51	8	08:21 (42)	18:53			20:59		22:01	22:34
24	08:51			07:43		08:10 (42)	06:28			06:05		05:00	04:38
	16:42			17:53	12	08:22 (42)	18:55			21:02		22:03	22:34
25	08:49			07:40		08:08 (42)	06:25			06:02		04:59	04:39
	16:45			17:56	16	08:24 (42)	18:57			21:04		22:05	22:34
26	08:47			07:38		08:05 (42)	06:23			06:00		04:57	04:39
	16:47			17:58	19	08:24 (42)	18:59			21:06		22:06	22:34
27	08:45			07:35		08:04 (42)	06:20			05:57		04:56	04:40
	16:49			18:00	20	08:24 (42)	19:01			21:08		22:08	22:34
28	08:44		09:16 (41)	07:33		08:04 (42)	06:17			05:55		04:54	04:40
	16:51	1	09:17 (41)	18:02	20	08:24 (42)	19:03			21:10		22:10	22:34
29	08:42		09:14 (41)				07:14			05:53		04:53	04:41
	16:53	6	09:20 (41)				20:06			21:12		22:11	22:34
30	08:40		09:12 (41)				07:12			05:50		04:51	04:42
	16:56	10	09:22 (41)				20:08			21:14		22:13	22:33
31	08:38		09:10 (41)				07:09					04:50	
	16:58	13	09:23 (41)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		30			319			91					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.58			0.59			0.60					
Total reduction		0.15			0.18			0.26					
Total, real		4			59			23					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DV - Lazdkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December
1	04:42	05:30	06:34	07:36		07:43	08:36 (41)	08:47
	22:33	21:50	20:34	19:11		16:52	18 08:54 (41)	15:59
2	04:43	05:32	06:36	07:38		07:45	08:36 (41)	08:49
	22:32	21:48	20:31	19:09		16:49	19 08:55 (41)	15:58
3	04:44	05:34	06:38	07:40		07:48	08:35 (41)	08:50
	22:32	21:46	20:28	19:06		16:47	20 08:55 (41)	15:57
4	04:45	05:36	06:40	07:42		07:50	08:35 (41)	08:52
	22:31	21:43	20:26	19:03		16:45	21 08:56 (41)	15:56
5	04:46	05:38	06:42	07:44		07:52	08:35 (41)	08:54
	22:30	21:41	20:23	19:00		16:43	21 08:56 (41)	15:55
6	04:47	05:40	06:44	07:46		07:54	08:35 (41)	08:55
	22:30	21:39	20:20	18:58		16:40	21 08:56 (41)	15:54
7	04:48	05:42	06:46	07:48		07:57	08:35 (41)	08:57
	22:29	21:37	20:17	18:55		16:38	21 08:56 (41)	15:54
8	04:50	05:44	06:48	07:51	08:43 (42)	07:59	08:36 (41)	08:58
	22:28	21:34	20:15	18:52	10 08:53 (42)	16:36	20 08:56 (41)	15:53
9	04:51	05:46	06:50	07:53	08:41 (42)	08:01	08:36 (41)	09:00
	22:27	21:32	20:12	18:50	14 08:55 (42)	16:34	19 08:55 (41)	15:53
10	04:52	05:48	06:52	07:55	08:39 (42)	08:03	08:39 (41)	09:01
	22:26	21:30	20:09	18:47	17 08:56 (42)	16:32	16 08:55 (41)	15:52
11	04:54	05:50	06:55	07:57	08:39 (42)	08:06	08:41 (41)	09:02
	22:25	21:27	20:06	18:44	18 08:57 (42)	16:30	13 08:54 (41)	15:52
12	04:55	05:52	06:57	07:59	08:38 (42)	08:08	08:44 (41)	09:04
	22:24	21:25	20:04	18:42	19 08:57 (42)	16:28	9 08:53 (41)	15:51
13	04:56	05:54	06:59	08:01	08:37 (42)	08:10	08:46 (41)	09:05
	22:22	21:23	20:01	18:39	20 08:57 (42)	16:26	6 08:52 (41)	15:51
14	04:58	05:57	07:01	08:03	08:36 (42)	08:12	08:49 (41)	09:06
	22:21	21:20	19:58	18:36	20 08:56 (42)	16:24	1 08:50 (41)	15:51
15	04:59	05:59	07:03	08:06	08:37 (42)	08:14		09:07
	22:20	21:18	19:55	18:34	20 08:57 (42)	16:22		15:51
16	05:01	06:01	07:05	08:08	08:38 (42)	08:17		09:08
	22:18	21:15	19:53	18:31	18 08:56 (42)	16:20		15:51
17	05:03	06:03	07:07	08:10	08:40 (42)	08:19		09:09
	22:17	21:13	19:50	18:29	14 08:54 (42)	16:19		15:51
18	05:04	06:05	07:09	08:12	08:43 (42)	08:21		09:10
	22:15	21:10	19:47	18:26	11 08:54 (42)	16:17		15:51
19	05:06	06:07	07:11	08:14	08:45 (42)	08:23		09:10
	22:14	21:08	19:44	18:23	7 08:52 (42)	16:15		15:51
20	05:08	06:09	07:13	08:16	08:47 (42)	08:25		09:11
	22:12	21:05	19:42	18:21	1 08:48 (42)	16:14		15:52
21	05:09	06:11	07:15	08:19		08:27		09:12
	22:11	21:03	19:39	18:18		16:12		15:52
22	05:11	06:13	07:17	08:21		08:29		09:12
	22:09	21:00	19:36	18:16		16:10		15:52
23	05:13	06:15	07:19	08:23		08:31		09:13
	22:07	20:57	19:33	18:13		16:09		15:53
24	05:15	06:17	07:21	08:25		08:33		09:13
	22:05	20:55	19:31	18:11		16:07		15:54
25	05:17	06:19	07:23	07:28		08:35		09:14
	22:04	20:52	19:28	17:08		16:06		15:54
26	05:18	06:21	07:25	07:30		08:37		09:14
	22:02	20:50	19:25	17:06		16:05		15:55
27	05:20	06:24	07:27	07:32		08:39		09:14
	22:00	20:47	19:22	17:03		16:03		15:56
28	05:22	06:26	07:30	07:34		08:41		09:14
	21:58	20:44	19:20	17:01		16:02		15:57
29	05:24	06:28	07:32	07:36	08:42 (41)	08:43		09:14
	21:56	20:42	19:17	16:59	7 08:49 (41)	16:01		15:58
30	05:26	06:30	07:34	07:39	08:39 (41)	08:45		09:14
	21:54	20:39	19:14	16:56	12 08:51 (41)	16:00		15:59
31	05:28	06:32		07:41	08:38 (41)			09:14
	21:52	20:36		16:54	15 08:53 (41)			16:00
Potential sun hours	534	472	385	322		244		211
Total, worst case				223		225		
Sun reduction				0.42		0.23		
Oper. time red.				0.94		0.94		
Wind dir. red.				0.60		0.58		
Total reduction				0.24		0.13		
Total, real				53		28		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DW - Leišī

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:05	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:08	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:43	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:43	04:50	05:45	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:52	05:47	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:41	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:36	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:40	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:59	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:36	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:52
16	09:02	08:03	06:50	06:26	05:15	04:39	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:52
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:38	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:10	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:16	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:03	04:39	05:13	06:16	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:07	22:34	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:51	04:52	04:42	05:27	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:29	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	533	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DX - Lielbrie ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April			May			June	July			August			September	October	November	December
1	09:13	08:36	07:30	07:06			05:48		06:18 (29)	04:49	04:43			05:30		06:29 (29)	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12			21:16	22	06:40 (29)	22:15	22:32			21:49	20	06:49 (29)	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03			05:46		06:18 (29)	04:48	04:44			05:32		06:29 (29)	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14			21:18	23	06:41 (29)	22:17	22:32			21:47	21	06:50 (29)	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01			05:43		06:18 (29)	04:47	04:45			05:34		06:28 (29)	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16			21:21	23	06:41 (29)	22:18	22:31			21:45	23	06:51 (29)	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58			05:41		06:17 (29)	04:46	04:46			05:36		06:27 (29)	06:40	07:42	07:50	08:52
	16:06	17:08	18:11	20:18			21:23	25	06:42 (29)	22:20	22:31			21:43	23	06:50 (29)	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55			05:39		06:17 (29)	04:45	04:47			05:38		06:27 (29)	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21			21:25	25	06:42 (29)	22:21	22:30			21:41	24	06:51 (29)	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53			05:36		06:17 (29)	04:44	04:48			05:40		06:27 (29)	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23			21:27	25	06:42 (29)	22:22	22:29			21:39	24	06:51 (29)	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50			05:34		06:17 (29)	04:43	04:49			05:42		06:27 (29)	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25			21:29	25	06:42 (29)	22:23	22:28			21:36	24	06:51 (29)	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47			05:32		06:18 (29)	04:42	04:50			05:45		06:27 (29)	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27			21:31	23	06:41 (29)	22:25	22:27			21:34	24	06:51 (29)	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45			05:30		06:18 (29)	04:42	04:52			05:47		06:27 (29)	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29			21:33	23	06:41 (29)	22:26	22:26			21:32	24	06:51 (29)	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42			05:28		06:18 (29)	04:41	04:53			05:49		06:27 (29)	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31			21:35	22	06:40 (29)	22:27	22:25			21:29	24	06:51 (29)	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39			05:25		06:19 (29)	04:40	04:54			05:51		06:28 (29)	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33			21:37	21	06:40 (29)	22:28	22:24			21:27	22	06:50 (29)	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36			05:23		06:19 (29)	04:40	04:56			05:53		06:27 (29)	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36			21:39	20	06:39 (29)	22:28	22:23			21:25	21	06:48 (29)	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34			05:21		06:20 (29)	04:39	04:57			05:55		06:28 (29)	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38			21:41	18	06:38 (29)	22:29	22:22			21:22	20	06:48 (29)	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31			05:19		06:21 (29)	04:39	04:58			05:57		06:29 (29)	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40			21:43	15	06:36 (29)	22:30	22:21			21:20	17	06:46 (29)	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29			05:17		06:22 (29)	04:39	05:00			05:59		06:31 (29)	07:03	08:06	08:14	09:06
	16:24	17:33	18:36	20:42			21:45	13	06:35 (29)	22:31	22:19			21:17	14	06:45 (29)	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26			05:15		06:25 (29)	04:38	05:02			06:01		06:33 (29)	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44			21:47	9	06:34 (29)	22:31	22:18			21:15	10	06:43 (29)	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23			05:13			04:38	05:03			06:03			07:07	08:10	08:18	09:08
	16:28	17:38	18:40	20:46			21:49			22:32	22:16			21:13			19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21			05:11			04:38	05:05			06:05			07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48			21:51			22:32	22:15			21:10			19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18			05:09			04:38	05:06			06:07			07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51			21:53			22:33	22:13			21:07			19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15			05:08			04:38	05:08			06:09			07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53			21:55			22:33	22:12			21:05			19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13			05:06			04:38	05:10			06:11			07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55			21:57			22:33	22:10			21:02			19:39	18:19	16:12	15:53
22	08:54	07:48	06:34	06:10			05:04			04:38	05:12			06:13			07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57			21:59			22:34	22:09			21:00			19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08			05:02			04:39	05:13			06:15			07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59			22:01			22:34	22:07			20:57			19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05			05:01			04:39	05:15			06:18			07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01			22:02			22:34	22:05			20:55			19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03			04:59			04:39	05:17			06:20			07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03			22:04			22:34	22:03			20:52			19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00		06:29 (29)	04:58			04:40	05:19			06:22			07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	4	06:33 (29)	22:06			22:34	22:01			20:49			19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58		06:26 (29)	04:56			04:40	05:21		06:36 (29)	06:24			07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	11	06:37 (29)	22:08			22:34	21:59	6	06:42 (29)	20:47			19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55		06:23 (29)	04:55			04:41	05:23		06:34 (29)	06:26			07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	15	06:38 (29)	22:09			22:33	21:58	11	06:45 (29)	20:44			19:20	17:01	16:03	15:57
29	08:42		07:14	05:53		06:21 (29)	04:53			04:42	05:25		06:33 (29)	06:28			07:32	07:36	08:43	09:14
	16:54		20:06	21:12	18	06:39 (29)	22:11			22:33	21:56	14	06:47 (29)	20:42			19:17	16:59	16:01	15:58
30	08:40		07:12	05:51		06:20 (29)	04:52			04:42	05:27		06:31 (29)	06:30			07:34	07:39	08:45	09:14
	16:56		20:08	21:14	20	06:40 (29)	22:12			22:33	21:54	16	06:47 (29)	20:39			19:14	16:57	16:00	15:59
31	08:38		07:09				04:51				05:28		06:30 (29)	06:32				07:41		09:14
	16:58		20:10				22:14				21:52	18	06:48 (29)	20:36				16:54		16:00
Potential sun hours	231	264	366	428			511			534	534			472			385	322	244	212
Total, worst case					68			332				65			335					
Sun reduction					0.55			0.61				0.60			0.59					
Oper. time red.					0.94			0.94				0.94			0.94					
Wind dir. red.					0.66			0.66				0.66			0.66					
Total reduction					0.34			0.38				0.37			0.36					
Total, real					23			127				24			122					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DY - Liepas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:30	04:41	04:51	05:46	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:41	04:53	05:48	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:38	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:15	15:52
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:48	20:55	21:57	22:34	22:10	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:57	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:54	04:41	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: DZ - Liepnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		13:53 (1)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43			08:47		13:43 (1)
	16:01	27	14:20 (1)	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51			15:58	20	14:03 (1)
2	09:13		13:53 (1)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		13:42 (1)
	16:02	27	14:20 (1)	17:02	18:06	20:14	21:19	22:17	22:32	21:47	20:31	19:08	16:49			15:57	22	14:04 (1)
3	09:13		13:54 (1)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		13:42 (1)
	16:04	27	14:21 (1)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:56	23	14:05 (1)
4	09:13		13:55 (1)	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		13:42 (1)
	16:05	26	14:21 (1)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45			15:56	24	14:06 (1)
5	09:12		13:55 (1)	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		13:41 (1)
	16:06	26	14:21 (1)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42			15:55	25	14:06 (1)
6	09:12		13:56 (1)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		13:42 (1)
	16:08	25	14:21 (1)	17:11	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:57	16:40			15:54	25	14:07 (1)
7	09:11		13:56 (1)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:57		13:42 (1)
	16:09	25	14:21 (1)	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38			15:53	26	14:08 (1)
8	09:10		13:57 (1)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		13:43 (1)
	16:11	24	14:21 (1)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	26	14:09 (1)
9	09:09		13:58 (1)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01			08:59		13:42 (1)
	16:13	23	14:21 (1)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	27	14:09 (1)
10	09:09		13:59 (1)	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		13:43 (1)
	16:14	22	14:21 (1)	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32			15:52	27	14:10 (1)
11	09:08		14:00 (1)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		13:43 (1)
	16:16	21	14:21 (1)	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30			15:51	27	14:10 (1)
12	09:07		14:02 (1)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:03		13:43 (1)
	16:18	19	14:21 (1)	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:03	18:41	16:28			15:51	28	14:11 (1)
13	09:06		14:02 (1)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:05		13:44 (1)
	16:20	18	14:20 (1)	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26			15:51	28	14:12 (1)
14	09:05		14:04 (1)	08:07	06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03	08:12			09:06		13:44 (1)
	16:22	16	14:20 (1)	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24			15:51	28	14:12 (1)
15	09:03		14:06 (1)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		13:44 (1)
	16:23	12	14:18 (1)	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:34	16:22			15:51	29	14:13 (1)
16	09:02		14:09 (1)	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:08	08:16			09:08		13:45 (1)
	16:25	8	14:17 (1)	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20			15:51	28	14:13 (1)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19			09:09		13:45 (1)
	16:27			17:37	18:40	20:46	21:50	22:32	22:17	21:12	19:50	18:28	16:18			15:51	29	14:14 (1)
18	09:00			07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21			09:10		13:46 (1)
	16:29			17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17			15:51	28	14:14 (1)
19	08:58			07:55	06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23			09:10		13:46 (1)
	16:31			17:42	18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15			15:51	29	14:15 (1)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		13:46 (1)
	16:34			17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13			15:51	29	14:15 (1)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:12		13:47 (1)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12			15:52	29	14:16 (1)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29			09:12		13:47 (1)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10			15:52	29	14:16 (1)
23	08:52			07:45	06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31			09:13		13:48 (1)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09			15:53	29	14:17 (1)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33			09:13		13:48 (1)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07			15:53	29	14:17 (1)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35			09:13		13:49 (1)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06			15:54	28	14:17 (1)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37		13:47 (1)	09:14		13:49 (1)
	16:46			17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	8	13:55 (1)	15:55	28	14:17 (1)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		13:45 (1)	09:14		13:50 (1)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	12	13:57 (1)	15:55	28	14:18 (1)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		13:44 (1)	09:14		13:50 (1)
	16:51			18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15	13:59 (1)	15:56	28	14:18 (1)
29	08:42				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43		13:44 (1)	09:14		13:51 (1)
	16:53				20:05	21:12	22:11	22:34	21:56	20:41	19:17	16:58	16:01	17	14:01 (1)	15:57	28	14:19 (1)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		13:43 (1)	09:14		13:52 (1)
	16:55				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	19	14:02 (1)	15:58	28	14:20 (1)
31	08:38				07:09		04:50		05:28	06:32		07:41				09:14		13:52 (1)
	16:58				20:10		22:14		21:52	20:36		16:54				15:59	27	14:19 (1)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		346												71			839	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.68												0.68			0.68	
Total reduction		0.17												0.15			0.14	
Total, real		60												10			120	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EA - Liepzari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:14	08:36		07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36		07:43	08:16 (41)	08:47
	16:01	17:00		18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11		16:52	18 08:34 (41)	15:59
2	09:14	08:34		07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38		07:45	08:19 (41)	08:49
	16:03	17:03		18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09		16:49	15 08:34 (41)	15:58
3	09:13	08:32		07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:21 (41)	08:50
	16:04	17:05		18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06		16:47	11 08:32 (41)	15:57
4	09:13	08:30		07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42		07:50	08:24 (41)	08:52
	16:05	17:07		18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	8 08:32 (41)	15:56
5	09:12	08:28		07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44		07:52	08:26 (41)	08:54
	16:07	17:09		18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00		16:43	3 08:29 (41)	15:55
6	09:12	08:26	08:56 (41)	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46		07:54		08:55
	16:08	17:12	4 09:00 (41)	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58		16:40		15:54
7	09:11	08:24	08:54 (41)	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48		07:57		08:57
	16:10	17:14	8 09:02 (41)	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55		16:38		15:54
8	09:10	08:21	08:51 (41)	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59		08:58
	16:11	17:16	12 09:03 (41)	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52		16:36		15:53
9	09:10	08:19	08:49 (41)	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53		08:01		09:00
	16:13	17:19	15 09:04 (41)	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50		16:34		15:53
10	09:09	08:17	08:46 (41)	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55		08:03		09:01
	16:15	17:21	18 09:04 (41)	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47		16:32		15:52
11	09:08	08:15	08:46 (41)	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57		08:06		09:02
	16:16	17:23	19 09:05 (41)	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44		16:30		15:52
12	09:07	08:12	08:45 (41)	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59		08:08		09:04
	16:18	17:26	20 09:05 (41)	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42		16:28		15:51
13	09:06	08:10	08:45 (41)	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01		08:10		09:05
	16:20	17:28	20 09:05 (41)	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39		16:26		15:51
14	09:05	08:08	08:45 (41)	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03		08:12		09:06
	16:22	17:30	20 09:05 (41)	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36		16:24		15:51
15	09:04	08:05	08:46 (41)	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06		08:14		09:07
	16:24	17:33	19 09:05 (41)	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34		16:22		15:51
16	09:02	08:03	08:46 (41)	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08		08:17		09:08
	16:26	17:35	18 09:04 (41)	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31		16:20		15:51
17	09:01	08:00	08:48 (41)	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10		08:19		09:09
	16:28	17:37	15 09:03 (41)	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29		16:19		15:51
18	09:00	07:58	08:49 (41)	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12		08:21		09:10
	16:30	17:40	12 09:01 (41)	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26		16:17		15:51
19	08:58	07:56	08:52 (41)	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14		08:23		09:10
	16:32	17:42	8 09:00 (41)	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23		16:15		15:51
20	08:57	07:53		06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16		08:25		09:11
	16:34	17:44		18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21		16:14		15:52
21	08:55	07:51		06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19		08:27		09:12
	16:36	17:46		18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18		16:12		15:52
22	08:54	07:48		06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21		08:29		09:12
	16:38	17:49		18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16		16:10		15:52
23	08:52	07:46		06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	09:20 (41)	08:31		09:13
	16:40	17:51		18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	10 09:30 (41)	16:09		15:53
24	08:51	07:43		06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	09:19 (41)	08:33		09:13
	16:42	17:53		18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	13 09:32 (41)	16:07		15:54
25	08:49	07:40		06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:28	08:17 (41)	08:35		09:14
	16:45	17:56		18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16 08:33 (41)	16:06		15:54
26	08:47	07:38		06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:16 (41)	08:37		09:14
	16:47	17:58		18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	18 08:34 (41)	16:05		15:55
27	08:46	07:35		06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:15 (41)	08:39		09:14
	16:49	18:00		19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	19 08:34 (41)	16:03		15:56
28	08:44	07:33		06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:15 (41)	08:41		09:14
	16:51	18:02		19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	20 08:35 (41)	16:02		15:57
29	08:42			07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:15 (41)	08:43		09:14
	16:53			20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	20 08:35 (41)	16:01		15:58
30	08:40			07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:14 (41)	08:45		09:14
	16:56			20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	20 08:34 (41)	16:00		15:59
31	08:38			07:09		04:50		05:28	06:32		07:41	08:15 (41)			09:14
	16:58			20:10		22:14		21:52	20:36		16:54	20 08:35 (41)			16:00
Potential sun hours	231	264		366	428	512	534	534	472	385	322		244		211
Total, worst case			208									156		55	
Sun reduction			0.33									0.42		0.23	
Oper. time red.			0.94									0.94		0.94	
Wind dir. red.			0.59									0.59		0.59	
Total reduction			0.19									0.24		0.13	
Total, real			39									37		7	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EB - Lici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:33	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	533	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EC - Maki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:19	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	09:00
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22	15:51
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:08	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19	09:09
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:04	07:09	08:12	08:21	09:10
	16:29	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10
	16:31	17:42	18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:44	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:41	19:17	16:58	16:01	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ED - Maurini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:22	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:31	04:42	04:49	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:11
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:13	15:51
21	08:55	07:51	06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:35	22:05	20:55	19:31	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:28	08:36	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	15:55
27	08:46	07:35	06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EE - Mazabelnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		13:29 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:29	06:33	07:35	07:43			08:46		13:21 (35)
	16:01	24	13:53 (35)	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:51			15:58	11	13:32 (35)
2	09:13		13:29 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45			08:48		13:20 (35)
	16:02	24	13:53 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49			15:57	14	13:34 (35)
3	09:13		13:29 (35)	08:32	07:24	07:00	05:42	04:46	04:44	05:33	06:38	07:40	07:47			08:50		13:19 (35)
	16:03	24	13:53 (35)	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	16	13:35 (35)
4	09:12		13:31 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:40	07:42	07:49			08:52		13:19 (35)
	16:05	23	13:54 (35)	17:07	18:11	20:18	21:22	22:20	22:31	21:43	20:25	19:03	16:44			15:55	18	13:37 (35)
5	09:12		13:31 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:37	06:42	07:44	07:52			08:53		13:18 (35)
	16:06	22	13:53 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	20	13:38 (35)
6	09:11		13:32 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		13:18 (35)
	16:08	21	13:53 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	21	13:39 (35)
7	09:11		13:33 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		13:19 (35)
	16:09	20	13:53 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	21	13:40 (35)
8	09:10		13:34 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		13:18 (35)
	16:11	19	13:53 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	23	13:41 (35)
9	09:09		13:36 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		13:18 (35)
	16:12	16	13:52 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:11	18:49	16:34			15:52	24	13:42 (35)
10	09:08		13:37 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		13:18 (35)
	16:14	15	13:52 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:46	16:32			15:52	24	13:42 (35)
11	09:07		13:38 (35)	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05			09:02		13:19 (35)
	16:16	12	13:50 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:29			15:51	24	13:43 (35)
12	09:06		13:41 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		13:19 (35)
	16:18	8	13:49 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:24	20:03	18:41	16:27			15:51	25	13:44 (35)
13	09:05			08:09	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		13:19 (35)
	16:20			17:27	18:31	20:37	21:41	22:29	22:22	21:22	20:00	18:39	16:26			15:51	25	13:44 (35)
14	09:04			08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		13:20 (35)
	16:21			17:30	18:33	20:39	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:50	25	13:45 (35)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:06		13:20 (35)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	26	13:46 (35)
16	09:02			08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		13:20 (35)
	16:25			17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20			15:50	26	13:46 (35)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		13:21 (35)
	16:27			17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	26	13:47 (35)
18	08:59			07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:20			09:09		13:21 (35)
	16:29			17:39	18:41	20:48	21:51	22:32	22:15	21:10	19:47	18:25	16:16			15:51	27	13:48 (35)
19	08:58			07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:23			09:10		13:21 (35)
	16:31			17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	27	13:48 (35)
20	08:56			07:53	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25			09:11		13:22 (35)
	16:33			17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13			15:51	26	13:48 (35)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:11		13:22 (35)
	16:35			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11			15:51	27	13:49 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29			09:12		13:22 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10			15:52	27	13:49 (35)
23	08:52			07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31			09:12		13:22 (35)
	16:40			17:50	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08			15:52	27	13:49 (35)
24	08:50			07:43	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33			09:13		13:24 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07			15:53	26	13:50 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35			09:13		13:24 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05			15:54	27	13:51 (35)
26	08:47			07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37			09:13		13:24 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04			15:54	27	13:51 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39			09:14		13:25 (35)
	16:48			18:00	19:01	21:07	22:08	22:34	21:59	20:47	19:22	17:03	16:03			15:55	26	13:51 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41			09:14		13:26 (35)
	16:51			18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02			15:56	26	13:52 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43			09:14		13:26 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00			15:57	26	13:52 (35)
30	08:39				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		13:22 (35)	09:14		13:27 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	8	13:30 (35)	15:58	26	13:53 (35)
31	08:38				07:08		04:50		05:27	06:31		07:40				09:14		13:27 (35)
	16:57				20:09		22:14		21:51	20:36		16:53				15:59	25	13:52 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		228												8			739	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.66												0.66			0.66	
Total reduction		0.17												0.14			0.14	
Total, real		39												1			104	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EF - Mazabelnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:14		10:48 (41)	08:36		09:11 (2)	07:30		08:16 (43)	07:06		05:48	04:49
	16:01	20	11:08 (41)	17:00	45	10:05 (42)	18:04	25	08:41 (43)	20:12		21:17	22:16
2	09:14		10:49 (41)	08:34		09:09 (2)	07:27		08:17 (43)	07:03		05:45	04:48
	16:03	19	11:08 (41)	17:02	47	10:04 (42)	18:07	23	08:40 (43)	20:14		21:19	22:17
3	09:13		10:50 (41)	08:32		09:09 (2)	07:25		08:17 (43)	07:01		05:43	04:46
	16:04	19	11:09 (41)	17:05	47	10:04 (42)	18:09	21	08:38 (43)	20:16		21:21	22:19
4	09:13		10:51 (41)	08:30		09:09 (2)	07:22		08:19 (43)	06:58		05:41	04:45
	16:05	18	11:09 (41)	17:07	47	10:04 (42)	18:11	19	08:38 (43)	20:18		21:23	22:20
5	09:12		10:52 (41)	08:28		09:08 (2)	07:20		08:20 (43)	06:55		05:38	04:44
	16:07	16	11:08 (41)	17:09	46	10:02 (42)	18:13	15	08:35 (43)	20:21		21:25	22:21
6	09:12		10:52 (41)	08:26		09:08 (2)	07:17		08:22 (43)	06:52		05:36	04:43
	16:08	16	11:08 (41)	17:12	44	10:01 (42)	18:16	10	08:32 (43)	20:23		21:27	22:23
7	09:11		10:54 (41)	08:23		09:08 (2)	07:14			06:50		05:34	04:43
	16:10	14	11:08 (41)	17:14	42	10:00 (42)	18:18			20:25		21:29	22:24
8	09:10		10:55 (41)	08:21		09:07 (2)	07:12			06:47		05:31	04:42
	16:11	12	11:07 (41)	17:16	35	09:56 (42)	18:20			20:27		21:31	22:25
9	09:10		10:57 (41)	08:19		09:08 (2)	07:09			06:44		05:29	04:41
	16:13	9	11:06 (41)	17:19	27	09:35 (2)	18:22			20:29		21:33	22:26
10	09:09		10:59 (41)	08:17		09:07 (2)	07:06			06:42		05:27	04:40
	16:15	6	11:05 (41)	17:21	27	09:34 (2)	18:24			20:31		21:36	22:27
11	09:08			08:15		09:08 (2)	07:03			06:39		05:25	04:40
	16:16			17:23	26	09:34 (2)	18:27			20:33		21:38	22:28
12	09:07			08:12		09:08 (2)	07:01			06:36		05:23	04:39
	16:18			17:26	25	09:33 (2)	18:29			20:36		21:40	22:29
13	09:06			08:10		09:09 (2)	06:58			06:34		05:21	04:39
	16:20			17:28	24	09:33 (2)	18:31			20:38		21:42	22:30
14	09:05		09:43 (42)	08:08		09:10 (2)	06:55			06:31		05:19	04:38
	16:22	8	09:51 (42)	17:30	22	09:32 (2)	18:33			20:40		21:44	22:31
15	09:04		09:41 (42)	08:05		09:11 (2)	06:53			06:28		05:17	04:38
	16:24	12	09:53 (42)	17:33	20	09:31 (2)	18:35			20:42		21:46	22:31
16	09:02		09:40 (42)	08:03		09:12 (2)	06:50			06:26		05:15	04:38
	16:26	15	09:55 (42)	17:35	17	09:29 (2)	18:38			20:44		21:48	22:32
17	09:01		09:39 (42)	08:00		09:15 (2)	06:47			06:23		05:13	04:38
	16:28	17	09:56 (42)	17:37	13	09:28 (2)	18:40			20:46		21:50	22:32
18	09:00		09:38 (42)	07:58		08:26 (43)	06:44			06:20		05:11	04:37
	16:30	19	09:57 (42)	17:39	11	09:23 (2)	18:42			20:49		21:52	22:33
19	08:58		09:38 (42)	07:55		08:24 (43)	06:42			06:18		05:09	04:37
	16:32	21	09:59 (42)	17:42	13	08:37 (43)	18:44			20:51		21:54	22:33
20	08:57		09:38 (42)	07:53		08:21 (43)	06:39			06:15		05:07	04:37
	16:34	22	10:00 (42)	17:44	17	08:38 (43)	18:46			20:53		21:55	22:34
21	08:55		09:37 (42)	07:51		08:19 (43)	06:36			06:13		05:05	04:38
	16:36	24	10:01 (42)	17:46	20	08:39 (43)	18:48			20:55		21:57	22:34
22	08:54		09:37 (42)	07:48		08:19 (43)	06:33			06:10		05:04	04:38
	16:38	24	10:01 (42)	17:49	22	08:41 (43)	18:51			20:57		21:59	22:34
23	08:52		09:36 (42)	07:45		08:18 (43)	06:31			06:07		05:02	04:38
	16:40	26	10:02 (42)	17:51	23	08:41 (43)	18:53			20:59		22:01	22:34
24	08:51		09:37 (42)	07:43		08:17 (43)	06:28			06:05		05:00	04:38
	16:42	27	10:04 (42)	17:53	24	08:41 (43)	18:55			21:01		22:03	22:34
25	08:49		09:37 (42)	07:40		08:17 (43)	06:25			06:02		04:59	04:39
	16:44	27	10:04 (42)	17:55	25	08:42 (43)	18:57			21:04		22:05	22:34
26	08:47		09:36 (42)	07:38		08:16 (43)	06:22			06:00		04:57	04:39
	16:47	28	10:04 (42)	17:58	26	08:42 (43)	18:59			21:06		22:06	22:34
27	08:45		09:36 (42)	07:35		08:16 (43)	06:20			05:57		04:56	04:40
	16:49	28	10:04 (42)	18:00	25	08:41 (43)	19:01			21:08		22:08	22:34
28	08:44		09:37 (42)	07:33		08:16 (43)	06:17			05:55		04:54	04:40
	16:51	27	10:04 (42)	18:02	26	08:42 (43)	19:03			21:10		22:10	22:34
29	08:42		09:15 (2)				07:14			05:53		04:53	04:41
	16:53	37	10:05 (42)				20:06			21:12		22:11	22:34
30	08:40		09:13 (2)				07:11			05:50		04:51	04:42
	16:56	42	10:05 (42)				20:08			21:14		22:13	22:33
31	08:38		09:12 (2)				07:09					04:50	
	16:58	44	10:05 (42)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		597			786			113					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.59			0.58			0.60					
Total reduction		0.15			0.18			0.26					
Total, real		90			144			29					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EF - Mazabelnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:30	06:34	07:36			07:43		08:37 (2)	08:47		
	22:33	21:50	20:34	19:11			16:52	27	09:04 (2)	15:59		
2	04:43	05:32	06:36	07:38			07:45		08:37 (2)	08:49		10:43 (41)
	22:32	21:48	20:31	19:09			16:49	27	09:04 (2)	15:58	5	10:48 (41)
3	04:44	05:34	06:38	07:40			07:48		08:37 (2)	08:50		10:41 (41)
	22:32	21:45	20:28	19:06			16:47	37	09:27 (42)	15:57	9	10:50 (41)
4	04:45	05:36	06:40	07:42			07:50		08:38 (2)	08:52		10:40 (41)
	22:31	21:43	20:26	19:03			16:45	41	09:30 (42)	15:56	12	10:52 (41)
5	04:46	05:38	06:42	07:44			07:52		08:37 (2)	08:54		10:40 (41)
	22:30	21:41	20:23	19:00			16:43	44	09:31 (42)	15:55	14	10:54 (41)
6	04:47	05:40	06:44	07:46			07:54		08:38 (2)	08:55		10:39 (41)
	22:30	21:39	20:20	18:58			16:40	47	09:33 (42)	15:54	15	10:54 (41)
7	04:48	05:42	06:46	07:48		09:01 (43)	07:57		08:38 (2)	08:57		10:39 (41)
	22:29	21:37	20:17	18:55	5	09:06 (43)	16:38	48	09:33 (42)	15:54	16	10:55 (41)
8	04:50	05:44	06:48	07:51		08:56 (43)	07:59		08:40 (2)	08:58		10:39 (41)
	22:28	21:34	20:15	18:52	13	09:09 (43)	16:36	48	09:35 (42)	15:53	18	10:57 (41)
9	04:51	05:46	06:50	07:53		08:54 (43)	08:01		08:40 (2)	09:00		10:38 (41)
	22:27	21:32	20:12	18:50	17	09:11 (43)	16:34	47	09:35 (42)	15:52	19	10:57 (41)
10	04:52	05:48	06:52	07:55		08:52 (43)	08:03		08:42 (2)	09:01		10:39 (41)
	22:26	21:30	20:09	18:47	20	09:12 (43)	16:32	45	09:36 (42)	15:52	19	10:58 (41)
11	04:53	05:50	06:54	07:57		08:51 (43)	08:06		08:43 (2)	09:02		10:39 (41)
	22:25	21:27	20:06	18:44	23	09:14 (43)	16:30	43	09:36 (42)	15:52	20	10:59 (41)
12	04:55	05:52	06:56	07:59		08:50 (43)	08:08		08:45 (2)	09:04		10:39 (41)
	22:24	21:25	20:04	18:42	24	09:14 (43)	16:28	41	09:37 (42)	15:51	21	11:00 (41)
13	04:56	05:54	06:59	08:01		08:49 (43)	08:10		08:47 (2)	09:05		10:39 (41)
	22:22	21:22	20:01	18:39	25	09:14 (43)	16:26	36	09:37 (42)	15:51	21	11:00 (41)
14	04:58	05:56	07:01	08:03		08:48 (43)	08:12		09:09 (42)	09:06		10:39 (41)
	22:21	21:20	19:58	18:36	26	09:14 (43)	16:24	28	09:37 (42)	15:51	22	11:01 (41)
15	04:59	05:59	07:03	08:06		08:49 (43)	08:14		09:09 (42)	09:07		10:40 (41)
	22:20	21:18	19:55	18:34	25	09:14 (43)	16:22	28	09:37 (42)	15:51	21	11:01 (41)
16	05:01	06:01	07:05	08:08		08:48 (43)	08:17		09:10 (42)	09:08		10:40 (41)
	22:18	21:15	19:53	18:31	26	09:14 (43)	16:20	28	09:38 (42)	15:51	22	11:02 (41)
17	05:02	06:03	07:07	08:10		08:48 (43)	08:19		09:10 (42)	09:09		10:40 (41)
	22:17	21:13	19:50	18:29	25	09:13 (43)	16:19	27	09:37 (42)	15:51	22	11:02 (41)
18	05:04	06:05	07:09	08:12		08:49 (43)	08:21		09:10 (42)	09:10		10:41 (41)
	22:15	21:10	19:47	18:26	24	09:13 (43)	16:17	27	09:37 (42)	15:51	22	11:03 (41)
19	05:06	06:07	07:11	08:14		08:49 (43)	08:23		09:11 (42)	09:10		10:42 (41)
	22:14	21:08	19:44	18:23	23	09:12 (43)	16:15	26	09:37 (42)	15:51	22	11:04 (41)
20	05:08	06:09	07:13	08:16		08:49 (43)	08:25		09:12 (42)	09:11		10:41 (41)
	22:12	21:05	19:42	18:21	22	09:11 (43)	16:13	24	09:36 (42)	15:52	23	11:04 (41)
21	05:09	06:11	07:15	08:19		08:51 (43)	08:27		09:13 (42)	09:12		10:42 (41)
	22:11	21:03	19:39	18:18	19	09:10 (43)	16:12	24	09:37 (42)	15:52	23	11:05 (41)
22	05:11	06:13	07:17	08:21		08:52 (43)	08:29		09:14 (42)	09:12		10:42 (41)
	22:09	21:00	19:36	18:16	16	09:08 (43)	16:10	22	09:36 (42)	15:52	23	11:05 (41)
23	05:13	06:15	07:19	08:23		08:54 (43)	08:31		09:14 (42)	09:13		10:43 (41)
	22:07	20:57	19:33	18:13	11	09:05 (43)	16:09	21	09:35 (42)	15:53	23	11:06 (41)
24	05:15	06:17	07:21	08:25		08:59 (43)	08:33		09:16 (42)	09:13		10:43 (41)
	22:05	20:55	19:31	18:11	10	09:55 (2)	16:07	19	09:35 (42)	15:53	23	11:06 (41)
25	05:16	06:19	07:23	07:27		08:44 (2)	08:35		09:17 (42)	09:14		10:44 (41)
	22:04	20:52	19:28	17:08	14	08:58 (2)	16:06	17	09:34 (42)	15:54	22	11:06 (41)
26	05:18	06:21	07:25	07:30		08:42 (2)	08:37		09:18 (42)	09:14		10:44 (41)
	22:02	20:50	19:25	17:06	18	09:00 (2)	16:05	15	09:33 (42)	15:55	22	11:06 (41)
27	05:20	06:23	07:27	07:32		08:40 (2)	08:39		09:20 (42)	09:14		10:45 (41)
	22:00	20:47	19:22	17:03	21	09:01 (2)	16:03	12	09:32 (42)	15:56	22	11:07 (41)
28	05:22	06:26	07:29	07:34		08:39 (2)	08:41		09:23 (42)	09:14		10:45 (41)
	21:58	20:44	19:20	17:01	22	09:01 (2)	16:02	8	09:31 (42)	15:57	22	11:07 (41)
29	05:24	06:28	07:32	07:36		08:39 (2)	08:43			09:14		10:46 (41)
	21:56	20:42	19:17	16:59	24	09:03 (2)	16:01			15:58	22	11:08 (41)
30	05:26	06:30	07:34	07:39		08:38 (2)	08:45			09:14		10:47 (41)
	21:54	20:39	19:14	16:56	25	09:03 (2)	16:00			15:59	21	11:08 (41)
31	05:28	06:32		07:41		08:38 (2)				09:14		10:48 (41)
	21:52	20:36		16:54	26	09:04 (2)				16:00	21	11:09 (41)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					504			857			587	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.59			0.58			0.61	
Total reduction					0.24			0.12			0.13	
Total, real					119			107			77	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EG - Mazbruveri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EH - Mazdunkuri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June
1	09:13		10:35 (29)	08:36		09:16 (30)	07:30		08:38 (28)	07:06			05:48		06:21 (27)	04:49
	16:02	35	11:10 (29)	17:00	60	11:21 (29)	18:05	45	09:23 (28)	20:12			21:16	23	06:44 (27)	22:15
2	09:13		10:36 (29)	08:34		09:15 (30)	07:27		08:37 (28)	07:03			05:46		06:20 (27)	04:48
	16:03	35	11:11 (29)	17:03	60	11:20 (29)	18:07	46	09:23 (28)	20:14			21:18	25	06:45 (27)	22:17
3	09:13		10:36 (29)	08:32		09:15 (30)	07:25		08:37 (28)	07:01			05:43		06:20 (27)	04:47
	16:04	36	11:12 (29)	17:05	59	11:20 (29)	18:09	45	09:22 (28)	20:16			21:21	25	06:45 (27)	22:18
4	09:12		10:37 (29)	08:30		09:14 (30)	07:22		08:37 (28)	06:58			05:41		06:19 (27)	04:46
	16:06	36	11:13 (29)	17:07	57	11:18 (29)	18:11	46	09:23 (28)	20:18			21:23	27	06:46 (27)	22:20
5	09:12		10:37 (29)	08:28		09:14 (30)	07:19		08:37 (28)	06:55			05:39		06:19 (27)	04:45
	16:07	37	11:14 (29)	17:10	55	11:17 (29)	18:14	45	09:22 (28)	20:21			21:25	27	06:46 (27)	22:21
6	09:11		10:37 (29)	08:25		09:14 (30)	07:17		08:37 (28)	06:52			05:36		06:19 (27)	04:44
	16:09	37	11:14 (29)	17:12	52	11:15 (29)	18:16	44	09:21 (28)	20:23			21:27	27	06:46 (27)	22:22
7	09:11		10:37 (29)	08:23		09:13 (30)	07:14		08:37 (28)	06:50			05:34		06:19 (27)	04:43
	16:10	38	11:15 (29)	17:14	48	11:12 (29)	18:18	43	09:20 (28)	20:25			21:29	27	06:46 (27)	22:23
8	09:10		10:37 (29)	08:21		09:14 (30)	07:11		08:38 (28)	06:47			05:32		06:18 (27)	04:42
	16:12	39	11:16 (29)	17:17	37	11:07 (29)	18:20	42	09:20 (28)	20:27			21:31	27	06:45 (27)	22:25
9	09:09		10:37 (29)	08:19		09:14 (30)	07:09		08:38 (28)	06:44			05:30		06:18 (27)	04:42
	16:13	39	11:16 (29)	17:19	31	09:45 (30)	18:22	40	09:18 (28)	20:29			21:33	27	06:45 (27)	22:26
10	09:08		10:37 (29)	08:17		09:14 (30)	07:06		08:38 (28)	06:42			05:27		06:19 (27)	04:41
	16:15	40	11:17 (29)	17:21	30	09:44 (30)	18:25	39	09:17 (28)	20:31			21:35	27	06:46 (27)	22:27
11	09:07		10:37 (29)	08:14		08:44 (31)	07:03		08:39 (28)	06:39			05:25		06:19 (27)	04:40
	16:17	40	11:17 (29)	17:24	35	09:44 (30)	18:27	36	09:15 (28)	20:33			21:37	26	06:45 (27)	22:28
12	09:07		10:37 (29)	08:12		08:41 (31)	07:01		08:41 (28)	06:36			05:23		06:20 (27)	04:40
	16:19	41	11:18 (29)	17:26	40	09:43 (30)	18:29	33	09:14 (28)	20:36			21:39	25	06:45 (27)	22:28
13	09:05		10:38 (29)	08:10		08:39 (31)	06:58		08:42 (28)	06:34			05:21		06:20 (27)	04:39
	16:20	41	11:19 (29)	17:28	43	09:43 (30)	18:31	30	09:12 (28)	20:38			21:41	24	06:44 (27)	22:29
14	09:04		10:37 (29)	08:07		08:36 (31)	06:55		08:43 (28)	06:31			05:19		06:21 (27)	04:39
	16:22	42	11:19 (29)	17:30	45	09:42 (30)	18:33	26	09:09 (28)	20:40			21:43	22	06:43 (27)	22:30
15	09:03		10:38 (29)	08:05		08:36 (31)	06:53		08:45 (28)	06:28			05:17		06:21 (27)	04:39
	16:24	42	11:20 (29)	17:33	49	09:42 (30)	18:35	21	09:06 (28)	20:42			21:45	21	06:42 (27)	22:31
16	09:02		10:38 (29)	08:03		08:35 (31)	06:50		08:50 (28)	06:26			05:15		06:22 (27)	04:38
	16:26	42	11:20 (29)	17:35	57	09:40 (30)	18:38	12	09:02 (28)	20:44			21:47	19	06:41 (27)	22:31
17	09:01		10:38 (29)	08:00		08:35 (31)	06:47			06:23			05:13		06:24 (27)	04:38
	16:28	43	11:21 (29)	17:37	57	09:39 (30)	18:40			20:46			21:49	16	06:40 (27)	22:32
18	08:59		10:38 (29)	07:58		08:34 (31)	06:44			06:21			05:11		06:25 (27)	04:38
	16:30	43	11:21 (29)	17:40	56	09:36 (30)	18:42			20:48			21:51	14	06:39 (27)	22:32
19	08:58		10:38 (29)	07:55		08:34 (31)	06:42			06:18			05:09		06:26 (27)	04:38
	16:32	44	11:22 (29)	17:42	50	09:32 (30)	18:44			20:51			21:53	10	06:36 (27)	22:33
20	08:57		10:39 (29)	07:53		08:35 (31)	06:39			06:15			05:07		06:30 (27)	04:38
	16:34	44	11:23 (29)	17:44	43	09:18 (28)	18:46			20:53			21:55	4	06:34 (27)	22:33
21	08:55		10:39 (29)	07:50		08:35 (31)	06:36			06:13			05:06			04:38
	16:36	44	11:23 (29)	17:47	44	09:19 (28)	18:48			20:55			21:57			22:34
22	08:54		10:39 (29)	07:48		08:35 (31)	06:33			06:10			05:04			04:38
	16:38	44	11:23 (29)	17:49	45	09:20 (28)	18:51			20:57			21:59			22:34
23	08:52		10:40 (29)	07:45		08:36 (31)	06:31			06:08			05:02			04:38
	16:40	43	11:23 (29)	17:51	45	09:21 (28)	18:53			20:59			22:01			22:34
24	08:50		10:40 (29)	07:43		08:38 (31)	06:28			06:05			05:01			04:39
	16:43	43	11:23 (29)	17:53	43	09:21 (28)	18:55			21:01			22:02			22:34
25	08:49		10:40 (29)	07:40		08:40 (28)	06:25			06:03			04:59			04:39
	16:45	43	11:23 (29)	17:56	43	09:23 (28)	18:57			21:03			22:04			22:34
26	08:47		10:41 (29)	07:38		08:39 (28)	06:23			06:00		06:32 (27)	04:57			04:40
	16:47	42	11:23 (29)	17:58	44	09:23 (28)	18:59			21:06	3	06:35 (27)	22:06			22:34
27	08:45		09:26 (30)	07:35		08:38 (28)	06:20			05:58		06:27 (27)	04:56			04:40
	16:49	43	11:23 (29)	18:00	45	09:23 (28)	19:01			21:08	12	06:39 (27)	22:08			22:34
28	08:43		09:22 (30)	07:33		08:37 (28)	06:17			05:55		06:25 (27)	04:54			04:41
	16:51	52	11:23 (29)	18:02	45	09:22 (28)	19:03			21:10	16	06:41 (27)	22:09			22:33
29	08:42		09:20 (30)				07:14			05:53		06:24 (27)	04:53			04:41
	16:54	56	11:23 (29)				20:06			21:12	19	06:43 (27)	22:11			22:33
30	08:40		09:18 (30)				07:12			05:50		06:23 (27)	04:52			04:42
	16:56	59	11:23 (29)				20:08			21:14	21	06:44 (27)	22:12			22:33
31	08:38		09:18 (30)				07:09						04:50			
	16:58	58	11:22 (29)				20:10						22:14			
Potential sun hours	231			264			366			428			512			534
Total, worst case		1321			1318			593			71			443		
Sun reduction		0.27			0.33			0.46			0.55			0.61		
Oper. time red.		0.94			0.94			0.94			0.94			0.94		
Wind dir. red.		0.61			0.59			0.59			0.66			0.66		
Total reduction		0.16			0.18			0.26			0.34			0.38		
Total, real		208			244			152			24			169		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EH - Mazdunkuri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:43			05:30		06:30 (27)	06:34			07:36		09:20 (28)	07:43		08:43 (30)	08:46		10:19 (29)
	22:32			21:49	25	06:55 (27)	20:34			19:11	33	09:53 (28)	16:52	31	09:14 (30)	15:59	40	10:59 (29)
2	04:44			05:32		06:30 (27)	06:36			07:38		09:19 (28)	07:45		08:44 (30)	08:48		10:19 (29)
	22:32			21:47	26	06:56 (27)	20:31			19:09	35	09:54 (28)	16:50	30	09:14 (30)	15:58	40	10:59 (29)
3	04:45			05:34		06:28 (27)	06:38			07:40		09:17 (28)	07:47		08:43 (30)	08:50		10:20 (29)
	22:31			21:45	27	06:55 (27)	20:28			19:06	37	09:54 (28)	16:47	40	10:38 (29)	15:57	40	11:00 (29)
4	04:46			05:36		06:28 (27)	06:40			07:42		09:16 (28)	07:50		08:43 (30)	08:52		10:21 (29)
	22:31			21:43	27	06:55 (27)	20:25			19:03	39	09:55 (28)	16:45	48	10:42 (29)	15:56	39	11:00 (29)
5	04:47			05:38		06:28 (27)	06:42			07:44		09:14 (28)	07:52		08:44 (30)	08:53		10:22 (29)
	22:30			21:41	28	06:56 (27)	20:23			19:00	41	09:55 (28)	16:43	53	10:45 (29)	15:55	38	11:00 (29)
6	04:48			05:40		06:28 (27)	06:44			07:46		09:14 (28)	07:54		08:44 (30)	08:55		10:23 (29)
	22:29			21:39	28	06:56 (27)	20:20			18:58	43	09:57 (28)	16:41	56	10:47 (29)	15:55	37	11:00 (29)
7	04:49			05:42		06:28 (27)	06:46			07:48		09:13 (28)	07:56		08:45 (30)	08:56		10:24 (29)
	22:28			21:36	28	06:56 (27)	20:17			18:55	44	09:57 (28)	16:39	58	10:49 (29)	15:54	37	11:01 (29)
8	04:50			05:44		06:29 (27)	06:48			07:50		09:12 (28)	07:59		08:45 (30)	08:58		10:24 (29)
	22:27			21:34	26	06:55 (27)	20:15			18:52	45	09:57 (28)	16:36	60	10:50 (29)	15:53	36	11:00 (29)
9	04:51			05:46		06:29 (27)	06:50			07:53		09:12 (28)	08:01		08:46 (30)	08:59		10:25 (29)
	22:26			21:32	26	06:55 (27)	20:12			18:50	45	09:57 (28)	16:34	60	10:51 (29)	15:53	36	11:01 (29)
10	04:53			05:48		06:29 (27)	06:52			07:55		09:11 (28)	08:03		08:47 (30)	09:01		10:25 (29)
	22:25			21:29	26	06:55 (27)	20:09			18:47	45	09:56 (28)	16:32	59	10:52 (29)	15:52	35	11:00 (29)
11	04:54			05:51		06:29 (27)	06:55			07:57		09:11 (28)	08:05		08:48 (30)	09:02		10:26 (29)
	22:24			21:27	24	06:53 (27)	20:06			18:44	46	09:57 (28)	16:30	59	10:53 (29)	15:52	35	11:01 (29)
12	04:55			05:53		06:29 (27)	06:57			07:59		09:11 (28)	08:08		08:49 (30)	09:03		10:27 (29)
	22:23			21:25	23	06:52 (27)	20:04			18:42	46	09:57 (28)	16:28	58	10:54 (29)	15:52	34	11:01 (29)
13	04:57			05:55		06:30 (27)	06:59			08:01		09:11 (28)	08:10		08:52 (30)	09:04		10:27 (29)
	22:22			21:22	21	06:51 (27)	20:01			18:39	45	09:56 (28)	16:26	55	10:55 (29)	15:52	34	11:01 (29)
14	04:58			05:57		06:31 (27)	07:01			08:03		09:10 (28)	08:12		08:54 (30)	09:05		10:28 (29)
	22:21			21:20	19	06:50 (27)	19:58			18:36	45	09:55 (28)	16:24	52	10:55 (29)	15:51	33	11:01 (29)
15	05:00			05:59		06:33 (27)	07:03			08:05		09:11 (28)	08:14		08:59 (30)	09:06		10:29 (29)
	22:19			21:17	15	06:48 (27)	19:55			18:34	44	09:55 (28)	16:23	44	10:56 (29)	15:51	33	11:02 (29)
16	05:01			06:01		06:35 (27)	07:05			08:08		09:11 (28)	08:16		10:14 (29)	09:07		10:30 (29)
	22:18			21:15	11	06:46 (27)	19:53			18:31	44	09:55 (28)	16:21	42	10:56 (29)	15:51	32	11:02 (29)
17	05:03			06:03			07:07			08:10		09:11 (28)	08:18		10:14 (29)	09:08		10:31 (29)
	22:16			21:12			19:50			18:29	42	09:53 (28)	16:19	43	10:57 (29)	15:51	32	11:03 (29)
18	05:05			06:05			07:09			08:12		09:08 (31)	08:21		10:14 (29)	09:09		10:30 (29)
	22:15			21:10			19:47			18:26	44	09:52 (28)	16:17	43	10:57 (29)	15:51	32	11:02 (29)
19	05:06			06:07			07:11			08:14		09:07 (31)	08:23		10:15 (29)	09:10		10:31 (29)
	22:13			21:07			19:44			18:24	45	09:52 (28)	16:15	43	10:58 (29)	15:52	32	11:03 (29)
20	05:08			06:09			07:13			08:16		09:06 (31)	08:25		10:15 (29)	09:11		10:32 (29)
	22:12			21:05			19:42			18:21	45	09:51 (28)	16:14	43	10:58 (29)	15:52	32	11:04 (29)
21	05:10			06:11			07:15			08:19		09:05 (31)	08:27		10:14 (29)	09:11		10:32 (29)
	22:10			21:02			19:39			18:18	44	09:49 (28)	16:12	44	10:58 (29)	15:52	31	11:03 (29)
22	05:11			06:13			07:17			08:21		09:05 (31)	08:29		10:15 (29)	09:12		10:33 (29)
	22:09			21:00			19:36			18:16	43	09:48 (28)	16:11	44	10:59 (29)	15:53	31	11:04 (29)
23	05:13			06:15			07:19			08:23		09:04 (31)	08:31		10:15 (29)	09:12		10:33 (29)
	22:07			20:57			19:33			18:13	53	10:04 (30)	16:09	44	10:59 (29)	15:53	31	11:04 (29)
24	05:15		06:38 (27)	06:17			07:21			08:25		09:05 (31)	08:33		10:15 (29)	09:13		10:34 (29)
	22:05	8	06:46 (27)	20:55			19:31			18:11	56	10:07 (30)	16:08	44	10:59 (29)	15:54	32	11:06 (29)
25	05:17		06:36 (27)	06:19			07:23			07:27		08:04 (31)	08:35		10:16 (29)	09:13		10:34 (29)
	22:03	13	06:49 (27)	20:52			19:28			17:08	58	09:09 (30)	16:06	43	10:59 (29)	15:55	32	11:06 (29)
26	05:19		06:34 (27)	06:22			07:25			07:30		08:04 (31)	08:37		10:17 (29)	09:13		10:34 (29)
	22:01	16	06:50 (27)	20:49			19:25			17:06	57	09:10 (30)	16:05	42	10:59 (29)	15:55	33	11:07 (29)
27	05:21		06:33 (27)	06:24			07:27		09:33 (28)	07:32		08:05 (31)	08:39		10:17 (29)	09:14		10:35 (29)
	21:59	18	06:51 (27)	20:47			19:22	8	09:41 (28)	17:04	45	09:11 (30)	16:04	42	10:59 (29)	15:56	32	11:07 (29)
28	05:22		06:33 (27)	06:26			07:30		09:27 (28)	07:34		08:06 (31)	08:41		10:17 (29)	09:14		10:35 (29)
	21:58	19	06:52 (27)	20:44			19:20	19	09:46 (28)	17:01	45	09:12 (30)	16:02	42	10:59 (29)	15:57	33	11:08 (29)
29	05:24		06:32 (27)	06:28			07:32		09:25 (28)	07:36		08:09 (31)	08:43		10:18 (29)	09:14		10:36 (29)
	21:56	22	06:54 (27)	20:42			19:17	24	09:49 (28)	16:59	42	09:13 (30)	16:01	41	10:59 (29)	15:58	33	11:09 (29)
30	05:26		06:31 (27)	06:30			07:34		09:22 (28)	07:38		08:11 (31)	08:45		10:18 (29)	09:14		10:35 (29)
	21:54	23	06:54 (27)	20:39			19:14	29	09:51 (28)	16:56	39	09:13 (30)	16:00	41	10:59 (29)	15:59	34	11:09 (29)
31	05:28		06:30 (27)	06:32						07:41		08:14 (31)				09:14		10:36 (29)
	21:52	24	06:54 (27)	20:36						16:54	35	09:14 (30)				16:00	34	11:10 (29)
Potential sun hours	534			472			385			322			244			212		
Total, worst case		143			380			80			1370			1404			1063	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.66			0.66			0.59			0.59			0.60			0.61	
Total reduction		0.37			0.36			0.28			0.24			0.13			0.13	
Total, real		53			138			22			323			183			138	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EI - Mazjorgi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April			May	June	July	August			September			October	November	December
1	09:13	08:35	07:29			07:05		19:35 (38)	05:47	04:48	04:42	05:29			06:33		19:30 (38)	07:35	07:42	08:46
	16:01	17:00	18:04			20:11	7	19:42 (38)	21:16	22:15	22:32	21:49			20:33	18	19:48 (38)	19:11	16:51	15:58
2	09:13	08:33	07:27			07:03		19:33 (38)	05:45	04:47	04:43	05:31			06:35		19:28 (38)	07:37	07:45	08:48
	16:02	17:02	18:06			20:13	11	19:44 (38)	21:18	22:16	22:31	21:47			20:30	20	19:48 (38)	19:08	16:49	15:57
3	09:12	08:31	07:24			07:00		19:31 (38)	05:42	04:46	04:44	05:33			06:37		19:27 (38)	07:39	07:47	08:49
	16:03	17:04	18:08			20:16	15	19:46 (38)	21:20	22:18	22:31	21:45			20:27	22	19:49 (38)	19:05	16:46	15:56
4	09:12	08:29	07:21			06:57		19:31 (38)	05:40	04:45	04:45	05:35			06:39		19:27 (38)	07:41	07:49	08:51
	16:05	17:06	18:10			20:18	18	19:49 (38)	21:22	22:19	22:30	21:42			20:25	22	19:49 (38)	19:02	16:44	15:55
5	09:11	08:27	07:19			06:54		19:30 (38)	05:38	04:44	04:46	05:37			06:41		19:26 (38)	07:43	07:51	08:53
	16:06	17:09	18:13			20:20	20	19:50 (38)	21:24	22:20	22:29	21:40			20:22	23	19:49 (38)	19:00	16:42	15:54
6	09:11	08:25	07:16			06:52		19:29 (38)	05:35	04:43	04:47	05:39			06:43		19:26 (38)	07:46	07:54	08:54
	16:08	17:11	18:15			20:22	23	19:52 (38)	21:26	22:22	22:29	21:38			20:19	22	19:48 (38)	18:57	16:40	15:54
7	09:10	08:23	07:13			06:49		19:30 (38)	05:33	04:42	04:48	05:41			06:46		19:25 (38)	07:48	07:56	08:56
	16:09	17:13	18:17			20:24	23	19:53 (38)	21:28	22:23	22:28	21:36			20:17	21	19:46 (38)	18:54	16:38	15:53
8	09:09	08:20	07:11			06:46		19:30 (38)	05:31	04:41	04:49	05:43			06:48		19:25 (38)	07:50	07:58	08:57
	16:11	17:16	18:19			20:26	22	19:52 (38)	21:31	22:24	22:27	21:33			20:14	18	19:43 (38)	18:52	16:35	15:52
9	09:09	08:18	07:08			06:44		19:29 (38)	05:29	04:40	04:50	05:45			06:50		19:26 (38)	07:52	08:00	08:59
	16:12	17:18	18:22			20:28	22	19:51 (38)	21:33	22:25	22:26	21:31			20:11	14	19:40 (38)	18:49	16:33	15:52
10	09:08	08:16	07:05			06:41		19:30 (38)	05:26	04:40	04:52	05:48			06:52		19:26 (38)	07:54	08:02	09:00
	16:14	17:20	18:24			20:31	20	19:50 (38)	21:35	22:26	22:25	21:29			20:08	12	19:38 (38)	18:46	16:31	15:51
11	09:07	08:14	07:03			06:38		19:31 (38)	05:24	04:39	04:53	05:50			06:54		19:27 (38)	07:56	08:05	09:01
	16:16	17:23	18:26			20:33	18	19:49 (38)	21:37	22:27	22:24	21:26			20:06	8	19:35 (38)	18:44	16:29	15:51
12	09:06	08:11	07:00			06:36		19:33 (38)	05:22	04:39	04:54	05:52			06:56		19:28 (38)	07:58	08:07	09:03
	16:18	17:25	18:28			20:35	14	19:47 (38)	21:39	22:28	22:23	21:24			20:03	4	19:32 (38)	18:41	16:27	15:51
13	09:05	08:09	06:57			06:33		19:34 (38)	05:20	04:38	04:56	05:54			06:58			08:00	08:09	09:04
	16:19	17:27	18:30			20:37	11	19:45 (38)	21:41	22:29	22:21	21:22			20:00			18:38	16:25	15:51
14	09:04	08:07	06:55			06:30			05:18	04:38	04:57	05:56			07:00			08:03	08:11	09:05
	16:21	17:30	18:32			20:39			21:43	22:30	22:20	21:19			19:57			18:36	16:23	15:50
15	09:03	08:04	06:52			06:28			05:16	04:37	04:59	05:58			07:02			08:05	08:14	09:06
	16:23	17:32	18:35			20:41			21:45	22:30	22:19	21:17			19:55			18:33	16:22	15:50
16	09:01	08:02	06:49			06:25			05:14	04:37	05:00	06:00			07:04			08:07	08:16	09:07
	16:25	17:34	18:37			20:43			21:47	22:31	22:17	21:14			19:52			18:30	16:20	15:50
17	09:00	08:00	06:46			06:22			05:12	04:37	05:02	06:02			07:06			08:09	08:18	09:08
	16:27	17:37	18:39			20:46			21:49	22:31	22:16	21:12			19:49			18:28	16:18	15:50
18	08:59	07:57	06:44			06:20			05:10	04:37	05:04	06:04			07:08			08:11	08:20	09:09
	16:29	17:39	18:41			20:48			21:51	22:32	22:14	21:09			19:46			18:25	16:16	15:50
19	08:57	07:55	06:41			06:17			05:08	04:37	05:05	06:06			07:10			08:13	08:22	09:09
	16:31	17:41	18:43			20:50			21:53	22:32	22:13	21:07			19:44			18:23	16:15	15:51
20	08:56	07:52	06:38			06:14			05:07	04:37	05:07	06:08			07:12			08:16	08:24	09:10
	16:33	17:43	18:45			20:52			21:55	22:33	22:11	21:04			19:41			18:20	16:13	15:51
21	08:55	07:50	06:35			06:12			05:05	04:37	05:09	06:10			07:14			08:18	08:26	09:11
	16:35	17:46	18:48			20:54			21:56	22:33	22:10	21:02			19:38			18:18	16:11	15:51
22	08:53	07:47	06:33			06:09			05:03	04:37	05:10	06:12			07:16			08:20	08:28	09:11
	16:37	17:48	18:50			20:56			21:58	22:33	22:08	20:59			19:35			18:15	16:10	15:52
23	08:51	07:45	06:30			06:07			05:01	04:37	05:12	06:14			07:18			08:22	08:30	09:12
	16:40	17:50	18:52			20:58			22:00	22:33	22:06	20:57			19:33			18:13	16:08	15:52
24	08:50	07:42	06:27			06:04			05:00	04:38	05:14	06:17			07:20			08:24	08:33	09:12
	16:42	17:53	18:54			21:01			22:02	22:33	22:04	20:54			19:30			18:10	16:07	15:53
25	08:48	07:40	06:24			06:02			04:58	04:38	05:16	06:19			07:23			07:27	08:35	09:13
	16:44	17:55	18:56			21:03			22:04	22:33	22:03	20:51			19:27			17:08	16:05	15:54
26	08:46	07:37	06:22			05:59			04:56	04:39	05:18	06:21			07:25			07:29	08:37	09:13
	16:46	17:57	18:58			21:05			22:05	22:33	22:01	20:49			19:24			17:05	16:04	15:54
27	08:45	07:34	06:19			05:57			04:55	04:39	05:20	06:23			07:27			07:31	08:38	09:13
	16:48	17:59	19:01			21:07			22:07	22:33	21:59	20:46			19:22			17:03	16:03	15:55
28	08:43	07:32	06:16			05:54			04:54	04:40	05:22	06:25			07:29			07:33	08:40	09:13
	16:51	18:02	19:03			21:09			22:09	22:33	21:57	20:43			19:19			17:00	16:01	15:56
29	08:41		07:13			05:52			04:52	04:40	05:23	06:27			07:31			07:36	08:42	09:13
	16:53		20:05			21:11			22:10	22:33	21:55	20:41			19:16			16:58	16:00	15:57
30	08:39		07:11			05:49			04:51	04:41	05:25	06:29		19:34 (38)	07:33			07:38	08:44	09:13
	16:55		20:07			21:14			22:12	22:32	21:53	20:38	11	19:45 (38)	19:13			16:56	15:59	15:58
31	08:37		07:08		19:37 (38)				04:49		05:27	06:31		19:32 (38)				07:40		09:13
	16:57		20:09	4	19:41 (38)				22:13		21:51	20:36	14	19:46 (38)				16:53		15:59
Potential sun hours	231	264	366			428			512	534	534	472			385			322	244	211
Total, worst case				4			224						25			204				
Sun reduction				0.46			0.55						0.59			0.50				
Oper. time red.				0.94			0.94						0.94			0.94				
Wind dir. red.				0.63			0.63						0.63			0.63				
Total reduction				0.27			0.32						0.35			0.29				
Total, real				1			72						9			60				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EJ - Mazkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53
8	09:10	08:21	07:12	06:47	05:31	04:42	04:49	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:13	15:51
21	08:55	07:51	06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:57
29	08:42		07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EK - Mazlaucnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:29	06:33	07:35	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:24	07:00	05:42	04:46	04:44	05:33	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	15:56
4	09:12	08:30	07:22	06:57	05:40	04:45	04:45	05:35	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:37	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:12	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:29	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:05	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:19	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:50
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:08
	16:25	17:34	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:49	18:28	16:18	15:50
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:09
	16:29	17:39	18:41	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:08	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:11
	16:35	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	15:51
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:50	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:43	06:28	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54
26	08:47	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:54
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:48	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:41		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:27	06:31		07:41		09:14
	16:57		20:09		22:14		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EL - Mazpulki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:19	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:23	21:27	22:23	22:30	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	09:00
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:08	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19	09:09
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:10
	16:29	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10
	16:31	17:42	18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:44	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:41	19:17	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:39	08:45	09:14
	16:55		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EM - Mazratnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:11	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:56
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:53	16:36	15:53
9	09:09	08:19	07:09	06:45	05:30	04:42	04:51	05:47	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:53
11	09:08	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:34	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:24	15:51
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:04	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EN - Mazru š ki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:28	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:12	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:49	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:51	05:47	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:53
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:34	21:37	22:28	22:24	21:27	20:07	18:45	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:25	15:51
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:56	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:51	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:04	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EO - Malaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		14:27 (1)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43			08:47		14:15 (1)
	16:01	24	14:51 (1)	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51			15:58	21	14:36 (1)
2	09:13		14:27 (1)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		14:15 (1)
	16:02	24	14:51 (1)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	22	14:37 (1)
3	09:13		14:28 (1)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		14:15 (1)
	16:04	24	14:52 (1)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:56	23	14:38 (1)
4	09:13		14:28 (1)	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		14:15 (1)
	16:05	24	14:52 (1)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45			15:55	23	14:38 (1)
5	09:12		14:29 (1)	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		14:15 (1)
	16:06	24	14:53 (1)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42			15:55	23	14:38 (1)
6	09:12		14:29 (1)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:15 (1)
	16:08	24	14:53 (1)	17:11	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:57	16:40			15:54	24	14:39 (1)
7	09:11		14:30 (1)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:57		14:16 (1)
	16:09	23	14:53 (1)	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38			15:53	24	14:40 (1)
8	09:10		14:30 (1)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		14:17 (1)
	16:11	23	14:53 (1)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	24	14:41 (1)
9	09:09		14:31 (1)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01			08:59		14:16 (1)
	16:13	23	14:54 (1)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	24	14:40 (1)
10	09:09		14:32 (1)	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		14:17 (1)
	16:14	22	14:54 (1)	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32			15:52	24	14:41 (1)
11	09:08		14:33 (1)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		14:17 (1)
	16:16	21	14:54 (1)	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30			15:51	24	14:41 (1)
12	09:07		14:33 (1)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:03		14:17 (1)
	16:18	20	14:53 (1)	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	25	14:42 (1)
13	09:06		14:34 (1)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:05		14:18 (1)
	16:20	20	14:54 (1)	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26			15:51	25	14:43 (1)
14	09:05		14:36 (1)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:06		14:19 (1)
	16:22	18	14:54 (1)	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24			15:51	24	14:43 (1)
15	09:03		14:36 (1)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		14:19 (1)
	16:23	17	14:53 (1)	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22			15:51	24	14:43 (1)
16	09:02		14:38 (1)	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:08		14:19 (1)
	16:25	15	14:53 (1)	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20			15:50	25	14:44 (1)
17	09:01		14:40 (1)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19			09:09		14:20 (1)
	16:27	12	14:52 (1)	17:37	18:40	20:46	21:50	22:32	22:17	21:12	19:50	18:28	16:18			15:51	24	14:44 (1)
18	09:00		14:41 (1)	07:58	06:44	06:20	05:11	04:37	05:04	06:04	07:09	08:12	08:21			09:10		14:21 (1)
	16:29	9	14:50 (1)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17			15:51	24	14:45 (1)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23			09:10		14:21 (1)
	16:31			17:42	18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15			15:51	25	14:46 (1)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		14:21 (1)
	16:33			17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13			15:51	24	14:45 (1)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:12		14:22 (1)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12			15:52	24	14:46 (1)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29			09:12		14:22 (1)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10			15:52	24	14:46 (1)
23	08:52			07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31			09:13		14:23 (1)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08			15:53	24	14:47 (1)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:20 (1)	09:13		14:23 (1)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	8	14:28 (1)	15:53	24	14:47 (1)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:18 (1)	09:13		14:23 (1)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	12	14:30 (1)	15:54	25	14:48 (1)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37		14:16 (1)	09:14		14:24 (1)
	16:46			17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15	14:31 (1)	15:55	24	14:48 (1)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		14:16 (1)	09:14		14:24 (1)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	16	14:32 (1)	15:55	25	14:49 (1)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:15 (1)	09:14		14:25 (1)
	16:51			18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	18	14:33 (1)	15:56	24	14:49 (1)
29	08:42				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43		14:15 (1)	09:14		14:25 (1)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:58	16:01	20	14:35 (1)	15:57	25	14:50 (1)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:15 (1)	09:14		14:26 (1)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	21	14:36 (1)	15:58	24	14:50 (1)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		14:26 (1)
	16:58				20:10		22:14		21:52	20:36		16:54				15:59	24	14:50 (1)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		367												110			743	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.69	
Total reduction		0.18												0.15			0.15	
Total, real		65												16			108	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EP - Mednieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June
1	09:13		10:27 (29)	08:36		09:12 (30)	07:30		08:28 (28)	07:06			05:48		06:19 (27)	04:49
	16:02	29	10:56 (29)	17:00	57	11:12 (29)	18:05	43	09:11 (28)	20:12			21:16	22	06:41 (27)	22:15
2	09:13		10:28 (29)	08:34		09:11 (30)	07:27		08:28 (28)	07:03			05:46		06:19 (27)	04:48
	16:03	30	10:58 (29)	17:03	59	11:12 (29)	18:07	43	09:11 (28)	20:14			21:18	23	06:42 (27)	22:17
3	09:13		10:27 (29)	08:32		09:10 (30)	07:25		08:27 (28)	07:01			05:43		06:18 (27)	04:47
	16:04	31	10:58 (29)	17:05	59	11:11 (29)	18:09	44	09:11 (28)	20:16			21:21	25	06:43 (27)	22:18
4	09:12		10:28 (29)	08:30		09:09 (30)	07:22		08:27 (28)	06:58			05:41		06:18 (27)	04:46
	16:06	32	11:00 (29)	17:07	60	11:10 (29)	18:11	45	09:12 (28)	20:18			21:23	25	06:43 (27)	22:20
5	09:12		10:28 (29)	08:28		09:08 (30)	07:19		08:26 (28)	06:55			05:39		06:17 (27)	04:45
	16:07	32	11:00 (29)	17:10	59	11:09 (29)	18:14	45	09:11 (28)	20:21			21:25	26	06:43 (27)	22:21
6	09:11		10:28 (29)	08:25		09:08 (30)	07:17		08:26 (28)	06:52			05:36		06:17 (27)	04:44
	16:09	33	11:01 (29)	17:12	59	11:09 (29)	18:16	45	09:11 (28)	20:23			21:27	27	06:44 (27)	22:22
7	09:11		10:28 (29)	08:23		09:07 (30)	07:14		08:26 (28)	06:50			05:34		06:17 (27)	04:43
	16:10	34	11:02 (29)	17:14	57	11:07 (29)	18:18	44	09:10 (28)	20:25			21:29	27	06:44 (27)	22:23
8	09:10		10:28 (29)	08:21		09:07 (30)	07:11		08:26 (28)	06:47			05:32		06:16 (27)	04:42
	16:12	35	11:03 (29)	17:17	54	11:05 (29)	18:20	44	09:10 (28)	20:27			21:31	27	06:43 (27)	22:25
9	09:09		10:28 (29)	08:19		09:07 (30)	07:09		08:26 (28)	06:44			05:30		06:16 (27)	04:42
	16:13	36	11:04 (29)	17:19	51	11:04 (29)	18:22	43	09:09 (28)	20:29			21:33	26	06:42 (27)	22:26
10	09:08		10:28 (29)	08:17		09:06 (30)	07:06		08:26 (28)	06:42			05:27		06:17 (27)	04:41
	16:15	37	11:05 (29)	17:21	45	11:00 (29)	18:25	42	09:08 (28)	20:31			21:35	26	06:43 (27)	22:27
11	09:07		10:27 (29)	08:14		09:07 (30)	07:03		08:26 (28)	06:39			05:25		06:17 (27)	04:40
	16:17	38	11:05 (29)	17:24	30	09:37 (30)	18:27	41	09:07 (28)	20:33			21:37	26	06:43 (27)	22:28
12	09:07		10:27 (29)	08:12		09:07 (30)	07:01		08:28 (28)	06:36			05:23		06:18 (27)	04:40
	16:19	39	11:06 (29)	17:26	30	09:37 (30)	18:29	39	09:07 (28)	20:36			21:39	24	06:42 (27)	22:28
13	09:05		10:28 (29)	08:10		08:39 (31)	06:58		08:28 (28)	06:34			05:21		06:18 (27)	04:39
	16:20	39	11:07 (29)	17:28	37	09:37 (30)	18:31	37	09:05 (28)	20:38			21:41	23	06:41 (27)	22:29
14	09:04		10:27 (29)	08:07		08:36 (31)	06:55		08:28 (28)	06:31			05:19		06:18 (27)	04:39
	16:22	40	11:07 (29)	17:30	40	09:36 (30)	18:33	35	09:03 (28)	20:40			21:43	23	06:41 (27)	22:30
15	09:03		10:28 (29)	08:05		08:34 (31)	06:53		08:29 (28)	06:28			05:17		06:19 (27)	04:39
	16:24	40	11:08 (29)	17:33	43	09:36 (30)	18:35	32	09:01 (28)	20:42			21:45	21	06:40 (27)	22:31
16	09:02		10:27 (29)	08:03		08:31 (31)	06:50		08:31 (28)	06:26			05:15		06:19 (27)	04:38
	16:26	41	11:08 (29)	17:35	46	09:35 (30)	18:38	29	09:00 (28)	20:44			21:47	19	06:38 (27)	22:31
17	09:01		10:28 (29)	08:00		08:31 (31)	06:47		08:33 (28)	06:23			05:13		06:21 (27)	04:38
	16:28	42	11:10 (29)	17:37	45	09:35 (30)	18:40	24	08:57 (28)	20:46			21:49	17	06:38 (27)	22:32
18	08:59		10:28 (29)	07:58		08:30 (31)	06:44		08:35 (28)	06:21			05:11		06:22 (27)	04:38
	16:30	42	11:10 (29)	17:40	44	09:33 (30)	18:42	19	08:54 (28)	20:48			21:51	14	06:36 (27)	22:32
19	08:58		10:28 (29)	07:55		08:29 (31)	06:42		08:39 (28)	06:18			05:09		06:24 (27)	04:38
	16:32	42	11:10 (29)	17:42	47	09:31 (30)	18:44	9	08:48 (28)	20:51			21:53	10	06:34 (27)	22:33
20	08:57		10:28 (29)	07:53		08:29 (31)	06:39			06:15			05:07		06:27 (27)	04:38
	16:34	43	11:11 (29)	17:44	46	09:29 (30)	18:46			20:53			21:55	5	06:32 (27)	22:33
21	08:55		10:28 (29)	07:50		08:29 (31)	06:36			06:13			05:06			04:38
	16:36	44	11:12 (29)	17:47	44	09:26 (30)	18:48			20:55			21:57			22:34
22	08:54		10:28 (29)	07:48		08:29 (31)	06:33			06:10			05:04			04:38
	16:38	44	11:12 (29)	17:49	35	09:04 (28)	18:51			20:57			21:59			22:34
23	08:52		10:29 (29)	07:45		08:30 (31)	06:31			06:08			05:02			04:38
	16:40	43	11:12 (29)	17:51	36	09:06 (28)	18:53			20:59			22:01			22:34
24	08:50		10:29 (29)	07:43		08:30 (31)	06:28			06:05			05:01			04:39
	16:43	43	11:12 (29)	17:53	37	09:07 (28)	18:55			21:01			22:02			22:34
25	08:49		10:29 (29)	07:40		08:32 (28)	06:25			06:03			04:59			04:39
	16:45	44	11:13 (29)	17:56	37	09:09 (28)	18:57			21:03			22:04			22:34
26	08:47		10:29 (29)	07:38		08:31 (28)	06:23			06:00			04:57			04:40
	16:47	44	11:13 (29)	17:58	39	09:10 (28)	18:59			21:06			22:06			22:34
27	08:45		10:30 (29)	07:35		08:30 (28)	06:20			05:58		06:27 (27)	04:56			04:40
	16:49	43	11:13 (29)	18:00	40	09:10 (28)	19:01			21:08	7	06:34 (27)	22:08			22:34
28	08:43		10:30 (29)	07:33		08:28 (28)	06:17			05:55		06:24 (27)	04:55			04:41
	16:51	43	11:13 (29)	18:02	42	09:10 (28)	19:03			21:10	14	06:38 (27)	22:09			22:33
29	08:42		10:31 (29)				07:14			05:53		06:22 (27)	04:53			04:41
	16:54	42	11:13 (29)				20:06			21:12	18	06:40 (27)	22:11			22:33
30	08:40		09:20 (30)				07:12			05:50		06:21 (27)	04:52			04:42
	16:56	43	11:13 (29)				20:08			21:14	20	06:41 (27)	22:12			22:33
31	08:38		09:15 (30)				07:09						04:50			
	16:58	53	11:13 (29)				20:10						22:14			
Potential sun hours	231			264			366			428			512			534
Total, worst case		1221			1278			703			59			436		
Sun reduction		0.27			0.33			0.46			0.55			0.61		
Oper. time red.		0.94			0.94			0.94			0.94			0.94		
Wind dir. red.		0.61			0.59			0.60			0.66			0.66		
Total reduction		0.16			0.19			0.26			0.34			0.38		
Total, real		192			238			181			20			166		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EP - Mednieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:43			05:30		06:28 (27)	06:34			07:36		09:07 (28)	07:43		08:36 (30)	08:46		10:09 (29)
	22:32			21:49	24	06:52 (27)	20:34			19:11	38	09:45 (28)	16:52	45	10:30 (29)	15:59	38	10:47 (29)
2	04:44			05:32		06:28 (27)	06:36			07:38		09:06 (28)	07:45		08:37 (30)	08:48		10:10 (29)
	22:32			21:47	25	06:53 (27)	20:31			19:09	40	09:46 (28)	16:50	51	10:34 (29)	15:58	37	10:47 (29)
3	04:45			05:34		06:26 (27)	06:38			07:40		09:05 (28)	07:47		08:37 (30)	08:50		10:11 (29)
	22:31			21:45	26	06:52 (27)	20:28			19:06	41	09:46 (28)	16:47	54	10:35 (29)	15:57	36	10:47 (29)
4	04:46			05:36		06:26 (27)	06:40			07:42		09:04 (28)	07:50		08:37 (30)	08:52		10:12 (29)
	22:31			21:43	27	06:53 (27)	20:25			19:03	42	09:46 (28)	16:45	57	10:37 (29)	15:56	35	10:47 (29)
5	04:47			05:38		06:26 (27)	06:42			07:44		09:03 (28)	07:52		08:38 (30)	08:53		10:13 (29)
	22:30			21:41	27	06:53 (27)	20:23			19:00	43	09:46 (28)	16:43	59	10:39 (29)	15:55	34	10:47 (29)
6	04:48			05:40		06:26 (27)	06:44			07:46		09:03 (28)	07:54		08:38 (30)	08:55		10:14 (29)
	22:29			21:39	27	06:53 (27)	20:20			18:58	44	09:47 (28)	16:41	60	10:39 (29)	15:55	33	10:47 (29)
7	04:49			05:42		06:27 (27)	06:46			07:48		09:02 (28)	07:56		08:39 (30)	08:56		10:15 (29)
	22:28			21:36	26	06:53 (27)	20:17			18:55	45	09:47 (28)	16:39	60	10:41 (29)	15:54	32	10:47 (29)
8	04:50			05:44		06:27 (27)	06:48			07:50		09:02 (28)	07:59		08:40 (30)	08:58		10:15 (29)
	22:27			21:34	26	06:53 (27)	20:15			18:52	44	09:46 (28)	16:36	59	10:41 (29)	15:53	32	10:47 (29)
9	04:51			05:46		06:27 (27)	06:50			07:53		09:01 (28)	08:01		08:42 (30)	08:59		10:17 (29)
	22:26			21:32	25	06:52 (27)	20:12			18:50	45	09:46 (28)	16:34	58	10:43 (29)	15:53	30	10:47 (29)
10	04:53			05:48		06:28 (27)	06:52			07:55		09:01 (28)	08:03		08:43 (30)	09:01		10:17 (29)
	22:25			21:29	24	06:52 (27)	20:09			18:47	44	09:45 (28)	16:32	56	10:43 (29)	15:52	30	10:47 (29)
11	04:54			05:51		06:27 (27)	06:55			07:57		09:02 (28)	08:05		08:46 (30)	09:02		10:18 (29)
	22:24			21:27	23	06:50 (27)	20:06			18:44	44	09:46 (28)	16:30	52	10:44 (29)	15:52	29	10:47 (29)
12	04:55			05:53		06:28 (27)	06:57			07:59		09:02 (28)	08:08		10:02 (29)	09:03		10:19 (29)
	22:23			21:25	21	06:49 (27)	20:04			18:42	43	09:45 (28)	16:28	42	10:44 (29)	15:52	28	10:47 (29)
13	04:57			05:55		06:29 (27)	06:59			08:01		09:02 (28)	08:10		10:03 (29)	09:04		10:19 (29)
	22:22			21:22	19	06:48 (27)	20:01			18:39	42	09:44 (28)	16:26	42	10:45 (29)	15:52	28	10:47 (29)
14	04:58			05:57		06:30 (27)	07:01			08:03		09:02 (28)	08:12		10:02 (29)	09:05		10:20 (29)
	22:21			21:20	17	06:47 (27)	19:58			18:36	41	09:43 (28)	16:24	43	10:45 (29)	15:51	27	10:47 (29)
15	05:00			05:59		06:32 (27)	07:03			08:05		09:03 (28)	08:14		10:03 (29)	09:06		10:22 (29)
	22:19			21:17	13	06:45 (27)	19:55			18:34	40	09:43 (28)	16:23	43	10:46 (29)	15:51	26	10:48 (29)
16	05:01			06:01		06:36 (27)	07:05			08:08		09:03 (28)	08:16		10:02 (29)	09:07		10:22 (29)
	22:18			21:15	5	06:41 (27)	19:53			18:31	38	09:41 (28)	16:21	44	10:46 (29)	15:51	26	10:48 (29)
17	05:03			06:03			07:07			08:10		09:03 (31)	08:18		10:03 (29)	09:08		10:23 (29)
	22:16			21:12			19:50			18:29	37	09:40 (28)	16:19	44	10:47 (29)	15:51	25	10:48 (29)
18	05:05			06:05			07:09			08:12		09:01 (31)	08:21		10:03 (29)	09:09		10:23 (29)
	22:15			21:10			19:47			18:26	37	09:38 (28)	16:17	43	10:46 (29)	15:51	25	10:48 (29)
19	05:06			06:07			07:11			08:14		09:01 (31)	08:23		10:04 (29)	09:10		10:24 (29)
	22:13			21:07			19:44			18:24	36	09:37 (28)	16:15	43	10:47 (29)	15:52	24	10:48 (29)
20	05:08			06:09			07:13			08:16		09:00 (31)	08:25		10:03 (29)	09:11		10:25 (29)
	22:12			21:05			19:42			18:21	35	09:35 (28)	16:14	44	10:47 (29)	15:52	24	10:49 (29)
21	05:10			06:11			07:15			08:19		08:59 (31)	08:27		10:03 (29)	09:11		10:25 (29)
	22:10			21:02			19:39			18:18	45	09:57 (30)	16:12	44	10:47 (29)	15:52	24	10:49 (29)
22	05:11			06:13			07:17			08:21		09:00 (31)	08:29		10:04 (29)	09:12		10:26 (29)
	22:09			21:00			19:36			18:16	47	10:00 (30)	16:11	43	10:47 (29)	15:53	24	10:50 (29)
23	05:13			06:15			07:19			08:23		08:59 (31)	08:31		10:05 (29)	09:12		10:26 (29)
	22:07			20:57			19:33			18:13	46	10:02 (30)	16:09	42	10:47 (29)	15:53	24	10:50 (29)
24	05:15		06:36 (27)	06:17			07:21			08:25		09:00 (31)	08:33		10:05 (29)	09:13		10:27 (29)
	22:05	8	06:44 (27)	20:55			19:31			18:11	45	10:04 (30)	16:08	42	10:47 (29)	15:54	24	10:51 (29)
25	05:17		06:34 (27)	06:20			07:23		09:19 (28)	07:27		08:00 (31)	08:35		10:06 (29)	09:13		10:27 (29)
	22:03	12	06:46 (27)	20:52			19:28	16	09:35 (28)	17:08	45	09:04 (30)	16:06	42	10:48 (29)	15:55	24	10:51 (29)
26	05:19		06:32 (27)	06:22			07:25		09:16 (28)	07:30		08:01 (31)	08:37		10:06 (29)	09:13		10:27 (29)
	22:01	15	06:47 (27)	20:49			19:25	22	09:38 (28)	17:06	45	09:04 (30)	16:05	42	10:48 (29)	15:55	25	10:52 (29)
27	05:21		06:31 (27)	06:24			07:27		09:13 (28)	07:32		08:04 (31)	08:39		10:07 (29)	09:14		10:27 (29)
	21:59	18	06:49 (27)	20:47			19:22	27	09:40 (28)	17:04	43	09:06 (30)	16:04	40	10:47 (29)	15:56	26	10:53 (29)
28	05:22		06:30 (27)	06:26			07:30		09:11 (28)	07:34		08:06 (31)	08:41		10:07 (29)	09:14		10:28 (29)
	21:58	20	06:50 (27)	20:44			19:20	31	09:42 (28)	17:01	40	09:06 (30)	16:02	40	10:47 (29)	15:57	25	10:53 (29)
29	05:24		06:30 (27)	06:28			07:32		09:10 (28)	07:36		08:09 (31)	08:43		10:08 (29)	09:14		10:28 (29)
	21:56	21	06:51 (27)	20:42			19:17	34	09:44 (28)	16:59	34	09:06 (30)	16:01	39	10:47 (29)	15:58	26	10:54 (29)
30	05:26		06:28 (27)	06:30			07:34		09:08 (28)	07:38		08:36 (30)	08:45		10:09 (29)	09:14		10:27 (29)
	21:54	23	06:51 (27)	20:39			19:14	37	09:45 (28)	16:56	30	09:06 (30)	16:00	38	10:47 (29)	15:59	27	10:54 (29)
31	05:28		06:28 (27)	06:32						07:41		08:36 (30)				09:14		10:28 (29)
	21:52	24	06:52 (27)	20:36						16:54	31	09:07 (30)				16:00	28	10:56 (29)
Potential sun hours	534			472			385			322			244			212		
Total, worst case		141			355			167			1270			1411			876	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.66			0.66			0.60			0.59			0.61			0.61	
Total reduction		0.37			0.36			0.28			0.24			0.13			0.13	
Total, real		53			129			47			300			184			113	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EQ - Meldri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:29 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	08:05 (42)	07:43	08:47
	16:01	17:00	18:05	15 08:44 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	9 08:14 (42)	16:52	15:59
2	09:14	08:34	07:27	08:31 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	08:07 (42)	07:45	08:49
	16:03	17:03	18:07	10 08:41 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	3 08:10 (42)	16:49	15:58
3	09:13	08:32	07:25		07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:50
	16:04	17:05	18:09		20:16	21:21	22:19	22:32	21:45	20:28	19:06		16:47	15:57
4	09:13	08:30	07:22		06:58	05:41	04:46	04:45	05:36	06:40	07:42		07:50	08:52
	16:05	17:07	18:11		20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	15:56
5	09:12	08:28	07:20		06:55	05:38	04:45	04:46	05:38	06:42	07:44		07:52	08:54
	16:07	17:09	18:13		20:21	21:25	22:21	22:30	21:41	20:23	19:00		16:43	15:55
6	09:12	08:26	07:17		06:52	05:36	04:44	04:47	05:40	06:44	07:46		07:54	08:55
	16:08	17:12	18:16		20:23	21:27	22:23	22:30	21:39	20:20	18:58		16:40	15:54
7	09:11	08:23	07:14		06:50	05:34	04:43	04:48	05:42	06:46	07:48		07:57	08:57
	16:10	17:14	18:18		20:25	21:29	22:24	22:29	21:37	20:17	18:55		16:38	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59	08:58
	16:11	17:16	18:20		20:27	21:31	22:25	22:28	21:34	20:15	18:52		16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53		08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50		16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55		08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47		16:32	15:52
11	09:08	08:15	07:03		06:39	05:25	04:40	04:54	05:50	06:55	07:57	09:09 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44	3 09:12 (41)	16:30	15:52
12	09:07	08:12	07:01	07:27 (42)	06:36	05:23	04:39	04:55	05:52	06:57	07:59	09:04 (41)	08:08	09:04
	16:18	17:26	18:29	7 07:34 (42)	20:36	21:40	22:29	22:24	21:25	20:04	18:42	12 09:16 (41)	16:28	15:51
13	09:06	08:10	06:58	07:24 (42)	06:34	05:21	04:39	04:56	05:54	06:59	08:01	09:01 (41)	08:10	09:05
	16:20	17:28	18:31	12 07:36 (42)	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16 09:17 (41)	16:26	15:51
14	09:05	08:08	06:55	07:21 (42)	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:59 (41)	08:12	09:06
	16:22	17:30	18:33	16 07:37 (42)	20:40	21:44	22:31	22:21	21:20	19:58	18:36	19 09:18 (41)	16:24	15:51
15	09:04	08:05	08:34 (41)	06:53	07:18 (42)	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:59 (41)	08:14	09:07
	16:24	17:33	9 08:43 (41)	18:35	19 07:37 (42)	20:42	21:46	22:31	22:20	21:18	19:55	18:34	21 09:20 (41)	16:22	15:51
16	09:02	08:03	08:31 (41)	06:50	07:17 (42)	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:58 (41)	08:17	09:08
	16:26	17:35	14 08:45 (41)	18:38	21 07:38 (42)	20:44	21:48	22:32	22:18	21:15	19:53	18:31	22 09:20 (41)	16:20	15:51
17	09:01	08:00	08:29 (41)	06:47	07:17 (42)	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:57 (41)	08:19	09:09
	16:28	17:37	18 08:47 (41)	18:40	21 07:38 (42)	20:46	21:50	22:32	22:17	21:13	19:50	18:29	23 09:20 (41)	16:19	15:51
18	09:00	07:58	08:27 (41)	06:44	07:16 (42)	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:57 (41)	08:21	09:10
	16:30	17:40	21 08:48 (41)	18:42	22 07:38 (42)	20:49	21:52	22:33	22:15	21:10	19:47	18:26	24 09:21 (41)	16:17	15:51
19	08:58	07:56	08:27 (41)	06:42	07:15 (42)	06:18	05:09	04:38	05:06	06:07	07:11	08:07 (42)	08:14	08:56 (41)	08:23	09:10
	16:32	17:42	22 08:49 (41)	18:44	22 07:37 (42)	20:51	21:54	22:33	22:14	21:08	19:44	10 08:17 (42)	18:23	24 09:20 (41)	16:15	15:51
20	08:57	07:53	08:26 (41)	06:39	07:16 (42)	06:15	05:07	04:38	05:08	06:09	07:13	08:04 (42)	08:16	08:56 (41)	08:25	09:11
	16:34	17:44	23 08:49 (41)	18:46	21 07:37 (42)	20:53	21:55	22:34	22:12	21:05	19:42	15 08:19 (42)	18:21	24 09:20 (41)	16:14	15:52
21	08:55	07:51	08:25 (41)	06:36	07:16 (42)	06:13	05:05	04:38	05:09	06:11	07:15	08:02 (42)	08:19	08:56 (41)	08:27	09:12
	16:36	17:46	24 08:49 (41)	18:48	20 07:36 (42)	20:55	21:57	22:34	22:11	21:03	19:39	18 08:20 (42)	18:18	24 09:20 (41)	16:12	15:52
22	08:54	07:48	08:25 (41)	06:33	07:17 (42)	06:10	05:04	04:38	05:11	06:13	07:17	08:01 (42)	08:21	08:56 (41)	08:29	09:12
	16:38	17:49	25 08:50 (41)	18:51	18 07:35 (42)	20:57	21:59	22:34	22:09	21:00	19:36	20 08:21 (42)	18:16	23 09:19 (41)	16:10	15:52
23	08:52	07:46	08:25 (41)	06:31	07:17 (42)	06:08	05:02	04:38	05:13	06:15	07:19	08:00 (42)	08:23	08:57 (41)	08:31	09:13
	16:40	17:51	24 08:49 (41)	18:53	16 07:33 (42)	20:59	22:01	22:34	22:07	20:57	19:33	21 08:21 (42)	18:13	21 09:18 (41)	16:09	15:53
24	08:51	07:43	08:25 (41)	06:28	07:20 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:59 (42)	08:25	08:58 (41)	08:33	09:13
	16:42	17:53	24 08:49 (41)	18:55	11 07:31 (42)	21:02	22:03	22:34	22:05	20:55	19:31	22 08:21 (42)	18:11	20 09:18 (41)	16:07	15:54
25	08:49	07:40	08:26 (41)	06:25	07:23 (42)	06:02	04:59	04:39	05:17	06:19	07:23	07:59 (42)	07:28	07:59 (41)	08:35	09:14
	16:45	17:56	23 08:49 (41)	18:57	4 07:27 (42)	21:04	22:05	22:34	22:04	20:52	19:28	22 08:21 (42)	17:08	17 08:16 (41)	16:06	15:54
26	08:47	07:38	08:26 (41)	06:23		06:00	04:57	04:39	05:18	06:21	07:25	07:58 (42)	07:30	08:02 (41)	08:37	09:14
	16:47	17:58	22 08:48 (41)	18:59		21:06	22:06	22:34	22:02	20:50	19:25	22 08:20 (42)	17:06	13 08:15 (41)	16:05	15:55
27	08:45	07:35	08:26 (41)	06:20		05:58	04:56	04:40	05:20	06:24	07:27	07:58 (42)	07:32	08:04 (41)	08:39	09:14
	16:49	18:00	21 08:47 (41)	19:01		21:08	22:08	22:34	22:00	20:47	19:22	21 08:19 (42)	17:03	7 08:11 (41)	16:03	15:56
28	08:44	07:33	08:28 (41)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	07:59 (42)	07:34		08:41	09:14
	16:51	18:02	18 08:46 (41)	19:03		21:10	22:10	22:34	21:58	20:44	19:20	20 08:19 (42)	17:01		16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	08:01 (42)	07:36		08:43	09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17	17 08:18 (42)	16:59		16:01	15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34	08:03 (42)	07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14	13 08:16 (42)	16:56		16:00	15:59
31	08:38			07:09			04:50		05:28	06:32			07:41			09:14
	16:58			20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385	322		244	211
Total, worst case		288	255							221	325			
Sun reduction		0.33	0.46							0.50	0.42			
Oper. time red.		0.94	0.94							0.94	0.94			
Wind dir. red.		0.60	0.61							0.61	0.60			
Total reduction		0.19	0.26							0.29	0.24			
Total, real		54	67							63	78			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ER - Melki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:14		10:09 (3)	08:36			07:30		08:51 (41)	07:06		07:56 (2)	05:48	04:49
	16:01	25	10:34 (3)	17:00			18:05	27	09:18 (41)	20:12	36	08:32 (42)	21:17	22:16
2	09:14		10:09 (3)	08:34			07:27		08:52 (41)	07:03		07:56 (2)	05:45	04:48
	16:03	25	10:34 (3)	17:03			18:07	24	09:16 (41)	20:14	34	08:30 (42)	21:19	22:17
3	09:13		10:10 (3)	08:32			07:25		08:53 (41)	07:01		07:57 (2)	05:43	04:47
	16:04	25	10:35 (3)	17:05			18:09	20	09:13 (41)	20:16	31	08:28 (42)	21:21	22:19
4	09:13		10:10 (3)	08:30			07:22		08:57 (41)	06:58		07:58 (2)	05:41	04:45
	16:05	25	10:35 (3)	17:07			18:11	13	09:10 (41)	20:18	29	08:27 (42)	21:23	22:20
5	09:12		10:10 (3)	08:28			07:20			06:55		08:00 (2)	05:38	04:44
	16:07	26	10:36 (3)	17:09			18:13			20:21	23	08:23 (42)	21:25	22:21
6	09:12		10:10 (3)	08:26			07:17			06:52		08:02 (2)	05:36	04:44
	16:08	26	10:36 (3)	17:12			18:16			20:23	10	08:12 (2)	21:27	22:23
7	09:11		10:10 (3)	08:23		08:59 (4)	07:14			06:50			05:34	04:43
	16:10	27	10:37 (3)	17:14	3	09:02 (4)	18:18			20:25			21:29	22:24
8	09:10		10:11 (3)	08:21		08:54 (4)	07:12			06:47		07:13 (43)	05:32	04:42
	16:11	26	10:37 (3)	17:16	12	09:06 (4)	18:20			20:27	10	07:23 (43)	21:31	22:25
9	09:10		10:11 (3)	08:19		08:52 (4)	07:09			06:44		07:10 (43)	05:29	04:41
	16:13	27	10:38 (3)	17:19	19	09:11 (41)	18:22			20:29	14	07:24 (43)	21:33	22:26
10	09:09		10:12 (3)	08:17		08:50 (4)	07:06			06:42		07:08 (43)	05:27	04:40
	16:15	26	10:38 (3)	17:21	24	09:14 (41)	18:24			20:31	18	07:26 (43)	21:36	22:27
11	09:08		10:12 (3)	08:15		08:49 (4)	07:03			06:39		07:06 (43)	05:25	04:40
	16:16	27	10:39 (3)	17:23	27	09:16 (41)	18:27			20:33	20	07:26 (43)	21:38	22:28
12	09:07		10:13 (3)	08:12		08:48 (4)	07:01			06:36		07:04 (43)	05:23	04:39
	16:18	27	10:40 (3)	17:26	30	09:18 (41)	18:29			20:36	22	07:26 (43)	21:40	22:29
13	09:06		10:13 (3)	08:10		08:48 (4)	06:58			06:34		07:04 (43)	05:21	04:39
	16:20	26	10:39 (3)	17:28	31	09:19 (41)	18:31			20:38	23	07:27 (43)	21:42	22:30
14	09:05		10:14 (3)	08:08		08:47 (4)	06:55			06:31		07:03 (43)	05:19	04:38
	16:22	26	10:40 (3)	17:30	33	09:20 (41)	18:33			20:40	24	07:27 (43)	21:44	22:30
15	09:04		10:14 (3)	08:05		08:47 (4)	06:53			06:28		07:03 (43)	05:17	04:38
	16:24	26	10:40 (3)	17:33	34	09:21 (41)	18:35			20:42	24	07:27 (43)	21:46	22:31
16	09:02		10:15 (3)	08:03		08:46 (4)	06:50			06:26		07:03 (43)	05:15	04:38
	16:26	25	10:40 (3)	17:35	36	09:22 (41)	18:38			20:44	23	07:26 (43)	21:48	22:32
17	09:01		10:15 (3)	08:00		08:47 (4)	06:47		07:20 (42)	06:23		07:03 (43)	05:13	04:38
	16:28	25	10:40 (3)	17:37	36	09:23 (41)	18:40	7	07:27 (42)	20:46	23	07:26 (43)	21:50	22:32
18	09:00		10:15 (3)	07:58		08:46 (4)	06:44		07:15 (42)	06:20		07:03 (43)	05:11	04:38
	16:30	25	10:40 (3)	17:40	37	09:23 (41)	18:42	16	07:31 (42)	20:49	22	07:25 (43)	21:52	22:33
19	08:58		10:17 (3)	07:55		08:47 (4)	06:42		07:12 (42)	06:18		07:04 (43)	05:09	04:37
	16:32	23	10:40 (3)	17:42	37	09:24 (41)	18:44	20	07:32 (42)	20:51	21	07:25 (43)	21:54	22:33
20	08:57		10:18 (3)	07:53		08:47 (4)	06:39		07:09 (2)	06:15		07:04 (43)	05:07	04:38
	16:34	22	10:40 (3)	17:44	36	09:23 (41)	18:46	25	07:34 (42)	20:53	19	07:23 (43)	21:55	22:34
21	08:55		10:18 (3)	07:51		08:47 (4)	06:36		07:05 (2)	06:13		07:05 (43)	05:05	04:38
	16:36	21	10:39 (3)	17:46	36	09:23 (41)	18:48	30	07:35 (42)	20:55	17	07:22 (43)	21:57	22:34
22	08:54		10:19 (3)	07:48		08:48 (41)	06:33		07:02 (2)	06:10		07:06 (43)	05:04	04:38
	16:38	20	10:39 (3)	17:49	36	09:24 (41)	18:51	34	07:36 (42)	20:57	14	07:20 (43)	21:59	22:34
23	08:52		10:21 (3)	07:45		08:47 (41)	06:31		07:00 (2)	06:08		07:09 (43)	05:02	04:38
	16:40	17	10:38 (3)	17:51	36	09:23 (41)	18:53	36	07:36 (42)	20:59	8	07:17 (43)	22:01	22:34
24	08:51		10:22 (3)	07:43		08:47 (41)	06:28		07:00 (2)	06:05			05:00	04:38
	16:42	15	10:37 (3)	17:53	35	09:22 (41)	18:55	37	07:37 (42)	21:01			22:03	22:34
25	08:49		10:24 (3)	07:40		08:48 (41)	06:25		06:58 (2)	06:02			04:59	04:39
	16:45	11	10:35 (3)	17:55	34	09:22 (41)	18:57	39	07:37 (42)	21:04			22:05	22:34
26	08:47		10:29 (3)	07:38		08:48 (41)	06:22		06:57 (2)	06:00			04:57	04:39
	16:47	1	10:30 (3)	17:58	33	09:21 (41)	18:59	39	07:36 (42)	21:06			22:06	22:34
27	08:45			07:35		08:49 (41)	06:20		06:56 (2)	05:57			04:56	04:40
	16:49			18:00	31	09:20 (41)	19:01	40	07:36 (42)	21:08			22:08	22:34
28	08:44			07:33		08:50 (41)	06:17		06:57 (2)	05:55			04:54	04:40
	16:51			18:02	29	09:19 (41)	19:03	39	07:36 (42)	21:10			22:10	22:34
29	08:42						07:14		07:56 (2)	05:53			04:53	04:41
	16:53						20:06	39	08:35 (42)	21:12			22:11	22:34
30	08:40						07:11		07:56 (2)	05:50			04:51	04:42
	16:56						20:08	38	08:34 (42)	21:14			22:13	22:33
31	08:38						07:09		07:55 (2)				04:50	
	16:58						20:10	38	08:33 (42)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		595			665			561			465			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.60			0.59			0.62			0.64			
Total reduction		0.16			0.19			0.27			0.33			
Total, real		93			123			149			152			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ER - Melki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August			September			October			November			December		
1	04:42	05:30			06:34		07:05 (43)	07:36			07:43		08:20 (4)	08:47		09:54 (3)
	22:33	21:50			20:34	20	07:25 (43)	19:11			16:52	23	08:43 (41)	15:59	27	10:21 (3)
2	04:43	05:32			06:36		07:06 (43)	07:38			07:45		08:22 (4)	08:49		09:55 (3)
	22:32	21:48			20:31	18	07:24 (43)	19:09			16:49	18	08:40 (41)	15:58	26	10:21 (3)
3	04:44	05:34			06:38		07:08 (43)	07:40			07:48		08:24 (4)	08:50		09:55 (3)
	22:32	21:45			20:28	14	07:22 (43)	19:06			16:47	11	08:35 (4)	15:57	27	10:22 (3)
4	04:45	05:36			06:40		07:10 (43)	07:42			07:50			08:52		09:56 (3)
	22:31	21:43			20:26	10	07:20 (43)	19:03			16:45			15:56	26	10:22 (3)
5	04:46	05:38			06:42		07:13 (43)	07:44			07:52			08:54		09:56 (3)
	22:30	21:41			20:23	2	07:15 (43)	19:00			16:43			15:55	26	10:22 (3)
6	04:47	05:40			06:44		07:58 (2)	07:46			07:54			08:55		09:56 (3)
	22:30	21:39			20:20	10	08:08 (2)	18:58			16:40			15:54	26	10:22 (3)
7	04:48	05:42			06:46		07:55 (2)	07:48			07:57			08:57		09:57 (3)
	22:29	21:37			20:17	23	08:18 (42)	18:55			16:38			15:54	26	10:23 (3)
8	04:50	05:44			06:48		07:53 (2)	07:51			07:59			08:58		09:58 (3)
	22:28	21:34			20:15	28	08:21 (42)	18:52			16:36			15:53	25	10:23 (3)
9	04:51	05:46			06:50		07:51 (2)	07:53		09:33 (41)	08:01			09:00		09:58 (3)
	22:27	21:32			20:12	31	08:22 (42)	18:50	9	09:42 (41)	16:34			15:53	25	10:23 (3)
10	04:52	05:48			06:52		07:50 (2)	07:55		09:29 (41)	08:03			09:01		09:59 (3)
	22:26	21:30			20:09	33	08:23 (42)	18:47	17	09:46 (41)	16:32			15:52	25	10:24 (3)
11	04:54	05:50			06:54		07:49 (2)	07:57		09:27 (41)	08:06			09:02		09:59 (3)
	22:25	21:27			20:06	35	08:24 (42)	18:44	22	09:49 (41)	16:30			15:52	25	10:24 (3)
12	04:55	05:52			06:57		07:48 (2)	07:59		09:25 (41)	08:08			09:03		09:59 (3)
	22:23	21:25			20:04	37	08:25 (42)	18:42	25	09:50 (41)	16:28			15:51	25	10:24 (3)
13	04:56	05:54			06:59		07:47 (2)	08:01		09:23 (41)	08:10			09:05		10:01 (3)
	22:22	21:22			20:01	38	08:25 (42)	18:39	28	09:51 (41)	16:26			15:51	24	10:25 (3)
14	04:58	05:56			07:01		07:46 (2)	08:03		09:22 (41)	08:12			09:06		10:01 (3)
	22:21	21:20			19:58	39	08:25 (42)	18:36	30	09:52 (41)	16:24			15:51	24	10:25 (3)
15	04:59	05:59			07:03		07:46 (2)	08:06		09:21 (41)	08:14			09:07		10:02 (3)
	22:20	21:18			19:55	39	08:25 (42)	18:34	32	09:53 (41)	16:22			15:51	23	10:25 (3)
16	05:01	06:01			07:05		07:46 (2)	08:08		09:20 (41)	08:17		10:03 (3)	09:08		10:02 (3)
	22:18	21:15			19:53	39	08:25 (42)	18:31	33	09:53 (41)	16:20	2	10:05 (3)	15:51	23	10:25 (3)
17	05:03	06:03			07:07		07:46 (2)	08:10		09:19 (41)	08:19		09:58 (3)	09:09		10:03 (3)
	22:17	21:13			19:50	39	08:25 (42)	18:29	34	09:53 (41)	16:19	11	10:09 (3)	15:51	23	10:26 (3)
18	05:04	06:05			07:09		07:46 (2)	08:12		09:19 (41)	08:21		09:56 (3)	09:10		10:03 (3)
	22:15	21:10			19:47	38	08:24 (42)	18:26	35	09:54 (41)	16:17	15	10:11 (3)	15:51	23	10:26 (3)
19	05:06	06:07			07:11		07:46 (2)	08:14		09:18 (41)	08:23		09:56 (3)	09:10		10:04 (3)
	22:14	21:08			19:44	37	08:23 (42)	18:23	36	09:54 (41)	16:15	17	10:13 (3)	15:51	23	10:27 (3)
20	05:08	06:09		07:14 (43)	07:13		07:47 (2)	08:16		09:18 (41)	08:25		09:54 (3)	09:11		10:04 (3)
	22:12	21:05	9	07:23 (43)	19:42	36	08:23 (42)	18:21	36	09:54 (41)	16:14	20	10:14 (3)	15:52	23	10:27 (3)
21	05:09	06:11		07:12 (43)	07:15		07:48 (2)	08:19		09:18 (4)	08:27		09:54 (3)	09:12		10:05 (3)
	22:11	21:03	14	07:26 (43)	19:39	33	08:21 (42)	18:18	36	09:54 (41)	16:12	21	10:15 (3)	15:52	23	10:28 (3)
22	05:11	06:13		07:10 (43)	07:17		07:49 (2)	08:21		09:17 (4)	08:29		09:54 (3)	09:12		10:05 (3)
	22:09	21:00	17	07:27 (43)	19:36	31	08:20 (42)	18:16	37	09:54 (41)	16:10	22	10:16 (3)	15:52	23	10:28 (3)
23	05:13	06:15		07:07 (43)	07:19		07:51 (2)	08:23		09:16 (4)	08:31		09:53 (3)	09:13		10:06 (3)
	22:07	20:57	20	07:27 (43)	19:33	28	08:19 (42)	18:13	37	09:53 (41)	16:09	23	10:16 (3)	15:53	23	10:29 (3)
24	05:15	06:17		07:06 (43)	07:21		07:56 (42)	08:25		09:17 (4)	08:33		09:54 (3)	09:13		10:06 (3)
	22:05	20:55	22	07:28 (43)	19:31	21	08:17 (42)	18:11	36	09:53 (41)	16:07	24	10:18 (3)	15:54	23	10:29 (3)
25	05:17	06:19		07:06 (43)	07:23		07:57 (42)	07:27		08:16 (4)	08:35		09:53 (3)	09:14		10:06 (3)
	22:04	20:52	22	07:28 (43)	19:28	17	08:14 (42)	17:08	36	08:52 (41)	16:06	25	10:18 (3)	15:54	23	10:29 (3)
26	05:18	06:21		07:05 (43)	07:25		08:00 (42)	07:30		08:17 (4)	08:37		09:53 (3)	09:14		10:07 (3)
	22:02	20:50	23	07:28 (43)	19:25	11	08:11 (42)	17:06	35	08:52 (41)	16:05	26	10:19 (3)	15:55	23	10:30 (3)
27	05:20	06:23		07:04 (43)	07:27			07:32		08:16 (4)	08:39		09:53 (3)	09:14		10:07 (3)
	22:00	20:47	24	07:28 (43)	19:22			17:03	35	08:51 (41)	16:03	26	10:19 (3)	15:56	23	10:30 (3)
28	05:22	06:26		07:04 (43)	07:30			07:34		08:16 (4)	08:41		09:54 (3)	09:14		10:07 (3)
	21:58	20:44	24	07:28 (43)	19:20			17:01	33	08:49 (41)	16:02	26	10:20 (3)	15:57	24	10:31 (3)
29	05:24	06:28		07:04 (43)	07:32			07:36		08:17 (4)	08:43		09:54 (3)	09:14		10:08 (3)
	21:56	20:42	24	07:28 (43)	19:17			16:59	32	08:49 (41)	16:01	26	10:20 (3)	15:58	24	10:32 (3)
30	05:26	06:30		07:04 (43)	07:34			07:39		08:18 (4)	08:45		09:54 (3)	09:14		10:09 (3)
	21:54	20:39	23	07:27 (43)	19:14			16:56	29	08:47 (41)	16:00	27	10:21 (3)	15:59	23	10:32 (3)
31	05:28	06:32		07:04 (43)				07:41		08:19 (4)				09:14		10:09 (3)
	21:52	20:36	22	07:26 (43)				16:54	27	08:46 (41)				16:00	24	10:33 (3)
Potential sun hours	534	472			385			322			244			211		
Total, worst case			244			707			710			363			751	
Sun reduction			0.59			0.50			0.42			0.23			0.23	
Oper. time red.			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.			0.64			0.63			0.59			0.60			0.60	
Total reduction			0.35			0.29			0.24			0.13			0.13	
Total, real			86			206			167			47			96	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ES - Mendeli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June		
1	09:13		10:21 (29)	08:36		09:19 (30)	07:30		09:04 (28)	07:06			05:48			04:49		05:36 (21)
	16:02	30	10:51 (29)	17:00	24	09:43 (30)	18:05	14	09:18 (28)	20:12			21:16			22:16	29	06:05 (21)
2	09:13		10:21 (29)	08:34		09:19 (30)	07:27			07:03			05:46			04:48		05:36 (21)
	16:03	30	10:51 (29)	17:03	25	09:44 (30)	18:07			20:14			21:18			22:17	29	06:05 (21)
3	09:13		10:21 (29)	08:32		09:19 (30)	07:25			07:01			05:43			04:47		05:36 (21)
	16:04	31	10:52 (29)	17:05	25	09:44 (30)	18:09			20:16			21:21			22:18	29	06:05 (21)
4	09:12		10:22 (29)	08:30		09:19 (30)	07:22			06:58			05:41			04:46		05:36 (21)
	16:06	31	10:53 (29)	17:07	25	09:44 (30)	18:11			20:18			21:23			22:20	30	06:06 (21)
5	09:12		10:22 (29)	08:28		09:19 (30)	07:19			06:55			05:39			04:45		05:35 (21)
	16:07	31	10:53 (29)	17:10	25	09:44 (30)	18:14			20:21			21:25			22:21	31	06:06 (21)
6	09:11		10:22 (29)	08:25		09:08 (28)	07:17			06:52			05:36			04:44		05:35 (21)
	16:09	32	10:54 (29)	17:12	33	09:44 (30)	18:16			20:23			21:27			22:22	31	06:06 (21)
7	09:11		10:22 (29)	08:23		09:04 (28)	07:14			06:50			05:34			04:43		05:36 (21)
	16:10	32	10:54 (29)	17:14	39	09:43 (30)	18:18			20:25			21:29			22:23	31	06:07 (21)
8	09:10		10:22 (29)	08:21		09:02 (28)	07:11			06:47			05:32			04:42		05:36 (21)
	16:12	33	10:55 (29)	17:17	41	09:43 (30)	18:20			20:27			21:31			22:25	31	06:07 (21)
9	09:09		10:23 (29)	08:19		09:01 (28)	07:09			06:44			05:30			04:42		05:36 (21)
	16:13	33	10:56 (29)	17:19	41	09:42 (30)	18:22			20:29			21:33			22:26	32	06:08 (21)
10	09:08		10:23 (29)	08:17		08:59 (28)	07:06			06:42			05:27			04:41		05:36 (21)
	16:15	33	10:56 (29)	17:21	42	09:41 (30)	18:25			20:31			21:35			22:27	31	06:07 (21)
11	09:08		10:23 (29)	08:14		08:59 (28)	07:03			06:39		07:05 (27)	05:25			04:40		05:36 (21)
	16:17	33	10:56 (29)	17:24	40	09:39 (30)	18:27			20:33	11	07:16 (27)	21:37			22:28	32	06:08 (21)
12	09:07		10:23 (29)	08:12		08:57 (28)	07:01			06:36		07:02 (27)	05:23			04:40		05:36 (21)
	16:19	34	10:57 (29)	17:26	38	09:36 (30)	18:29			20:36	16	07:18 (27)	21:39			22:29	32	06:08 (21)
13	09:05		10:24 (29)	08:10		08:57 (28)	06:58			06:34		07:01 (27)	05:21			04:39		05:36 (21)
	16:20	34	10:58 (29)	17:28	32	09:29 (28)	18:31			20:38	19	07:20 (27)	21:41			22:29	32	06:08 (21)
14	09:04		10:24 (29)	08:07		08:56 (28)	06:55			06:31		06:59 (27)	05:19			04:39		05:37 (21)
	16:22	34	10:58 (29)	17:30	33	09:29 (28)	18:33			20:40	21	07:20 (27)	21:43			22:30	32	06:09 (21)
15	09:03		10:25 (29)	08:05		08:56 (28)	06:53			06:28		06:59 (27)	05:17			04:38		05:37 (21)
	16:24	33	10:58 (29)	17:33	34	09:30 (28)	18:35			20:42	22	07:21 (27)	21:45			22:31	32	06:09 (21)
16	09:02		10:25 (29)	08:03		08:55 (28)	06:50			06:26		06:57 (27)	05:15			04:38		05:37 (21)
	16:26	33	10:58 (29)	17:35	35	09:30 (28)	18:38			20:44	24	07:21 (27)	21:47			22:31	31	06:08 (21)
17	09:01		10:26 (29)	08:00		08:56 (28)	06:47			06:23		06:57 (27)	05:13			04:38		05:37 (21)
	16:28	33	10:59 (29)	17:37	34	09:30 (28)	18:40			20:46	25	07:22 (27)	21:49			22:32	32	06:09 (21)
18	08:59		10:26 (29)	07:58		08:55 (28)	06:44			06:21		06:56 (27)	05:11			04:38		05:37 (21)
	16:30	33	10:59 (29)	17:40	35	09:30 (28)	18:42			20:48	25	07:21 (27)	21:51			22:33	32	06:09 (21)
19	08:58		10:26 (29)	07:55		08:55 (28)	06:42			06:18		06:57 (27)	05:09			04:38		05:37 (21)
	16:32	33	10:59 (29)	17:42	34	09:29 (28)	18:44			20:51	24	07:21 (27)	21:53			22:33	32	06:09 (21)
20	08:57		10:27 (29)	07:53		08:55 (28)	06:39			06:15		06:56 (27)	05:07			04:38		05:37 (21)
	16:34	33	11:00 (29)	17:44	35	09:30 (28)	18:46			20:53	24	07:20 (27)	21:55			22:33	32	06:09 (21)
21	08:55		10:28 (29)	07:50		08:55 (28)	06:36			06:13		06:57 (27)	05:06		05:45 (21)	04:38		05:38 (21)
	16:36	31	10:59 (29)	17:47	34	09:29 (28)	18:48			20:55	23	07:20 (27)	21:57	7	05:52 (21)	22:34	32	06:10 (21)
22	08:54		10:28 (29)	07:48		08:56 (28)	06:33			06:10		06:56 (27)	05:04		05:43 (21)	04:38		05:38 (21)
	16:38	31	10:59 (29)	17:49	33	09:29 (28)	18:51			20:57	23	07:19 (27)	21:59	13	05:56 (21)	22:34	32	06:10 (21)
23	08:52		09:26 (30)	07:45		08:56 (28)	06:31			06:08		06:57 (27)	05:02		05:41 (21)	04:38		05:38 (21)
	16:40	37	10:59 (29)	17:51	32	09:28 (28)	18:53			20:59	22	07:19 (27)	22:01	16	05:57 (21)	22:34	32	06:10 (21)
24	08:50		09:24 (30)	07:43		08:56 (28)	06:28			06:05		06:57 (27)	05:01		05:40 (21)	04:39		05:39 (21)
	16:43	41	10:59 (29)	17:53	31	09:27 (28)	18:55			21:01	20	07:17 (27)	22:02	18	05:58 (21)	22:34	32	06:11 (21)
25	08:49		09:22 (30)	07:40		08:58 (28)	06:25			06:03		06:59 (27)	04:59		05:39 (21)	04:39		05:39 (21)
	16:45	43	10:58 (29)	17:56	28	09:26 (28)	18:57			21:03	17	07:16 (27)	22:04	21	06:00 (21)	22:34	32	06:11 (21)
26	08:47		09:21 (30)	07:38		08:58 (28)	06:23			06:00		07:00 (27)	04:57		05:38 (21)	04:40		05:39 (21)
	16:47	45	10:58 (29)	17:58	27	09:25 (28)	18:59			21:06	14	07:14 (27)	22:06	22	06:00 (21)	22:34	32	06:11 (21)
27	08:45		09:20 (30)	07:35		08:59 (28)	06:20			05:58		07:02 (27)	04:56		05:37 (21)	04:40		05:39 (21)
	16:49	44	10:57 (29)	18:00	24	09:23 (28)	19:01			21:08	9	07:11 (27)	22:08	24	06:01 (21)	22:34	32	06:11 (21)
28	08:43		09:20 (30)	07:33		09:02 (28)	06:17			05:55			04:54		05:37 (21)	04:41		05:40 (21)
	16:51	43	10:56 (29)	18:02	19	09:21 (28)	19:03			21:10			22:09	25	06:02 (21)	22:33	32	06:12 (21)
29	08:42		09:20 (30)				07:14			05:53			04:53		05:37 (21)	04:41		05:40 (21)
	16:54	41	10:55 (29)				20:06			21:12			22:11	26	06:03 (21)	22:33	31	06:11 (21)
30	08:40		09:20 (30)				07:12			05:50			04:52		05:37 (21)	04:42		05:40 (21)
	16:56	38	10:53 (29)				20:08			21:14			22:12	27	06:04 (21)	22:33	32	06:12 (21)
31	08:38		09:19 (30)				07:09						04:50		05:37 (21)			
	16:58	33	10:50 (29)				20:10						22:14	27	06:04 (21)			
Potential sun hours	231			264			366			428			512			534		
Total, worst case		1076			898			14			339			226			942	
Sun reduction		0.27			0.33			0.46			0.55			0.61			0.57	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.60			0.58			0.59			0.64			0.68			0.68	
Total reduction		0.16			0.18			0.25			0.33			0.39			0.36	
Total, real		167			164			4			112			88			342	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ES - Mendeli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:43		05:41 (21)	05:30			06:34		07:04 (27)	07:36			07:43		08:29 (28)	08:46		10:05 (29)
	22:32	31	06:12 (21)	21:49			20:34	11	07:15 (27)	19:11			16:52	41	09:10 (30)	15:59	33	10:38 (29)
2	04:44		05:40 (21)	05:32			06:36			07:38			07:45		08:31 (28)	08:48		10:05 (29)
	22:32	32	06:12 (21)	21:47			20:31			19:09			16:50	41	09:12 (30)	15:58	33	10:38 (29)
3	04:45		05:41 (21)	05:34			06:38			07:40			07:47		08:32 (28)	08:50		10:06 (29)
	22:31	31	06:12 (21)	21:45			20:28			19:06			16:47	41	09:13 (30)	15:57	33	10:39 (29)
4	04:46		05:41 (21)	05:36			06:40			07:42			07:50		08:34 (28)	08:52		10:07 (29)
	22:31	31	06:12 (21)	21:43			20:25			19:03			16:45	38	09:13 (30)	15:56	32	10:39 (29)
5	04:47		05:41 (21)	05:38			06:42			07:44			07:52		08:38 (28)	08:53		10:07 (29)
	22:30	31	06:12 (21)	21:41			20:23			19:00			16:43	32	09:14 (30)	15:55	33	10:40 (29)
6	04:48		05:42 (21)	05:40			06:44			07:46			07:54		08:49 (30)	08:55		10:08 (29)
	22:29	30	06:12 (21)	21:39			20:20			18:58			16:41	25	09:14 (30)	15:55	32	10:40 (29)
7	04:49		05:42 (21)	05:42			06:46			07:48			07:56		08:49 (30)	08:56		10:09 (29)
	22:28	30	06:12 (21)	21:36			20:17			18:55			16:39	26	09:15 (30)	15:54	31	10:40 (29)
8	04:50		05:42 (21)	05:44			06:48			07:50			07:59		08:49 (30)	08:58		10:09 (29)
	22:27	30	06:12 (21)	21:34			20:15			18:52			16:36	25	09:14 (30)	15:53	31	10:40 (29)
9	04:51		05:42 (21)	05:46			06:50			07:53			08:01		08:50 (30)	08:59		10:10 (29)
	22:26	30	06:12 (21)	21:32			20:12			18:50			16:34	25	09:15 (30)	15:53	31	10:41 (29)
10	04:53		05:43 (21)	05:48			06:53			07:55			08:03		08:49 (30)	09:01		10:10 (29)
	22:25	30	06:13 (21)	21:29			20:09			18:47			16:32	25	09:14 (30)	15:52	30	10:40 (29)
11	04:54		05:44 (21)	05:51			06:55			07:57			08:05		08:50 (30)	09:02		10:11 (29)
	22:24	28	06:12 (21)	21:27			20:06			18:44			16:30	34	10:21 (29)	15:52	30	10:41 (29)
12	04:55		05:44 (21)	05:53			06:57			07:59		09:41 (28)	08:08		08:50 (30)	09:03		10:12 (29)
	22:23	28	06:12 (21)	21:25			20:04			18:42	7	09:48 (28)	16:28	39	10:24 (29)	15:52	29	10:41 (29)
13	04:57		05:44 (21)	05:55			06:59			08:01		09:36 (28)	08:10		08:52 (30)	09:04		10:12 (29)
	22:22	27	06:11 (21)	21:22			20:01			18:39	16	09:52 (28)	16:26	41	10:27 (29)	15:52	29	10:41 (29)
14	04:58		05:45 (21)	05:57			07:01			08:03		09:33 (28)	08:12		08:52 (30)	09:05		10:12 (29)
	22:21	27	06:12 (21)	21:20			19:58			18:36	21	09:54 (28)	16:24	43	10:28 (29)	15:51	29	10:41 (29)
15	05:00		05:46 (21)	05:59			07:03			08:05		09:32 (28)	08:14		08:53 (30)	09:07		10:14 (29)
	22:19	25	06:11 (21)	21:17			19:55			18:34	24	09:56 (28)	16:23	45	10:30 (29)	15:51	28	10:42 (29)
16	05:01		05:47 (21)	06:01		07:09 (27)	07:05			08:08		09:30 (28)	08:16		08:54 (30)	09:08		10:14 (29)
	22:18	24	06:11 (21)	21:15	10	07:19 (27)	19:53			18:31	27	09:57 (28)	16:21	45	10:31 (29)	15:51	29	10:43 (29)
17	05:03		05:47 (21)	06:03		07:06 (27)	07:07			08:10		09:29 (28)	08:18		08:56 (30)	09:08		10:15 (29)
	22:16	23	06:10 (21)	21:12	15	07:21 (27)	19:50			18:29	29	09:58 (28)	16:19	43	10:32 (29)	15:51	28	10:43 (29)
18	05:05		05:48 (21)	06:05		07:05 (27)	07:09			08:12		09:27 (28)	08:21		08:58 (30)	09:09		10:15 (29)
	22:15	21	06:09 (21)	21:10	18	07:23 (27)	19:47			18:26	31	09:58 (28)	16:17	41	10:33 (29)	15:51	28	10:43 (29)
19	05:06		05:49 (21)	06:07		07:04 (27)	07:11			08:14		09:27 (28)	08:23		09:01 (30)	09:10		10:16 (29)
	22:13	20	06:09 (21)	21:07	20	07:24 (27)	19:44			18:24	32	09:59 (28)	16:15	37	10:34 (29)	15:52	27	10:43 (29)
20	05:08		05:51 (21)	06:09		07:03 (27)	07:13			08:16		09:26 (28)	08:25		10:03 (29)	09:11		10:16 (29)
	22:12	17	06:08 (21)	21:05	21	07:24 (27)	19:42			18:21	33	09:59 (28)	16:14	31	10:34 (29)	15:52	28	10:44 (29)
21	05:10		05:52 (21)	06:11		07:02 (27)	07:15			08:19		09:25 (28)	08:27		10:03 (29)	09:11		10:16 (29)
	22:10	14	06:06 (21)	21:02	23	07:25 (27)	19:39			18:18	34	09:59 (28)	16:12	32	10:35 (29)	15:52	28	10:44 (29)
22	05:11		05:54 (21)	06:13		07:01 (27)	07:17			08:21		09:25 (28)	08:29		10:03 (29)	09:12		10:17 (29)
	22:09	11	06:05 (21)	21:00	24	07:25 (27)	19:36			18:16	35	10:00 (28)	16:11	33	10:36 (29)	15:53	28	10:45 (29)
23	05:13		05:57 (21)	06:15		07:01 (27)	07:19			08:23		09:25 (28)	08:31		10:03 (29)	09:12		10:17 (29)
	22:07	3	06:00 (21)	20:57	24	07:25 (27)	19:33			18:13	35	10:00 (28)	16:09	33	10:36 (29)	15:53	28	10:45 (29)
24	05:15			06:17		07:00 (27)	07:21			08:25		09:25 (28)	08:33		10:03 (29)	09:13		10:18 (29)
	22:05			20:55	25	07:25 (27)	19:31			18:11	35	10:00 (28)	16:08	33	10:36 (29)	15:54	28	10:46 (29)
25	05:17			06:20		06:59 (27)	07:23			07:27		08:25 (28)	08:35		10:04 (29)	09:13		10:19 (29)
	22:03			20:52	25	07:24 (27)	19:28			17:08	35	09:00 (28)	16:06	33	10:37 (29)	15:55	28	10:47 (29)
26	05:19			06:22		06:59 (27)	07:25			07:30		08:25 (28)	08:37		10:04 (29)	09:13		10:19 (29)
	22:01			20:49	24	07:23 (27)	19:25			17:06	34	08:59 (28)	16:05	33	10:37 (29)	15:55	28	10:47 (29)
27	05:21			06:24		06:59 (27)	07:27			07:32		08:26 (28)	08:39		10:04 (29)	09:14		10:19 (29)
	21:59			20:47	24	07:23 (27)	19:22			17:04	33	08:59 (28)	16:04	33	10:37 (29)	15:56	29	10:48 (29)
28	05:22			06:26		07:00 (27)	07:30			07:34		08:26 (28)	08:41		10:04 (29)	09:14		10:20 (29)
	21:58			20:44	22	07:22 (27)	19:20			17:01	32	08:58 (28)	16:02	34	10:38 (29)	15:57	28	10:48 (29)
29	05:24			06:28		07:00 (27)	07:32			07:36		08:27 (28)	08:43		10:04 (29)	09:14		10:20 (29)
	21:56			20:42	21	07:21 (27)	19:17			16:59	31	08:58 (28)	16:01	34	10:38 (29)	15:58	29	10:49 (29)
30	05:26			06:30		07:01 (27)	07:34			07:39		08:27 (28)	08:45		10:04 (29)	09:14		10:20 (29)
	21:54			20:39	18	07:19 (27)	19:14			16:56	39	09:06 (30)	16:00	34	10:38 (29)	15:59	29	10:49 (29)
31	05:28			06:32		07:02 (27)				07:41		08:28 (28)				09:14		10:20 (29)
	21:52			20:36	16	07:18 (27)				16:54	41	09:09 (30)				16:00	30	10:50 (29)
Potential sun hours	534			472			385			322			244			212		
Total, worst case		574			330			11			604			1050			917	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.68			0.64			0.64			0.59			0.59			0.61	
Total reduction		0.38			0.35			0.30			0.23			0.13			0.13	
Total, real		220			117			3			141			134			118	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ET - Me ž araji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May		June		July		August		September	October	November	December
1	09:13	08:36	07:30	07:06	05:48		04:49		05:57 (31)	04:43	06:07 (31)	05:30	06:09 (31)	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16		22:15	26	06:23 (31)	22:32 17	06:24 (31)	21:49 20	06:29 (31)	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46		04:48		05:58 (31)	04:44	06:07 (31)	05:32	06:10 (31)	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18		22:17	24	06:22 (31)	22:32 18	06:25 (31)	21:47 18	06:28 (31)	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43		04:47		05:58 (31)	04:45	06:06 (31)	05:34	06:12 (31)	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20		22:18	24	06:22 (31)	22:31 19	06:25 (31)	21:45 15	06:27 (31)	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41		04:46		05:58 (31)	04:46	06:06 (31)	05:36	06:13 (31)	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23		22:20	24	06:22 (31)	22:30 20	06:26 (31)	21:43 10	06:23 (31)	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39		04:45		05:59 (31)	04:47	06:06 (31)	05:38		06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25		22:21	22	06:21 (31)	22:30 20	06:26 (31)	21:41		20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:52	05:36		04:44		05:59 (31)	04:48	06:05 (31)	05:40		06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27		22:22	22	06:21 (31)	22:29 22	06:27 (31)	21:38		20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34		04:43		06:00 (31)	04:49	06:05 (31)	05:42		06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29		22:23	21	06:21 (31)	22:28 22	06:27 (31)	21:36		20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	06:06 (31)	04:42		06:00 (31)	04:50	06:05 (31)	05:44		06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31 6	06:12 (31)	22:24	21	06:21 (31)	22:27 23	06:28 (31)	21:34		20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	06:03 (31)	04:42		06:01 (31)	04:51	06:06 (31)	05:46		06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33 12	06:15 (31)	22:25	20	06:21 (31)	22:26 23	06:29 (31)	21:32		20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:27	06:01 (31)	04:41		06:02 (31)	04:53	06:05 (31)	05:49		06:52	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35 16	06:17 (31)	22:26	18	06:20 (31)	22:25 25	06:30 (31)	21:29		20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	05:59 (31)	04:40		06:03 (31)	04:54	06:05 (31)	05:51		06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37 19	06:18 (31)	22:27	17	06:20 (31)	22:24 25	06:30 (31)	21:27		20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	05:58 (31)	04:40		06:03 (31)	04:55	06:04 (31)	05:53		06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39 21	06:19 (31)	22:28	17	06:20 (31)	22:23 26	06:30 (31)	21:25		20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	05:57 (31)	04:39		06:03 (31)	04:57	06:05 (31)	05:55		06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41 23	06:20 (31)	22:29	17	06:20 (31)	22:22 26	06:31 (31)	21:22		20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	05:56 (31)	04:39		06:04 (31)	04:58	06:04 (31)	05:57		07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43 24	06:20 (31)	22:30	16	06:20 (31)	22:20 27	06:31 (31)	21:20		19:58	18:36	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	05:55 (31)	04:39		06:05 (31)	05:00	06:04 (31)	05:59		07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45 26	06:21 (31)	22:31	15	06:20 (31)	22:19 27	06:31 (31)	21:17		19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	05:55 (31)	04:38		06:05 (31)	05:01	06:04 (31)	06:01		07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47 27	06:22 (31)	22:31	14	06:19 (31)	22:18 28	06:32 (31)	21:15		19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	05:55 (31)	04:38		06:05 (31)	05:03	06:04 (31)	06:03		07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49 27	06:22 (31)	22:32	14	06:19 (31)	22:16 28	06:32 (31)	21:12		19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	05:54 (31)	04:38		06:06 (31)	05:05	06:04 (31)	06:05		07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51 28	06:22 (31)	22:32	13	06:19 (31)	22:15 29	06:33 (31)	21:10		19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	05:55 (31)	04:38		06:06 (31)	05:06	06:04 (31)	06:07		07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53 28	06:23 (31)	22:33	13	06:19 (31)	22:13 29	06:33 (31)	21:07		19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	05:54 (31)	04:38		06:07 (31)	05:08	06:04 (31)	06:09		07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55 29	06:23 (31)	22:33	13	06:20 (31)	22:12 29	06:33 (31)	21:05		19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	05:54 (31)	04:38		06:07 (31)	05:10	06:04 (31)	06:11		07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57 28	06:22 (31)	22:33	13	06:20 (31)	22:10 29	06:33 (31)	21:02		19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	05:54 (31)	04:38		06:07 (31)	05:11	06:04 (31)	06:13		07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59 29	06:23 (31)	22:34	13	06:20 (31)	22:08 29	06:33 (31)	21:00		19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	05:54 (31)	04:39		06:07 (31)	05:13	06:04 (31)	06:15		07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01 29	06:23 (31)	22:34	13	06:20 (31)	22:07 29	06:33 (31)	20:57		19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:01	05:54 (31)	04:39		06:08 (31)	05:15	06:04 (31)	06:17		07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02 29	06:23 (31)	22:34	13	06:21 (31)	22:05 29	06:33 (31)	20:55		19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	05:55 (31)	04:39		06:07 (31)	05:17	06:05 (31)	06:20		07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04 28	06:23 (31)	22:34	14	06:21 (31)	22:03 28	06:33 (31)	20:52		19:28	17:09	16:06	15:55
26	08:47	07:38	06:22	06:00	04:58	05:54 (31)	04:40		06:08 (31)	05:19	06:05 (31)	06:22		07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:06	22:06 29	06:23 (31)	22:34	14	06:22 (31)	22:01 27	06:32 (31)	20:49		19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	05:55 (31)	04:40		06:07 (31)	05:21	06:05 (31)	06:24		07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07 28	06:23 (31)	22:34	15	06:22 (31)	21:59 27	06:32 (31)	20:47		19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	05:55 (31)	04:41		06:08 (31)	05:23	06:06 (31)	06:26		07:29	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09 28	06:23 (31)	22:33	15	06:23 (31)	21:57 26	06:32 (31)	20:44		19:20	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	05:56 (31)	04:41		06:07 (31)	05:24	06:07 (31)	06:28		07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11 27	06:23 (31)	22:33	16	06:23 (31)	21:55 25	06:32 (31)	20:41		19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	05:56 (31)	04:42		06:07 (31)	05:26	06:06 (31)	06:30		07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12 27	06:23 (31)	22:33	17	06:24 (31)	21:53 24	06:30 (31)	20:39		19:14	16:57	16:00	15:59
31	08:38		07:09		04:51	05:57 (31)				05:28	06:07 (31)	06:32			07:41		09:14
	16:58		20:10		22:14 26	06:23 (31)				21:51 23	06:30 (31)	20:36			16:54		16:00
Potential sun hours	231	264	366	428	511		534		534		472		385	322	244	212	
Total, worst case						594		514		779		63					
Sun reduction						0.61		0.57		0.60		0.59					
Oper. time red.						0.94		0.94		0.94		0.94					
Wind dir. red.						0.67		0.67		0.67		0.67					
Total reduction						0.39		0.36		0.38		0.37					
Total, real						231		186		297		23					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EU - Me ž gali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May		June
1	09:14	08:36		07:30	08:13 (15)	07:06	08:13 (3)	05:48		04:49
	16:01	17:00		18:05	25 08:38 (15)	20:12	21 08:34 (3)	21:16		22:16
2	09:13	08:34		07:27	08:12 (15)	07:03	08:15 (3)	05:45		04:48
	16:03	17:03		18:07	26 08:38 (15)	20:14	17 08:32 (3)	21:19		22:17
3	09:13	08:32		07:25	08:12 (15)	07:01	08:17 (3)	05:43	06:14 (41)	04:47
	16:04	17:05		18:09	25 08:37 (15)	20:16	11 08:28 (3)	21:21	6 06:20 (41)	22:19
4	09:13	08:30		07:22	08:13 (15)	06:58		05:41	06:11 (41)	04:46
	16:05	17:07		18:11	24 08:37 (15)	20:18		21:23	12 06:23 (41)	22:20
5	09:12	08:28		07:20	08:14 (15)	06:55		05:38	06:09 (41)	04:45
	16:07	17:10		18:13	22 08:36 (15)	20:21		21:25	16 06:25 (41)	22:21
6	09:12	08:26		07:17	08:14 (15)	06:52		05:36	06:07 (41)	04:44
	16:08	17:12		18:16	20 08:34 (15)	20:23		21:27	19 06:26 (41)	22:23
7	09:11	08:23		07:14	08:16 (15)	06:50		05:34	06:06 (41)	04:43
	16:10	17:14		18:18	17 08:33 (15)	20:25		21:29	21 06:27 (41)	22:24
8	09:10	08:21		07:12	08:18 (15)	06:47		05:32	06:05 (41)	04:42
	16:11	17:16		18:20	12 08:30 (15)	20:27		21:31	23 06:28 (41)	22:25
9	09:09	08:19		07:09		06:44		05:29	06:04 (41)	04:41
	16:13	17:19		18:22		20:29		21:33	24 06:28 (41)	22:26
10	09:09	08:17		07:06		06:42		05:27	06:04 (41)	04:41
	16:15	17:21		18:25		20:31		21:35	25 06:29 (41)	22:27
11	09:08	08:15		07:03		06:39	07:05 (4)	05:25	06:03 (41)	04:40
	16:17	17:23		18:27		20:33	9 07:14 (4)	21:38	26 06:29 (41)	22:28
12	09:07	08:12		07:01		06:36	07:02 (4)	05:23	06:04 (41)	04:39
	16:18	17:26		18:29		20:36	14 07:16 (4)	21:40	26 06:30 (41)	22:29
13	09:06	08:10		06:58		06:34	07:01 (4)	05:21	06:03 (41)	04:39
	16:20	17:28		18:31		20:38	17 07:18 (4)	21:42	27 06:30 (41)	22:30
14	09:05	08:08		06:55		06:31	06:59 (4)	05:19	06:03 (41)	04:39
	16:22	17:30		18:33		20:40	19 07:18 (4)	21:44	27 06:30 (41)	22:30
15	09:03	08:05		06:53		06:28	06:58 (4)	05:17	06:03 (41)	04:38
	16:24	17:33		18:35		20:42	22 07:20 (4)	21:46	27 06:30 (41)	22:31
16	09:02	08:03		06:50	07:23 (3)	06:26	06:57 (4)	05:15	06:03 (41)	04:38
	16:26	17:35		18:38	11 07:34 (3)	20:44	22 07:19 (4)	21:48	26 06:29 (41)	22:32
17	09:01	08:00		06:47	07:20 (3)	06:23	06:57 (4)	05:13	06:04 (41)	04:38
	16:28	17:37		18:40	17 07:37 (3)	20:46	23 07:20 (4)	21:50	26 06:30 (41)	22:32
18	09:00	07:58		06:44	07:17 (3)	06:20	06:56 (4)	05:11	06:03 (41)	04:38
	16:30	17:40		18:42	21 07:38 (3)	20:49	23 07:19 (4)	21:52	26 06:29 (41)	22:33
19	08:58	07:55		06:42	07:15 (3)	06:18	06:56 (4)	05:09	06:03 (41)	04:38
	16:32	17:42		18:44	24 07:39 (3)	20:51	24 07:20 (4)	21:53	26 06:29 (41)	22:33
20	08:57	07:53		06:39	07:15 (3)	06:15	06:56 (4)	05:07	06:04 (41)	04:38
	16:34	17:44		18:46	26 07:41 (3)	20:53	23 07:19 (4)	21:55	25 06:29 (41)	22:34
21	08:55	07:51	08:21 (15)	06:36	07:13 (3)	06:13	06:56 (4)	05:06	06:04 (41)	04:38
	16:36	17:46	11 08:32 (15)	18:48	28 07:41 (3)	20:55	23 07:19 (4)	21:57	24 06:28 (41)	22:34
22	08:54	07:48	08:19 (15)	06:33	07:12 (3)	06:10	06:56 (4)	05:04	06:05 (41)	04:38
	16:38	17:49	16 08:35 (15)	18:51	29 07:41 (3)	20:57	21 07:17 (4)	21:59	23 06:28 (41)	22:34
23	08:52	07:45	08:17 (15)	06:31	07:11 (3)	06:08	06:57 (4)	05:02	06:05 (41)	04:38
	16:40	17:51	19 08:36 (15)	18:53	30 07:41 (3)	20:59	20 07:17 (4)	22:01	22 06:27 (41)	22:34
24	08:51	07:43	08:15 (15)	06:28	07:11 (3)	06:05	06:57 (4)	05:00	06:06 (41)	04:38
	16:42	17:53	22 08:37 (15)	18:55	31 07:42 (3)	21:01	18 07:15 (4)	22:03	21 06:27 (41)	22:34
25	08:49	07:40	08:15 (15)	06:25	07:11 (3)	06:03	06:59 (4)	04:59	06:08 (41)	04:39
	16:45	17:56	23 08:38 (15)	18:57	30 07:41 (3)	21:04	15 07:14 (4)	22:04	19 06:27 (41)	22:34
26	08:47	07:38	08:14 (15)	06:23	07:10 (3)	06:00	07:01 (4)	04:57	06:08 (41)	04:39
	16:47	17:58	24 08:38 (15)	18:59	31 07:41 (3)	21:06	11 07:12 (4)	22:06	18 06:26 (41)	22:34
27	08:45	07:35	08:13 (15)	06:20	07:10 (3)	05:58	07:04 (4)	04:56	06:09 (41)	04:40
	16:49	18:00	25 08:38 (15)	19:01	30 07:40 (3)	21:08	3 07:07 (4)	22:08	16 06:25 (41)	22:34
28	08:44	07:33	08:13 (15)	06:17	07:11 (3)	05:55		04:54	06:10 (41)	04:40
	16:51	18:02	26 08:39 (15)	19:03	29 07:40 (3)	21:10		22:10	14 06:24 (41)	22:34
29	08:42			07:14	08:11 (3)	05:53		04:53	06:12 (41)	04:41
	16:54			20:06	27 08:38 (3)	21:12		22:11	11 06:23 (41)	22:34
30	08:40			07:12	08:11 (3)	05:50		04:52	06:13 (41)	04:42
	16:56			20:08	26 08:37 (3)	21:14		22:13	8 06:21 (41)	22:33
31	08:38			07:09	08:12 (3)			04:50		
	16:58			20:10	23 08:35 (3)			22:14		
Potential sun hours	231	264		366		428		512		534
Total, worst case			166		584		356		584	
Sun reduction			0.33		0.46		0.55		0.61	
Oper. time red.			0.94		0.94		0.94		0.94	
Wind dir. red.			0.60		0.61		0.64		0.67	
Total reduction			0.19		0.26		0.33		0.39	
Total, real			31		154		117		225	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EU - Me ž gali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November	December
1	04:43			05:30		06:14 (41)	06:34		07:04 (4)	07:36			07:43	08:47
	22:33			21:50	26	06:40 (41)	20:34	9	07:13 (4)	19:11			16:52	15:59
2	04:43			05:32		06:15 (41)	06:36			07:38			07:45	08:48
	22:32			21:48	25	06:40 (41)	20:31			19:09			16:49	15:58
3	04:44			05:34		06:14 (41)	06:38			07:40			07:48	08:50
	22:32			21:45	25	06:39 (41)	20:28			19:06			16:47	15:57
4	04:45			05:36		06:15 (41)	06:40			07:42			07:50	08:52
	22:31			21:43	23	06:38 (41)	20:26			19:03			16:45	15:56
5	04:46			05:38		06:16 (41)	06:42			07:44		08:56 (15)	07:52	08:54
	22:30			21:41	22	06:38 (41)	20:23			19:00	8	09:04 (15)	16:43	15:55
6	04:47			05:40		06:16 (41)	06:44			07:46		08:53 (15)	07:54	08:55
	22:29			21:39	21	06:37 (41)	20:20			18:58	15	09:08 (15)	16:41	15:54
7	04:49			05:42		06:18 (41)	06:46			07:48		08:51 (15)	07:57	08:57
	22:29			21:37	18	06:36 (41)	20:17			18:55	18	09:09 (15)	16:38	15:54
8	04:50			05:44		06:19 (41)	06:48			07:51		08:49 (15)	07:59	08:58
	22:28			21:34	15	06:34 (41)	20:15			18:52	21	09:10 (15)	16:36	15:53
9	04:51			05:46		06:21 (41)	06:50		08:11 (3)	07:53		08:48 (15)	08:01	09:00
	22:27			21:32	11	06:32 (41)	20:12	11	08:22 (3)	18:50	23	09:11 (15)	16:34	15:53
10	04:52			05:48			06:52		08:08 (3)	07:55		08:47 (15)	08:03	09:01
	22:26			21:30			20:09	17	08:25 (3)	18:47	24	09:11 (15)	16:32	15:52
11	04:54			05:50			06:55		08:06 (3)	07:57		08:47 (15)	08:06	09:02
	22:25			21:27			20:06	20	08:26 (3)	18:44	25	09:12 (15)	16:30	15:52
12	04:55			05:52			06:57		08:04 (3)	07:59		08:46 (15)	08:08	09:03
	22:23			21:25			20:04	23	08:27 (3)	18:42	26	09:12 (15)	16:28	15:52
13	04:57		06:22 (41)	05:55			06:59		08:03 (3)	08:01		08:46 (15)	08:10	09:05
	22:22	6	06:28 (41)	21:22			20:01	25	08:28 (3)	18:39	25	09:11 (15)	16:26	15:51
14	04:58		06:21 (41)	05:57			07:01		08:01 (3)	08:03		08:45 (15)	08:12	09:06
	22:21	10	06:31 (41)	21:20			19:58	28	08:29 (3)	18:36	26	09:11 (15)	16:24	15:51
15	05:00		06:20 (41)	05:59			07:03		08:00 (3)	08:06		08:46 (15)	08:14	09:07
	22:20	12	06:32 (41)	21:18			19:55	29	08:29 (3)	18:34	25	09:11 (15)	16:22	15:51
16	05:01		06:18 (41)	06:01		07:10 (4)	07:05		08:00 (3)	08:08		08:46 (15)	08:17	09:08
	22:18	15	06:33 (41)	21:15	6	07:16 (4)	19:53	29	08:29 (3)	18:31	24	09:10 (15)	16:21	15:51
17	05:03		06:18 (41)	06:03		07:07 (4)	07:07		07:59 (3)	08:10		08:46 (15)	08:19	09:09
	22:17	17	06:35 (41)	21:13	12	07:19 (4)	19:50	30	08:29 (3)	18:29	23	09:09 (15)	16:19	15:51
18	05:04		06:17 (41)	06:05		07:05 (4)	07:09		07:58 (3)	08:12		08:48 (15)	08:21	09:10
	22:15	18	06:35 (41)	21:10	16	07:21 (4)	19:47	31	08:29 (3)	18:26	20	09:08 (15)	16:17	15:51
19	05:06		06:17 (41)	06:07		07:03 (4)	07:11		07:58 (3)	08:14		08:48 (15)	08:23	09:10
	22:14	20	06:37 (41)	21:08	19	07:22 (4)	19:44	30	08:28 (3)	18:23	19	09:07 (15)	16:15	15:51
20	05:08		06:15 (41)	06:09		07:02 (4)	07:13		07:58 (3)	08:16		08:50 (15)	08:25	09:11
	22:12	22	06:37 (41)	21:05	21	07:23 (4)	19:42	30	08:28 (3)	18:21	14	09:04 (15)	16:14	15:52
21	05:09		06:15 (41)	06:11		07:01 (4)	07:15		07:58 (3)	08:19		08:53 (15)	08:27	09:12
	22:10	23	06:38 (41)	21:03	22	07:23 (4)	19:39	29	08:27 (3)	18:18	9	09:02 (15)	16:12	15:52
22	05:11		06:15 (41)	06:13		07:01 (4)	07:17		07:58 (3)	08:21			08:29	09:12
	22:09	24	06:39 (41)	21:00	22	07:23 (4)	19:36	28	08:26 (3)	18:16			16:10	15:53
23	05:13		06:14 (41)	06:15		07:00 (4)	07:19		07:58 (3)	08:23			08:31	09:13
	22:07	25	06:39 (41)	20:57	24	07:24 (4)	19:33	27	08:25 (3)	18:13			16:09	15:53
24	05:15		06:14 (41)	06:17		06:59 (4)	07:21		07:59 (3)	08:25			08:33	09:13
	22:05	26	06:40 (41)	20:55	23	07:22 (4)	19:31	24	08:23 (3)	18:11			16:07	15:54
25	05:17		06:14 (41)	06:19		06:59 (4)	07:23		08:00 (3)	07:27			08:35	09:13
	22:03	25	06:39 (41)	20:52	23	07:22 (4)	19:28	22	08:22 (3)	17:08			16:06	15:54
26	05:19		06:14 (41)	06:21		06:59 (4)	07:25		08:01 (3)	07:30			08:37	09:14
	22:02	26	06:40 (41)	20:50	23	07:22 (4)	19:25	19	08:20 (3)	17:06			16:05	15:55
27	05:20		06:14 (41)	06:24		06:59 (4)	07:27		08:03 (3)	07:32			08:39	09:14
	22:00	26	06:40 (41)	20:47	22	07:21 (4)	19:22	14	08:17 (3)	17:04			16:03	15:56
28	05:22		06:14 (41)	06:26		06:59 (4)	07:30		08:10 (3)	07:34			08:41	09:14
	21:58	27	06:41 (41)	20:44	21	07:20 (4)	19:20	1	08:11 (3)	17:01			16:02	15:57
29	05:24		06:13 (41)	06:28		07:00 (4)	07:32			07:36			08:43	09:14
	21:56	27	06:40 (41)	20:42	19	07:19 (4)	19:17			16:59			16:01	15:58
30	05:26		06:13 (41)	06:30		07:01 (4)	07:34			07:39			08:45	09:14
	21:54	27	06:40 (41)	20:39	17	07:18 (4)	19:14			16:56			16:00	15:59
31	05:28		06:14 (41)	06:32		07:02 (4)				07:41				09:14
	21:52	26	06:40 (41)	20:36	14	07:16 (4)				16:54				16:00
Potential sun hours	534			472			385			322			244	211
Total, worst case		402			490			476			345			
Sun reduction		0.60			0.59			0.50			0.42			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.67			0.65			0.62			0.60			
Total reduction		0.38			0.36			0.29			0.24			
Total, real		152			176			137			82			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EV - Me ž rozes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:14		13:49 (9)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47		
	16:01	12	14:01 (9)	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58		
2	09:13		13:49 (9)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48		
	16:02	11	14:00 (9)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57		
3	09:13		13:51 (9)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50		
	16:03	9	14:00 (9)	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56		
4	09:13		13:53 (9)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		
	16:05	5	13:58 (9)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55		
5	09:12			08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		
	16:06			17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55		
6	09:11			08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		
	16:08			17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54		
7	09:11			08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		
	16:09			17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53		
8	09:10			08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58		13:41 (9)
	16:11			17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53	4	13:45 (9)
9	09:09			08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		13:40 (9)
	16:13			17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52	8	13:48 (9)
10	09:08			08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		13:40 (9)
	16:14			17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52	10	13:50 (9)
11	09:08			08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		13:39 (9)
	16:16			17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51	12	13:51 (9)
12	09:07			08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03		13:38 (9)
	16:18			17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51	13	13:51 (9)
13	09:06			08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		13:39 (9)
	16:20			17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51	14	13:53 (9)
14	09:04			08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06		13:39 (9)
	16:21			17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51	15	13:54 (9)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		13:39 (9)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	15	13:54 (9)
16	09:02			08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08		13:39 (9)
	16:25			17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50	16	13:55 (9)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09		13:39 (9)
	16:27			17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51	17	13:56 (9)
18	08:59			07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09		13:40 (9)
	16:29			17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:51	16	13:56 (9)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10		13:39 (9)
	16:31			17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51	17	13:56 (9)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		13:40 (9)
	16:33			17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:13	15:51	17	13:57 (9)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12		13:41 (9)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	17	13:58 (9)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12		13:41 (9)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52	17	13:58 (9)
23	08:52			07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13		13:42 (9)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53	17	13:59 (9)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		13:42 (9)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53	17	13:59 (9)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		13:43 (9)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54	16	13:59 (9)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14		13:43 (9)
	16:46			17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55	17	14:00 (9)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		13:44 (9)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55	16	14:00 (9)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		13:44 (9)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56	16	14:00 (9)
29	08:42				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14		13:45 (9)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57	15	14:00 (9)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		13:46 (9)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58	15	14:01 (9)
31	08:38				07:08		04:50		05:28	06:31		07:41		09:14		13:47 (9)
	16:58				20:10		22:14		21:52	20:36		16:54		15:59	13	14:00 (9)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		37													350	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.67													0.67	
Total reduction		0.17													0.14	
Total, real		6													50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EW - Metras

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February			March			April			May	June
1	09:14	08:36			07:30		07:57 (41)	07:06		07:48 (42)	05:48	04:49
	16:01	17:00			18:05	17	08:14 (41)	20:12	17	08:05 (42)	21:17	22:16
2	09:14	08:34			07:27		07:55 (41)	07:03		07:49 (42)	05:45	04:48
	16:03	17:03			18:07	20	08:15 (41)	20:14	14	08:03 (42)	21:19	22:17
3	09:13	08:32			07:25		07:55 (41)	07:01		07:51 (42)	05:43	04:47
	16:04	17:05			18:09	21	08:16 (41)	20:16	9	08:00 (42)	21:21	22:19
4	09:13	08:30			07:22		07:53 (41)	06:58			05:41	04:46
	16:05	17:07			18:11	23	08:16 (41)	20:18			21:23	22:20
5	09:12	08:28			07:20		07:53 (41)	06:55			05:38	04:45
	16:07	17:10			18:13	23	08:16 (41)	20:21			21:25	22:21
6	09:12	08:26			07:17		07:52 (41)	06:52			05:36	04:44
	16:08	17:12			18:16	24	08:16 (41)	20:23			21:27	22:23
7	09:11	08:23			07:14		07:52 (41)	06:50			05:34	04:43
	16:10	17:14			18:18	24	08:16 (41)	20:25			21:29	22:24
8	09:10	08:21			07:12		07:52 (41)	06:47			05:32	04:42
	16:11	17:16			18:20	24	08:16 (41)	20:27			21:31	22:25
9	09:10	08:19			07:09		07:52 (41)	06:44			05:29	04:41
	16:13	17:19			18:22	23	08:15 (41)	20:29			21:33	22:26
10	09:09	08:17			07:06		07:52 (41)	06:42			05:27	04:40
	16:15	17:21			18:25	22	08:14 (41)	20:31			21:36	22:27
11	09:08	08:15			07:04		07:54 (41)	06:39			05:25	04:40
	16:16	17:23			18:27	19	08:13 (41)	20:34			21:38	22:28
12	09:07	08:12			07:01		07:55 (41)	06:36			05:23	04:39
	16:18	17:26			18:29	16	08:11 (41)	20:36			21:40	22:29
13	09:06	08:10			06:58		07:56 (41)	06:34			05:21	04:39
	16:20	17:28			18:31	12	08:08 (41)	20:38			21:42	22:30
14	09:05	08:08			06:55			06:31			05:19	04:38
	16:22	17:30			18:33			20:40			21:44	22:31
15	09:04	08:05			06:53			06:28			05:17	04:38
	16:24	17:33			18:35			20:42			21:46	22:31
16	09:02	08:03			06:50			06:26			05:15	04:38
	16:26	17:35			18:38			20:44			21:48	22:32
17	09:01	08:00			06:47			06:23			05:13	04:38
	16:28	17:37			18:40			20:46			21:50	22:32
18	09:00	07:58			06:44			06:20			05:11	04:38
	16:30	17:40			18:42			20:49			21:52	22:33
19	08:58	07:56			06:42			06:18			05:09	04:38
	16:32	17:42			18:44			20:51			21:54	22:33
20	08:57	07:53			06:39			06:15			05:07	04:38
	16:34	17:44			18:46			20:53			21:55	22:34
21	08:55	07:51			06:36			06:13			05:05	04:38
	16:36	17:46			18:48			20:55			21:57	22:34
22	08:54	07:48			06:33		06:59 (42)	06:10			05:04	04:38
	16:38	17:49			18:51	5	07:04 (42)	20:57			21:59	22:34
23	08:52	07:46			06:31		06:56 (42)	06:08			05:02	04:38
	16:40	17:51			18:53	10	07:06 (42)	20:59			22:01	22:34
24	08:51	07:43			06:28		06:54 (42)	06:05			05:00	04:38
	16:42	17:53			18:55	14	07:08 (42)	21:02			22:03	22:34
25	08:49	07:40			06:25		06:51 (42)	06:03			04:59	04:39
	16:45	17:56			18:57	17	07:08 (42)	21:04			22:05	22:34
26	08:47	07:38			06:23		06:48 (42)	06:00			04:57	04:39
	16:47	17:58			18:59	20	07:08 (42)	21:06			22:06	22:34
27	08:45	07:35		08:02 (41)	06:20		06:48 (42)	05:58			04:56	04:40
	16:49	18:00	7	08:09 (41)	19:01	20	07:08 (42)	21:08			22:08	22:34
28	08:44	07:33		08:00 (41)	06:17		06:48 (42)	05:55			04:54	04:40
	16:51	18:02	13	08:13 (41)	19:03	21	07:09 (42)	21:10			22:10	22:34
29	08:42				07:14		07:47 (42)	05:53			04:53	04:41
	16:53				20:06	21	08:08 (42)	21:12			22:11	22:34
30	08:40				07:12		07:47 (42)	05:50			04:51	04:42
	16:56				20:08	20	08:07 (42)	21:14			22:13	22:33
31	08:38				07:09		07:47 (42)				04:50	
	16:58				20:10	19	08:06 (42)				22:14	
Potential sun hours	231	264			366			428			512	534
Total, worst case			20			435			40			
Sun reduction			0.33			0.46			0.55			
Oper. time red.			0.94			0.94			0.94			
Wind dir. red.			0.60			0.61			0.63			
Total reduction			0.19			0.26			0.32			
Total, real			4			114			13			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EW - Metras

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September			October			November	December
1	04:43	05:30	06:34			07:36		08:35 (41)	07:43	08:47
	22:33	21:50	20:34			19:11	14	08:49 (41)	16:52	15:59
2	04:43	05:32	06:36			07:38		08:33 (41)	07:45	08:49
	22:32	21:48	20:31			19:09	17	08:50 (41)	16:49	15:58
3	04:44	05:34	06:38			07:40		08:31 (41)	07:48	08:50
	22:32	21:45	20:28			19:06	20	08:51 (41)	16:47	15:57
4	04:45	05:36	06:40			07:42		08:30 (41)	07:50	08:52
	22:31	21:43	20:26			19:03	22	08:52 (41)	16:45	15:56
5	04:46	05:38	06:42			07:44		08:29 (41)	07:52	08:54
	22:30	21:41	20:23			19:00	23	08:52 (41)	16:43	15:55
6	04:47	05:40	06:44			07:46		08:29 (41)	07:54	08:55
	22:30	21:39	20:20			18:58	24	08:53 (41)	16:41	15:54
7	04:49	05:42	06:46			07:48		08:28 (41)	07:57	08:57
	22:29	21:37	20:17			18:55	24	08:52 (41)	16:38	15:54
8	04:50	05:44	06:48			07:51		08:28 (41)	07:59	08:58
	22:28	21:34	20:15			18:52	24	08:52 (41)	16:36	15:53
9	04:51	05:46	06:50		07:45 (42)	07:53		08:28 (41)	08:01	09:00
	22:27	21:32	20:12	9	07:54 (42)	18:50	23	08:51 (41)	16:34	15:53
10	04:52	05:48	06:52		07:43 (42)	07:55		08:28 (41)	08:03	09:01
	22:26	21:30	20:09	13	07:56 (42)	18:47	22	08:50 (41)	16:32	15:52
11	04:54	05:50	06:55		07:41 (42)	07:57		08:29 (41)	08:06	09:02
	22:25	21:27	20:06	17	07:58 (42)	18:44	21	08:50 (41)	16:30	15:52
12	04:55	05:52	06:57		07:40 (42)	07:59		08:29 (41)	08:08	09:04
	22:24	21:25	20:04	18	07:58 (42)	18:42	19	08:48 (41)	16:28	15:51
13	04:56	05:54	06:59		07:39 (42)	08:01		08:31 (41)	08:10	09:05
	22:22	21:23	20:01	19	07:58 (42)	18:39	15	08:46 (41)	16:26	15:51
14	04:58	05:57	07:01		07:38 (42)	08:03		08:33 (41)	08:12	09:06
	22:21	21:20	19:58	20	07:58 (42)	18:36	11	08:44 (41)	16:24	15:51
15	04:59	05:59	07:03		07:37 (42)	08:06		08:37 (41)	08:14	09:07
	22:20	21:18	19:55	21	07:58 (42)	18:34	3	08:40 (41)	16:22	15:51
16	05:01	06:01	07:05		07:37 (42)	08:08			08:17	09:08
	22:18	21:15	19:53	21	07:58 (42)	18:31			16:20	15:51
17	05:03	06:03	07:07		07:37 (42)	08:10			08:19	09:09
	22:17	21:13	19:50	20	07:57 (42)	18:29			16:19	15:51
18	05:04	06:05	07:09		07:38 (42)	08:12			08:21	09:10
	22:15	21:10	19:47	18	07:56 (42)	18:26			16:17	15:51
19	05:06	06:07	07:11		07:40 (42)	08:14			08:23	09:10
	22:14	21:08	19:44	15	07:55 (42)	18:23			16:15	15:51
20	05:08	06:09	07:13		07:42 (42)	08:16			08:25	09:11
	22:12	21:05	19:42	11	07:53 (42)	18:21			16:14	15:52
21	05:09	06:11	07:15		07:44 (42)	08:19			08:27	09:12
	22:11	21:03	19:39	7	07:51 (42)	18:18			16:12	15:52
22	05:11	06:13	07:17			08:21			08:29	09:12
	22:09	21:00	19:36			18:16			16:10	15:53
23	05:13	06:15	07:19			08:23			08:31	09:13
	22:07	20:57	19:33			18:13			16:09	15:53
24	05:15	06:17	07:21			08:25			08:33	09:13
	22:05	20:55	19:31			18:11			16:07	15:54
25	05:17	06:19	07:23			07:28			08:35	09:14
	22:04	20:52	19:28			17:08			16:06	15:54
26	05:18	06:21	07:25			07:30			08:37	09:14
	22:02	20:50	19:25			17:06			16:05	15:55
27	05:20	06:24	07:27			07:32			08:39	09:14
	22:00	20:47	19:22			17:04			16:03	15:56
28	05:22	06:26	07:30			07:34			08:41	09:14
	21:58	20:44	19:20			17:01			16:02	15:57
29	05:24	06:28	07:32			07:36			08:43	09:14
	21:56	20:42	19:17			16:59			16:01	15:58
30	05:26	06:30	07:34		08:38 (41)	07:39			08:45	09:14
	21:54	20:39	19:14	9	08:47 (41)	16:56			16:00	15:59
31	05:28	06:32				07:41				09:14
	21:52	20:36				16:54				16:00
Potential sun hours	534	472	385			322			244	211
Total, worst case				218			282			
Sun reduction				0.50			0.42			
Oper. time red.				0.94			0.94			
Wind dir. red.				0.63			0.60			
Total reduction				0.29			0.24			
Total, real				64			67			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EX - Mucenieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March		April		May	June	July	August	September		October	November	December
1	09:13	08:36	07:30		07:06	08:00 (29)	05:48	04:49	04:43	05:30	06:34		07:36	07:43	08:47
	16:02	17:01	18:05		20:12	12 08:12 (29)	21:16	22:16	22:32	21:49	20:34		19:11	16:52	15:59
2	09:13	08:34	07:27		07:03	08:02 (29)	05:46	04:48	04:44	05:32	06:36		07:38	07:45	08:48
	16:03	17:03	18:07		20:14	6 08:08 (29)	21:19	22:17	22:32	21:47	20:31		19:09	16:50	15:58
3	09:13	08:32	07:25		07:01		05:43	04:47	04:45	05:34	06:38		07:40	07:48	08:50
	16:04	17:05	18:09		20:16		21:21	22:18	22:31	21:45	20:28		19:06	16:47	15:57
4	09:12	08:30	07:22		06:58		05:41	04:46	04:46	05:36	06:40		07:42	07:50	08:52
	16:06	17:07	18:11		20:18		21:23	22:20	22:31	21:43	20:26		19:03	16:45	15:56
5	09:12	08:28	07:20		06:55		05:39	04:45	04:47	05:38	06:42		07:44	07:52	08:53
	16:07	17:10	18:14		20:21		21:25	22:21	22:30	21:41	20:23		19:01	16:43	15:56
6	09:11	08:25	07:17		06:53		05:36	04:44	04:48	05:40	06:44		07:46	07:54	08:55
	16:09	17:12	18:16		20:23		21:27	22:22	22:29	21:39	20:20		18:58	16:41	15:55
7	09:11	08:23	07:14		06:50		05:34	04:43	04:49	05:42	06:46		07:48	07:56	08:56
	16:10	17:14	18:18		20:25		21:29	22:23	22:28	21:36	20:17		18:55	16:39	15:54
8	09:10	08:21	07:12		06:47		05:32	04:42	04:50	05:45	06:49		07:51	07:59	08:58
	16:12	17:17	18:20		20:27		21:31	22:25	22:27	21:34	20:15		18:53	16:37	15:54
9	09:09	08:19	07:09		06:45		05:30	04:42	04:51	05:47	06:51		07:53	08:01	08:59
	16:13	17:19	18:22		20:29		21:33	22:26	22:26	21:32	20:12		18:50	16:34	15:53
10	09:08	08:17	07:06		06:42		05:28	04:41	04:53	05:49	06:53	07:56 (29)	07:55	08:03	09:01
	16:15	17:21	18:25		20:31		21:35	22:27	22:25	21:29	20:09	5 08:01 (29)	18:47	16:32	15:53
11	09:08	08:14	07:04		06:39		05:25	04:40	04:54	05:51	06:55	07:52 (29)	07:57	08:05	09:02
	16:17	17:24	18:27		20:33		21:37	22:28	22:24	21:27	20:06	12 08:04 (29)	18:44	16:30	15:52
12	09:07	08:12	07:01		06:36		05:23	04:40	04:55	05:53	06:57	07:50 (29)	07:59	08:08	09:03
	16:19	17:26	18:29		20:36		21:39	22:29	22:23	21:25	20:04	16 08:06 (29)	18:42	16:28	15:52
13	09:06	08:10	06:58		06:34		05:21	04:39	04:57	05:55	06:59	07:48 (29)	08:01	08:10	09:04
	16:21	17:28	18:31		20:38		21:41	22:29	22:22	21:22	20:01	19 08:07 (29)	18:39	16:26	15:52
14	09:04	08:07	06:55		06:31		05:19	04:39	04:58	05:57	07:01	07:47 (29)	08:03	08:12	09:05
	16:22	17:31	18:33		20:40		21:43	22:30	22:21	21:20	19:58	20 08:07 (29)	18:37	16:25	15:52
15	09:03	08:05	06:53		06:29		05:17	04:39	05:00	05:59	07:03	07:46 (29)	08:06	08:14	09:07
	16:24	17:33	18:36		20:42		21:45	22:31	22:19	21:17	19:55	22 08:08 (29)	18:34	16:23	15:51
16	09:02	08:03	06:50		06:26		05:15	04:38	05:01	06:01	07:05	07:45 (29)	08:08	08:16	09:08
	16:26	17:35	18:38		20:44		21:47	22:31	22:18	21:15	19:53	23 08:08 (29)	18:31	16:21	15:51
17	09:01	08:00	06:47		06:23		05:13	04:38	05:03	06:03	07:07	07:45 (29)	08:10	08:19	09:08
	16:28	17:37	18:40		20:46		21:49	22:32	22:17	21:13	19:50	22 08:07 (29)	18:29	16:19	15:51
18	08:59	07:58	06:45		06:21		05:11	04:38	05:05	06:05	07:09	07:44 (29)	08:12	08:21	09:09
	16:30	17:40	18:42		20:48		21:51	22:33	22:15	21:10	19:47	23 08:07 (29)	18:26	16:17	15:52
19	08:58	07:55	06:42	07:07 (29)	06:18		05:09	04:38	05:06	06:07	07:11	07:44 (29)	08:14	08:23	09:10
	16:32	17:42	18:44	5 07:12 (29)	20:51		21:53	22:33	22:13	21:08	19:44	22 08:06 (29)	18:24	16:16	15:52
20	08:57	07:53	06:39	07:05 (29)	06:15		05:08	04:38	05:08	06:09	07:13	07:44 (29)	08:16	08:25	09:11
	16:34	17:44	18:46	11 07:16 (29)	20:53		21:55	22:33	22:12	21:05	19:42	21 08:05 (29)	18:21	16:14	15:52
21	08:55	07:50	06:36	07:02 (29)	06:13		05:06	04:38	05:10	06:11	07:15	07:45 (29)	08:19	08:27	09:11
	16:36	17:47	18:48	16 07:18 (29)	20:55		21:57	22:34	22:10	21:02	19:39	19 08:04 (29)	18:19	16:12	15:53
22	08:54	07:48	06:34	06:59 (29)	06:10		05:04	04:38	05:12	06:13	07:17	07:46 (29)	08:21	08:29	09:12
	16:38	17:49	18:51	19 07:18 (29)	20:57		21:59	22:34	22:09	21:00	19:36	17 08:03 (29)	18:16	16:11	15:53
23	08:52	07:45	06:31	06:58 (29)	06:08		05:02	04:39	05:13	06:15	07:19	07:48 (29)	08:23	08:31	09:12
	16:41	17:51	18:53	21 07:19 (29)	20:59		22:01	22:34	22:07	20:57	19:33	13 08:01 (29)	18:14	16:09	15:54
24	08:50	07:43	06:28	06:58 (29)	06:05		05:01	04:39	05:15	06:18	07:21	07:50 (29)	08:25	08:33	09:13
	16:43	17:53	18:55	22 07:20 (29)	21:01		22:02	22:34	22:05	20:55	19:31	8 07:58 (29)	18:11	16:08	15:54
25	08:49	07:40	06:25	06:57 (29)	06:03		04:59	04:39	05:17	06:20	07:23		07:27	08:35	09:13
	16:45	17:56	18:57	22 07:19 (29)	21:04		22:04	22:34	22:03	20:52	19:28		17:09	16:06	15:55
26	08:47	07:38	06:23	06:56 (29)	06:00		04:58	04:40	05:19	06:22	07:25		07:30	08:37	09:13
	16:47	17:58	18:59	23 07:19 (29)	21:06		22:06	22:34	22:01	20:50	19:25		17:06	16:05	15:56
27	08:45	07:35	06:20	06:56 (29)	05:58		04:56	04:40	05:21	06:24	07:28		07:32	08:39	09:14
	16:49	18:00	19:01	22 07:18 (29)	21:08		22:08	22:34	22:00	20:47	19:22		17:04	16:04	15:56
28	08:43	07:33	06:17	06:57 (29)	05:55		04:55	04:41	05:23	06:26	07:30		07:34	08:41	09:14
	16:52	18:02	19:03	21 07:18 (29)	21:10		22:09	22:34	21:58	20:44	19:20		17:01	16:03	15:57
29	08:42		07:14	07:57 (29)	05:53		04:53	04:42	05:25	06:28	07:32		07:36	08:43	09:14
	16:54		20:06	20 08:17 (29)	21:12		22:11	22:33	21:56	20:42	19:17		16:59	16:01	15:58
30	08:40		07:12	07:57 (29)	05:50		04:52	04:42	05:26	06:30	07:34		07:39	08:45	09:14
	16:56		20:08	19 08:16 (29)	21:14		22:13	22:33	21:54	20:39	19:14		16:57	16:00	15:59
31	08:38		07:09	07:57 (29)			04:51		05:28	06:32			07:41		09:14
	16:58		20:10	17 08:14 (29)			22:14		21:52	20:36			16:54		16:00
Potential sun hours	231	264	366		428		512	534	534	472	385		322	244	212
Total, worst case				238		18						262			
Sun reduction				0.46		0.55						0.50			
Oper. time red.				0.94		0.94						0.94			
Wind dir. red.				0.63		0.63						0.63			
Total reduction				0.27		0.32						0.29			
Total, real				64		6						77			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EY - Mui ž araji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April		May		June	July	August		September	October	November	December
1	09:14	08:36	07:30	07:06		05:48	06:38 (16)	04:49	04:43	05:30		06:34	07:36	07:43	08:47
	16:02	17:00	18:05	20:12		21:16	18 06:56 (16)	22:16	22:33	21:50		20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03		05:46	06:40 (16)	04:48	04:44	05:32		06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14		21:19	15 06:55 (16)	22:17	22:32	21:47		20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01		05:43	06:41 (16)	04:47	04:45	05:34		06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16		21:21	12 06:53 (16)	22:19	22:31	21:45		20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58		05:41	06:44 (16)	04:46	04:46	05:36		06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:18		21:23	7 06:51 (16)	22:20	22:31	21:43		20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55		05:39		04:45	04:47	05:38		06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21		21:25		22:21	22:30	21:41		20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:53		05:36		04:44	04:48	05:40		06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23		21:27		22:22	22:29	21:39		20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50		05:34		04:43	04:49	05:42		06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25		21:29		22:24	22:28	21:36		20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47		05:32		04:42	04:50	05:44		06:48	07:51	07:59	08:58
	16:12	17:17	18:20	20:27		21:31		22:25	22:28	21:34		20:15	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44		05:30		04:41	04:51	05:46	06:52 (16)	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29		21:33		22:26	22:27	21:32	9 07:01 (16)	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42		05:27		04:41	04:53	05:48	06:50 (16)	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31		21:35		22:27	22:26	21:30	13 07:03 (16)	20:09	18:47	16:32	15:52
11	09:08	08:14	07:04	06:39		05:25		04:40	04:54	05:51	06:48 (16)	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33		21:37		22:28	22:24	21:27	16 07:04 (16)	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36		05:23		04:40	04:55	05:53	06:47 (16)	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36		21:40		22:29	22:23	21:25	18 07:05 (16)	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34		05:21		04:39	04:57	05:55	06:46 (16)	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38		21:42		22:30	22:22	21:22	19 07:05 (16)	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31		05:19		04:39	04:58	05:57	06:45 (16)	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40		21:44		22:30	22:21	21:20	21 07:06 (16)	19:58	18:37	16:24	15:51
15	09:03	08:05	06:53	06:28		05:17		04:38	05:00	05:59	06:44 (16)	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42		21:46		22:31	22:19	21:18	22 07:06 (16)	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26		05:15		04:38	05:01	06:01	06:44 (16)	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44		21:48		22:32	22:18	21:15	22 07:06 (16)	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23		05:13		04:38	05:03	06:03	06:44 (16)	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46		21:50		22:32	22:17	21:13	22 07:06 (16)	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:21	06:47 (16)	05:11		04:38	05:05	06:05	06:44 (16)	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	7 06:54 (16)	21:51		22:33	22:15	21:10	22 07:06 (16)	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	06:45 (16)	05:09		04:38	05:06	06:07	06:44 (16)	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	12 06:57 (16)	21:53		22:33	22:14	21:08	22 07:06 (16)	19:44	18:24	16:15	15:52
20	08:57	07:53	06:39	06:15	06:42 (16)	05:07		04:38	05:08	06:09	06:44 (16)	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	16 06:58 (16)	21:55		22:33	22:12	21:05	21 07:05 (16)	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	06:40 (16)	05:06		04:38	05:10	06:11	06:44 (16)	07:15	08:19	08:27	09:12
	16:36	17:47	18:48	20:55	19 06:59 (16)	21:57		22:34	22:10	21:03	21 07:05 (16)	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	06:39 (16)	05:04		04:38	05:11	06:13	06:45 (16)	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	20 06:59 (16)	21:59		22:34	22:09	21:00	18 07:03 (16)	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	06:38 (16)	05:02		04:38	05:13	06:15	06:47 (16)	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22 07:00 (16)	22:01		22:34	22:07	20:57	15 07:02 (16)	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	06:38 (16)	05:01		04:39	05:15	06:17	06:49 (16)	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22 07:00 (16)	22:03		22:34	22:05	20:55	11 07:00 (16)	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	06:37 (16)	04:59		04:39	05:17	06:20	06:51 (16)	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	23 07:00 (16)	22:04		22:34	22:03	20:52	6 06:57 (16)	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	06:37 (16)	04:57		04:40	05:19	06:22		07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	23 07:00 (16)	22:06		22:34	22:02	20:50		19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	06:37 (16)	04:56		04:40	05:21	06:24		07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22 06:59 (16)	22:08		22:34	22:00	20:47		19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	06:37 (16)	04:54		04:41	05:22	06:26		07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22 06:59 (16)	22:09		22:34	21:58	20:44		19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	06:38 (16)	04:53		04:41	05:24	06:28		07:32	07:36	08:43	09:14
	16:54		20:06	21:12	20 06:58 (16)	22:11		22:33	21:56	20:42		19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	06:38 (16)	04:52		04:42	05:26	06:30		07:34	07:39	08:45	09:14
	16:56		20:08	21:14	20 06:58 (16)	22:13		22:33	21:54	20:39		19:14	16:57	16:00	15:59
31	08:38		07:09			04:50			05:28	06:32			07:41		09:14
	16:58		20:10			22:14			21:52	20:36			16:54		16:00
Potential sun hours	231	264	366	428		512		534	534	472		385	322	244	211
Total, worst case					248		52				298				
Sun reduction					0.55		0.61				0.59				
Oper. time red.					0.94		0.94				0.94				
Wind dir. red.					0.65		0.65				0.65				
Total reduction					0.33		0.37				0.36				
Total, real					82		19				106				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EZ - Nikas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:14		09:56 (10)	08:36		10:06 (10)	07:30		15:54 (7)	07:06		18:39 (1)	05:47	04:49
	16:01	92	14:10 (8)	17:00	111	15:39 (6)	18:04	50	16:44 (7)	20:12	40	19:19 (1)	21:16	22:16
2	09:13		09:55 (10)	08:34		10:51 (9)	07:27		15:54 (7)	07:03		18:39 (1)	05:45	04:47
	16:02	92	14:10 (8)	17:02	96	15:39 (6)	18:06	50	16:44 (7)	20:14	41	19:20 (1)	21:18	22:17
3	09:13		09:56 (10)	08:32		10:52 (9)	07:25		15:54 (7)	07:00		18:38 (1)	05:43	04:46
	16:04	93	14:12 (8)	17:05	89	15:38 (6)	18:09	49	16:43 (7)	20:16	42	19:20 (1)	21:21	22:18
4	09:13		09:55 (10)	08:30		10:52 (9)	07:22		15:54 (7)	06:58		18:38 (1)	05:40	04:45
	16:05	95	14:12 (8)	17:07	81	15:37 (6)	18:11	49	16:43 (7)	20:18	42	19:20 (1)	21:23	22:20
5	09:12		09:55 (10)	08:28		10:53 (9)	07:19		15:54 (7)	06:55		18:38 (1)	05:38	04:44
	16:06	96	14:12 (8)	17:09	68	15:36 (6)	18:13	49	16:43 (7)	20:20	42	19:20 (1)	21:25	22:21
6	09:11		09:54 (10)	08:25		10:55 (9)	07:17		15:54 (7)	06:52		18:37 (1)	05:36	04:43
	16:08	100	14:13 (8)	17:12	52	15:34 (6)	18:15	48	16:42 (7)	20:22	42	19:19 (1)	21:27	22:22
7	09:11		09:54 (10)	08:23		10:55 (9)	07:14		15:55 (7)	06:49		18:37 (1)	05:34	04:42
	16:09	102	14:13 (8)	17:14	45	15:31 (6)	18:18	46	16:41 (7)	20:25	42	19:19 (1)	21:29	22:24
8	09:10		09:54 (10)	08:21		10:57 (9)	07:11		15:56 (7)	06:47		18:38 (1)	05:31	04:42
	16:11	110	15:21 (6)	17:16	32	11:29 (9)	18:20	45	16:41 (7)	20:27	41	19:19 (1)	21:31	22:25
9	09:09		09:54 (10)	08:19		10:59 (9)	07:09		15:56 (7)	06:44		18:37 (1)	05:29	04:41
	16:13	117	15:24 (6)	17:18	29	11:28 (9)	18:22	43	16:39 (7)	20:29	41	19:18 (1)	21:33	22:26
10	09:08		09:54 (10)	08:17		11:01 (9)	07:06		15:57 (7)	06:41		18:37 (1)	05:27	04:40
	16:14	122	15:26 (6)	17:21	24	11:25 (9)	18:24	41	16:38 (7)	20:31	39	19:16 (1)	21:35	22:27
11	09:08		09:54 (10)	08:14		11:04 (9)	07:03		15:58 (7)	06:39		18:38 (1)	05:25	04:40
	16:16	125	15:28 (6)	17:23	19	11:23 (9)	18:26	38	16:36 (7)	20:33	38	19:16 (1)	21:37	22:28
12	09:07		09:54 (10)	08:12		11:08 (9)	07:01		15:59 (7)	06:36		18:38 (1)	05:23	04:39
	16:18	129	15:29 (6)	17:25	10	11:18 (9)	18:29	36	16:35 (7)	20:35	37	19:15 (1)	21:39	22:29
13	09:06		09:54 (10)	08:10		16:13 (7)	06:58		16:01 (7)	06:33		18:39 (1)	05:21	04:39
	16:20	133	15:30 (6)	17:28	15	16:28 (7)	18:31	33	16:34 (7)	20:38	34	19:13 (1)	21:41	22:30
14	09:04		09:54 (10)	08:07		16:09 (7)	06:55		16:03 (7)	06:31		18:40 (1)	05:18	04:38
	16:22	138	15:32 (6)	17:30	22	16:31 (7)	18:33	28	16:31 (7)	20:40	32	19:12 (1)	21:43	22:30
15	09:03		09:54 (10)	08:05		16:07 (7)	06:52		16:05 (7)	06:28		18:41 (1)	05:16	04:38
	16:24	138	15:32 (6)	17:32	27	16:34 (7)	18:35	26	18:06 (43)	20:42	29	19:10 (1)	21:45	22:31
16	09:02		09:55 (10)	08:03		16:05 (7)	06:50		16:09 (7)	06:25		18:43 (1)	05:14	04:38
	16:25	141	15:34 (6)	17:35	31	16:36 (7)	18:37	23	18:08 (43)	20:44	26	19:09 (1)	21:47	22:32
17	09:01		09:54 (10)	08:00		16:03 (7)	06:47		18:00 (43)	06:23		18:44 (1)	05:13	04:37
	16:27	144	15:35 (6)	17:37	34	16:37 (7)	18:39	11	18:11 (43)	20:46	22	19:06 (1)	21:49	22:32
18	08:59		09:54 (10)	07:58		16:02 (7)	06:44		17:58 (43)	06:20		18:48 (1)	05:11	04:37
	16:29	144	15:35 (6)	17:39	37	16:39 (7)	18:42	15	18:13 (43)	20:48	16	19:04 (1)	21:51	22:33
19	08:58		09:55 (10)	07:55		16:00 (7)	06:41		17:57 (43)	06:18		18:52 (1)	05:09	04:37
	16:31	147	15:37 (6)	17:42	40	16:40 (7)	18:44	18	18:15 (43)	20:50	6	18:58 (1)	21:53	22:33
20	08:57		09:55 (10)	07:53		16:00 (7)	06:39		17:56 (43)	06:15			05:07	04:37
	16:34	147	15:37 (6)	17:44	41	16:41 (7)	18:46	20	18:16 (43)	20:53			21:55	22:33
21	08:55		09:55 (10)	07:50		15:58 (7)	06:36		17:57 (43)	06:12			05:05	04:37
	16:36	149	15:38 (6)	17:46	44	16:42 (7)	18:48	19	18:16 (43)	20:55			21:57	22:34
22	08:54		09:56 (10)	07:48		15:57 (7)	06:33		17:57 (43)	06:10			05:03	04:37
	16:38	148	15:38 (6)	17:48	45	16:42 (7)	18:50	18	18:15 (43)	20:57			21:59	22:34
23	08:52		09:56 (10)	07:45		15:57 (7)	06:30		17:57 (43)	06:07			05:02	04:38
	16:40	149	15:38 (6)	17:51	46	16:43 (7)	18:52	17	18:14 (43)	20:59			22:01	22:34
24	08:50		09:56 (10)	07:43		15:56 (7)	06:28		17:52 (1)	06:05			05:00	04:38
	16:42	148	15:39 (6)	17:53	47	16:43 (7)	18:55	21	18:13 (43)	21:01			22:03	22:34
25	08:49		09:57 (10)	07:40		15:55 (7)	06:25		17:50 (1)	06:02			04:58	04:38
	16:44	145	15:39 (6)	17:55	48	16:43 (7)	18:57	24	18:14 (1)	21:03			22:04	22:34
26	08:47		09:58 (10)	07:38		15:55 (7)	06:22		17:48 (1)	06:00			04:57	04:39
	16:46	142	15:39 (6)	17:57	49	16:44 (7)	18:59	28	18:16 (1)	21:06			22:06	22:34
27	08:45		09:59 (10)	07:35		15:54 (7)	06:19		17:46 (1)	05:57			04:55	04:39
	16:49	140	15:40 (6)	18:00	50	16:44 (7)	19:01	31	18:17 (1)	21:08			22:08	22:34
28	08:43		10:00 (10)	07:32		15:54 (7)	06:17		17:44 (1)	05:55			04:54	04:40
	16:51	138	15:40 (6)	18:02	50	16:44 (7)	19:03	34	18:18 (1)	21:10			22:09	22:34
29	08:42		10:01 (10)				07:14		18:43 (1)	05:52			04:52	04:41
	16:53	133	15:40 (6)				20:05	36	19:19 (1)	21:12			22:11	22:33
30	08:40		10:02 (10)				07:11		18:42 (1)	05:50			04:51	04:41
	16:55	129	15:40 (6)				20:07	37	19:19 (1)	21:14			22:13	22:33
31	08:38		10:04 (10)				07:09		18:40 (1)				04:50	
	16:58	121	15:40 (6)				20:10	39	19:19 (1)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		3947			1282			1022			652			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.64			0.66			0.67			0.64			
Total reduction		0.17			0.21			0.29			0.33			
Total, real		651			264			293			215			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: EZ - Nikas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August			September			October			November			December		
1	04:42		05:30			06:34		18:37 (1)	07:36		16:40 (7)	07:43		10:30 (9)	08:47		09:36 (10)
	22:33		21:49			20:33	38	19:15 (1)	19:11	34	17:14 (7)	16:51	25	10:55 (9)	15:58	125	15:10 (6)
2	04:43		05:32			06:36		18:36 (1)	07:38		16:38 (7)	07:45		10:28 (9)	08:48		09:37 (10)
	22:32		21:47			20:31	39	19:15 (1)	19:08	37	17:15 (7)	16:49	30	10:58 (9)	15:57	121	15:09 (6)
3	04:44		05:34			06:38		18:35 (1)	07:40		16:36 (7)	07:47		10:26 (9)	08:50		09:38 (10)
	22:31		21:45			20:28	41	19:16 (1)	19:06	40	17:16 (7)	16:47	33	10:59 (9)	15:56	118	15:08 (6)
4	04:45		05:36			06:40		18:35 (1)	07:42		16:34 (7)	07:50		10:25 (9)	08:52		09:38 (10)
	22:31		21:43			20:25	41	19:16 (1)	19:03	42	17:16 (7)	16:45	45	15:01 (6)	15:56	112	15:06 (6)
5	04:46		05:38			06:42		18:34 (1)	07:44		16:33 (7)	07:52		10:24 (9)	08:53		09:39 (10)
	22:30		21:41			20:23	42	19:16 (1)	19:00	44	17:17 (7)	16:42	54	15:04 (6)	15:55	102	13:58 (8)
6	04:47		05:40			06:44		18:33 (1)	07:46		16:31 (7)	07:54		10:23 (9)	08:55		09:40 (10)
	22:29		21:39			20:20	42	19:15 (1)	18:57	46	17:17 (7)	16:40	70	15:06 (6)	15:54	100	13:59 (8)
7	04:48		05:42			06:46		18:33 (1)	07:48		16:31 (7)	07:56		10:23 (9)	08:56		09:42 (10)
	22:28		21:36			20:17	42	19:15 (1)	18:55	47	17:18 (7)	16:38	83	15:08 (6)	15:53	96	13:59 (8)
8	04:49		05:44			06:48		18:33 (1)	07:50		16:30 (7)	07:59		10:21 (9)	08:58		09:42 (10)
	22:28		21:34			20:14	42	19:15 (1)	18:52	48	17:18 (7)	16:36	91	15:08 (6)	15:53	95	13:59 (8)
9	04:51		05:46			06:50		18:32 (1)	07:52		16:29 (7)	08:01		10:21 (9)	08:59		09:44 (10)
	22:27		21:32			20:12	42	19:14 (1)	18:49	49	17:18 (7)	16:34	97	15:10 (6)	15:52	93	14:00 (8)
10	04:52		05:48			06:52		18:32 (1)	07:55		16:28 (7)	08:03		09:36 (10)	09:01		09:44 (10)
	22:26		21:29			20:09	42	19:14 (1)	18:47	50	17:18 (7)	16:32	114	15:10 (6)	15:52	92	14:00 (8)
11	04:53		05:50			06:54		18:32 (1)	07:57		16:27 (7)	08:05		09:35 (10)	09:02		09:46 (10)
	22:24		21:27			20:06	41	19:13 (1)	18:44	50	17:17 (7)	16:30	121	15:11 (6)	15:51	92	14:00 (8)
12	04:55		05:52			06:56		18:33 (1)	07:59		16:28 (7)	08:08		09:33 (10)	09:03		09:47 (10)
	22:23		21:25			20:03	39	19:12 (1)	18:41	50	17:18 (7)	16:28	129	15:11 (6)	15:51	90	14:00 (8)
13	04:56		05:54			06:58		18:33 (1)	08:01		16:27 (7)	08:10		09:33 (10)	09:04		09:49 (10)
	22:22		21:22			20:01	38	19:11 (1)	18:39	50	17:17 (7)	16:26	134	15:12 (6)	15:51	89	14:01 (8)
14	04:58		05:56			07:00		18:33 (1)	08:03		16:27 (7)	08:12		09:31 (10)	09:06		09:51 (10)
	22:21		21:20			19:58	37	19:10 (1)	18:36	50	17:17 (7)	16:24	139	15:12 (6)	15:51	86	14:01 (8)
15	04:59		05:58			07:02		18:34 (1)	08:05		16:27 (7)	08:14		09:31 (10)	09:07		10:38 (9)
	22:19		21:17			19:55	34	19:08 (1)	18:33	49	17:16 (7)	16:22	142	15:13 (6)	15:51	84	14:02 (8)
16	05:01		06:00			07:04		18:35 (1)	08:07		16:27 (7)	08:16		09:31 (10)	09:08		10:39 (9)
	22:18		21:15			19:52	32	19:07 (1)	18:31	49	17:16 (7)	16:20	142	15:12 (6)	15:51	83	14:02 (8)
17	05:02		06:02			07:07		18:36 (1)	08:10		16:27 (7)	08:18		09:31 (10)	09:09		10:40 (9)
	22:17		21:12			19:50	29	19:05 (1)	18:28	48	17:15 (7)	16:18	145	15:13 (6)	15:51	82	14:02 (8)
18	05:04		06:05			07:09		18:37 (1)	08:12		16:27 (7)	08:21		09:30 (10)	09:09		10:40 (9)
	22:15		21:10			19:47	25	19:02 (1)	18:26	47	17:14 (7)	16:17	148	15:13 (6)	15:51	84	14:03 (8)
19	05:06		06:07			07:11		18:39 (1)	08:14		16:28 (7)	08:23		09:31 (10)	09:10		10:40 (9)
	22:14		21:07			19:44	21	19:00 (43)	18:23	46	17:14 (7)	16:15	149	15:13 (6)	15:51	84	14:03 (8)
20	05:07		06:09			07:13		18:42 (1)	08:16		16:28 (7)	08:25		09:31 (10)	09:11		10:41 (9)
	22:12		21:05			19:41	19	19:01 (43)	18:21	45	17:13 (7)	16:13	148	15:13 (6)	15:51	83	14:03 (8)
21	05:09		06:11			07:15		18:42 (43)	08:18		16:29 (7)	08:27		09:30 (10)	09:12		10:42 (9)
	22:10		21:02			19:39	19	19:01 (43)	18:18	43	17:12 (7)	16:12	149	15:13 (6)	15:52	84	14:04 (8)
22	05:11		06:13			07:17		18:42 (43)	08:21		16:30 (7)	08:29		09:31 (10)	09:12		10:42 (9)
	22:09		21:00			19:36	19	19:01 (43)	18:16	41	17:11 (7)	16:10	148	15:13 (6)	15:52	84	14:04 (8)
23	05:13		06:15			07:19		18:41 (43)	08:23		16:31 (7)	08:31		09:31 (10)	09:13		10:43 (9)
	22:07		20:57			19:33	20	19:01 (43)	18:13	39	17:10 (7)	16:09	147	15:13 (6)	15:53	83	14:05 (8)
24	05:14		06:17		18:55 (1)	07:21		18:41 (43)	08:25		16:32 (7)	08:33		09:31 (10)	09:13		10:43 (9)
	22:05		20:55	8	19:03 (1)	19:30	19	19:00 (43)	18:11	37	17:09 (7)	16:07	143	15:12 (6)	15:53	83	14:05 (8)
25	05:16		06:19		18:50 (1)	07:23		18:41 (43)	07:27		15:33 (7)	08:35		09:32 (10)	09:13		10:43 (9)
	22:03		20:52	17	19:07 (1)	19:28	16	18:57 (43)	17:08	34	16:07 (7)	16:06	143	15:13 (6)	15:54	84	14:06 (8)
26	05:18		06:21		18:47 (1)	07:25		18:41 (43)	07:29		15:34 (7)	08:37		09:33 (10)	09:14		10:43 (9)
	22:01		20:49	22	19:09 (1)	19:25	13	18:54 (43)	17:06	31	16:05 (7)	16:04	140	15:12 (6)	15:55	83	14:06 (8)
27	05:20		06:23		18:45 (1)	07:27		16:53 (7)	07:32		15:37 (7)	08:39		09:33 (10)	09:14		10:44 (9)
	22:00		20:47	26	19:11 (1)	19:22	19	18:51 (43)	17:03	26	16:03 (7)	16:03	139	15:12 (6)	15:56	83	14:07 (8)
28	05:22		06:25		18:43 (1)	07:29		16:48 (7)	07:34		15:39 (7)	08:41		09:33 (10)	09:14		10:44 (9)
	21:58		20:44	29	19:12 (1)	19:19	25	18:48 (43)	17:01	21	16:00 (7)	16:02	138	15:11 (6)	15:56	83	14:07 (8)
29	05:24		06:27		18:41 (1)	07:31		16:44 (7)	07:36		15:43 (7)	08:43		09:34 (10)	09:14		09:58 (10)
	21:56		20:41	32	19:13 (1)	19:17	26	17:10 (7)	16:58	14	15:57 (7)	16:01	134	15:10 (6)	15:57	86	14:08 (8)
30	05:26		06:29		18:40 (1)	07:33		16:41 (7)	07:38		10:36 (9)	08:45		09:36 (10)	09:14		09:57 (10)
	21:54		20:39	34	19:14 (1)	19:14	31	17:12 (7)	16:56	13	10:49 (9)	15:59	130	15:11 (6)	15:58	89	14:09 (8)
31	05:28		06:32		18:38 (1)				07:41		10:33 (9)				09:14		09:56 (10)
	21:52		20:36	37	19:15 (1)				16:54	20	10:53 (9)				16:00	91	14:09 (8)
Potential sun hours	534		472			385			322			244			211		
Total, worst case				205			933			1240			3450			2844	
Sun reduction				0.59			0.50			0.42			0.23			0.23	
Oper. time red.				0.94			0.94			0.94			0.94			0.94	
Wind dir. red.				0.64			0.65			0.68			0.64			0.64	
Total reduction				0.35			0.30			0.27			0.14			0.14	
Total, real				72			281			334			476			387	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FA - Novadlauki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May	June	July	August	September	October	November		December
1	09:13	08:35		07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42	15:59 (38)	08:46
	16:01	17:00		18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51 18	16:17 (38)	15:58
2	09:13	08:33		07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	16:00 (38)	08:48
	16:02	17:02		18:06	20:13	21:18	22:17	22:31	21:47	20:30	19:08	16:49 14	16:14 (38)	15:57
3	09:12	08:31		07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	16:01 (38)	08:49
	16:03	17:04		18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46 10	16:11 (38)	15:56
4	09:12	08:29		07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	16:03 (38)	08:51
	16:05	17:06		18:10	20:18	21:22	22:19	22:30	21:43	20:25	19:02	16:44 6	16:09 (38)	15:55
5	09:11	08:27		07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:43	07:51	16:05 (38)	08:53
	16:06	17:09		18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42 1	16:06 (38)	15:54
6	09:11	08:25	16:35 (38)	07:16	06:52	05:35	04:43	04:47	05:39	06:43	07:46	07:54		08:54
	16:08	17:11 2	16:37 (38)	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40		15:54
7	09:10	08:23	16:33 (38)	07:13	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56		08:56
	16:09	17:13 7	16:40 (38)	18:17	20:24	21:28	22:23	22:28	21:36	20:17	18:54	16:38		15:53
8	09:10	08:21	16:31 (38)	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58		08:57
	16:11	17:16 10	16:41 (38)	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:35		15:52
9	09:09	08:18	16:30 (38)	07:08	06:44	05:29	04:40	04:50	05:45	06:50	07:52	08:00		08:59
	16:12	17:18 14	16:44 (38)	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:33		15:52
10	09:08	08:16	16:30 (38)	07:05	06:41	05:26	04:40	04:52	05:48	06:52	07:54	08:03		09:00
	16:14	17:20 17	16:47 (38)	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:31		15:51
11	09:07	08:14	16:29 (38)	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05		09:01
	16:16	17:23 21	16:50 (38)	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29		15:51
12	09:06	08:11	16:28 (38)	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07		09:03
	16:18	17:25 25	16:53 (38)	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27		15:51
13	09:05	08:09	16:28 (38)	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00	08:09		09:04
	16:19	17:27 25	16:53 (38)	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38	16:25		15:50
14	09:04	08:07	16:28 (38)	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11		09:05
	16:21	17:30 26	16:54 (38)	18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36	16:23		15:50
15	09:03	08:04	16:27 (38)	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14		09:06
	16:23	17:32 27	16:54 (38)	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22		15:50
16	09:02	08:02	16:28 (38)	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16		09:07
	16:25	17:34 26	16:54 (38)	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:30	16:20		15:50
17	09:00	08:00	16:28 (38)	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18		09:08
	16:27	17:37 25	16:53 (38)	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18		15:50
18	08:59	07:57	16:28 (38)	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	17:08 (38)	08:20	09:09
	16:29	17:39 25	16:53 (38)	18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25 8	17:16 (38)	16:16	15:50
19	08:58	07:55	16:29 (38)	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:13	17:04 (38)	08:22	09:10
	16:31	17:41 24	16:53 (38)	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23 14	17:18 (38)	16:14	15:51
20	08:56	07:52	16:29 (38)	06:38	06:14	05:06	04:37	05:07	06:08	07:12	08:16	17:03 (38)	08:24	09:10
	16:33	17:43 22	16:51 (38)	18:46	20:52	21:55	22:33	22:11	21:04	19:41	18:20 18	17:21 (38)	16:13	15:51
21	08:55	07:50	16:31 (38)	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	17:01 (38)	08:26	09:11
	16:35	17:46 20	16:51 (38)	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18 20	17:21 (38)	16:11	15:51
22	08:53	07:47	16:32 (38)	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	16:59 (38)	08:29	09:12
	16:37	17:48 17	16:49 (38)	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15 23	17:22 (38)	16:10	15:52
23	08:51	07:45	16:34 (38)	06:30	06:07	05:01	04:37	05:12	06:14	07:18	08:22	16:59 (38)	08:31	09:12
	16:40	17:50 12	16:46 (38)	18:52	20:59	22:00	22:33	22:06	20:57	19:33	18:13 24	17:23 (38)	16:08	15:52
24	08:50	07:42	16:39 (38)	06:27	06:04	05:00	04:38	05:14	06:17	07:20	08:25	16:58 (38)	08:33	09:12
	16:42	17:53 3	16:42 (38)	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10 25	17:23 (38)	16:07	15:53
25	08:48	07:40		06:24	06:02	04:58	04:38	05:16	06:19	07:23	07:27	15:57 (38)	08:35	09:13
	16:44	17:55		18:56	21:03	22:04	22:34	22:03	20:51	19:27	17:08 26	16:23 (38)	16:05	15:54
26	08:46	07:37		06:22	05:59	04:56	04:38	05:18	06:21	07:25	07:29	15:57 (38)	08:37	09:13
	16:46	17:57		18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05 27	16:24 (38)	16:04	15:54
27	08:45	07:35		06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	15:57 (38)	08:39	09:13
	16:48	17:59		19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03 26	16:23 (38)	16:03	15:55
28	08:43	07:32		06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:33	15:57 (38)	08:40	09:13
	16:51	18:02		19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00 26	16:23 (38)	16:01	15:56
29	08:41			07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	15:57 (38)	08:42	09:13
	16:53			20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58 26	16:23 (38)	16:00	15:57
30	08:39			07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	15:58 (38)	08:44	09:13
	16:55			20:07	21:14	22:12	22:32	21:53	20:38	19:13	16:56 24	16:22 (38)	15:59	15:58
31	08:37			07:08		04:49		05:27	06:31		07:40	15:58 (38)		09:13
	16:57			20:09		22:14		21:51	20:36		16:53 21	16:19 (38)		15:59
Potential sun hours	231	264		366	428	512	534	534	472	385	322	244		211
Total, worst case			348								308		49	
Sun reduction			0.33								0.42		0.23	
Oper. time red.			0.94								0.94		0.94	
Wind dir. red.			0.68								0.68		0.68	
Total reduction			0.21								0.27		0.15	
Total, real			74								83		7	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FB - Olkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:46	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:27	04:41	04:53	05:49	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:33	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:55
26	08:47	07:38	06:22	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:32	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FC - Ornamenti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:19 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	22 08:41 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:20 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20 08:40 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:22 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	17 08:39 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	08:23 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	13 08:36 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	08:26 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	6 08:32 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17		06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16		20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14		06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18		20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20		20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50 10 09:09 (41)	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47 15 09:11 (41)	16:32	15:52
11	09:08	08:15	07:03		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44 18 09:13 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42 21 09:14 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39 22 09:14 (41)	16:26	15:51
14	09:05	08:08	06:55	07:21 (42)	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	4 07:25 (42)	20:40	21:44	22:31	22:21	21:20	19:58	18:36 23 09:14 (41)	16:24	15:51
15	09:04	08:05	06:53	07:18 (42)	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	10 07:28 (42)	20:42	21:46	22:31	22:20	21:18	19:55	18:34 24 09:15 (41)	16:22	15:51
16	09:02	08:03	06:50	07:16 (42)	06:26	05:15	04:38	05:01	06:01	07:05	08:03 (42) 08:08	08:17	09:08
	16:26	17:35	18:38	14 07:30 (42)	20:44	21:48	22:32	22:18	21:15	19:53 8 08:11 (42)	18:31 25 09:15 (41)	16:20	15:51
17	09:01	08:00 08:29 (41)	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07	08:00 (42) 08:10	08:19	09:09
	16:28	17:37 5 08:34 (41)	18:40	18 07:31 (42)	20:46	21:50	22:32	22:17	21:13	19:50 13 08:13 (42)	18:29 24 09:14 (41)	16:19	15:51
18	09:00	07:58 08:26 (41)	06:44	07:11 (42)	06:20	05:11	04:38	05:04	06:05	07:09	07:58 (42) 08:12	08:21	09:10
	16:30	17:40 11 08:37 (41)	18:42	20 07:31 (42)	20:49	21:52	22:33	22:15	21:10	19:47 17 08:15 (42)	18:26 24 09:15 (41)	16:17	15:51
19	08:58	07:56 08:24 (41)	06:42	07:10 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:57 (42) 08:14	08:23	09:10
	16:32	17:42 16 08:40 (41)	18:44	21 07:31 (42)	20:51	21:54	22:33	22:14	21:08	19:44 18 08:15 (42)	18:23 24 09:14 (41)	16:15	15:51
20	08:57	07:53 08:22 (41)	06:39	07:10 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:55 (42) 08:16	08:25	09:11
	16:34	17:44 19 08:41 (41)	18:46	22 07:32 (42)	20:53	21:55	22:34	22:12	21:05	19:42 21 08:16 (42)	18:21 23 09:13 (41)	16:14	15:52
21	08:55	07:51 08:20 (41)	06:36	07:09 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:55 (42) 08:19	08:27	09:12
	16:36	17:46 21 08:41 (41)	18:48	22 07:31 (42)	20:55	21:57	22:34	22:11	21:03	19:39 21 08:16 (42)	18:18 20 09:12 (41)	16:12	15:52
22	08:54	07:48 08:20 (41)	06:33	07:09 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:54 (42) 08:21	08:29	09:12
	16:38	17:49 23 08:43 (41)	18:51	21 07:30 (42)	20:57	21:59	22:34	22:09	21:00	19:36 22 08:16 (42)	18:16 19 09:11 (41)	16:10	15:52
23	08:52	07:46 08:19 (41)	06:31	07:09 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:53 (42) 08:23	08:31	09:13
	16:40	17:51 24 08:43 (41)	18:53	20 07:29 (42)	20:59	22:01	22:34	22:07	20:57	19:33 22 08:15 (42)	18:13 15 09:09 (41)	16:09	15:53
24	08:51	07:43 08:18 (41)	06:28	07:10 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:53 (42) 08:25	08:33	09:13
	16:42	17:53 25 08:43 (41)	18:55	19 07:29 (42)	21:02	22:03	22:34	22:05	20:55	19:31 22 08:15 (42)	18:11 10 09:07 (41)	16:07	15:54
25	08:49	07:40 08:19 (41)	06:25	07:10 (42)	06:02	04:59	04:39	05:17	06:19	07:23	07:53 (42) 08:27	08:35	09:14
	16:45	17:56 24 08:43 (41)	18:57	17 07:27 (42)	21:04	22:05	22:34	22:04	20:52	19:28 21 08:14 (42)	17:08	16:06	15:54
26	08:47	07:38 08:18 (41)	06:23	07:11 (42)	06:00	04:57	04:39	05:18	06:21	07:25	07:54 (42) 07:30	08:37	09:14
	16:47	17:58 25 08:43 (41)	18:59	14 07:25 (42)	21:06	22:06	22:34	22:02	20:50	19:25 19 08:13 (42)	17:06	16:05	15:55
27	08:45	07:35 08:18 (41)	06:20	07:13 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:56 (42) 07:32	08:39	09:14
	16:49	18:00 24 08:42 (41)	19:01	9 07:22 (42)	21:08	22:08	22:34	22:00	20:47	19:22 15 08:11 (42)	17:04	16:03	15:56
28	08:44	07:33 08:19 (41)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	07:59 (42) 07:34	08:41	09:14
	16:51	18:02 23 08:42 (41)	19:03		21:10	22:10	22:34	21:58	20:44	19:20 11 08:10 (42)	17:01	16:02	15:57
29	08:42		07:14		05:53	04:53	04:41	05:24	06:28	07:32	08:01 (42) 07:36	08:43	09:14
	16:53		20:06		21:12	22:11	22:34	21:56	20:42	19:17 6 08:07 (42)	16:59	16:01	15:58
30	08:40		07:12		05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09			04:50		05:28	06:32		07:41		09:14
	16:58		20:10			22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366		428	512	534	534	472	385	322	244	211
Total, worst case		240	309							236	317		
Sun reduction		0.33	0.46							0.50	0.42		
Oper. time red.		0.94	0.94							0.94	0.94		
Wind dir. red.		0.60	0.61							0.62	0.60		
Total reduction		0.19	0.26							0.29	0.24		
Total, real		45	82							68	76		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FD - O š enieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		12:29 (1)	08:36	07:30	07:06	05:47	04:49	04:42	05:30	06:34	07:36	07:43			08:47		14:23 (43)
	16:01	31	14:51 (43)	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51			15:58	10	14:33 (43)
2	09:13		12:30 (1)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		14:22 (43)
	16:02	28	14:51 (43)	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49			15:57	12	14:34 (43)
3	09:13		12:33 (1)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48			08:50		14:22 (43)
	16:04	24	14:52 (43)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:56	13	14:35 (43)
4	09:13		14:33 (43)	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		14:21 (43)
	16:05	19	14:52 (43)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45			15:56	15	14:36 (43)
5	09:12		14:34 (43)	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:54		14:20 (43)
	16:06	17	14:51 (43)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42			15:55	16	14:36 (43)
6	09:12		14:34 (43)	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:21 (43)
	16:08	17	14:51 (43)	17:12	18:15	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40			15:54	17	14:38 (43)
7	09:11		14:35 (43)	08:23	07:14	06:49	05:34	04:42	04:48	05:42	06:46	07:48	07:57			08:57		14:21 (43)
	16:09	16	14:51 (43)	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38			15:53	18	14:39 (43)
8	09:10		14:36 (43)	08:21	07:11	06:47	05:31	04:42	04:49	05:44	06:48	07:50	07:59			08:58		14:21 (43)
	16:11	15	14:51 (43)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	19	14:40 (43)
9	09:09		14:37 (43)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01			09:00		12:22 (1)
	16:13	14	14:51 (43)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	23	14:40 (43)
10	09:09		14:39 (43)	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		12:21 (1)
	16:14	12	14:51 (43)	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32			15:52	27	14:41 (43)
11	09:08		14:40 (43)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		12:19 (1)
	16:16	11	14:51 (43)	17:23	18:26	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30			15:51	31	14:41 (43)
12	09:07		14:43 (43)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:03		12:19 (1)
	16:18	7	14:50 (43)	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:04	18:41	16:28			15:51	32	14:41 (43)
13	09:06			08:10	06:58	06:33	05:21	04:38	04:56	05:54	06:58	08:01	08:10			09:05		12:19 (1)
	16:20			17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26			15:51	35	14:43 (43)
14	09:05			08:07	06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03	08:12			09:06		12:19 (1)
	16:22			17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24			15:51	35	14:43 (43)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		12:19 (1)
	16:24			17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:34	16:22			15:51	35	14:43 (43)
16	09:02			08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:05	08:08	08:16			09:08		12:19 (1)
	16:25			17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20			15:51	37	14:44 (43)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19			09:09		12:19 (1)
	16:27			17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18			15:51	37	14:44 (43)
18	09:00			07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21			09:10		12:19 (1)
	16:29			17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17			15:51	39	14:45 (43)
19	08:58			07:55	06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23			09:10		12:20 (1)
	16:31			17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:23	16:15			15:51	39	14:46 (43)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		12:20 (1)
	16:34			17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13			15:51	38	14:45 (43)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:12		12:21 (1)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12			15:52	38	14:46 (43)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29			09:12		12:21 (1)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10			15:52	37	14:46 (43)
23	08:52			07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31			09:13		12:22 (1)
	16:40			17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09			15:53	38	14:47 (43)
24	08:51			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33			09:13		12:22 (1)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07			15:53	39	14:48 (43)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35			09:14		12:22 (1)
	16:44			17:55	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:08	16:06			15:54	39	14:48 (43)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37			09:14		12:23 (1)
	16:46			17:58	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04			15:55	37	14:48 (43)
27	08:45			07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39			09:14		12:24 (1)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03			15:56	37	14:49 (43)
28	08:44			07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41			09:14		12:24 (1)
	16:51			18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02			15:56	36	14:49 (43)
29	08:42				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43			09:14		12:25 (1)
	16:53				20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:58	16:01			15:57	37	14:50 (43)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:34	07:39	08:45		14:24 (43)	09:14		12:27 (1)
	16:55				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	7	14:31 (43)	15:58	34	14:50 (43)
31	08:38				07:09		04:50		05:28	06:32		07:41				09:14		12:28 (1)
	16:58				20:10		22:14		21:52	20:36		16:54				16:00	33	14:51 (43)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		211												7			933	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.68												0.69			0.68	
Total reduction		0.18												0.15			0.14	
Total, real		37												1			134	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FE - O š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:06	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:23	21:27	22:23	22:30	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	09:00
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:04	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:05	08:08	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19	09:09
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:04	07:09	08:12	08:21	09:10
	16:29	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10
	16:31	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:58	16:01	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:39	08:45	09:14
	16:55		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FF - Ozoli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April			May			June
1	09:14	08:36	07:30			07:06			05:48		06:27 (15)	04:49
	16:02	17:00	18:05			20:12			21:16	23	06:50 (15)	22:16
2	09:13	08:34	07:27			07:03			05:46		06:27 (15)	04:48
	16:03	17:03	18:07			20:14			21:19	23	06:50 (15)	22:17
3	09:13	08:32	07:25			07:01			05:43		06:28 (15)	04:47
	16:04	17:05	18:09			20:16			21:21	22	06:50 (15)	22:19
4	09:13	08:30	07:22			06:58			05:41		06:28 (15)	04:46
	16:06	17:07	18:11			20:18			21:23	22	06:50 (15)	22:20
5	09:12	08:28	07:20			06:55			05:39		06:29 (15)	04:45
	16:07	17:10	18:14			20:21			21:25	20	06:49 (15)	22:21
6	09:12	08:26	07:17			06:52			05:36		06:30 (15)	04:44
	16:08	17:12	18:16			20:23			21:27	18	06:48 (15)	22:22
7	09:11	08:23	07:14			06:50			05:34		06:30 (15)	04:43
	16:10	17:14	18:18			20:25			21:29	16	06:46 (15)	22:24
8	09:10	08:21	07:12		07:43 (16)	06:47			05:32		06:31 (15)	04:42
	16:12	17:17	18:20	7	07:50 (16)	20:27			21:31	14	06:45 (15)	22:25
9	09:09	08:19	07:09		07:39 (16)	06:44			05:30		06:33 (15)	04:41
	16:13	17:19	18:22	15	07:54 (16)	20:29			21:33	10	06:43 (15)	22:26
10	09:09	08:17	07:06		07:37 (16)	06:42			05:27		06:36 (15)	04:41
	16:15	17:21	18:25	18	07:55 (16)	20:31			21:35	3	06:39 (15)	22:27
11	09:08	08:14	07:03		07:36 (16)	06:39			05:25			04:40
	16:17	17:24	18:27	21	07:57 (16)	20:33			21:38			22:28
12	09:07	08:12	07:01		07:34 (16)	06:36			05:23			04:40
	16:18	17:26	18:29	24	07:58 (16)	20:36			21:40			22:29
13	09:06	08:10	06:58		07:33 (16)	06:34			05:21			04:39
	16:20	17:28	18:31	25	07:58 (16)	20:38			21:42			22:30
14	09:05	08:08	06:55		07:32 (16)	06:31			05:19			04:39
	16:22	17:30	18:33	26	07:58 (16)	20:40			21:44			22:30
15	09:03	08:05	06:53		07:31 (16)	06:28			05:17			04:38
	16:24	17:33	18:35	27	07:58 (16)	20:42			21:46			22:31
16	09:02	08:03	06:50		07:31 (16)	06:26			05:15			04:38
	16:26	17:35	18:38	27	07:58 (16)	20:44			21:48			22:32
17	09:01	08:00	06:47		07:31 (16)	06:23			05:13			04:38
	16:28	17:37	18:40	27	07:58 (16)	20:46			21:50			22:32
18	09:00	07:58	06:44		07:30 (16)	06:21			05:11			04:38
	16:30	17:40	18:42	27	07:57 (16)	20:49			21:51			22:33
19	08:58	07:55	06:42		07:30 (16)	06:18			05:09			04:38
	16:32	17:42	18:44	26	07:56 (16)	20:51			21:53			22:33
20	08:57	07:53	06:39		07:31 (16)	06:15			05:07			04:38
	16:34	17:44	18:46	25	07:56 (16)	20:53			21:55			22:33
21	08:55	07:51	06:36		07:31 (16)	06:13			05:06			04:38
	16:36	17:47	18:48	24	07:55 (16)	20:55			21:57			22:34
22	08:54	07:48	06:34		07:32 (16)	06:10		06:37 (15)	05:04			04:38
	16:38	17:49	18:51	21	07:53 (16)	20:57	7	06:44 (15)	21:59			22:34
23	08:52	07:45	06:31		07:33 (16)	06:08		06:35 (15)	05:02			04:38
	16:40	17:51	18:53	18	07:51 (16)	20:59	12	06:47 (15)	22:01			22:34
24	08:51	07:43	06:28		07:36 (16)	06:05		06:32 (15)	05:01			04:39
	16:43	17:53	18:55	13	07:49 (16)	21:01	16	06:48 (15)	22:03			22:34
25	08:49	07:40	06:25		07:40 (16)	06:03		06:31 (15)	04:59			04:39
	16:45	17:56	18:57	3	07:43 (16)	21:04	18	06:49 (15)	22:04			22:34
26	08:47	07:38	06:23			06:00		06:30 (15)	04:57			04:39
	16:47	17:58	18:59			21:06	20	06:50 (15)	22:06			22:34
27	08:45	07:35	06:20			05:58		06:29 (15)	04:56			04:40
	16:49	18:00	19:01			21:08	21	06:50 (15)	22:08			22:34
28	08:44	07:33	06:17			05:55		06:28 (15)	04:54			04:41
	16:51	18:02	19:03			21:10	23	06:51 (15)	22:09			22:34
29	08:42		07:14			05:53		06:28 (15)	04:53			04:41
	16:54		20:06			21:12	23	06:51 (15)	22:11			22:33
30	08:40		07:12			05:50		06:28 (15)	04:52			04:42
	16:56		20:08			21:14	23	06:51 (15)	22:13			22:33
31	08:38		07:09						04:50			
	16:58		20:10						22:14			
Potential sun hours	231	264	366			428			512			534
Total, worst case				374			163			171		
Sun reduction				0.46			0.55			0.61		
Oper. time red.				0.94			0.94			0.94		
Wind dir. red.				0.60			0.65			0.65		
Total reduction				0.26			0.34			0.38		
Total, real				96			55			64		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FF - Ozoli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August		September		October		November	December
1	04:43	05:30		06:34		07:36	08:13 (16)	07:43	08:47
	22:33	21:50		20:34		19:11	24 08:37 (16)	16:52	15:59
2	04:44	05:32		06:36		07:38	08:13 (16)	07:45	08:48
	22:32	21:48		20:31		19:09	23 08:36 (16)	16:50	15:58
3	04:44	05:34	06:45 (15)	06:38		07:40	08:14 (16)	07:48	08:50
	22:32	21:45	6 06:51 (15)	20:28		19:06	20 08:34 (16)	16:47	15:57
4	04:45	05:36	06:42 (15)	06:40		07:42	08:15 (16)	07:50	08:52
	22:31	21:43	12 06:54 (15)	20:26		19:03	17 08:32 (16)	16:45	15:56
5	04:46	05:38	06:41 (15)	06:42		07:44	08:17 (16)	07:52	08:53
	22:30	21:41	15 06:56 (15)	20:23		19:01	12 08:29 (16)	16:43	15:55
6	04:48	05:40	06:40 (15)	06:44		07:46		07:54	08:55
	22:29	21:39	17 06:57 (15)	20:20		18:58		16:41	15:55
7	04:49	05:42	06:39 (15)	06:46		07:48		07:57	08:57
	22:29	21:37	19 06:58 (15)	20:17		18:55		16:38	15:54
8	04:50	05:44	06:38 (15)	06:48		07:51		07:59	08:58
	22:28	21:34	21 06:59 (15)	20:15		18:52		16:36	15:53
9	04:51	05:46	06:38 (15)	06:50		07:53		08:01	08:59
	22:27	21:32	21 06:59 (15)	20:12		18:50		16:34	15:53
10	04:52	05:48	06:37 (15)	06:53		07:55		08:03	09:01
	22:26	21:30	23 07:00 (15)	20:09		18:47		16:32	15:52
11	04:54	05:50	06:36 (15)	06:55		07:57		08:05	09:02
	22:25	21:27	23 06:59 (15)	20:06		18:44		16:30	15:52
12	04:55	05:53	06:36 (15)	06:57		07:59		08:08	09:03
	22:23	21:25	23 06:59 (15)	20:04		18:42		16:28	15:52
13	04:57	05:55	06:36 (15)	06:59		08:01		08:10	09:05
	22:22	21:22	23 06:59 (15)	20:01		18:39		16:26	15:51
14	04:58	05:57	06:36 (15)	07:01		08:03		08:12	09:06
	22:21	21:20	23 06:59 (15)	19:58		18:36		16:24	15:51
15	05:00	05:59	06:36 (15)	07:03		08:06		08:14	09:07
	22:20	21:18	22 06:58 (15)	19:55		18:34		16:22	15:51
16	05:01	06:01	06:36 (15)	07:05		08:08		08:16	09:08
	22:18	21:15	22 06:58 (15)	19:53		18:31		16:21	15:51
17	05:03	06:03	06:37 (15)	07:07		08:10		08:19	09:09
	22:17	21:13	20 06:57 (15)	19:50		18:29		16:19	15:51
18	05:04	06:05	06:37 (15)	07:09		08:12		08:21	09:09
	22:15	21:10	19 06:56 (15)	19:47		18:26		16:17	15:51
19	05:06	06:07	06:39 (15)	07:11	08:23 (16)	08:14		08:23	09:10
	22:14	21:08	15 06:54 (15)	19:44	12 08:35 (16)	18:24		16:15	15:52
20	05:08	06:09	06:41 (15)	07:13	08:20 (16)	08:16		08:25	09:11
	22:12	21:05	12 06:53 (15)	19:42	17 08:37 (16)	18:21		16:14	15:52
21	05:10	06:11	06:43 (15)	07:15	08:18 (16)	08:19		08:27	09:12
	22:10	21:03	6 06:49 (15)	19:39	20 08:38 (16)	18:18		16:12	15:52
22	05:11	06:13		07:17	08:16 (16)	08:21		08:29	09:12
	22:09	21:00		19:36	23 08:39 (16)	18:16		16:11	15:53
23	05:13	06:15		07:19	08:15 (16)	08:23		08:31	09:13
	22:07	20:57		19:33	25 08:40 (16)	18:13		16:09	15:53
24	05:15	06:17		07:21	08:14 (16)	08:25		08:33	09:13
	22:05	20:55		19:31	26 08:40 (16)	18:11		16:08	15:54
25	05:17	06:19		07:23	08:13 (16)	07:27		08:35	09:13
	22:03	20:52		19:28	27 08:40 (16)	17:08		16:06	15:55
26	05:19	06:22		07:25	08:12 (16)	07:30		08:37	09:14
	22:02	20:50		19:25	28 08:40 (16)	17:06		16:05	15:55
27	05:20	06:24		07:27	08:12 (16)	07:32		08:39	09:14
	22:00	20:47		19:22	27 08:39 (16)	17:04		16:04	15:56
28	05:22	06:26		07:30	08:13 (16)	07:34		08:41	09:14
	21:58	20:44		19:20	27 08:40 (16)	17:01		16:02	15:57
29	05:24	06:28		07:32	08:12 (16)	07:36		08:43	09:14
	21:56	20:42		19:17	27 08:39 (16)	16:59		16:01	15:58
30	05:26	06:30		07:34	08:12 (16)	07:39		08:45	09:14
	21:54	20:39		19:14	26 08:38 (16)	16:56		16:00	15:59
31	05:28	06:32				07:41			09:14
	21:52	20:36				16:54			16:00
Potential sun hours	534	472		385		322		244	211
Total, worst case			342		285		96		
Sun reduction			0.59		0.50		0.42		
Oper. time red.			0.94		0.94		0.94		
Wind dir. red.			0.65		0.60		0.60		
Total reduction			0.36		0.28		0.24		
Total, real			123		79		23		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FG - Ozolini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		10:01 (43)	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43			08:47		09:47 (43)
	16:01	21	10:22 (43)	17:00	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52			15:59	22	10:09 (43)
2	09:14		10:02 (43)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:49		09:47 (43)
	16:02	22	10:24 (43)	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49			15:58	23	10:10 (43)
3	09:13		10:02 (43)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48			08:50		09:48 (43)
	16:04	22	10:24 (43)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:57	22	10:10 (43)
4	09:13		10:02 (43)	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50			08:52		09:48 (43)
	16:05	22	10:24 (43)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45			15:56	23	10:11 (43)
5	09:12		10:02 (43)	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:54		09:49 (43)
	16:07	22	10:24 (43)	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43			15:55	22	10:11 (43)
6	09:12		10:02 (43)	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		09:48 (43)
	16:08	23	10:25 (43)	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40			15:54	23	10:11 (43)
7	09:11		10:04 (43)	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57			08:57		09:49 (43)
	16:10	22	10:26 (43)	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38			15:54	22	10:11 (43)
8	09:10		10:04 (43)	08:21	07:12	06:47	05:31	04:42	04:49	05:44	06:48	07:51	07:59			08:58		09:50 (43)
	16:11	23	10:27 (43)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36			15:53	22	10:12 (43)
9	09:10		10:03 (43)	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01			09:00		09:50 (43)
	16:13	23	10:26 (43)	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34			15:52	22	10:12 (43)
10	09:09		10:04 (43)	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		09:51 (43)
	16:15	23	10:27 (43)	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32			15:52	22	10:13 (43)
11	09:08		10:05 (43)	08:15	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06			09:02		09:51 (43)
	16:16	22	10:27 (43)	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30			15:52	22	10:13 (43)
12	09:07		10:06 (43)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:04		09:52 (43)
	16:18	22	10:28 (43)	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28			15:51	22	10:14 (43)
13	09:06		10:06 (43)	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:59	08:01	08:10			09:05		09:52 (43)
	16:20	21	10:27 (43)	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26			15:51	22	10:14 (43)
14	09:05		10:07 (43)	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12			09:06		09:53 (43)
	16:22	21	10:28 (43)	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24			15:51	21	10:14 (43)
15	09:04		10:07 (43)	08:05	06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14			09:07		09:53 (43)
	16:24	20	10:27 (43)	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22			15:51	21	10:14 (43)
16	09:02		10:08 (43)	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17			09:08		09:54 (43)
	16:26	20	10:28 (43)	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20			15:51	20	10:14 (43)
17	09:01		10:09 (43)	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19			09:09		09:54 (43)
	16:28	18	10:27 (43)	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:19			15:51	21	10:15 (43)
18	09:00		10:10 (43)	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21			09:10		09:55 (43)
	16:30	18	10:28 (43)	17:39	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17			15:51	20	10:15 (43)
19	08:58		10:11 (43)	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23			09:10		09:56 (43)
	16:32	16	10:27 (43)	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15			15:51	20	10:16 (43)
20	08:57		10:12 (43)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		09:51 (43)	09:11		09:56 (43)
	16:34	14	10:26 (43)	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:13	6	09:57 (43)	15:51	20	10:16 (43)
21	08:55		10:14 (43)	07:51	06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27		09:50 (43)	09:12		09:57 (43)
	16:36	11	10:25 (43)	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	11	10:01 (43)	15:52	20	10:17 (43)
22	08:54		10:16 (43)	07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29		09:48 (43)	09:12		09:57 (43)
	16:38	6	10:22 (43)	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	14	10:02 (43)	15:52	20	10:17 (43)
23	08:52			07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31		09:47 (43)	09:13		09:58 (43)
	16:40			17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	16	10:03 (43)	15:53	20	10:18 (43)
24	08:51			07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33		09:47 (43)	09:13		09:58 (43)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:07	18	10:05 (43)	15:53	20	10:18 (43)
25	08:49			07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:27	08:35		09:47 (43)	09:14		09:58 (43)
	16:44			17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	18	10:05 (43)	15:54	20	10:18 (43)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37		09:46 (43)	09:14		09:58 (43)
	16:47			17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	20	10:06 (43)	15:55	21	10:19 (43)
27	08:45			07:35	06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39		09:46 (43)	09:14		10:00 (43)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	21	10:07 (43)	15:56	20	10:20 (43)
28	08:44			07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		09:47 (43)	09:14		09:59 (43)
	16:51			18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	21	10:08 (43)	15:57	21	10:20 (43)
29	08:42				07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43		09:47 (43)	09:14		10:00 (43)
	16:53				20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	21	10:08 (43)	15:58	20	10:20 (43)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45		09:47 (43)	09:14		10:00 (43)
	16:56				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	22	10:09 (43)	15:59	21	10:21 (43)
31	08:38				07:09		04:50		05:28	06:32		07:41				09:14		10:01 (43)
	16:58				20:10		22:14		21:52	20:36		16:54				16:00	21	10:22 (43)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		432												188			656	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.60												0.60			0.60	
Total reduction		0.16												0.13			0.13	
Total, real		67												24			84	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FH - Ozolkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:13	08:35		07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35		07:42	15:44 (38)	08:46
	16:01	17:00		18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11		16:51	33 16:17 (39)	15:58
2	09:13	08:33		16:22 (38)	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37		07:45	15:44 (38)	08:48
	16:02	17:02	5	16:27 (38)	18:06	20:13	21:18	22:17	22:31	21:47	20:30	19:08		16:49	30 16:14 (39)	15:57
3	09:12	08:31		16:19 (38)	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39		07:47	15:44 (38)	08:49
	16:03	17:04	10	16:29 (38)	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05		16:46	27 16:11 (39)	15:56
4	09:12	08:29		16:18 (38)	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41		07:49	15:45 (38)	08:51
	16:05	17:06	14	16:32 (38)	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:02		16:44	24 16:09 (38)	15:55
5	09:11	08:27		16:17 (38)	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:43		07:51	15:45 (38)	08:53
	16:06	17:09	18	16:35 (38)	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00		16:42	21 16:06 (38)	15:54
6	09:11	08:25		16:16 (38)	07:16	06:52	05:35	04:43	04:47	05:39	06:43	07:46		07:54	15:47 (38)	08:54
	16:08	17:11	21	16:37 (38)	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57		16:40	17 16:04 (38)	15:54
7	09:10	08:23		16:15 (38)	07:13	06:49	05:33	04:42	04:48	05:41	06:46	07:48		07:56	15:48 (38)	08:56
	16:09	17:13	25	16:40 (38)	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54		16:38	13 16:01 (38)	15:53
8	09:10	08:21		16:14 (38)	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50		07:58	15:50 (38)	08:57
	16:11	17:16	27	16:41 (38)	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52		16:35	9 15:59 (38)	15:52
9	09:09	08:18		16:14 (38)	07:08	06:44	05:29	04:40	04:50	05:45	06:50	07:52		08:00	15:52 (38)	08:59
	16:12	17:18	30	16:44 (39)	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49		16:33	4 15:56 (38)	15:52
10	09:08	08:16		16:14 (38)	07:05	06:41	05:26	04:40	04:52	05:48	06:52	07:54		08:03		09:00
	16:14	17:20	33	16:47 (39)	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46		16:31		15:51
11	09:07	08:14		16:14 (38)	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56		08:05		09:01
	16:16	17:23	36	16:50 (39)	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44		16:29		15:51
12	09:06	08:11		16:14 (38)	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58		08:07		09:03
	16:18	17:25	36	16:50 (39)	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41		16:27		15:51
13	09:05	08:09		16:14 (38)	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00		08:09		09:04
	16:19	17:27	36	16:50 (39)	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38		16:25		15:50
14	09:04	08:07		16:15 (38)	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03		08:11		09:05
	16:21	17:30	35	16:50 (39)	18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36		16:23		15:50
15	09:03	08:04		16:14 (38)	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05		08:14		09:06
	16:23	17:32	35	16:49 (39)	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33		16:22		15:50
16	09:02	08:02		16:16 (38)	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07		08:16		09:07
	16:25	17:34	32	16:48 (39)	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:30		16:20		15:50
17	09:00	08:00		16:16 (38)	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09		08:18		09:08
	16:27	17:37	31	16:47 (39)	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28		16:18		15:50
18	08:59	07:57		16:16 (38)	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11		08:20		09:09
	16:29	17:39	29	16:45 (39)	18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25		16:16		15:50
19	08:58	07:55		16:18 (38)	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14		08:22		09:10
	16:31	17:41	24	16:42 (39)	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23		16:15		15:51
20	08:56	07:52		16:19 (38)	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	16:55 (38)	08:24		09:10
	16:33	17:43	18	16:37 (38)	18:46	20:52	21:55	22:33	22:11	21:04	19:41	18:20	8 17:03 (38)	16:13		15:51
21	08:55	07:50		16:22 (38)	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	16:52 (38)	08:26		09:11
	16:35	17:46	13	16:35 (38)	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	14 17:06 (38)	16:11		15:51
22	08:53	07:47		16:27 (38)	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	16:49 (38)	08:29		09:12
	16:37	17:48	2	16:29 (38)	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	19 17:08 (38)	16:10		15:52
23	08:51	07:45			06:30	06:07	05:01	04:37	05:12	06:14	07:18	08:22	16:48 (38)	08:31		09:12
	16:40	17:50			18:52	20:59	22:00	22:34	22:06	20:57	19:33	18:13	26 17:14 (39)	16:08		15:52
24	08:50	07:42			06:27	06:04	05:00	04:38	05:14	06:17	07:20	08:25	16:46 (38)	08:33		09:12
	16:42	17:53			18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	29 17:15 (39)	16:07		15:53
25	08:48	07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	15:45 (38)	08:35		09:13
	16:44	17:55			18:56	21:03	22:04	22:34	22:03	20:51	19:27	17:08	31 16:16 (39)	16:05		15:54
26	08:46	07:37			06:22	05:59	04:56	04:39	05:18	06:21	07:25	07:29	15:45 (38)	08:37		09:13
	16:46	17:57			18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05	33 16:18 (39)	16:04		15:54
27	08:45	07:35			06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	15:44 (38)	08:39		09:13
	16:48	17:59			19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	34 16:18 (39)	16:03		15:55
28	08:43	07:32			06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:33	15:44 (38)	08:40		09:13
	16:51	18:02			19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	35 16:19 (39)	16:01		15:56
29	08:41				07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	15:43 (38)	08:42		09:13
	16:53				20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	36 16:19 (39)	16:00		15:57
30	08:39				07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	15:44 (38)	08:44		09:13
	16:55				20:07	21:14	22:12	22:32	21:53	20:38	19:13	16:56	36 16:20 (39)	15:59		15:58
31	08:37				07:08		04:49		05:27	06:31		07:40	15:43 (38)			09:13
	16:57				20:09		22:14		21:51	20:36		16:53	36 16:19 (39)			15:59
Potential sun hours	231	264		366	428	512	534	534	472	385	322		244		211
Total, worst case			510									337		178	
Sun reduction			0.33									0.42		0.23	
Oper. time red.			0.94									0.94		0.94	
Wind dir. red.			0.68									0.68		0.68	
Total reduction			0.21									0.27		0.15	
Total, real			108									91		26	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FI - Ozolnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June	July	August	September	October	November		December		
1	09:14		10:09 (2)	08:36	09:35 (43)	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43		08:47		09:55 (2)
	16:01	46	11:10 (42)	17:00	25 10:00 (43)	18:04	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52		15:59	26	10:21 (2)
2	09:14		10:09 (2)	08:34	09:34 (43)	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45		08:49		09:55 (2)
	16:02	45	11:09 (42)	17:02	25 09:59 (43)	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49		15:58	33	10:50 (42)
3	09:13		10:10 (2)	08:32	09:35 (43)	07:25	07:01	05:43	04:46	04:44	05:34	06:38	07:40	07:48	09:12 (43)	08:50		09:56 (2)
	16:04	44	11:10 (42)	17:05	24 09:59 (43)	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	10 09:22 (43)	15:57	37	10:52 (42)
4	09:13		10:10 (2)	08:30	09:37 (43)	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	09:10 (43)	08:52		09:56 (2)
	16:05	45	11:10 (42)	17:07	22 09:59 (43)	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15 09:25 (43)	15:56	38	10:53 (42)
5	09:12		10:10 (2)	08:28	09:37 (43)	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	09:08 (43)	08:54		09:57 (2)
	16:07	44	11:10 (42)	17:09	20 09:57 (43)	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	18 09:26 (43)	15:55	41	10:55 (42)
6	09:12		10:10 (2)	08:26	09:39 (43)	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	09:07 (43)	08:55		09:56 (2)
	16:08	42	11:09 (42)	17:12	17 09:56 (43)	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	21 09:28 (43)	15:54	42	10:55 (42)
7	09:11		10:12 (2)	08:23	09:41 (43)	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	09:06 (43)	08:57		09:57 (2)
	16:10	41	11:10 (42)	17:14	14 09:55 (43)	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	23 09:29 (43)	15:54	44	10:57 (42)
8	09:10		10:11 (2)	08:21	09:43 (43)	07:12	06:47	05:31	04:42	04:50	05:44	06:48	07:51	07:59	09:06 (43)	08:58		09:58 (2)
	16:11	39	11:08 (42)	17:16	9 09:52 (43)	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	24 09:30 (43)	15:53	44	10:58 (42)
9	09:10		10:12 (2)	08:19		07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:05 (43)	09:00		09:58 (2)
	16:13	37	11:08 (42)	17:19		18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	25 09:30 (43)	15:52	44	10:58 (42)
10	09:09		10:12 (2)	08:17		07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:05 (43)	09:01		09:59 (2)
	16:15	34	11:07 (42)	17:21		18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	26 09:31 (43)	15:52	44	10:59 (42)
11	09:08		10:13 (2)	08:15		07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:05 (43)	09:02		09:59 (2)
	16:16	26	10:39 (2)	17:23		18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	26 09:31 (43)	15:52	46	11:00 (42)
12	09:07		10:14 (2)	08:12		07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:05 (43)	09:04		10:00 (2)
	16:18	26	10:40 (2)	17:26		18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	27 09:32 (43)	15:51	46	11:01 (42)
13	09:06		10:13 (2)	08:10		06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05 (43)	09:05		10:01 (2)
	16:20	26	10:39 (2)	17:28		18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	26 09:31 (43)	15:51	45	11:01 (42)
14	09:05		10:14 (2)	08:08		06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:05 (43)	09:06		10:01 (2)
	16:22	26	10:40 (2)	17:30		18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	27 09:32 (43)	15:51	46	11:02 (42)
15	09:04		09:41 (43)	08:05		06:53	06:28	05:17	04:38	04:59	05:58	07:03	08:06	08:14	09:05 (43)	09:07		10:01 (2)
	16:24	27	10:39 (2)	17:33		18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	27 09:32 (43)	15:51	47	11:02 (42)
16	09:02		09:39 (43)	08:03		06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:06 (43)	09:08		10:02 (2)
	16:26	33	10:40 (2)	17:35		18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	26 09:32 (43)	15:51	46	11:03 (42)
17	09:01		09:37 (43)	08:00		06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:06 (43)	09:09		10:03 (2)
	16:28	36	10:40 (2)	17:37		18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:19	26 09:32 (43)	15:51	46	11:04 (42)
18	09:00		09:36 (43)	07:58		06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:06 (43)	09:10		10:03 (2)
	16:30	39	10:40 (2)	17:39		18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	34 10:08 (2)	15:51	46	11:04 (42)
19	08:58		09:35 (43)	07:55		06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:08 (43)	09:10		10:04 (2)
	16:32	40	10:40 (2)	17:42		18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	36 10:11 (2)	15:51	46	11:05 (42)
20	08:57		09:34 (43)	07:53		06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:08 (43)	09:11		10:04 (2)
	16:34	40	10:39 (2)	17:44		18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:13	39 10:12 (2)	15:51	46	11:05 (42)
21	08:55		09:34 (43)	07:51		06:36	06:13	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:10 (43)	09:12		10:05 (2)
	16:36	39	10:38 (2)	17:46		18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	39 10:14 (2)	15:52	46	11:06 (42)
22	08:54		09:33 (43)	07:48		06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:10 (43)	09:12		10:05 (2)
	16:38	39	10:37 (2)	17:49		18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	40 10:15 (2)	15:52	46	11:06 (42)
23	08:52		09:33 (43)	07:45		06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:11 (43)	09:13		10:06 (2)
	16:40	36	10:36 (2)	17:51		18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	40 10:16 (2)	15:53	46	11:07 (42)
24	08:51		09:33 (43)	07:43		06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13 (43)	09:13		10:06 (2)
	16:42	34	10:35 (2)	17:53		18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:07	38 10:17 (2)	15:53	46	11:07 (42)
25	08:49		09:33 (43)	07:40		06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:27	08:35	09:15 (43)	09:14		10:06 (2)
	16:44	26	09:59 (43)	17:55		18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	37 10:18 (2)	15:54	47	11:07 (42)
26	08:47		09:32 (43)	07:38		06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:17 (43)	09:14		10:06 (2)
	16:47	26	09:58 (43)	17:58		18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	33 10:18 (2)	15:55	46	11:07 (42)
27	08:45		09:32 (43)	07:35		06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39	09:20 (43)	09:14		10:07 (2)
	16:49	27	09:59 (43)	18:00		19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	27 10:18 (2)	15:56	47	11:08 (42)
28	08:44		09:33 (43)	07:33		06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:55 (2)	09:14		10:07 (2)
	16:51	26	09:59 (43)	18:02		19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	25 10:20 (2)	15:57	46	11:08 (42)
29	08:42		09:33 (43)			07:14	05:52	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:55 (2)	09:14		10:08 (2)
	16:53	27	10:00 (43)			20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	25 10:20 (2)	15:58	46	11:09 (42)
30	08:40		09:33 (43)			07:11	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:55 (2)	09:14		10:08 (2)
	16:56	27	10:00 (43)			20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	26 10:21 (2)	15:59	46	11:09 (42)
31	08:38		09:34 (43)			07:09		04:50		05:28	06:32		07:41			09:14		10:09 (2)
	16:58	26	10:00 (43)			20:10		22:14		21:52	20:36		16:54			16:00	46	11:10 (42)
Potential sun hours	231		264		366	428	512	534	534	472	385	322	244		211		
Total, worst case		1069		156										786		1361	
Sun reduction		0.28		0.33										0.23		0.23	
Oper. time red.		0.94		0.94										0.94		0.94	
Wind dir. red.		0.60		0.57										0.58		0.61	
Total reduction		0.15		0.18										0.13		0.13	
Total, real		164		28										99		176	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FJ - Palasites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February			March			April			May	June
1	09:14	08:36			07:30		07:57 (41)	07:06		07:51 (42)	05:48	04:49
	16:01	17:00			18:05	15	08:12 (41)	20:12	13	08:04 (42)	21:17	22:16
2	09:14	08:34			07:27		07:54 (41)	07:03		07:53 (42)	05:45	04:48
	16:03	17:03			18:07	19	08:13 (41)	20:14	8	08:01 (42)	21:19	22:17
3	09:13	08:32			07:25		07:53 (41)	07:01			05:43	04:47
	16:04	17:05			18:09	21	08:14 (41)	20:16			21:21	22:19
4	09:13	08:30			07:22		07:52 (41)	06:58			05:41	04:46
	16:05	17:07			18:11	22	08:14 (41)	20:18			21:23	22:20
5	09:12	08:28			07:20		07:51 (41)	06:55			05:38	04:45
	16:07	17:10			18:13	23	08:14 (41)	20:21			21:25	22:21
6	09:12	08:26			07:17		07:51 (41)	06:52			05:36	04:44
	16:08	17:12			18:16	23	08:14 (41)	20:23			21:27	22:23
7	09:11	08:24			07:14		07:51 (41)	06:50			05:34	04:43
	16:10	17:14			18:18	23	08:14 (41)	20:25			21:29	22:24
8	09:10	08:21			07:12		07:51 (41)	06:47			05:32	04:42
	16:11	17:16			18:20	22	08:13 (41)	20:27			21:31	22:25
9	09:10	08:19			07:09		07:51 (41)	06:44			05:29	04:41
	16:13	17:19			18:22	21	08:12 (41)	20:29			21:33	22:26
10	09:09	08:17			07:06		07:51 (41)	06:42			05:27	04:40
	16:15	17:21			18:25	20	08:11 (41)	20:31			21:36	22:27
11	09:08	08:15			07:04		07:53 (41)	06:39			05:25	04:40
	16:16	17:23			18:27	17	08:10 (41)	20:34			21:38	22:28
12	09:07	08:12			07:01		07:54 (41)	06:36			05:23	04:39
	16:18	17:26			18:29	14	08:08 (41)	20:36			21:40	22:29
13	09:06	08:10			06:58		07:56 (41)	06:34			05:21	04:39
	16:20	17:28			18:31	9	08:05 (41)	20:38			21:42	22:30
14	09:05	08:08			06:55			06:31			05:19	04:38
	16:22	17:30			18:33			20:40			21:44	22:31
15	09:04	08:05			06:53			06:28			05:17	04:38
	16:24	17:33			18:35			20:42			21:46	22:31
16	09:02	08:03			06:50			06:26			05:15	04:38
	16:26	17:35			18:38			20:44			21:48	22:32
17	09:01	08:00			06:47			06:23			05:13	04:38
	16:28	17:37			18:40			20:46			21:50	22:32
18	09:00	07:58			06:44			06:20			05:11	04:38
	16:30	17:40			18:42			20:49			21:52	22:33
19	08:58	07:56			06:42			06:18			05:09	04:38
	16:32	17:42			18:44			20:51			21:54	22:33
20	08:57	07:53			06:39			06:15			05:07	04:38
	16:34	17:44			18:46			20:53			21:55	22:34
21	08:55	07:51			06:36		07:02 (42)	06:13			05:05	04:38
	16:36	17:46			18:48	2	07:04 (42)	20:55			21:57	22:34
22	08:54	07:48			06:34		06:59 (42)	06:10			05:04	04:38
	16:38	17:49			18:51	8	07:07 (42)	20:57			21:59	22:34
23	08:52	07:46			06:31		06:56 (42)	06:08			05:02	04:38
	16:40	17:51			18:53	12	07:08 (42)	20:59			22:01	22:34
24	08:51	07:43			06:28		06:54 (42)	06:05			05:00	04:38
	16:42	17:53			18:55	15	07:09 (42)	21:02			22:03	22:34
25	08:49	07:40			06:25		06:51 (42)	06:03			04:59	04:39
	16:45	17:56			18:57	18	07:09 (42)	21:04			22:05	22:34
26	08:47	07:38			06:23		06:49 (42)	06:00			04:57	04:39
	16:47	17:58			18:59	20	07:09 (42)	21:06			22:06	22:34
27	08:45	07:35		08:02 (41)	06:20		06:49 (42)	05:58			04:56	04:40
	16:49	18:00	4	08:06 (41)	19:01	20	07:09 (42)	21:08			22:08	22:34
28	08:44	07:33		08:00 (41)	06:17		06:49 (42)	05:55			04:54	04:40
	16:51	18:02	10	08:10 (41)	19:03	20	07:09 (42)	21:10			22:10	22:34
29	08:42				07:14		07:49 (42)	05:53			04:53	04:41
	16:54				20:06	19	08:08 (42)	21:12			22:11	22:34
30	08:40				07:12		07:49 (42)	05:50			04:51	04:42
	16:56				20:08	18	08:07 (42)	21:14			22:13	22:33
31	08:38				07:09		07:49 (42)				04:50	
	16:58				20:10	16	08:05 (42)				22:14	
Potential sun hours	231	264			366			428			512	534
Total, worst case			14			417			21			
Sun reduction			0.33			0.46			0.55			
Oper. time red.			0.94			0.94			0.94			
Wind dir. red.			0.60			0.61			0.63			
Total reduction			0.19			0.26			0.32			
Total, real			3			110			7			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FJ - Palasites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November	December
1	04:43	05:30	06:34		07:36		08:34 (41)	07:43	08:47
	22:33	21:50	20:34		19:11	12	08:46 (41)	16:52	15:59
2	04:43	05:32	06:36		07:38		08:32 (41)	07:45	08:49
	22:32	21:48	20:31		19:09	16	08:48 (41)	16:49	15:58
3	04:44	05:34	06:38		07:40		08:30 (41)	07:48	08:50
	22:32	21:45	20:28		19:06	19	08:49 (41)	16:47	15:57
4	04:45	05:36	06:40		07:42		08:29 (41)	07:50	08:52
	22:31	21:43	20:26		19:03	20	08:49 (41)	16:45	15:56
5	04:46	05:38	06:42		07:44		08:27 (41)	07:52	08:54
	22:30	21:41	20:23		19:00	22	08:49 (41)	16:43	15:55
6	04:47	05:40	06:44		07:46		08:28 (41)	07:54	08:55
	22:30	21:39	20:20		18:58	22	08:50 (41)	16:41	15:54
7	04:49	05:42	06:46		07:48		08:27 (41)	07:57	08:57
	22:29	21:37	20:17		18:55	23	08:50 (41)	16:38	15:54
8	04:50	05:44	06:48		07:51		08:27 (41)	07:59	08:58
	22:28	21:34	20:15		18:52	22	08:49 (41)	16:36	15:53
9	04:51	05:46	06:50		07:53		08:26 (41)	08:01	09:00
	22:27	21:32	20:12		18:50	23	08:49 (41)	16:34	15:53
10	04:52	05:48	06:52		07:47 (42)	07:55		08:26 (41)	08:03	09:01
	22:26	21:30	20:09	7	07:54 (42)	18:47	22	08:48 (41)	16:32	15:52
11	04:54	05:50	06:55		07:44 (42)	07:57		08:28 (41)	08:06	09:02
	22:25	21:27	20:06	12	07:56 (42)	18:44	20	08:48 (41)	16:30	15:52
12	04:55	05:52	06:57		07:42 (42)	07:59		08:29 (41)	08:08	09:04
	22:24	21:25	20:04	15	07:57 (42)	18:42	17	08:46 (41)	16:28	15:51
13	04:56	05:54	06:59		07:40 (42)	08:01		08:31 (41)	08:10	09:05
	22:22	21:23	20:01	18	07:58 (42)	18:39	13	08:44 (41)	16:26	15:51
14	04:58	05:57	07:01		07:39 (42)	08:03		08:33 (41)	08:12	09:06
	22:21	21:20	19:58	19	07:58 (42)	18:36	8	08:41 (41)	16:24	15:51
15	04:59	05:59	07:03		07:39 (42)	08:06			08:14	09:07
	22:20	21:18	19:55	19	07:58 (42)	18:34			16:22	15:51
16	05:01	06:01	07:05		07:38 (42)	08:08			08:17	09:08
	22:18	21:15	19:53	20	07:58 (42)	18:31			16:20	15:51
17	05:03	06:03	07:07		07:38 (42)	08:10			08:19	09:09
	22:17	21:13	19:50	20	07:58 (42)	18:29			16:19	15:51
18	05:04	06:05	07:09		07:38 (42)	08:12			08:21	09:10
	22:15	21:10	19:47	19	07:57 (42)	18:26			16:17	15:51
19	05:06	06:07	07:11		07:40 (42)	08:14			08:23	09:10
	22:14	21:08	19:44	16	07:56 (42)	18:23			16:15	15:51
20	05:08	06:09	07:13		07:42 (42)	08:16			08:25	09:11
	22:12	21:05	19:42	13	07:55 (42)	18:21			16:14	15:52
21	05:09	06:11	07:15		07:44 (42)	08:19			08:27	09:12
	22:11	21:03	19:39	9	07:53 (42)	18:18			16:12	15:52
22	05:11	06:13	07:17		07:46 (42)	08:21			08:29	09:12
	22:09	21:00	19:36	4	07:50 (42)	18:16			16:10	15:53
23	05:13	06:15	07:19			08:23			08:31	09:13
	22:07	20:57	19:33			18:13			16:09	15:53
24	05:15	06:17	07:21			08:25			08:33	09:13
	22:05	20:55	19:31			18:11			16:07	15:54
25	05:17	06:19	07:23			07:28			08:35	09:14
	22:04	20:52	19:28			17:08			16:06	15:54
26	05:18	06:21	07:25			07:30			08:37	09:14
	22:02	20:50	19:25			17:06			16:05	15:55
27	05:20	06:24	07:27			07:32			08:39	09:14
	22:00	20:47	19:22			17:04			16:03	15:56
28	05:22	06:26	07:30			07:34			08:41	09:14
	21:58	20:44	19:20			17:01			16:02	15:57
29	05:24	06:28	07:32			07:36			08:43	09:14
	21:56	20:42	19:17			16:59			16:01	15:58
30	05:26	06:30	07:34		08:38 (41)	07:39			08:45	09:14
	21:54	20:39	19:14	5	08:43 (41)	16:56			16:00	15:59
31	05:28	06:32				07:41				09:14
	21:52	20:36				16:54				16:00
Potential sun hours	534	472	385			322		244		211
Total, worst case				196			259			
Sun reduction				0.50			0.42			
Oper. time red.				0.94			0.94			
Wind dir. red.				0.63			0.60			
Total reduction				0.29			0.24			
Total, real				58			62			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FK - Pauni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June
1	09:14			08:36		09:43 (29)	07:30		08:34 (28)	07:06			05:48		06:16 (21)	04:49
	16:02			17:01	24	10:07 (29)	18:05	16	08:50 (28)	20:12			21:16	13	06:29 (21)	22:16
2	09:13			08:34		09:44 (29)	07:27		08:36 (28)	07:03			05:46		06:14 (21)	04:48
	16:03			17:03	23	10:07 (29)	18:07	12	08:48 (28)	20:14			21:18	17	06:31 (21)	22:17
3	09:13			08:32		09:45 (29)	07:25			07:01			05:43		06:13 (21)	04:47
	16:04			17:05	21	10:06 (29)	18:09			20:16			21:21	19	06:32 (21)	22:18
4	09:12			08:30		09:47 (29)	07:22			06:58			05:41		06:12 (21)	04:46
	16:06			17:07	18	10:05 (29)	18:11			20:18			21:23	21	06:33 (21)	22:20
5	09:12			08:28		09:48 (29)	07:20			06:55			05:39		06:12 (21)	04:45
	16:07			17:10	15	10:03 (29)	18:14			20:21			21:25	22	06:34 (21)	22:21
6	09:11			08:25		09:50 (29)	07:17			06:53			05:36		06:11 (21)	04:44
	16:09			17:12	11	10:01 (29)	18:16			20:23			21:27	23	06:34 (21)	22:22
7	09:11			08:23			07:14			06:50			05:34		06:11 (21)	04:43
	16:10			17:14			18:18			20:25			21:29	24	06:35 (21)	22:23
8	09:10			08:21			07:12			06:47			05:32		06:10 (21)	04:42
	16:12			17:17			18:20			20:27			21:31	25	06:35 (21)	22:25
9	09:09			08:19			07:09			06:44			05:30		06:10 (21)	04:42
	16:13			17:19			18:22			20:29			21:33	25	06:35 (21)	22:26
10	09:08			08:17			07:06			06:42			05:27		06:10 (21)	04:41
	16:15			17:21			18:25			20:31			21:35	25	06:35 (21)	22:27
11	09:08			08:14			07:03			06:39			05:25		06:10 (21)	04:40
	16:17			17:24			18:27			20:33			21:37	25	06:35 (21)	22:28
12	09:07		09:47 (29)	08:12			07:01			06:36			05:23		06:10 (21)	04:40
	16:19	5	09:52 (29)	17:26			18:29			20:36			21:39	24	06:34 (21)	22:29
13	09:06		09:45 (29)	08:10			06:58			06:34			05:21		06:10 (21)	04:39
	16:20	10	09:55 (29)	17:28			18:31			20:38			21:41	24	06:34 (21)	22:29
14	09:04		09:43 (29)	08:07		08:38 (28)	06:55			06:31			05:19		06:10 (21)	04:39
	16:22	13	09:56 (29)	17:31	10	08:48 (28)	18:33			20:40			21:43	23	06:33 (21)	22:30
15	09:03		09:43 (29)	08:05		08:36 (28)	06:53			06:28			05:17		06:10 (21)	04:39
	16:24	16	09:59 (29)	17:33	15	08:51 (28)	18:35			20:42			21:45	23	06:33 (21)	22:31
16	09:02		09:42 (29)	08:03		08:34 (28)	06:50			06:26			05:15		06:12 (21)	04:38
	16:26	17	09:59 (29)	17:35	19	08:53 (28)	18:38			20:44			21:47	21	06:33 (21)	22:31
17	09:01		09:42 (29)	08:00		08:33 (28)	06:47			06:23			05:13		06:12 (21)	04:38
	16:28	19	10:01 (29)	17:37	21	08:54 (28)	18:40			20:46			21:49	20	06:32 (21)	22:32
18	08:59		09:41 (29)	07:58		08:32 (28)	06:44			06:21			05:11		06:12 (21)	04:38
	16:30	21	10:02 (29)	17:40	23	08:55 (28)	18:42			20:48			21:51	19	06:31 (21)	22:33
19	08:58		09:40 (29)	07:55		08:31 (28)	06:42			06:18			05:09		06:14 (21)	04:38
	16:32	23	10:03 (29)	17:42	24	08:55 (28)	18:44			20:51			21:53	17	06:31 (21)	22:33
20	08:57		09:41 (29)	07:53		08:31 (28)	06:39			06:15			05:08		06:15 (21)	04:38
	16:34	23	10:04 (29)	17:44	25	08:56 (28)	18:46			20:53			21:55	14	06:29 (21)	22:33
21	08:55		09:41 (29)	07:50		08:30 (28)	06:36			06:13			05:06		06:16 (21)	04:38
	16:36	24	10:05 (29)	17:47	26	08:56 (28)	18:48			20:55			21:57	11	06:27 (21)	22:34
22	08:54		09:40 (29)	07:48		08:30 (28)	06:34			06:10			05:04		06:18 (21)	04:38
	16:38	25	10:05 (29)	17:49	27	08:57 (28)	18:51			20:57			21:59	8	06:26 (21)	22:34
23	08:52		09:40 (29)	07:45		08:30 (28)	06:31			06:08			05:02			04:38
	16:41	26	10:06 (29)	17:51	26	08:56 (28)	18:53			20:59			22:01			22:34
24	08:50		09:40 (29)	07:43		08:30 (28)	06:28			06:05			05:01			04:39
	16:43	26	10:06 (29)	17:53	25	08:55 (28)	18:55			21:01			22:03			22:34
25	08:49		09:40 (29)	07:40		08:31 (28)	06:25			06:03			04:59			04:39
	16:45	27	10:07 (29)	17:56	25	08:56 (28)	18:57			21:04			22:04			22:34
26	08:47		09:40 (29)	07:38		08:31 (28)	06:23			06:00			04:57			04:40
	16:47	27	10:07 (29)	17:58	23	08:54 (28)	18:59			21:06			22:06			22:34
27	08:45		09:41 (29)	07:35		08:31 (28)	06:20			05:58			04:56			04:40
	16:49	27	10:08 (29)	18:00	22	08:53 (28)	19:01			21:08			22:08			22:34
28	08:43		09:41 (29)	07:33		08:33 (28)	06:17			05:55			04:55			04:41
	16:51	27	10:08 (29)	18:02	20	08:53 (28)	19:03			21:10			22:09			22:34
29	08:42		09:41 (29)				07:14			05:53			04:53			04:41
	16:54	27	10:08 (29)				20:06			21:12			22:11			22:33
30	08:40		09:42 (29)				07:12			05:50		06:19 (21)	04:52			04:42
	16:56	26	10:08 (29)				20:08			21:14	8	06:27 (21)	22:13			22:33
31	08:38		09:43 (29)				07:09						04:50			
	16:58	25	10:08 (29)				20:10						22:14			
Potential sun hours	231			264			366			428			512			534
Total, worst case		434			443			28			8			443		
Sun reduction		0.27			0.33			0.46			0.55			0.61		
Oper. time red.		0.94			0.94			0.94			0.94			0.94		
Wind dir. red.		0.58			0.59			0.60			0.67			0.67		
Total reduction		0.15			0.19			0.26			0.34			0.38		
Total, real		65			82			7			3			170		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FK - Pauni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September	October			November			December
1	04:43			05:30		06:20 (21)	06:34	07:36			07:43			08:47
	22:32			21:49	25	06:45 (21)	20:34	19:11			16:52			15:59
2	04:44			05:32		06:20 (21)	06:36	07:38			07:45			08:48
	22:32			21:47	25	06:45 (21)	20:31	19:09			16:50			15:58
3	04:45			05:34		06:20 (21)	06:38	07:40			07:48			08:50
	22:31			21:45	25	06:45 (21)	20:28	19:06			16:47			15:57
4	04:46			05:36		06:19 (21)	06:40	07:42			07:50		09:24 (29)	08:52
	22:31			21:43	25	06:44 (21)	20:25	19:03			16:45	3	09:27 (29)	15:56
5	04:47			05:38		06:20 (21)	06:42	07:44			07:52		09:20 (29)	08:53
	22:30			21:41	24	06:44 (21)	20:23	19:01			16:43	11	09:31 (29)	15:55
6	04:48			05:40		06:20 (21)	06:44	07:46			07:54		09:17 (29)	08:55
	22:29			21:39	24	06:44 (21)	20:20	18:58			16:41	16	09:33 (29)	15:55
7	04:49			05:42		06:21 (21)	06:46	07:48			07:56		09:16 (29)	08:56
	22:28			21:36	22	06:43 (21)	20:17	18:55			16:39	19	09:35 (29)	15:54
8	04:50			05:44		06:21 (21)	06:48	07:51			07:59		09:15 (29)	08:58
	22:27			21:34	22	06:43 (21)	20:15	18:52			16:36	21	09:36 (29)	15:53
9	04:51			05:46		06:22 (21)	06:50	07:53			08:01		09:15 (29)	08:59
	22:26			21:32	20	06:42 (21)	20:12	18:50			16:34	22	09:37 (29)	15:53
10	04:53			05:48		06:23 (21)	06:53	07:55			08:03		09:13 (29)	09:01
	22:25			21:29	18	06:41 (21)	20:09	18:47			16:32	25	09:38 (29)	15:52
11	04:54			05:51		06:23 (21)	06:55	07:57		09:12 (28)	08:05		09:14 (29)	09:02
	22:24			21:27	16	06:39 (21)	20:06	18:44	8	09:20 (28)	16:30	25	09:39 (29)	15:52
12	04:55			05:53		06:25 (21)	06:57	07:59		09:08 (28)	08:08		09:13 (29)	09:03
	22:23			21:25	12	06:37 (21)	20:04	18:42	15	09:23 (28)	16:28	26	09:39 (29)	15:52
13	04:57			05:55		06:28 (21)	06:59	08:01		09:06 (28)	08:10		09:13 (29)	09:04
	22:22			21:22	6	06:34 (21)	20:01	18:39	18	09:24 (28)	16:26	27	09:40 (29)	15:52
14	04:58			05:57			07:01	08:03		09:04 (28)	08:12		09:13 (29)	09:06
	22:21			21:20			19:58	18:37	21	09:25 (28)	16:24	27	09:40 (29)	15:51
15	05:00			05:59			07:03	08:06		09:04 (28)	08:14		09:13 (29)	09:07
	22:19			21:17			19:55	18:34	23	09:27 (28)	16:23	27	09:40 (29)	15:51
16	05:01			06:01			07:05	08:08		09:03 (28)	08:16		09:13 (29)	09:08
	22:18			21:15			19:53	18:31	24	09:27 (28)	16:21	27	09:40 (29)	15:51
17	05:03			06:03			07:07	08:10		09:02 (28)	08:19		09:14 (29)	09:08
	22:17			21:13			19:50	18:29	25	09:27 (28)	16:19	27	09:41 (29)	15:51
18	05:05			06:05			07:09	08:12		09:02 (28)	08:21		09:14 (29)	09:09
	22:15			21:10			19:47	18:26	26	09:28 (28)	16:17	26	09:40 (29)	15:51
19	05:06			06:07			07:11	08:14		09:01 (28)	08:23		09:15 (29)	09:10
	22:14			21:08			19:44	18:24	26	09:27 (28)	16:15	26	09:41 (29)	15:52
20	05:08			06:09			07:13	08:16		09:01 (28)	08:25		09:15 (29)	09:11
	22:12			21:05			19:42	18:21	26	09:27 (28)	16:14	26	09:41 (29)	15:52
21	05:10		06:30 (21)	06:11			07:15	08:19		09:01 (28)	08:27		09:16 (29)	09:11
	22:10	4	06:34 (21)	21:02			19:39	18:18	26	09:27 (28)	16:12	24	09:40 (29)	15:52
22	05:11		06:28 (21)	06:13			07:17	08:21		09:01 (28)	08:29		09:17 (29)	09:12
	22:09	9	06:37 (21)	21:00			19:36	18:16	25	09:26 (28)	16:11	23	09:40 (29)	15:53
23	05:13		06:25 (21)	06:15			07:19	08:23		09:01 (28)	08:31		09:17 (29)	09:12
	22:07	13	06:38 (21)	20:57			19:33	18:13	24	09:25 (28)	16:09	23	09:40 (29)	15:53
24	05:15		06:24 (21)	06:17			07:21	08:25		09:02 (28)	08:33		09:18 (29)	09:13
	22:05	16	06:40 (21)	20:55			19:31	18:11	23	09:25 (28)	16:08	21	09:39 (29)	15:54
25	05:17		06:24 (21)	06:20			07:23	07:27		08:03 (28)	08:35		09:20 (29)	09:13
	22:03	17	06:41 (21)	20:52			19:28	17:09	20	08:23 (28)	16:06	19	09:39 (29)	15:55
26	05:19		06:22 (21)	06:22			07:25	07:30		08:04 (28)	08:37		09:21 (29)	09:14
	22:01	20	06:42 (21)	20:49			19:25	17:06	18	08:22 (28)	16:05	18	09:39 (29)	15:55
27	05:21		06:22 (21)	06:24			07:27	07:32		08:06 (28)	08:39		09:22 (29)	09:14
	22:00	21	06:43 (21)	20:47			19:22	17:04	14	08:20 (28)	16:04	16	09:38 (29)	15:56
28	05:23		06:22 (21)	06:26			07:30	07:34		08:08 (28)	08:41		09:23 (29)	09:14
	21:58	22	06:44 (21)	20:44			19:20	17:01	9	08:17 (28)	16:02	14	09:37 (29)	15:57
29	05:24		06:21 (21)	06:28			07:32	07:36			08:43		09:25 (29)	09:14
	21:56	23	06:44 (21)	20:42			19:17	16:59			16:01	10	09:35 (29)	15:58
30	05:26		06:20 (21)	06:30			07:34	07:39			08:45		09:28 (29)	09:14
	21:54	24	06:44 (21)	20:39			19:14	16:57			16:00	5	09:33 (29)	15:59
31	05:28		06:20 (21)	06:32				07:41						09:14
	21:52	24	06:44 (21)	20:36				16:54						16:00
Potential sun hours	534			472			385	322			244			212
Total, worst case		193			264				371			554		
Sun reduction		0.60			0.59				0.42			0.23		
Oper. time red.		0.94			0.94				0.94			0.94		
Wind dir. red.		0.67			0.67				0.60			0.58		
Total reduction		0.38			0.37				0.24			0.12		
Total, real		73			97				88			69		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FL - Pilad ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February			March			April	May	June	July	August	September			October			November	December
1	09:14	08:36			07:30		08:01 (41)	07:06	05:48	04:49	04:43	05:30	06:34			07:36			07:43	08:47
	16:01	17:00			18:05	21	08:22 (41)	20:12	21:17	22:16	22:33	21:50	20:34			19:11			16:52	15:59
2	09:14	08:34			07:27		08:00 (41)	07:03	05:45	04:48	04:43	05:32	06:36			07:38			07:45	08:49
	16:03	17:03			18:07	22	08:22 (41)	20:14	21:19	22:17	22:32	21:48	20:31			19:09			16:49	15:58
3	09:13	08:32			07:25		08:00 (41)	07:01	05:43	04:47	04:44	05:34	06:38			07:40			07:48	08:50
	16:04	17:05			18:09	23	08:23 (41)	20:16	21:21	22:19	22:32	21:45	20:28			19:06			16:47	15:57
4	09:13	08:30			07:22		08:00 (41)	06:58	05:41	04:46	04:45	05:36	06:40			07:42		08:43 (41)	07:50	08:52
	16:05	17:07			18:11	22	08:22 (41)	20:18	21:23	22:20	22:31	21:43	20:26			19:03	7	08:50 (41)	16:45	15:56
5	09:12	08:28			07:20		08:00 (41)	06:55	05:38	04:45	04:46	05:38	06:42			07:44		08:39 (41)	07:52	08:54
	16:07	17:10			18:13	21	08:21 (41)	20:21	21:25	22:21	22:30	21:41	20:23			19:00	14	08:53 (41)	16:43	15:55
6	09:12	08:26			07:17		08:00 (41)	06:52	05:36	04:44	04:47	05:40	06:44			07:46		08:38 (41)	07:54	08:55
	16:08	17:12			18:16	20	08:20 (41)	20:23	21:27	22:23	22:30	21:39	20:20			18:58	17	08:55 (41)	16:41	15:54
7	09:11	08:24			07:14		08:02 (41)	06:50	05:34	04:43	04:49	05:42	06:46			07:48		08:37 (41)	07:57	08:57
	16:10	17:14			18:18	18	08:20 (41)	20:25	21:29	22:24	22:29	21:37	20:17			18:55	19	08:56 (41)	16:38	15:54
8	09:10	08:21			07:12		08:02 (41)	06:47	05:32	04:42	04:50	05:44	06:48			07:51		08:35 (41)	07:59	08:58
	16:11	17:16			18:20	16	08:18 (41)	20:27	21:31	22:25	22:28	21:34	20:15			18:52	21	08:56 (41)	16:36	15:53
9	09:10	08:19			07:09		08:04 (41)	06:44	05:29	04:41	04:51	05:46	06:50			07:53		08:34 (41)	08:01	09:00
	16:13	17:19			18:22	11	08:15 (41)	20:29	21:33	22:26	22:27	21:32	20:12			18:50	22	08:56 (41)	16:34	15:53
10	09:09	08:17			07:06			06:42	05:27	04:40	04:52	05:48	06:52			07:55		08:34 (41)	08:03	09:01
	16:15	17:21			18:25			20:31	21:36	22:27	22:26	21:30	20:09			18:47	22	08:56 (41)	16:32	15:52
11	09:08	08:15			07:04			06:39	05:25	04:40	04:54	05:50	06:55			07:57		08:34 (41)	08:06	09:02
	16:16	17:23			18:27			20:34	21:38	22:28	22:25	21:27	20:06			18:44	22	08:56 (41)	16:30	15:52
12	09:07	08:12			07:01			06:36	05:23	04:39	04:55	05:52	06:57			07:59		08:34 (41)	08:08	09:04
	16:18	17:26			18:29			20:36	21:40	22:29	22:24	21:25	20:04			18:42	22	08:56 (41)	16:28	15:51
13	09:06	08:10			06:58			06:34	05:21	04:39	04:56	05:54	06:59			08:01		08:34 (41)	08:10	09:05
	16:20	17:28			18:31			20:38	21:42	22:30	22:22	21:23	20:01			18:39	21	08:55 (41)	16:26	15:51
14	09:05	08:08			06:55			06:31	05:19	04:38	04:58	05:57	07:01		07:53 (42)	08:03		08:34 (41)	08:12	09:06
	16:22	17:30			18:33			20:40	21:44	22:31	22:21	21:20	19:58	8	08:01 (42)	18:36	20	08:54 (41)	16:24	15:51
15	09:04	08:05			06:53			06:28	05:17	04:38	04:59	05:59	07:03		07:50 (42)	08:06		08:36 (41)	08:14	09:07
	16:24	17:33			18:35			20:42	21:46	22:31	22:20	21:18	19:55	13	08:03 (42)	18:34	18	08:54 (41)	16:22	15:51
16	09:02	08:03			06:50			06:26	05:15	04:38	05:01	06:01	07:05		07:48 (42)	08:08		08:38 (41)	08:17	09:08
	16:26	17:35			18:38			20:44	21:48	22:32	22:18	21:15	19:53	16	08:04 (42)	18:31	14	08:52 (41)	16:20	15:51
17	09:01	08:00			06:47			06:23	05:13	04:38	05:03	06:03	07:07		07:47 (42)	08:10		08:40 (41)	08:19	09:09
	16:28	17:37			18:40			20:46	21:50	22:32	22:17	21:13	19:50	18	08:05 (42)	18:29	9	08:49 (41)	16:19	15:51
18	09:00	07:58			06:44		07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09		07:46 (42)	08:12		08:43 (41)	08:21	09:10
	16:30	17:40			18:42	4	07:14 (42)	20:49	21:52	22:33	22:15	21:10	19:47	19	08:05 (42)	18:26	4	08:47 (41)	16:17	15:51
19	08:58	07:56			06:42		07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11		07:45 (42)	08:14			08:23	09:10
	16:32	17:42			18:44	9	07:16 (42)	20:51	21:54	22:33	22:14	21:08	19:44	20	08:05 (42)	18:23			16:15	15:51
20	08:57	07:53			06:39		07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13		07:45 (42)	08:16			08:25	09:11
	16:34	17:44			18:46	13	07:18 (42)	20:53	21:55	22:34	22:12	21:05	19:42	20	08:05 (42)	18:21			16:14	15:52
21	08:55	07:51			06:36		07:02 (42)	06:13	05:05	04:38	05:09	06:11	07:15		07:45 (42)	08:19			08:27	09:12
	16:36	17:46			18:48	16	07:18 (42)	20:55	21:57	22:34	22:11	21:03	19:39	19	08:04 (42)	18:18			16:12	15:52
22	08:54	07:48			06:34		06:59 (42)	06:10	05:04	04:38	05:11	06:13	07:17		07:46 (42)	08:21			08:29	09:12
	16:38	17:49			18:51	19	07:18 (42)	20:57	21:59	22:34	22:09	21:00	19:36	17	08:03 (42)	18:16			16:10	15:53
23	08:52	07:46			06:31		06:58 (42)	06:08	05:02	04:38	05:13	06:15	07:19		07:48 (42)	08:23			08:31	09:13
	16:40	17:51			18:53	20	07:18 (42)	20:59	22:01	22:34	22:07	20:57	19:33	14	08:02 (42)	18:13			16:09	15:53
24	08:51	07:43		08:10 (41)	06:28		06:59 (42)	06:05	05:00	04:38	05:15	06:17	07:21		07:50 (42)	08:25			08:33	09:13
	16:42	17:53	6	08:16 (41)	18:55	19	07:18 (42)	21:02	22:03	22:34	22:05	20:55	19:31	10	08:00 (42)	18:11			16:07	15:54
25	08:49	07:40		08:08 (41)	06:25		06:58 (42)	06:03	04:59	04:39	05:17	06:19	07:23		07:52 (42)	07:28			08:35	09:14
	16:45	17:56	11	08:19 (41)	18:57	20	07:18 (42)	21:04	22:05	22:34	22:04	20:52	19:28	6	07:58 (42)	17:08			16:06	15:54
26	08:47	07:38		08:05 (41)	06:23		06:58 (42)	06:00	04:57	04:39	05:18	06:21	07:25			07:30			08:37	09:14
	16:47	17:58	15	08:20 (41)	18:59	19	07:17 (42)	21:06	22:06	22:34	22:02	20:50	19:25			17:06			16:05	15:55
27	08:45	07:35		08:02 (41)	06:20		06:59 (42)	05:58	04:56	04:40	05:20	06:24	07:27			07:32			08:39	09:14
	16:49	18:00	19	08:21 (41)	19:01	16	07:15 (42)	21:08	22:08	22:34	22:00	20:47	19:22			17:04			16:03	15:56
28	08:44	07:33		08:01 (41)	06:17		07:00 (42)	05:55	04:54	04:40	05:22	06:26	07:30			07:34			08:41	09:14
	16:51	18:02	21	08:22 (41)	19:03	14	07:14 (42)	21:10	22:10	22:34	21:58	20:44	19:20			17:01			16:02	15:57
29	08:42				07:14		08:02 (42)	05:53	04:53	04:41	05:24	06:28	07:32			07:36			08:43	09:14
	16:54				20:06	10	08:12 (42)	21:12	22:11	22:34	21:56	20:42	19:17			16:59			16:01	15:58
30	08:40				07:12			05:50	04:51	04:42	05:26	06:30	07:34			07:39			08:45	09:14
	16:56				20:08			21:14	22:13	22:33	21:54	20:39	19:14			16:56			16:00	15:59
31	08:38				07:09				04:50		05:28	06:32				07:41				09:14
	16:58				20:10				22:14		21:52	20:36				16:54				16:00
Potential sun hours	231	264			366			428	512	534	534	472	385			322			244	211
Total, worst case			72			353								180			252			
Sun reduction			0.33			0.46								0.50			0.42			
Oper. time red.			0.94			0.94								0.94			0.94			
Wind dir. red.			0.60			0.61								0.63			0.60			
Total reduction			0.19			0.26								0.29			0.24			
Total, real			14			93								53			60			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FM - Plavnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42	08:46		
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58		
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48		
	16:02	17:02	18:06	20:13	21:18	22:17	22:32	21:47	20:30	19:08	16:49	15:57		
3	09:13	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:50		
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46	15:56		
4	09:12	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51		
	16:05	17:06	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:02	16:44	15:55		
5	09:12	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:44	07:51	08:53		
	16:06	17:09	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42	15:54		
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:44	07:46	07:54	08:54		
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54		
7	09:10	08:23	07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56		
	16:09	17:13	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38	15:53		
8	09:10	08:21	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58	08:57		
	16:11	17:16	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:52		
9	09:09	08:18	07:08	06:44	05:29	04:40	04:50	05:46	06:50	07:52	08:00	08:59		
	16:12	17:18	18:22	20:29	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52		
10	09:08	08:16	07:05	06:41	05:26	04:40	04:52	05:48	06:52	07:54	08:03	09:00		
	16:14	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:46	16:31	15:51		
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:02		
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29	15:51		
12	09:06	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:03		
	16:18	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27	15:51		
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09	09:04		13:39 (38)
	16:19	17:27	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25	15:50	5	13:44 (38)
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05		13:38 (38)
	16:21	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36	16:23	15:50	8	13:46 (38)
15	09:03	08:05	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14	09:06		13:37 (38)
	16:23	17:32	18:35	20:41	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	10	13:47 (38)
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07		13:37 (38)
	16:25	17:34	18:37	20:44	21:47	22:31	22:18	21:14	19:52	18:30	16:20	15:50	11	13:48 (38)
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08		13:37 (38)
	16:27	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50	12	13:49 (38)
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09		13:38 (38)
	16:29	17:39	18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25	16:16	15:50	12	13:50 (38)
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22	09:10		13:38 (38)
	16:31	17:41	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51	13	13:51 (38)
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24	09:10		13:39 (38)
	16:33	17:43	18:46	20:52	21:55	22:33	22:12	21:04	19:41	18:20	16:13	15:51	13	13:52 (38)
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27	09:11		13:39 (38)
	16:35	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	15:51	13	13:52 (38)
22	08:53	07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29	09:12		13:40 (38)
	16:37	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52	13	13:53 (38)
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:18	08:22	08:31	09:12		13:40 (38)
	16:40	17:50	18:52	20:59	22:00	22:34	22:06	20:57	19:33	18:13	16:08	15:52	13	13:53 (38)
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		13:40 (38)
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53	13	13:53 (38)
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		13:41 (38)
	16:44	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54	13	13:54 (38)
26	08:47	07:37	06:22	05:59	04:56	04:39	05:18	06:21	07:25	07:29	08:37	09:13		13:42 (38)
	16:46	17:57	18:58	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	15:54	12	13:54 (38)
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39	09:13		13:43 (38)
	16:48	17:59	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55	11	13:54 (38)
28	08:43	07:32	06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:34	08:41	09:13		13:44 (38)
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	15:56	10	13:54 (38)
29	08:41		07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:42	09:13		13:44 (38)
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57	9	13:53 (38)
30	08:39		07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:13		13:46 (38)
	16:55		20:07	21:14	22:12	22:33	21:53	20:38	19:13	16:56	15:59	15:58	7	13:53 (38)
31	08:37		07:08		04:49		05:27	06:31		07:40		09:13		13:49 (38)
	16:57		20:09		22:14		21:51	20:36		16:53		15:59	3	13:52 (38)
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211		
Total, worst case													201	
Sun reduction													0.23	
Oper. time red.													0.94	
Wind dir. red.													0.66	
Total reduction													0.14	
Total, real													28	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FN - Priednieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:14		12:29 (9)	08:36		15:25 (7)	07:30		16:39 (1)	07:06		05:47	04:48
	16:01	39	14:22 (8)	17:00	28	15:53 (7)	18:04	20	16:59 (1)	20:12		21:16	22:16
2	09:13		12:30 (9)	08:34		15:26 (7)	07:27		16:40 (1)	07:03		05:45	04:47
	16:02	37	14:22 (8)	17:02	27	15:53 (7)	18:06	17	16:57 (1)	20:14		21:18	22:17
3	09:13		12:32 (9)	08:32		15:27 (7)	07:25		16:43 (1)	07:00		05:43	04:46
	16:04	34	14:23 (8)	17:05	26	15:53 (7)	18:09	11	16:54 (1)	20:16		21:21	22:19
4	09:13		12:34 (9)	08:30		15:28 (7)	07:22			06:58		05:40	04:45
	16:05	31	14:23 (8)	17:07	24	15:52 (7)	18:11			20:18		21:23	22:20
5	09:12		12:36 (9)	08:28		15:28 (7)	07:19			06:55		05:38	04:44
	16:06	26	14:23 (8)	17:09	23	15:51 (7)	18:13			20:20		21:25	22:21
6	09:11		14:03 (8)	08:25		15:30 (7)	07:17			06:52		05:36	04:43
	16:08	20	14:23 (8)	17:11	20	15:50 (7)	18:15			20:22		21:27	22:22
7	09:11		14:03 (8)	08:23		15:31 (7)	07:14			06:49		05:33	04:42
	16:09	19	14:22 (8)	17:14	17	15:48 (7)	18:18			20:25		21:29	22:24
8	09:10		14:04 (8)	08:21		15:34 (7)	07:11			06:47		05:31	04:41
	16:11	18	14:22 (8)	17:16	13	15:47 (7)	18:20			20:27		21:31	22:25
9	09:09		14:06 (8)	08:19		15:38 (7)	07:09			06:44		05:29	04:41
	16:13	16	14:22 (8)	17:18	6	15:44 (7)	18:22			20:29		21:33	22:26
10	09:08		14:07 (8)	08:17			07:06			06:41		05:27	04:40
	16:14	15	14:22 (8)	17:21			18:24			20:31		21:35	22:27
11	09:08		14:09 (8)	08:14			07:03			06:39		05:25	04:39
	16:16	12	14:21 (8)	17:23			18:26			20:33		21:37	22:28
12	09:07		14:10 (8)	08:12			07:00			06:36		05:23	04:39
	16:18	10	14:20 (8)	17:25			18:29			20:35		21:39	22:29
13	09:06		14:13 (8)	08:10			06:58			06:33		05:20	04:38
	16:20	5	14:18 (8)	17:28			18:31			20:38		21:41	22:30
14	09:04			08:07		16:45 (1)	06:55			06:31		05:18	04:38
	16:22			17:30	10	16:55 (1)	18:33			20:40		21:43	22:30
15	09:03		15:31 (7)	08:05		16:43 (1)	06:52			06:28		05:16	04:38
	16:23	7	15:38 (7)	17:32	15	16:58 (1)	18:35			20:42		21:45	22:31
16	09:02		15:30 (7)	08:03		16:40 (1)	06:50			06:25		05:14	04:37
	16:25	11	15:41 (7)	17:35	19	16:59 (1)	18:37			20:44		21:47	22:32
17	09:01		15:28 (7)	08:00		16:39 (1)	06:47			06:23		05:12	04:37
	16:27	15	15:43 (7)	17:37	21	17:00 (1)	18:39			20:46		21:49	22:32
18	08:59		15:27 (7)	07:58		16:38 (1)	06:44			06:20		05:11	04:37
	16:29	17	15:44 (7)	17:39	24	17:02 (1)	18:42			20:48		21:51	22:33
19	08:58		15:27 (7)	07:55		16:37 (1)	06:41			06:17		05:09	04:37
	16:31	19	15:46 (7)	17:42	25	17:02 (1)	18:44			20:50		21:53	22:33
20	08:57		15:26 (7)	07:53		16:37 (1)	06:39			06:15		05:07	04:37
	16:34	21	15:47 (7)	17:44	26	17:03 (1)	18:46			20:53		21:55	22:33
21	08:55		15:25 (7)	07:50		16:36 (1)	06:36			06:12		05:05	04:37
	16:36	23	15:48 (7)	17:46	27	17:03 (1)	18:48			20:55		21:57	22:34
22	08:54		15:25 (7)	07:48		16:35 (1)	06:33			06:10		05:03	04:37
	16:38	24	15:49 (7)	17:48	28	17:03 (1)	18:50			20:57		21:59	22:34
23	08:52		15:25 (7)	07:45		16:36 (1)	06:30			06:07		05:02	04:38
	16:40	25	15:50 (7)	17:51	27	17:03 (1)	18:52			20:59		22:01	22:34
24	08:50		15:24 (7)	07:43		16:36 (1)	06:28			06:05		05:00	04:38
	16:42	26	15:50 (7)	17:53	27	17:03 (1)	18:55			21:01		22:03	22:34
25	08:49		15:24 (7)	07:40		16:35 (1)	06:25			06:02		04:58	04:38
	16:44	27	15:51 (7)	17:55	27	17:02 (1)	18:57			21:03		22:04	22:34
26	08:47		15:24 (7)	07:38		16:37 (1)	06:22			06:00		04:57	04:39
	16:46	27	15:51 (7)	17:57	25	17:02 (1)	18:59			21:06		22:06	22:34
27	08:45		15:24 (7)	07:35		16:37 (1)	06:19			05:57		04:55	04:39
	16:49	28	15:52 (7)	18:00	24	17:01 (1)	19:01			21:08		22:08	22:34
28	08:43		15:24 (7)	07:32		16:37 (1)	06:17			05:55		04:54	04:40
	16:51	28	15:52 (7)	18:02	23	17:00 (1)	19:03			21:10		22:09	22:34
29	08:42		15:25 (7)				07:14			05:52		04:52	04:41
	16:53	28	15:53 (7)				20:05			21:12		22:11	22:33
30	08:40		15:25 (7)				07:11			05:50		04:51	04:41
	16:55	28	15:53 (7)				20:07			21:14		22:13	22:33
31	08:38		15:26 (7)				07:08					04:50	
	16:58	27	15:53 (7)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		663			532			48					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.68			0.68			0.68					
Total reduction		0.17			0.21			0.29					
Total, real		116			113			14					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FN - Priednieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:30	06:34	07:36		07:43		08:47		13:51 (8)
	22:33	21:49	20:33	19:11		16:51		15:58	12	14:03 (8)
2	04:43	05:32	06:36	07:38		07:45	15:06 (7)	08:48		13:50 (8)
	22:32	21:47	20:31	19:08		16:49	8 15:14 (7)	15:57	15	14:05 (8)
3	04:44	05:34	06:38	07:40		07:47	15:03 (7)	08:50		13:50 (8)
	22:31	21:45	20:28	19:06		16:47	14 15:17 (7)	15:56	16	14:06 (8)
4	04:45	05:36	06:40	07:42		07:50	15:00 (7)	08:52		13:49 (8)
	22:31	21:43	20:25	19:03		16:45	18 15:18 (7)	15:56	17	14:06 (8)
5	04:46	05:38	06:42	07:44		07:52	15:00 (7)	08:53		13:49 (8)
	22:30	21:41	20:23	19:00		16:42	20 15:20 (7)	15:55	19	14:08 (8)
6	04:47	05:40	06:44	07:46		07:54	14:58 (7)	08:55		13:49 (8)
	22:29	21:39	20:20	18:57		16:40	23 15:21 (7)	15:54	20	14:09 (8)
7	04:48	05:42	06:46	07:48		07:56	14:58 (7)	08:56		12:23 (9)
	22:28	21:36	20:17	18:55		16:38	24 15:22 (7)	15:53	26	14:10 (8)
8	04:49	05:44	06:48	07:50		07:59	14:57 (7)	08:58		12:21 (9)
	22:28	21:34	20:14	18:52		16:36	25 15:22 (7)	15:53	31	14:10 (8)
9	04:51	05:46	06:50	07:52		08:01	14:57 (7)	08:59		12:20 (9)
	22:27	21:32	20:12	18:49		16:34	26 15:23 (7)	15:52	34	14:11 (8)
10	04:52	05:48	06:52	07:55	17:19 (1)	08:03	14:56 (7)	09:01		12:20 (9)
	22:26	21:29	20:09	18:47	7 17:26 (1)	16:32	27 15:23 (7)	15:52	36	14:12 (8)
11	04:53	05:50	06:54	07:57	17:15 (1)	08:05	14:56 (7)	09:02		12:20 (9)
	22:24	21:27	20:06	18:44	14 17:29 (1)	16:30	28 15:24 (7)	15:51	38	14:12 (8)
12	04:55	05:52	06:56	07:59	17:13 (1)	08:08	14:56 (7)	09:03		12:19 (9)
	22:23	21:25	20:03	18:41	19 17:32 (1)	16:28	28 15:24 (7)	15:51	40	14:13 (8)
13	04:56	05:54	06:58	08:01	17:11 (1)	08:10	14:57 (7)	09:04		12:20 (9)
	22:22	21:22	20:01	18:39	22 17:33 (1)	16:26	28 15:25 (7)	15:51	41	14:14 (8)
14	04:58	05:56	07:00	08:03	17:10 (1)	08:12	14:56 (7)	09:06		12:20 (9)
	22:21	21:20	19:58	18:36	23 17:33 (1)	16:24	28 15:24 (7)	15:51	42	14:14 (8)
15	04:59	05:58	07:02	08:05	17:08 (1)	08:14	14:57 (7)	09:07		12:20 (9)
	22:19	21:17	19:55	18:33	25 17:33 (1)	16:22	28 15:25 (7)	15:51	42	14:15 (8)
16	05:01	06:00	07:04	08:07	17:08 (1)	08:16	14:57 (7)	09:08		12:20 (9)
	22:18	21:15	19:52	18:31	26 17:34 (1)	16:20	27 15:24 (7)	15:51	43	14:15 (8)
17	05:02	06:02	07:07	08:10	17:07 (1)	08:18	14:58 (7)	09:09		12:20 (9)
	22:17	21:12	19:50	18:28	27 17:34 (1)	16:18	27 15:25 (7)	15:51	45	14:16 (8)
18	05:04	06:04	07:09	08:12	17:07 (1)	08:21	14:58 (7)	09:09		12:21 (9)
	22:15	21:10	19:47	18:26	27 17:34 (1)	16:17	26 15:24 (7)	15:51	43	14:16 (8)
19	05:06	06:07	07:11	08:14	17:07 (1)	08:23	15:00 (7)	09:10		12:20 (9)
	22:14	21:07	19:44	18:23	28 17:35 (1)	16:15	25 15:25 (7)	15:51	44	14:16 (8)
20	05:07	06:09	07:13	08:16	17:07 (1)	08:25	15:00 (7)	09:11		12:21 (9)
	22:12	21:05	19:41	18:21	27 17:34 (1)	16:13	24 15:24 (7)	15:51	45	14:17 (8)
21	05:09	06:11	07:15	08:18	17:06 (1)	08:27	15:00 (7)	09:12		12:22 (9)
	22:10	21:02	19:39	18:18	27 17:33 (1)	16:12	23 15:23 (7)	15:52	45	14:18 (8)
22	05:11	06:13	07:17	08:21	17:07 (1)	08:29	15:02 (7)	09:12		12:22 (9)
	22:09	21:00	19:36	18:15	26 17:33 (1)	16:10	21 15:23 (7)	15:52	45	14:18 (8)
23	05:13	06:15	07:19	08:23	17:07 (1)	08:31	15:03 (7)	09:13		12:23 (9)
	22:07	20:57	19:33	18:13	25 17:32 (1)	16:08	19 15:22 (7)	15:53	45	14:19 (8)
24	05:14	06:17	07:21	08:25	17:09 (1)	08:33	15:04 (7)	09:13		12:23 (9)
	22:05	20:55	19:30	18:10	23 17:32 (1)	16:07	17 15:21 (7)	15:53	44	14:19 (8)
25	05:16	06:19	07:23	07:27	16:09 (1)	08:35	15:06 (7)	09:13		12:23 (9)
	22:03	20:52	19:28	17:08	21 16:30 (1)	16:06	15 15:21 (7)	15:54	44	14:19 (8)
26	05:18	06:21	07:25	07:29	16:10 (1)	08:37	15:08 (7)	09:14		12:24 (9)
	22:01	20:49	19:25	17:06	18 16:28 (1)	16:04	12 15:20 (7)	15:55	45	14:20 (8)
27	05:20	06:23	07:27	07:32	16:13 (1)	08:39	15:10 (7)	09:14		12:25 (9)
	22:00	20:47	19:22	17:03	14 16:27 (1)	16:03	7 15:17 (7)	15:55	43	14:20 (8)
28	05:22	06:25	07:29	07:34	16:15 (1)	08:41		09:14		12:25 (9)
	21:58	20:44	19:19	17:01	8 16:23 (1)	16:02		15:56	44	14:21 (8)
29	05:24	06:27	07:31	07:36		08:43	13:55 (8)	09:14		12:26 (9)
	21:56	20:41	19:17	16:58		16:01	4 13:59 (8)	15:57	42	14:21 (8)
30	05:26	06:29	07:33	07:38		08:45	13:52 (8)	09:14		12:27 (9)
	21:54	20:39	19:14	16:56		15:59	10 14:02 (8)	15:58	42	14:22 (8)
31	05:28	06:31		07:41				09:14		12:28 (9)
	21:52	20:36		16:54				15:59	39	14:21 (8)
Potential sun hours	534	472	385	322		244		211		
Total, worst case					407		582		1127	
Sun reduction					0.42		0.23		0.23	
Oper. time red.					0.94		0.94		0.94	
Wind dir. red.					0.68		0.68		0.67	
Total reduction					0.27		0.15		0.14	
Total, real					110		85		160	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FO - Priednieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May		June	
1	09:14		12:25 (9)	08:36		15:21 (7)	07:30		16:37 (1)	07:06			05:47		04:48	
	16:01	35	14:17 (8)	17:00	27	15:48 (7)	18:04	17	16:54 (1)	20:12			21:16		22:16	
2	09:13		12:25 (9)	08:34		15:22 (7)	07:27		16:39 (1)	07:03			05:45		04:47	
	16:02	35	14:17 (8)	17:02	25	15:47 (7)	18:06	12	16:51 (1)	20:14			21:18		22:17	
3	09:13		12:28 (9)	08:32		15:23 (7)	07:25			07:00			05:43		04:46	
	16:04	30	14:17 (8)	17:05	24	15:47 (7)	18:09			20:16			21:21		22:19	
4	09:13		12:29 (9)	08:30		15:24 (7)	07:22			06:58			05:40		04:45	
	16:05	27	14:17 (8)	17:07	23	15:47 (7)	18:11			20:18			21:23		22:20	
5	09:12		13:58 (8)	08:28		15:25 (7)	07:19			06:55			05:38		04:44	
	16:06	19	14:17 (8)	17:09	20	15:45 (7)	18:13			20:20			21:25		22:21	
6	09:11		13:59 (8)	08:25		15:27 (7)	07:17			06:52			05:36		04:43	
	16:08	18	14:17 (8)	17:11	17	15:44 (7)	18:15			20:22			21:27		22:22	
7	09:11		14:00 (8)	08:23		15:29 (7)	07:14			06:49			05:33		04:42	
	16:09	17	14:17 (8)	17:14	13	15:42 (7)	18:18			20:25			21:29		22:24	
8	09:10		14:01 (8)	08:21		15:33 (7)	07:11			06:47			05:31		04:41	
	16:11	15	14:16 (8)	17:16	5	15:38 (7)	18:20			20:27			21:31		22:25	
9	09:09		14:02 (8)	08:19			07:09			06:44			05:29		04:41	
	16:13	14	14:16 (8)	17:18			18:22			20:29			21:33		22:26	
10	09:08		14:04 (8)	08:17			07:06			06:41			05:27		04:40	
	16:14	11	14:15 (8)	17:21			18:24			20:31			21:35		22:27	
11	09:08		14:06 (8)	08:14			07:03			06:39			05:25		04:39	
	16:16	8	14:14 (8)	17:23			18:26			20:33			21:37		22:28	
12	09:07		15:27 (7)	08:12			07:00			06:36			05:23		04:39	
	16:18	3	15:30 (7)	17:25			18:29			20:35			21:39		22:29	
13	09:06		15:25 (7)	08:10		16:41 (1)	06:58			06:33			05:20		04:38	
	16:20	9	15:34 (7)	17:28	12	16:53 (1)	18:31			20:38			21:41		22:30	
14	09:04		15:24 (7)	08:07		16:38 (1)	06:55			06:31			05:18		04:38	
	16:22	12	15:36 (7)	17:30	16	16:54 (1)	18:33			20:40			21:43		22:30	
15	09:03		15:22 (7)	08:05		16:37 (1)	06:52			06:28			05:16		04:38	
	16:23	16	15:38 (7)	17:32	20	16:57 (1)	18:35			20:42			21:45		22:31	
16	09:02		15:22 (7)	08:03		16:35 (1)	06:50			06:25			05:14		04:37	
	16:25	18	15:40 (7)	17:35	22	16:57 (1)	18:37			20:44			21:47		22:32	
17	09:01		15:21 (7)	08:00		16:34 (1)	06:47			06:23			05:12		04:37	
	16:27	20	15:41 (7)	17:37	24	16:58 (1)	18:39			20:46			21:49		22:32	
18	08:59		15:20 (7)	07:58		16:34 (1)	06:44			06:20			05:11		04:37	
	16:29	21	15:41 (7)	17:39	25	16:59 (1)	18:42			20:48			21:51		22:33	
19	08:58		15:20 (7)	07:55		16:33 (1)	06:41			06:17			05:09		04:37	
	16:31	23	15:43 (7)	17:42	26	16:59 (1)	18:44			20:50			21:53		22:33	
20	08:57		15:20 (7)	07:53		16:33 (1)	06:39			06:15			05:07		04:37	
	16:34	24	15:44 (7)	17:44	27	17:00 (1)	18:46			20:53			21:55		22:33	
21	08:55		15:20 (7)	07:50		16:32 (1)	06:36			06:12			05:05		04:37	
	16:36	25	15:45 (7)	17:46	28	17:00 (1)	18:48			20:55			21:57		22:34	
22	08:54		15:19 (7)	07:48		16:32 (1)	06:33			06:10			05:03		04:37	
	16:38	26	15:45 (7)	17:48	28	17:00 (1)	18:50			20:57			21:59		22:34	
23	08:52		15:19 (7)	07:45		16:32 (1)	06:30			06:07			05:02		04:38	
	16:40	27	15:46 (7)	17:51	28	17:00 (1)	18:52			20:59			22:01		22:34	
24	08:50		15:19 (7)	07:43		16:32 (1)	06:28			06:05			05:00		04:38	
	16:42	27	15:46 (7)	17:53	27	16:59 (1)	18:55			21:01			22:03		22:34	
25	08:49		15:19 (7)	07:40		16:32 (1)	06:25			06:02			04:58		04:38	
	16:44	28	15:47 (7)	17:55	26	16:58 (1)	18:57			21:03			22:04		22:34	
26	08:47		15:19 (7)	07:38		16:33 (1)	06:22			06:00			04:57		04:39	
	16:46	28	15:47 (7)	17:57	25	16:58 (1)	18:59			21:06			22:06		22:34	
27	08:45		15:19 (7)	07:35		16:34 (1)	06:19			05:57			04:55		04:39	
	16:49	29	15:48 (7)	18:00	23	16:57 (1)	19:01			21:08			22:08		22:34	
28	08:43		15:20 (7)	07:32		16:35 (1)	06:17			05:55			04:54		04:40	
	16:51	28	15:48 (7)	18:02	20	16:55 (1)	19:03			21:10			22:09		22:34	
29	08:42		15:20 (7)				07:14			05:52			04:52		04:41	
	16:53	28	15:48 (7)				20:05			21:12			22:11		22:33	
30	08:40		15:21 (7)				07:11			05:50			04:51		04:41	
	16:55	27	15:48 (7)				20:07			21:14			22:13		22:33	
31	08:38		15:21 (7)				07:08						04:50			
	16:58	28	15:49 (7)				20:10						22:14			
Potential sun hours	231			264			366			428			512		534	
Total, worst case		676			531			29								
Sun reduction		0.28			0.33			0.46								
Oper. time red.		0.94			0.94			0.94								
Wind dir. red.		0.68			0.68			0.68								
Total reduction		0.17			0.21			0.29								
Total, real		118			113			8								

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FO - Priednieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:30	06:34	07:36		07:43		08:47		13:49 (8)
	22:33	21:49	20:33	19:11		16:51		15:58	7	13:56 (8)
2	04:43	05:32	06:36	07:38		07:45		08:48		13:47 (8)
	22:32	21:47	20:31	19:08		16:49		15:57	11	13:58 (8)
3	04:44	05:34	06:38	07:40		07:47	15:02 (7)	08:50		13:47 (8)
	22:31	21:45	20:28	19:06		16:47	7 15:09 (7)	15:56	13	14:00 (8)
4	04:45	05:36	06:40	07:42		07:50	14:58 (7)	08:52		13:45 (8)
	22:31	21:43	20:25	19:03		16:45	14 15:12 (7)	15:56	15	14:00 (8)
5	04:46	05:38	06:42	07:44		07:52	14:56 (7)	08:53		13:45 (8)
	22:30	21:41	20:23	19:00		16:42	18 15:14 (7)	15:55	17	14:02 (8)
6	04:47	05:40	06:44	07:46		07:54	14:55 (7)	08:55		13:45 (8)
	22:29	21:39	20:20	18:57		16:40	20 15:15 (7)	15:54	18	14:03 (8)
7	04:48	05:42	06:46	07:48		07:56	14:54 (7)	08:56		13:45 (8)
	22:28	21:36	20:17	18:55		16:38	23 15:17 (7)	15:53	19	14:04 (8)
8	04:49	05:44	06:48	07:50		07:59	14:53 (7)	08:58		12:17 (9)
	22:28	21:34	20:14	18:52		16:36	24 15:17 (7)	15:53	26	14:04 (8)
9	04:51	05:46	06:50	07:52		08:01	14:53 (7)	08:59		12:16 (9)
	22:27	21:32	20:12	18:49		16:34	25 15:18 (7)	15:52	30	14:05 (8)
10	04:52	05:48	06:52	07:55		08:03	14:52 (7)	09:01		12:16 (9)
	22:26	21:29	20:09	18:47		16:32	26 15:18 (7)	15:52	34	14:07 (8)
11	04:53	05:50	06:54	07:57	17:14 (1)	08:05	14:52 (7)	09:02		12:15 (9)
	22:24	21:27	20:06	18:44	9 17:23 (1)	16:30	27 15:19 (7)	15:51	35	14:07 (8)
12	04:55	05:52	06:56	07:59	17:12 (1)	08:08	14:51 (7)	09:03		12:14 (9)
	22:23	21:25	20:03	18:41	15 17:27 (1)	16:28	28 15:19 (7)	15:51	37	14:07 (8)
13	04:56	05:54	06:58	08:01	17:09 (1)	08:10	14:52 (7)	09:04		12:15 (9)
	22:22	21:22	20:01	18:39	19 17:28 (1)	16:26	28 15:20 (7)	15:51	39	14:09 (8)
14	04:58	05:56	07:00	08:03	17:07 (1)	08:12	14:51 (7)	09:06		12:15 (9)
	22:21	21:20	19:58	18:36	22 17:29 (1)	16:24	29 15:20 (7)	15:51	40	14:09 (8)
15	04:59	05:58	07:02	08:05	17:05 (1)	08:14	14:52 (7)	09:07		12:15 (9)
	22:19	21:17	19:55	18:33	24 17:29 (1)	16:22	29 15:21 (7)	15:51	40	14:09 (8)
16	05:01	06:00	07:04	08:07	17:05 (1)	08:16	14:52 (7)	09:08		12:15 (9)
	22:18	21:15	19:52	18:31	26 17:31 (1)	16:20	28 15:20 (7)	15:51	41	14:10 (8)
17	05:02	06:02	07:07	08:10	17:04 (1)	08:18	14:53 (7)	09:09		12:15 (9)
	22:17	21:12	19:50	18:28	27 17:31 (1)	16:18	28 15:21 (7)	15:51	43	14:11 (8)
18	05:04	06:04	07:09	08:12	17:03 (1)	08:21	14:53 (7)	09:09		12:15 (9)
	22:15	21:10	19:47	18:26	28 17:31 (1)	16:17	27 15:20 (7)	15:51	42	14:11 (8)
19	05:06	06:07	07:11	08:14	17:03 (1)	08:23	14:54 (7)	09:10		12:15 (9)
	22:14	21:07	19:44	18:23	28 17:31 (1)	16:15	27 15:21 (7)	15:51	43	14:11 (8)
20	05:07	06:09	07:13	08:16	17:03 (1)	08:25	14:54 (7)	09:11		12:16 (9)
	22:12	21:05	19:41	18:21	28 17:31 (1)	16:13	26 15:20 (7)	15:51	43	14:12 (8)
21	05:09	06:11	07:15	08:18	17:02 (1)	08:27	14:55 (7)	09:12		12:17 (9)
	22:10	21:02	19:39	18:18	28 17:30 (1)	16:12	25 15:20 (7)	15:52	43	14:13 (8)
22	05:11	06:13	07:17	08:21	17:03 (1)	08:29	14:56 (7)	09:12		12:17 (9)
	22:09	21:00	19:36	18:15	27 17:30 (1)	16:10	24 15:20 (7)	15:52	43	14:13 (8)
23	05:13	06:15	07:19	08:23	17:03 (1)	08:31	14:57 (7)	09:13		12:18 (9)
	22:07	20:57	19:33	18:13	26 17:29 (1)	16:08	22 15:19 (7)	15:53	43	14:14 (8)
24	05:14	06:17	07:21	08:25	17:04 (1)	08:33	14:57 (7)	09:13		12:18 (9)
	22:05	20:55	19:30	18:11	25 17:29 (1)	16:07	22 15:19 (7)	15:53	43	14:14 (8)
25	05:16	06:19	07:23	07:27	16:04 (1)	08:35	14:59 (7)	09:13		12:18 (9)
	22:03	20:52	19:28	17:08	24 16:28 (1)	16:06	20 15:19 (7)	15:54	43	14:14 (8)
26	05:18	06:21	07:25	07:29	16:05 (1)	08:37	15:00 (7)	09:14		12:19 (9)
	22:01	20:49	19:25	17:06	22 16:27 (1)	16:04	18 15:18 (7)	15:55	42	14:14 (8)
27	05:20	06:23	07:27	07:32	16:07 (1)	08:39	15:01 (7)	09:14		12:19 (9)
	22:00	20:47	19:22	17:03	19 16:26 (1)	16:03	16 15:17 (7)	15:55	43	14:15 (8)
28	05:22	06:25	07:29	07:34	16:08 (1)	08:41	15:03 (7)	09:14		12:20 (9)
	21:58	20:44	19:19	17:01	15 16:23 (1)	16:02	13 15:16 (7)	15:56	41	14:15 (8)
29	05:24	06:27	07:31	07:36	16:11 (1)	08:43	15:06 (7)	09:14		12:21 (9)
	21:56	20:41	19:17	16:58	10 16:21 (1)	16:01	9 15:15 (7)	15:57	40	14:16 (8)
30	05:26	06:29	07:33	07:38		08:45	15:09 (7)	09:14		12:22 (9)
	21:54	20:39	19:14	16:56		15:59	3 15:12 (7)	15:58	39	14:16 (8)
31	05:28	06:31		07:41				09:14		12:23 (9)
	21:52	20:36		16:54				15:59	37	14:16 (8)
Potential sun hours	534	472	385	322		244		211		
Total, worst case					422		606		1050	
Sun reduction					0.42		0.23		0.23	
Oper. time red.					0.94		0.94		0.94	
Wind dir. red.					0.68		0.68		0.67	
Total reduction					0.27		0.15		0.14	
Total, real					114		89		149	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FP - Priedulaji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April			May			June		
1	09:13	08:35	07:30	07:06			05:47		06:21 (38)	04:49		05:50 (40)
	16:01	17:00	18:04	20:11			21:16	40	07:01 (39)	22:15	75	21:28 (34)
2	09:13	08:33	07:27	07:03			05:45		06:21 (38)	04:47		05:50 (40)
	16:02	17:02	18:06	20:14			21:18	40	07:01 (39)	22:17	75	21:28 (34)
3	09:13	08:31	07:24	07:00			05:43		06:21 (38)	04:46		05:50 (40)
	16:04	17:04	18:09	20:16			21:20	39	07:00 (39)	22:18	75	21:28 (34)
4	09:12	08:29	07:22	06:57			05:40		06:21 (38)	04:45		05:50 (40)
	16:05	17:07	18:11	20:18			21:22	38	06:59 (39)	22:19	75	21:28 (34)
5	09:12	08:27	07:19	06:55			05:38		06:22 (38)	04:44		05:50 (40)
	16:06	17:09	18:13	20:20			21:24	37	06:59 (39)	22:21	75	21:28 (34)
6	09:11	08:25	07:16	06:52			05:36		06:23 (38)	04:43		05:51 (40)
	16:08	17:11	18:15	20:22			21:27	35	06:58 (39)	22:22	76	21:29 (34)
7	09:10	08:23	07:14	06:49			05:33		06:09 (40)	04:42		05:51 (40)
	16:09	17:14	18:17	20:24			21:29	43	06:58 (39)	22:23	76	21:29 (34)
8	09:10	08:21	07:11	06:47			05:31		06:05 (40)	04:42		05:51 (40)
	16:11	17:16	18:20	20:26			21:31	48	06:57 (39)	22:24	76	21:29 (34)
9	09:09	08:18	07:08	06:44			05:29		06:02 (40)	04:41		05:52 (40)
	16:13	17:18	18:22	20:29			21:33	50	06:56 (39)	22:25	75	21:30 (34)
10	09:08	08:16	07:06	06:41			05:27		06:00 (40)	04:40		05:51 (40)
	16:14	17:21	18:24	20:31			21:35	47	06:54 (39)	22:26	76	21:29 (34)
11	09:07	08:14	07:03	06:38			05:25		05:58 (40)	04:40		05:52 (40)
	16:16	17:23	18:26	20:33			21:37	48	06:53 (39)	22:27	76	21:30 (34)
12	09:06	08:12	07:00	06:36			05:22		05:57 (40)	04:39		05:53 (40)
	16:18	17:25	18:28	20:35			21:39	47	06:51 (39)	22:28	75	21:31 (34)
13	09:05	08:09	06:58	06:33			05:20		05:56 (40)	04:38		05:52 (40)
	16:20	17:28	18:31	20:37			21:41	43	06:48 (39)	22:29	76	21:30 (34)
14	09:04	08:07	06:55	06:30			05:18		05:55 (40)	04:38		05:53 (40)
	16:22	17:30	18:33	20:39			21:43	35	06:30 (40)	22:30	75	21:31 (34)
15	09:03	08:05	06:52	06:28			05:16		05:54 (40)	04:38		05:53 (40)
	16:23	17:32	18:35	20:42			21:45	38	06:32 (40)	22:31	75	21:31 (34)
16	09:02	08:02	06:49	06:25			05:14		05:53 (40)	04:38		05:54 (40)
	16:25	17:34	18:37	20:44			21:47	40	06:33 (40)	22:31	75	21:31 (34)
17	09:00	08:00	06:47	06:23			05:12		05:53 (40)	04:37		05:54 (40)
	16:27	17:37	18:39	20:46			21:49	40	06:33 (40)	22:32	75	21:32 (34)
18	08:59	07:57	06:44	06:20		06:47 (39)	05:11		05:52 (40)	04:37		05:54 (40)
	16:29	17:39	18:41	20:48	4	06:51 (39)	21:51	41	06:33 (40)	22:32	75	21:32 (34)
19	08:58	07:55	06:41	06:17		06:44 (39)	05:09		05:52 (40)	04:37		05:54 (40)
	16:31	17:41	18:44	20:50	10	06:54 (39)	21:53	42	06:34 (40)	22:33	75	21:32 (34)
20	08:56	07:52	06:38	06:15		06:42 (39)	05:07		05:51 (40)	04:37		05:54 (40)
	16:33	17:44	18:46	20:52	15	06:57 (39)	21:55	50	21:16 (34)	22:33	75	21:32 (34)
21	08:55	07:50	06:36	06:12		06:39 (39)	05:05		05:51 (40)	04:37		05:55 (40)
	16:36	17:46	18:48	20:54	19	06:58 (39)	21:57	56	21:19 (34)	22:33	74	21:32 (34)
22	08:53	07:47	06:33	06:10		06:37 (38)	05:03		05:50 (40)	04:37		05:54 (40)
	16:38	17:48	18:50	20:57	22	06:59 (39)	21:59	60	21:20 (34)	22:33	75	21:32 (34)
23	08:52	07:45	06:30	06:07		06:34 (38)	05:02		05:51 (40)	04:38		05:55 (40)
	16:40	17:50	18:52	20:59	25	06:59 (39)	22:00	62	21:22 (34)	22:34	75	21:33 (34)
24	08:50	07:42	06:27	06:05		06:32 (38)	05:00		05:50 (40)	04:38		05:55 (40)
	16:42	17:53	18:54	21:01	28	07:00 (39)	22:02	65	21:22 (34)	22:34	75	21:33 (34)
25	08:48	07:40	06:25	06:02		06:30 (38)	04:58		05:50 (40)	04:38		05:55 (40)
	16:44	17:55	18:56	21:03	31	07:01 (39)	22:04	68	21:24 (34)	22:34	75	21:33 (34)
26	08:47	07:37	06:22	06:00		06:27 (38)	04:57		05:50 (40)	04:39		05:56 (40)
	16:46	17:57	18:59	21:05	34	07:01 (39)	22:06	69	21:25 (34)	22:34	75	21:33 (34)
27	08:45	07:35	06:19	05:57		06:25 (38)	04:55		05:50 (40)	04:39		05:55 (40)
	16:49	18:00	19:01	21:07	36	07:01 (39)	22:07	70	21:25 (34)	22:33	76	21:33 (34)
28	08:43	07:32	06:16	05:55		06:23 (38)	04:54		05:50 (40)	04:40		05:56 (40)
	16:51	18:02	19:03	21:09	39	07:02 (39)	22:09	71	21:25 (34)	22:33	75	21:34 (34)
29	08:41		07:14	05:52		06:21 (38)	04:52		05:50 (40)	04:41		05:57 (40)
	16:53		20:05	21:12	40	07:01 (39)	22:11	72	21:26 (34)	22:33	75	21:34 (34)
30	08:39		07:11	05:50		06:21 (38)	04:51		05:50 (40)	04:41		05:56 (40)
	16:55		20:07	21:14	40	07:01 (39)	22:12	74	21:27 (34)	22:33	75	21:34 (34)
31	08:37		07:08				04:50		05:50 (40)			
	16:58		20:09				22:14	74	21:27 (34)			
Potential sun hours	231	264	366	428			512			534		
Total, worst case					343			1582			2256	
Sun reduction					0.55			0.61			0.57	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.65			0.66			0.64	
Total reduction					0.33			0.38			0.35	
Total, real					115			598			778	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FP - Priedulaji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September	October	November	December
1	04:42		05:56 (40)	05:30		06:08 (40)	06:33	07:35	07:43	08:46
	22:32	76	21:34 (34)	21:49	46	07:02 (39)	20:33	19:11	16:51	15:58
2	04:43		05:57 (40)	05:32		06:09 (40)	06:35	07:37	07:45	08:48
	22:32	75	21:35 (34)	21:47	48	07:04 (39)	20:30	19:08	16:49	15:57
3	04:44		05:57 (40)	05:34		06:11 (40)	06:38	07:39	07:47	08:50
	22:31	76	21:35 (34)	21:45	50	07:05 (39)	20:28	19:05	16:47	15:56
4	04:45		05:57 (40)	05:36		06:13 (40)	06:40	07:42	07:49	08:51
	22:30	76	21:35 (34)	21:43	50	07:06 (39)	20:25	19:03	16:44	15:56
5	04:46		05:57 (40)	05:38		06:16 (40)	06:42	07:44	07:52	08:53
	22:30	74	21:34 (34)	21:40	47	07:07 (39)	20:22	19:00	16:42	15:55
6	04:47		05:57 (40)	05:40		06:21 (40)	06:44	07:46	07:54	08:54
	22:29	76	21:35 (34)	21:38	37	07:07 (39)	20:20	18:57	16:40	15:54
7	04:48		05:58 (40)	05:42		06:32 (38)	06:46	07:48	07:56	08:56
	22:28	76	21:36 (34)	21:36	36	07:08 (39)	20:17	18:55	16:38	15:53
8	04:49		05:58 (40)	05:44		06:31 (38)	06:48	07:50	07:58	08:57
	22:27	76	21:36 (34)	21:34	37	07:08 (39)	20:14	18:52	16:36	15:53
9	04:51		05:58 (40)	05:46		06:31 (38)	06:50	07:52	08:00	08:59
	22:26	76	21:36 (34)	21:31	38	07:09 (39)	20:11	18:49	16:34	15:52
10	04:52		05:58 (40)	05:48		06:30 (38)	06:52	07:54	08:03	09:00
	22:25	75	21:35 (34)	21:29	39	07:09 (39)	20:09	18:46	16:32	15:52
11	04:53		05:58 (40)	05:50		06:30 (38)	06:54	07:56	08:05	09:02
	22:24	74	21:35 (34)	21:27	39	07:09 (39)	20:06	18:44	16:30	15:51
12	04:55		05:58 (40)	05:52		06:30 (38)	06:56	07:59	08:07	09:03
	22:23	74	21:35 (34)	21:24	40	07:10 (39)	20:03	18:41	16:28	15:51
13	04:56		05:59 (40)	05:54		06:29 (38)	06:58	08:01	08:09	09:04
	22:22	72	21:35 (34)	21:22	41	07:10 (39)	20:00	18:39	16:26	15:51
14	04:58		05:58 (40)	05:56		06:29 (38)	07:00	08:03	08:12	09:05
	22:20	73	21:35 (34)	21:19	40	07:09 (39)	19:58	18:36	16:24	15:51
15	04:59		05:58 (40)	05:58		06:30 (38)	07:02	08:05	08:14	09:06
	22:19	72	21:34 (34)	21:17	38	07:08 (39)	19:55	18:33	16:22	15:51
16	05:01		05:59 (40)	06:00		06:32 (38)	07:04	08:07	08:16	09:07
	22:18	71	21:35 (34)	21:15	36	07:08 (39)	19:52	18:31	16:20	15:51
17	05:02		05:59 (40)	06:02		06:34 (38)	07:06	08:09	08:18	09:08
	22:16	70	21:34 (34)	21:12	33	07:07 (39)	19:49	18:28	16:18	15:51
18	05:04		06:00 (40)	06:04		06:36 (38)	07:08	08:12	08:20	09:09
	22:15	68	21:34 (34)	21:10	31	07:07 (39)	19:47	18:26	16:17	15:51
19	05:06		05:59 (40)	06:06		06:38 (38)	07:10	08:14	08:22	09:10
	22:13	67	21:33 (34)	21:07	28	07:06 (39)	19:44	18:23	16:15	15:51
20	05:07		06:00 (40)	06:09		06:40 (38)	07:12	08:16	08:24	09:10
	22:12	64	21:32 (34)	21:05	25	07:05 (39)	19:41	18:20	16:13	15:51
21	05:09		06:00 (40)	06:11		06:42 (38)	07:15	08:18	08:27	09:11
	22:10	61	21:31 (34)	21:02	22	07:04 (39)	19:38	18:18	16:12	15:52
22	05:11		06:01 (40)	06:13		06:44 (39)	07:17	08:20	08:29	09:12
	22:08	58	21:30 (34)	20:59	18	07:02 (39)	19:36	18:15	16:10	15:52
23	05:13		06:02 (40)	06:15		06:46 (39)	07:19	08:22	08:31	09:12
	22:06	53	21:28 (34)	20:57	14	07:00 (39)	19:33	18:13	16:08	15:53
24	05:14		06:01 (40)	06:17		06:48 (39)	07:21	08:25	08:33	09:13
	22:05	46	21:24 (34)	20:54	10	06:58 (39)	19:30	18:10	16:07	15:53
25	05:16		06:02 (40)	06:19		06:50 (39)	07:23	07:27	08:35	09:13
	22:03	42	06:44 (40)	20:52	3	06:53 (39)	19:27	17:08	16:06	15:54
26	05:18		06:03 (40)	06:21			07:25	07:29	08:37	09:13
	22:01	41	06:44 (40)	20:49			19:25	17:05	16:04	15:55
27	05:20		06:03 (40)	06:23			07:27	07:31	08:39	09:13
	21:59	40	06:43 (40)	20:46			19:22	17:03	16:03	15:55
28	05:22		06:04 (40)	06:25			07:29	07:34	08:41	09:13
	21:57	39	06:43 (40)	20:44			19:19	17:01	16:02	15:56
29	05:24		06:05 (40)	06:27			07:31	07:36	08:42	09:13
	21:55	37	06:42 (40)	20:41			19:16	16:58	16:01	15:57
30	05:26		06:06 (40)	06:29			07:33	07:38	08:44	09:13
	21:53	36	06:55 (39)	20:38			19:14	16:56	15:59	15:58
31	05:28		06:06 (40)	06:31				07:40		09:13
	21:51	44	06:59 (39)	20:36				16:54		15:59
Potential sun hours	534			472			385	322	244	211
Total, worst case		1958			846					
Sun reduction		0.60			0.59					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.65			0.66					
Total reduction		0.37			0.36					
Total, real		720			305					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FQ - Priedulaji 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April			May			June		
1	09:13	08:35	07:30	07:06			05:47		06:21 (40)	04:49		06:05 (40)
	16:01	17:00	18:04	20:11			21:16	48	07:09 (39)	22:15	74	21:21 (34)
2	09:13	08:33	07:27	07:03			05:45		06:18 (40)	04:47		06:05 (40)
	16:02	17:02	18:06	20:14			21:18	50	07:08 (39)	22:17	75	21:22 (34)
3	09:13	08:31	07:24	07:00			05:43		06:14 (40)	04:46		06:05 (40)
	16:04	17:04	18:09	20:16			21:20	52	07:06 (39)	22:18	75	21:22 (34)
4	09:12	08:29	07:22	06:57			05:40		06:13 (40)	04:45		06:06 (40)
	16:05	17:07	18:11	20:18			21:22	52	07:05 (39)	22:19	74	21:22 (34)
5	09:12	08:27	07:19	06:55			05:38		06:11 (40)	04:44		06:06 (40)
	16:06	17:09	18:13	20:20			21:24	53	07:04 (39)	22:21	74	21:22 (34)
6	09:11	08:25	07:16	06:52			05:36		06:10 (40)	04:43		06:07 (40)
	16:08	17:11	18:15	20:22			21:27	52	07:02 (39)	22:22	73	21:23 (34)
7	09:10	08:23	07:14	06:49			05:33		06:09 (40)	04:42		06:07 (40)
	16:09	17:14	18:17	20:24			21:29	50	07:00 (39)	22:23	72	21:22 (34)
8	09:10	08:21	07:11	06:47			05:31		06:08 (40)	04:42		06:07 (40)
	16:11	17:16	18:20	20:26			21:31	44	06:56 (39)	22:24	72	21:22 (34)
9	09:09	08:18	07:08	06:44			05:29		06:07 (40)	04:41		06:08 (40)
	16:13	17:18	18:22	20:29			21:33	40	06:47 (40)	22:25	71	21:23 (33)
10	09:08	08:16	07:06	06:41			05:27		06:06 (40)	04:40		06:08 (40)
	16:14	17:21	18:24	20:31			21:35	42	06:48 (40)	22:26	73	21:24 (33)
11	09:07	08:14	07:03	06:38			05:25		06:06 (40)	04:39		06:08 (40)
	16:16	17:23	18:26	20:33			21:37	42	06:48 (40)	22:27	74	21:26 (33)
12	09:06	08:12	07:00	06:36			05:22		06:05 (40)	04:39		06:09 (40)
	16:18	17:25	18:28	20:35			21:39	44	06:49 (40)	22:28	74	21:27 (33)
13	09:05	08:09	06:58	06:33			05:20		06:04 (40)	04:38		06:09 (40)
	16:20	17:28	18:31	20:37			21:41	45	06:49 (40)	22:29	74	21:27 (33)
14	09:04	08:07	06:55	06:30		06:57 (39)	05:18		06:04 (40)	04:38		06:09 (40)
	16:22	17:30	18:33	20:39	5	07:02 (39)	21:43	45	06:49 (40)	22:30	74	21:28 (33)
15	09:03	08:05	06:52	06:28		06:54 (39)	05:16		06:04 (40)	04:38		06:10 (40)
	16:23	17:32	18:35	20:42	11	07:05 (39)	21:45	46	06:50 (40)	22:31	75	21:29 (33)
16	09:02	08:02	06:49	06:25		06:52 (39)	05:14		06:04 (40)	04:37		06:10 (40)
	16:25	17:34	18:37	20:44	16	07:08 (39)	21:47	51	21:08 (34)	22:31	75	21:30 (33)
17	09:00	08:00	06:47	06:23		06:49 (39)	05:12		06:03 (40)	04:37		06:11 (40)
	16:27	17:37	18:39	20:46	20	07:09 (39)	21:49	58	21:11 (34)	22:32	75	21:31 (33)
18	08:59	07:57	06:44	06:20		06:47 (39)	05:11		06:03 (40)	04:37		06:11 (40)
	16:29	17:39	18:41	20:48	23	07:10 (39)	21:51	62	21:13 (34)	22:32	75	21:31 (33)
19	08:58	07:55	06:41	06:17		06:44 (38)	05:09		06:03 (40)	04:37		06:11 (40)
	16:31	17:41	18:44	20:50	26	07:10 (39)	21:53	66	21:15 (34)	22:33	75	21:31 (33)
20	08:56	07:52	06:38	06:15		06:42 (38)	05:07		06:03 (40)	04:37		06:11 (40)
	16:33	17:44	18:46	20:52	29	07:11 (39)	21:55	68	21:16 (34)	22:33	74	21:31 (33)
21	08:55	07:50	06:36	06:12		06:39 (38)	05:05		06:03 (40)	04:37		06:11 (40)
	16:36	17:46	18:48	20:54	32	07:11 (39)	21:57	70	21:17 (34)	22:33	75	21:32 (33)
22	08:53	07:47	06:33	06:10		06:37 (38)	05:03		06:03 (40)	04:37		06:11 (40)
	16:38	17:48	18:50	20:57	35	07:12 (39)	21:59	71	21:17 (34)	22:33	75	21:32 (33)
23	08:52	07:45	06:30	06:07		06:34 (38)	05:02		06:03 (40)	04:38		06:12 (40)
	16:40	17:50	18:52	20:59	37	07:11 (39)	22:00	73	21:18 (34)	22:34	75	21:32 (33)
24	08:50	07:42	06:27	06:05		06:32 (38)	05:00		06:03 (40)	04:38		06:12 (40)
	16:42	17:53	18:54	21:01	40	07:12 (39)	22:02	73	21:18 (34)	22:34	75	21:32 (33)
25	08:48	07:40	06:25	06:02		06:30 (38)	04:58		06:03 (40)	04:38		06:12 (40)
	16:44	17:55	18:56	21:03	42	07:12 (39)	22:04	74	21:19 (34)	22:34	75	21:32 (33)
26	08:47	07:37	06:22	06:00		06:29 (38)	04:57		06:04 (40)	04:39		06:12 (40)
	16:46	17:57	18:59	21:05	42	07:11 (39)	22:06	75	21:20 (34)	22:34	75	21:32 (33)
27	08:45	07:35	06:19	05:57		06:29 (38)	04:55		06:03 (40)	04:39		06:12 (40)
	16:49	18:00	19:01	21:07	42	07:11 (39)	22:07	75	21:20 (34)	22:33	76	21:32 (33)
28	08:43	07:32	06:16	05:55		06:29 (38)	04:54		06:04 (40)	04:40		06:13 (40)
	16:51	18:02	19:03	21:09	42	07:11 (39)	22:09	74	21:20 (34)	22:33	74	21:32 (33)
29	08:41		07:14	05:52		06:28 (38)	04:52		06:04 (40)	04:41		06:13 (40)
	16:53		20:05	21:12	42	07:10 (39)	22:11	75	21:21 (34)	22:33	74	21:32 (33)
30	08:39		07:11	05:50		06:29 (38)	04:51		06:04 (40)	04:41		06:12 (40)
	16:55		20:07	21:14	40	07:09 (39)	22:12	75	21:21 (34)	22:33	75	21:31 (33)
31	08:37		07:08				04:50		06:05 (40)			
	16:58		20:09				22:14	75	21:21 (34)			
Potential sun hours	231	264	366	428			512			534		
Total, worst case					524			1820			2227	
Sun reduction					0.55			0.61			0.57	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.64			0.65			0.63	
Total reduction					0.33			0.38			0.34	
Total, real					173			683			753	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FQ - Priedulaji 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September	October	November	December
1	04:42		06:13 (40)	05:30		06:15 (40)	06:33	07:35	07:43	08:46
	22:32	73	21:30 (33)	21:49	44	06:59 (40)	20:33	19:11	16:51	15:58
2	04:43		06:13 (40)	05:32		06:16 (40)	06:35	07:37	07:45	08:48
	22:32	73	21:30 (33)	21:47	43	06:59 (40)	20:30	19:08	16:49	15:57
3	04:44		06:13 (40)	05:34		06:17 (40)	06:38	07:39	07:47	08:50
	22:31	73	21:29 (33)	21:45	41	06:58 (40)	20:28	19:05	16:47	15:56
4	04:45		06:13 (40)	05:36		06:18 (40)	06:40	07:42	07:49	08:51
	22:30	72	21:28 (34)	21:43	39	06:57 (40)	20:25	19:03	16:44	15:56
5	04:46		06:12 (40)	05:38		06:19 (40)	06:42	07:44	07:52	08:53
	22:30	73	21:28 (34)	21:40	46	07:08 (39)	20:22	19:00	16:42	15:55
6	04:47		06:12 (40)	05:40		06:19 (40)	06:44	07:46	07:54	08:54
	22:29	74	21:28 (34)	21:38	50	07:10 (39)	20:20	18:57	16:40	15:54
7	04:48		06:13 (40)	05:42		06:20 (40)	06:46	07:48	07:56	08:56
	22:28	73	21:29 (34)	21:36	52	07:12 (39)	20:17	18:55	16:38	15:53
8	04:49		06:13 (40)	05:44		06:21 (40)	06:48	07:50	07:58	08:57
	22:27	73	21:29 (34)	21:34	53	07:14 (39)	20:14	18:52	16:36	15:53
9	04:51		06:13 (40)	05:46		06:23 (40)	06:50	07:52	08:01	08:59
	22:26	74	21:29 (34)	21:31	52	07:15 (39)	20:11	18:49	16:34	15:52
10	04:52		06:13 (40)	05:48		06:24 (40)	06:52	07:54	08:03	09:00
	22:25	74	21:29 (34)	21:29	52	07:16 (39)	20:09	18:46	16:32	15:52
11	04:53		06:13 (40)	05:50		06:27 (40)	06:54	07:56	08:05	09:02
	22:24	74	21:29 (34)	21:27	50	07:17 (39)	20:06	18:44	16:30	15:51
12	04:55		06:12 (40)	05:52		06:30 (40)	06:56	07:59	08:07	09:03
	22:23	76	21:29 (34)	21:24	47	07:17 (39)	20:03	18:41	16:28	15:51
13	04:56		06:13 (40)	05:54		06:37 (38)	06:58	08:01	08:09	09:04
	22:22	76	21:30 (34)	21:22	41	07:18 (39)	20:00	18:39	16:26	15:51
14	04:58		06:13 (40)	05:56		06:37 (38)	07:00	08:03	08:12	09:05
	22:20	75	21:29 (34)	21:19	41	07:18 (39)	19:58	18:36	16:24	15:51
15	04:59		06:12 (40)	05:58		06:35 (38)	07:02	08:05	08:14	09:06
	22:19	76	21:29 (34)	21:17	43	07:18 (39)	19:55	18:33	16:22	15:51
16	05:01		06:13 (40)	06:00		06:35 (38)	07:04	08:07	08:16	09:07
	22:18	75	21:29 (34)	21:15	43	07:18 (39)	19:52	18:31	16:20	15:51
17	05:02		06:12 (40)	06:02		06:35 (38)	07:06	08:09	08:18	09:08
	22:16	75	21:29 (34)	21:12	43	07:18 (39)	19:49	18:28	16:18	15:51
18	05:04		06:13 (40)	06:04		06:36 (38)	07:08	08:12	08:20	09:09
	22:15	74	21:29 (34)	21:10	42	07:18 (39)	19:47	18:26	16:16	15:51
19	05:06		06:12 (40)	06:06		06:38 (38)	07:10	08:14	08:22	09:10
	22:13	74	21:28 (34)	21:07	39	07:17 (39)	19:44	18:23	16:15	15:51
20	05:07		06:13 (40)	06:09		06:40 (38)	07:12	08:16	08:25	09:10
	22:12	72	21:28 (34)	21:05	37	07:17 (39)	19:41	18:20	16:13	15:51
21	05:09		06:12 (40)	06:11		06:42 (38)	07:15	08:18	08:27	09:11
	22:10	72	21:27 (34)	21:02	34	07:16 (39)	19:38	18:18	16:12	15:52
22	05:11		06:13 (40)	06:13		06:44 (38)	07:17	08:20	08:29	09:12
	22:08	70	21:27 (34)	20:59	32	07:16 (39)	19:36	18:15	16:10	15:52
23	05:12		06:13 (40)	06:15		06:46 (38)	07:19	08:22	08:31	09:12
	22:06	70	21:27 (34)	20:57	29	07:15 (39)	19:33	18:13	16:08	15:53
24	05:14		06:13 (40)	06:17		06:48 (38)	07:21	08:25	08:33	09:13
	22:05	66	21:25 (34)	20:54	26	07:14 (39)	19:30	18:10	16:07	15:53
25	05:16		06:13 (40)	06:19		06:50 (39)	07:23	07:27	08:35	09:13
	22:03	65	21:25 (34)	20:52	23	07:13 (39)	19:27	17:08	16:06	15:54
26	05:18		06:14 (40)	06:21		06:52 (39)	07:25	07:29	08:37	09:13
	22:01	61	21:23 (34)	20:49	19	07:11 (39)	19:25	17:05	16:04	15:55
27	05:20		06:13 (40)	06:23		06:54 (39)	07:27	07:31	08:39	09:13
	21:59	57	21:20 (34)	20:46	15	07:09 (39)	19:22	17:03	16:03	15:55
28	05:22		06:14 (40)	06:25		06:56 (39)	07:29	07:34	08:41	09:13
	21:57	47	07:01 (40)	20:44	11	07:07 (39)	19:19	17:01	16:02	15:56
29	05:24		06:15 (40)	06:27		06:58 (39)	07:31	07:36	08:42	09:13
	21:55	46	07:01 (40)	20:41	5	07:03 (39)	19:16	16:58	16:01	15:57
30	05:26		06:15 (40)	06:29			07:33	07:38	08:44	09:13
	21:53	45	07:00 (40)	20:38			19:14	16:56	15:59	15:58
31	05:28		06:15 (40)	06:31				07:40		09:13
	21:51	44	06:59 (40)	20:36				16:54		15:59
Potential sun hours	534			472			385	322	244	211
Total, worst case		2122			1092					
Sun reduction		0.60			0.59					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.64			0.65					
Total reduction		0.36			0.36					
Total, real		772			392					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FR - Prie ž gali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June
1	09:13		10:54 (29)	08:36		09:28 (30)	07:30		09:02 (28)	07:06			05:48		06:26 (27)	04:49
	16:02	40	11:34 (29)	17:00	50	11:33 (29)	18:05	43	09:45 (28)	20:12			21:16	27	06:53 (27)	22:15
2	09:13		10:54 (29)	08:34		09:29 (30)	07:27		09:02 (28)	07:03			05:46		06:25 (27)	04:48
	16:03	41	11:35 (29)	17:03	44	11:31 (29)	18:07	42	09:44 (28)	20:14			21:18	28	06:53 (27)	22:17
3	09:13		10:54 (29)	08:32		09:29 (30)	07:25		09:02 (28)	07:01			05:43		06:25 (27)	04:47
	16:04	41	11:35 (29)	17:05	31	10:00 (30)	18:09	40	09:42 (28)	20:16			21:21	28	06:53 (27)	22:18
4	09:12		10:55 (29)	08:30		09:28 (30)	07:22		09:04 (28)	06:58			05:41		06:25 (27)	04:46
	16:06	41	11:36 (29)	17:07	31	09:59 (30)	18:11	38	09:42 (28)	20:18			21:23	29	06:54 (27)	22:20
5	09:12		10:56 (29)	08:28		09:29 (30)	07:19		09:04 (28)	06:55			05:39		06:25 (27)	04:45
	16:07	41	11:37 (29)	17:10	30	09:59 (30)	18:14	36	09:40 (28)	20:21			21:25	29	06:54 (27)	22:21
6	09:11		10:56 (29)	08:25		08:56 (31)	07:17		09:05 (28)	06:52			05:36		06:25 (27)	04:44
	16:09	41	11:37 (29)	17:12	32	10:00 (30)	18:16	33	09:38 (28)	20:23			21:27	29	06:54 (27)	22:22
7	09:11		10:56 (29)	08:23		08:53 (31)	07:14		09:07 (28)	06:50			05:34		06:25 (27)	04:43
	16:10	41	11:37 (29)	17:14	46	09:59 (30)	18:18	28	09:35 (28)	20:25			21:29	28	06:53 (27)	22:23
8	09:10		10:56 (29)	08:21		08:51 (31)	07:11		09:09 (28)	06:47			05:32		06:24 (27)	04:42
	16:12	42	11:38 (29)	17:17	55	09:59 (30)	18:20	24	09:33 (28)	20:27			21:31	28	06:52 (27)	22:25
9	09:09		10:57 (29)	08:19		08:49 (31)	07:09		09:12 (28)	06:44			05:30		06:24 (27)	04:42
	16:13	42	11:39 (29)	17:19	61	09:58 (30)	18:22	18	09:30 (28)	20:29			21:33	28	06:52 (27)	22:26
10	09:08		10:57 (29)	08:17		08:46 (31)	07:06		09:17 (28)	06:42			05:27		06:26 (27)	04:41
	16:15	42	11:39 (29)	17:21	66	09:57 (30)	18:25	6	09:23 (28)	20:31			21:35	26	06:52 (27)	22:27
11	09:07		10:57 (29)	08:14		08:46 (31)	07:03			06:39			05:25		06:26 (27)	04:40
	16:17	42	11:39 (29)	17:24	67	09:56 (30)	18:27			20:33			21:37	26	06:52 (27)	22:28
12	09:07		10:57 (29)	08:12		08:45 (31)	07:01			06:36			05:23		06:27 (27)	04:40
	16:19	43	11:40 (29)	17:26	68	09:54 (30)	18:29			20:36			21:39	24	06:51 (27)	22:28
13	09:05		10:58 (29)	08:10		08:45 (31)	06:58			06:34			05:21		06:27 (27)	04:39
	16:20	42	11:40 (29)	17:28	68	09:53 (30)	18:31			20:38			21:41	23	06:50 (27)	22:29
14	09:04		10:58 (29)	08:07		08:45 (31)	06:55			06:31			05:19		06:28 (27)	04:39
	16:22	42	11:40 (29)	17:30	65	09:50 (30)	18:33			20:40			21:43	21	06:49 (27)	22:30
15	09:03		10:59 (29)	08:05		08:45 (31)	06:53			06:28			05:17		06:29 (27)	04:38
	16:24	42	11:41 (29)	17:33	60	09:45 (28)	18:35			20:42			21:45	18	06:47 (27)	22:31
16	09:02		10:59 (29)	08:03		08:45 (31)	06:50			06:26			05:15		06:30 (27)	04:38
	16:26	42	11:41 (29)	17:35	60	09:45 (28)	18:38			20:44			21:47	16	06:46 (27)	22:31
17	09:01		11:00 (29)	08:00		08:46 (31)	06:47			06:23			05:13		06:32 (27)	04:38
	16:28	42	11:42 (29)	17:37	61	09:47 (28)	18:40			20:46			21:49	13	06:45 (27)	22:32
18	08:59		11:00 (29)	07:58		08:46 (31)	06:44			06:21			05:11		06:34 (27)	04:38
	16:30	42	11:42 (29)	17:40	61	09:47 (28)	18:42			20:48			21:51	8	06:42 (27)	22:32
19	08:58		11:00 (29)	07:55		08:47 (31)	06:42			06:18			05:09			04:38
	16:32	41	11:41 (29)	17:42	60	09:47 (28)	18:44			20:51			21:53			22:33
20	08:57		11:02 (29)	07:53		08:48 (31)	06:39			06:15			05:07			04:38
	16:34	40	11:42 (29)	17:44	60	09:48 (28)	18:46			20:53			21:55			22:33
21	08:55		09:36 (30)	07:50		08:50 (31)	06:36			06:13			05:06			04:38
	16:36	51	11:42 (29)	17:47	57	09:47 (28)	18:48			20:55			21:57			22:34
22	08:54		09:34 (30)	07:48		08:54 (31)	06:33			06:10			05:04			04:38
	16:38	55	11:42 (29)	17:49	50	09:47 (28)	18:51			20:57			21:59			22:34
23	08:52		09:33 (30)	07:45		09:01 (28)	06:31			06:08			05:02			04:38
	16:40	57	11:42 (29)	17:51	47	09:48 (28)	18:53			20:59			22:01			22:34
24	08:50		09:32 (30)	07:43		09:00 (28)	06:28			06:05		06:37 (27)	05:01			04:39
	16:43	57	11:41 (29)	17:53	47	09:47 (28)	18:55			21:01	6	06:43 (27)	22:02			22:34
25	08:49		09:31 (30)	07:40		09:01 (28)	06:25			06:03		06:34 (27)	04:59			04:39
	16:45	59	11:41 (29)	17:56	46	09:47 (28)	18:57			21:03	13	06:47 (27)	22:04			22:34
26	08:47		09:30 (30)	07:38		09:01 (28)	06:22			06:00		06:32 (27)	04:57			04:40
	16:47	59	11:40 (29)	17:58	46	09:47 (28)	18:59			21:06	17	06:49 (27)	22:06			22:34
27	08:45		09:30 (30)	07:35		09:01 (28)	06:20			05:58		06:29 (27)	04:56			04:40
	16:49	60	11:40 (29)	18:00	45	09:46 (28)	19:01			21:08	21	06:50 (27)	22:08			22:34
28	08:43		09:29 (30)	07:33		09:01 (28)	06:17			05:55		06:28 (27)	04:54			04:41
	16:51	59	11:39 (29)	18:02	44	09:45 (28)	19:03			21:10	23	06:51 (27)	22:09			22:33
29	08:42		09:29 (30)				07:14			05:53		06:28 (27)	04:53			04:41
	16:54	57	11:38 (29)				20:06			21:12	24	06:52 (27)	22:11			22:33
30	08:40		09:29 (30)				07:12			05:50		06:27 (27)	04:52			04:42
	16:56	55	11:37 (29)				20:08			21:14	26	06:53 (27)	22:12			22:33
31	08:38		09:29 (30)				07:09						04:50			
	16:58	53	11:36 (29)				20:10						22:14			
Potential sun hours	231			264			366			428			512			534
Total, worst case		1452			1458			308			130			429		
Sun reduction		0.27			0.33			0.46			0.55			0.61		
Oper. time red.		0.94			0.94			0.94			0.94			0.94		
Wind dir. red.		0.61			0.58			0.58			0.66			0.66		
Total reduction		0.16			0.18			0.25			0.34			0.38		
Total, real		227			265			77			44			162		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FR - Prie ž gali

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September	October			November			December		
1	04:43			05:30		06:37 (27)	06:34	07:36			07:43		08:16 (31)	08:46		10:39 (29)
	22:32			21:49	24	07:01 (27)	20:34	19:11			16:52	65	09:27 (30)	15:59	42	11:21 (29)
2	04:44			05:32		06:36 (27)	06:36	07:38			07:45		08:19 (31)	08:48		10:39 (29)
	22:32			21:47	26	07:02 (27)	20:31	19:09			16:50	61	09:28 (30)	15:58	42	11:21 (29)
3	04:45			05:34		06:35 (27)	06:38	07:40			07:47		08:21 (31)	08:50		10:40 (29)
	22:31			21:45	27	07:02 (27)	20:28	19:06			16:47	54	09:28 (30)	15:57	42	11:22 (29)
4	04:46			05:36		06:35 (27)	06:40	07:42		09:51 (28)	07:50		08:23 (31)	08:52		10:40 (29)
	22:31			21:43	27	07:02 (27)	20:25	19:03	14	10:05 (28)	16:45	43	09:28 (30)	15:56	42	11:22 (29)
5	04:47			05:38		06:34 (27)	06:42	07:44		09:47 (28)	07:52		08:59 (30)	08:53		10:41 (29)
	22:30			21:41	29	07:03 (27)	20:23	19:00	21	10:08 (28)	16:43	30	09:29 (30)	15:55	42	11:23 (29)
6	04:48			05:40		06:34 (27)	06:44	07:46		09:44 (28)	07:54		08:59 (30)	08:55		10:42 (29)
	22:29			21:39	29	07:03 (27)	20:20	18:58	26	10:10 (28)	16:41	30	09:29 (30)	15:55	41	11:23 (29)
7	04:49			05:42		06:34 (27)	06:46	07:48		09:42 (28)	07:56		08:59 (30)	08:56		10:43 (29)
	22:28			21:36	29	07:03 (27)	20:17	18:55	31	10:13 (28)	16:39	31	09:30 (30)	15:54	41	11:24 (29)
8	04:50			05:44		06:34 (27)	06:48	07:50		09:40 (28)	07:59		08:59 (30)	08:58		10:43 (29)
	22:27			21:34	29	07:03 (27)	20:15	18:52	34	10:14 (28)	16:36	30	09:29 (30)	15:53	40	11:23 (29)
9	04:51			05:46		06:34 (27)	06:50	07:53		09:39 (28)	08:01		08:59 (30)	08:59		10:44 (29)
	22:26			21:32	29	07:03 (27)	20:12	18:50	36	10:15 (28)	16:34	45	11:02 (29)	15:53	40	11:24 (29)
10	04:53			05:48		06:34 (27)	06:52	07:55		09:37 (28)	08:03		08:59 (30)	09:01		10:44 (29)
	22:25			21:29	29	07:03 (27)	20:09	18:47	39	10:16 (28)	16:32	49	11:04 (29)	15:52	40	11:24 (29)
11	04:54			05:51		06:34 (27)	06:55	07:57		09:37 (28)	08:05		09:00 (30)	09:02		10:45 (29)
	22:24			21:27	27	07:01 (27)	20:06	18:44	41	10:18 (28)	16:30	54	11:07 (29)	15:52	40	11:25 (29)
12	04:55			05:53		06:34 (27)	06:57	07:59		09:35 (28)	08:08		09:00 (30)	09:03		10:45 (29)
	22:23			21:25	27	07:01 (27)	20:04	18:42	43	10:18 (28)	16:28	56	11:08 (29)	15:52	40	11:25 (29)
13	04:57			05:55		06:35 (27)	06:59	08:01		09:34 (28)	08:10		09:01 (30)	09:04		10:45 (29)
	22:22			21:22	25	07:00 (27)	20:01	18:39	44	10:18 (28)	16:26	57	11:10 (29)	15:51	40	11:25 (29)
14	04:58			05:57		06:35 (27)	07:01	08:03		09:33 (28)	08:12		09:01 (30)	09:05		10:46 (29)
	22:21			21:20	24	06:59 (27)	19:58	18:36	45	10:18 (28)	16:24	59	11:11 (29)	15:51	39	11:25 (29)
15	05:00			05:59		06:36 (27)	07:03	08:05		09:34 (28)	08:14		09:03 (30)	09:06		10:47 (29)
	22:19			21:17	22	06:58 (27)	19:55	18:34	45	10:19 (28)	16:23	59	11:13 (29)	15:51	39	11:26 (29)
16	05:01			06:01		06:37 (27)	07:05	08:08		09:33 (28)	08:16		09:03 (30)	09:07		10:48 (29)
	22:18			21:15	20	06:57 (27)	19:53	18:31	46	10:19 (28)	16:21	59	11:13 (29)	15:51	38	11:26 (29)
17	05:03			06:03		06:39 (27)	07:07	08:10		09:32 (28)	08:18		09:05 (30)	09:08		10:48 (29)
	22:16			21:12	16	06:55 (27)	19:50	18:29	47	10:19 (28)	16:19	59	11:15 (29)	15:51	39	11:27 (29)
18	05:05			06:05		06:41 (27)	07:09	08:12		09:32 (28)	08:21		09:06 (30)	09:09		10:48 (29)
	22:15			21:10	12	06:53 (27)	19:47	18:26	46	10:18 (28)	16:17	57	11:15 (29)	15:51	38	11:26 (29)
19	05:06			06:07		06:45 (27)	07:11	08:14		09:32 (28)	08:23		09:08 (30)	09:10		10:49 (29)
	22:13			21:07	3	06:48 (27)	19:44	18:24	47	10:19 (28)	16:15	57	11:17 (29)	15:52	38	11:27 (29)
20	05:08			06:09			07:13	08:16		09:23 (31)	08:25		09:09 (30)	09:11		10:49 (29)
	22:12			21:05			19:42	18:21	53	10:18 (28)	16:14	55	11:17 (29)	15:52	39	11:28 (29)
21	05:10			06:11			07:15	08:19		09:19 (31)	08:27		09:11 (30)	09:11		10:49 (29)
	22:10			21:02			19:39	18:18	58	10:17 (28)	16:12	51	11:17 (29)	15:52	39	11:28 (29)
22	05:11			06:13			07:17	08:21		09:18 (31)	08:29		10:38 (29)	09:12		10:50 (29)
	22:09			21:00			19:36	18:16	60	10:18 (28)	16:11	40	11:18 (29)	15:53	39	11:29 (29)
23	05:13			06:15			07:19	08:23		09:17 (31)	08:31		10:37 (29)	09:12		10:50 (29)
	22:07			20:57			19:33	18:13	60	10:17 (28)	16:09	41	11:18 (29)	15:53	39	11:29 (29)
24	05:15			06:17			07:21	08:25		09:16 (31)	08:33		10:37 (29)	09:13		10:51 (29)
	22:05			20:55			19:31	18:11	61	10:17 (28)	16:08	42	11:19 (29)	15:54	39	11:30 (29)
25	05:17		06:48 (27)	06:19			07:23	07:27		08:15 (31)	08:35		10:38 (29)	09:13		10:52 (29)
	22:03	2	06:50 (27)	20:52			19:28	17:08	61	09:16 (28)	16:06	42	11:20 (29)	15:55	38	11:30 (29)
26	05:19		06:43 (27)	06:22			07:25	07:30		08:14 (31)	08:37		10:38 (29)	09:13		10:52 (29)
	22:01	11	06:54 (27)	20:49			19:25	17:06	61	09:15 (28)	16:05	42	11:20 (29)	15:55	39	11:31 (29)
27	05:21		06:42 (27)	06:24			07:27	07:32		08:15 (31)	08:39		10:38 (29)	09:14		10:52 (29)
	21:59	14	06:56 (27)	20:47			19:22	17:04	59	09:14 (28)	16:04	42	11:20 (29)	15:56	39	11:31 (29)
28	05:22		06:40 (27)	06:26			07:30	07:34		08:14 (31)	08:41		10:38 (29)	09:14		10:53 (29)
	21:58	18	06:58 (27)	20:44			19:20	17:01	66	09:20 (30)	16:02	42	11:20 (29)	15:57	39	11:32 (29)
29	05:24		06:39 (27)	06:28			07:32	07:36		08:15 (31)	08:43		10:38 (29)	09:14		10:53 (29)
	21:56	19	06:58 (27)	20:42			19:17	16:59	68	09:23 (30)	16:01	43	11:21 (29)	15:58	40	11:33 (29)
30	05:26		06:38 (27)	06:30			07:34	07:38		08:15 (31)	08:45		10:39 (29)	09:14		10:53 (29)
	21:54	21	06:59 (27)	20:39			19:14	16:56	68	09:24 (30)	16:00	42	11:21 (29)	15:59	39	11:32 (29)
31	05:28		06:37 (27)	06:32				07:41		08:16 (31)				09:14		10:54 (29)
	21:52	23	07:00 (27)	20:36				16:54	67	09:26 (30)				16:00	39	11:33 (29)
Potential sun hours	534			472			385	322			244			212		
Total, worst case		108			454				1347			1437			1231	
Sun reduction		0.60			0.59				0.42			0.23			0.23	
Oper. time red.		0.94			0.94				0.94			0.94			0.94	
Wind dir. red.		0.66			0.66				0.58			0.59			0.61	
Total reduction		0.37			0.36				0.23			0.13			0.13	
Total, real		40			164				313			184			160	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FS - Puili

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:28	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:49	07:57	08:56
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:51	05:47	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:53
11	09:08	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:34	21:37	22:28	22:24	21:27	20:06	18:45	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:25	15:51
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:51	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:04	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FT - Pumpuri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June	July	August	September	October	November		December		
1	09:14	13:23 (10)	08:36	09:24 (35)	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43	09:04 (35)	08:46		15:03 (9)
	16:01 7	13:30 (10)	17:00 50	15:43 (9)	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51 5	09:09 (35)	15:58 7		15:10 (9)
2	09:13	13:24 (10)	08:34	09:24 (35)	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	09:00 (35)	08:48		
	16:02 4	13:28 (10)	17:02 49	15:43 (9)	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49 12	09:12 (35)	15:57		
3	09:13		08:32	09:25 (35)	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:59 (35)	08:50		
	16:04		17:04 47	15:42 (9)	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47 16	09:15 (35)	15:56		
4	09:12		08:30	09:25 (35)	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:57 (35)	08:52		
	16:05		17:07 45	15:41 (9)	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44 29	15:06 (9)	15:55		
5	09:12		08:27	09:26 (35)	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:57 (35)	08:53		
	16:06		17:09 41	15:40 (9)	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42 36	15:09 (9)	15:55		
6	09:11		08:25	09:27 (35)	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:56 (35)	08:55		
	16:08		17:11 36	15:39 (9)	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40 40	15:10 (9)	15:54		
7	09:11		08:23	09:28 (35)	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56 (35)	08:56		
	16:09		17:14 29	15:36 (9)	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38 44	15:12 (9)	15:53		
8	09:10		08:21	09:29 (35)	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:55 (35)	08:58		
	16:11		17:16 16	09:45 (35)	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36 47	15:12 (9)	15:53		
9	09:09		08:19	09:32 (35)	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:55 (35)	08:59		
	16:13		17:18 11	09:43 (35)	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34 50	15:14 (9)	15:52		
10	09:08		08:16	09:36 (35)	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	08:55 (35)	09:01		13:14 (10)
	16:14		17:21 3	09:39 (35)	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32 51	15:14 (9)	15:52	3	13:17 (10)
11	09:07	15:21 (9)	08:14		07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	08:55 (35)	09:02		13:13 (10)
	16:16 7	15:28 (9)	17:23		18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30 52	15:15 (9)	15:51	7	13:20 (10)
12	09:07	15:18 (9)	08:12		07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:07	08:55 (35)	09:03		13:12 (10)
	16:18 12	15:30 (9)	17:25		18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28 52	15:15 (9)	15:51	9	13:21 (10)
13	09:05	15:18 (9)	08:10		06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	08:56 (35)	09:04		13:11 (10)
	16:20 14	15:32 (9)	17:28		18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26 52	15:16 (9)	15:51	11	13:22 (10)
14	09:04	15:16 (9)	08:07		06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	08:56 (35)	09:05		13:12 (10)
	16:22 17	15:33 (9)	17:30		18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24 52	15:16 (9)	15:51	12	13:24 (10)
15	09:03	15:16 (9)	08:05		06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	08:57 (35)	09:07		13:12 (10)
	16:23 19	15:35 (9)	17:32		18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22 51	15:16 (9)	15:50	13	13:25 (10)
16	09:02	15:15 (9)	08:02		06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	08:58 (35)	09:08		13:12 (10)
	16:25 21	15:36 (9)	17:35		18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20 49	15:16 (9)	15:50	14	13:26 (10)
17	09:01	15:15 (9)	08:00		06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	08:59 (35)	09:08		13:12 (10)
	16:27 22	15:37 (9)	17:37		18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18 48	15:17 (9)	15:51	15	13:27 (10)
18	08:59	15:15 (9)	07:58		06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:00 (35)	09:09		13:12 (10)
	16:29 23	15:38 (9)	17:39		18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17 45	15:16 (9)	15:51	15	13:27 (10)
19	08:58	15:14 (9)	07:55		06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:02 (35)	09:10		13:12 (10)
	16:31 25	15:39 (9)	17:41		18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15 43	15:17 (9)	15:51	15	13:27 (10)
20	08:57	15:15 (9)	07:53		06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:03 (35)	09:11		13:13 (10)
	16:33 25	15:40 (9)	17:44		18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13 39	15:16 (9)	15:51	15	13:28 (10)
21	08:55	09:30 (35)	07:50		06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:05 (35)	09:11		13:13 (10)
	16:36 35	15:41 (9)	17:46		18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:12 35	15:16 (9)	15:52	16	13:29 (10)
22	08:54	09:28 (35)	07:48		06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	14:51 (9)	09:12		13:13 (10)
	16:38 39	15:41 (9)	17:48		18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10 25	15:16 (9)	15:52	16	13:29 (10)
23	08:52	09:27 (35)	07:45		06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	14:51 (9)	09:12		13:13 (10)
	16:40 43	15:42 (9)	17:51		18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08 25	15:16 (9)	15:53	16	13:29 (10)
24	08:50	09:26 (35)	07:43		06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	14:52 (9)	09:13		13:15 (10)
	16:42 45	15:42 (9)	17:53		18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07 23	15:15 (9)	15:53	15	13:30 (10)
25	08:49	09:25 (35)	07:40		06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	14:53 (9)	09:13		13:15 (10)
	16:44 48	15:43 (9)	17:55		18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06 22	15:15 (9)	15:54	15	13:30 (10)
26	08:47	09:25 (35)	07:38		06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	14:54 (9)	09:14		13:16 (10)
	16:46 49	15:43 (9)	17:57		18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04 21	15:15 (9)	15:55	14	13:30 (10)
27	08:45	09:24 (35)	07:35		06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	14:55 (9)	09:14		13:16 (10)
	16:49 51	15:43 (9)	18:00		19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03 19	15:14 (9)	15:55	15	13:31 (10)
28	08:43	09:24 (35)	07:32		06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	14:56 (9)	09:14		13:17 (10)
	16:51 52	15:44 (9)	18:02		19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02 17	15:13 (9)	15:56	14	13:31 (10)
29	08:41	09:24 (35)			07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	14:58 (9)	09:14		13:18 (10)
	16:53 53	15:44 (9)			20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00 14	15:12 (9)	15:57	13	13:31 (10)
30	08:40	09:24 (35)			07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	15:00 (9)	09:14		13:20 (10)
	16:55 52	15:44 (9)			20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59 12	15:12 (9)	15:58	11	13:31 (10)
31	08:38	09:25 (35)			07:08		04:50		05:28	06:31		07:41			09:14		13:20 (10)
	16:58 51	15:44 (9)			20:10		22:14		21:51	20:36		16:54			15:59	10	13:30 (10)
Potential sun hours	231		264		366	428	512	534	534	472	385	322	244		211		
Total, worst case		714		327										1026		291	
Sun reduction		0.28		0.33										0.23		0.23	
Oper. time red.		0.94		0.94										0.94		0.94	
Wind dir. red.		0.65		0.62										0.64		0.67	
Total reduction		0.17		0.19										0.14		0.14	
Total, real		119		63										141		41	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FU - Punaki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April			May			June	
1	09:13		11:03 (29)	08:36		09:32 (28)	07:30	07:06			05:48		06:54 (27)	04:49	
	16:02	37	11:40 (29)	17:00	39	10:11 (30)	18:05	20:12			21:16	20	07:14 (27)	22:16	
2	09:13		11:04 (29)	08:34		09:31 (28)	07:27	07:03			05:46		06:55 (27)	04:48	
	16:03	37	11:41 (29)	17:03	40	10:11 (30)	18:07	20:14			21:18	18	07:13 (27)	22:17	
3	09:13		11:04 (29)	08:32		09:31 (28)	07:25	07:01			05:43		06:57 (27)	04:47	
	16:04	37	11:41 (29)	17:05	39	10:10 (30)	18:09	20:16			21:21	14	07:11 (27)	22:18	
4	09:12		11:06 (29)	08:30		09:30 (28)	07:22	06:58			05:41		07:00 (27)	04:46	
	16:06	36	11:42 (29)	17:07	38	10:08 (30)	18:11	20:18			21:23	8	07:08 (27)	22:20	
5	09:12		11:06 (29)	08:28		09:30 (28)	07:19	06:55			05:39			04:45	
	16:07	36	11:42 (29)	17:10	38	10:08 (28)	18:14	20:21			21:25			22:21	
6	09:11		11:06 (29)	08:25		09:30 (28)	07:17	06:52			05:36			04:44	
	16:09	36	11:42 (29)	17:12	39	10:09 (28)	18:16	20:23			21:27			22:22	
7	09:11		11:07 (29)	08:23		09:29 (28)	07:14	06:50			05:34			04:43	
	16:10	36	11:43 (29)	17:14	40	10:09 (28)	18:18	20:25			21:29			22:23	
8	09:10		11:07 (29)	08:21		09:29 (28)	07:11	06:47			05:32			04:42	
	16:12	36	11:43 (29)	17:17	41	10:10 (28)	18:20	20:27			21:31			22:25	
9	09:09		11:08 (29)	08:19		09:29 (28)	07:09	06:44			05:30			04:41	
	16:13	35	11:43 (29)	17:19	42	10:11 (28)	18:22	20:29			21:33			22:26	
10	09:08		09:51 (30)	08:17		09:29 (28)	07:06	06:42			05:27			04:41	
	16:15	40	11:44 (29)	17:21	41	10:10 (28)	18:25	20:31			21:35			22:27	
11	09:07		09:48 (30)	08:14		09:29 (28)	07:03	06:39			05:25			04:40	
	16:17	45	11:43 (29)	17:24	42	10:11 (28)	18:27	20:33			21:37			22:28	
12	09:07		09:47 (30)	08:12		09:29 (28)	07:01	06:36			05:23			04:40	
	16:19	47	11:43 (29)	17:26	41	10:10 (28)	18:29	20:36			21:39			22:29	
13	09:05		09:46 (30)	08:10		09:30 (28)	06:58	06:34		07:07 (27)	05:21			04:39	
	16:20	50	11:44 (29)	17:28	40	10:10 (28)	18:31	20:38	2	07:09 (27)	21:41			22:29	
14	09:04		09:45 (30)	08:07		09:29 (28)	06:55	06:31		07:01 (27)	05:19			04:39	
	16:22	50	11:43 (29)	17:30	41	10:10 (28)	18:33	20:40	13	07:14 (27)	21:43			22:30	
15	09:03		09:45 (30)	08:05		09:30 (28)	06:53	06:28		06:59 (27)	05:17			04:38	
	16:24	51	11:44 (29)	17:33	40	10:10 (28)	18:35	20:42	18	07:17 (27)	21:45			22:31	
16	09:02		09:44 (30)	08:03		09:30 (28)	06:50	06:26		06:57 (27)	05:15			04:38	
	16:26	52	11:43 (29)	17:35	39	10:09 (28)	18:38	20:44	21	07:18 (27)	21:47			22:31	
17	09:01		09:45 (30)	08:00		09:31 (28)	06:47	06:23		06:56 (27)	05:13			04:38	
	16:28	52	11:44 (29)	17:37	38	10:09 (28)	18:40	20:46	23	07:19 (27)	21:49			22:32	
18	08:59		09:44 (30)	07:58		09:32 (28)	06:44	06:21		06:54 (27)	05:11			04:38	
	16:30	52	11:43 (29)	17:40	35	10:07 (28)	18:42	20:48	25	07:19 (27)	21:51			22:32	
19	08:58		09:43 (30)	07:55		09:32 (28)	06:42	06:18		06:54 (27)	05:09			04:38	
	16:32	52	11:42 (29)	17:42	34	10:06 (28)	18:44	20:51	26	07:20 (27)	21:53			22:33	
20	08:57		09:44 (30)	07:53		09:34 (28)	06:39	06:15		06:52 (27)	05:07			04:38	
	16:34	50	11:42 (29)	17:44	31	10:05 (28)	18:46	20:53	28	07:20 (27)	21:55			22:33	
21	08:55		09:44 (30)	07:50		09:34 (28)	06:36	06:13		06:52 (27)	05:06			04:38	
	16:36	49	11:41 (29)	17:47	29	10:03 (28)	18:48	20:55	29	07:21 (27)	21:57			22:34	
22	08:54		09:43 (30)	07:48		09:36 (28)	06:33	06:10		06:51 (27)	05:04			04:38	
	16:38	47	11:40 (29)	17:49	25	10:01 (28)	18:51	20:57	29	07:20 (27)	21:59			22:34	
23	08:52		09:43 (30)	07:45		09:38 (28)	06:31	06:08		06:51 (27)	05:02			04:38	
	16:40	44	11:38 (29)	17:51	21	09:59 (28)	18:53	20:59	29	07:20 (27)	22:01			22:34	
24	08:50		09:43 (30)	07:43		09:41 (28)	06:28	06:05		06:51 (27)	05:01			04:39	
	16:43	40	11:36 (29)	17:53	15	09:56 (28)	18:55	21:01	29	07:20 (27)	22:02			22:34	
25	08:49		09:44 (28)	07:40			06:25	06:03		06:51 (27)	04:59			04:39	
	16:45	28	10:12 (30)	17:56			18:57	21:03	29	07:20 (27)	22:04			22:34	
26	08:47		09:40 (28)	07:38			06:22	06:00		06:51 (27)	04:57			04:40	
	16:47	32	10:12 (30)	17:58			18:59	21:06	28	07:19 (27)	22:06			22:34	
27	08:45		09:38 (28)	07:35			06:20	05:58		06:51 (27)	04:56			04:40	
	16:49	34	10:12 (30)	18:00			19:01	21:08	27	07:18 (27)	22:08			22:34	
28	08:43		09:36 (28)	07:33			06:17	05:55		06:52 (27)	04:54			04:41	
	16:51	36	10:12 (30)	18:02			19:03	21:10	26	07:18 (27)	22:09			22:33	
29	08:42		09:35 (28)				07:14	05:53		06:52 (27)	04:53			04:41	
	16:54	37	10:12 (30)				20:06	21:12	25	07:17 (27)	22:11			22:33	
30	08:40		09:34 (28)				07:12	05:50		06:53 (27)	04:52			04:42	
	16:56	38	10:12 (30)				20:08	21:14	23	07:16 (27)	22:12			22:33	
31	08:38		09:34 (28)				07:09				04:50				
	16:58	38	10:12 (30)				20:10				22:14				
Potential sun hours	231			264			366	428			512			534	
Total, worst case		1290			868				430			60			
Sun reduction		0.27			0.33				0.55			0.61			
Oper. time red.		0.94			0.94				0.94			0.94			
Wind dir. red.		0.60			0.57				0.64			0.64			
Total reduction		0.15			0.18				0.33			0.37			
Total, real		199			154				141			22			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FU - Punaki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August		September	October		November		December	
1	04:43	05:30		06:34	07:36		07:43		08:46	
	22:32	21:49		20:34	19:11		16:52	42	15:59	44
2	04:44	05:32		06:36	07:38		07:45		08:48	
	22:32	21:47		20:31	19:09		16:50	41	15:58	41
3	04:45	05:34		06:38	07:40		07:47		08:50	
	22:31	21:45		20:28	19:06		16:47	40	15:57	35
4	04:46	05:36		06:40	07:42		07:50		08:52	
	22:31	21:43		20:25	19:03		16:45	40	15:56	36
5	04:47	05:38		06:42	07:44		07:52		08:53	
	22:30	21:41		20:23	19:00		16:43	39	15:55	36
6	04:48	05:40		06:44	07:46		07:54		08:55	
	22:29	21:39		20:20	18:58		16:41	38	15:55	36
7	04:49	05:42		06:46	07:48		07:56		08:56	
	22:28	21:36		20:17	18:55		16:38	38	15:54	36
8	04:50	05:44		06:48	07:50		07:59		08:58	
	22:27	21:34		20:15	18:52		16:36	39	15:53	36
9	04:51	05:46	07:08 (27)	06:50	07:53		08:01		08:59	
	22:26	21:32	11 07:19 (27)	20:12	18:50		16:34	40	15:53	37
10	04:53	05:48	07:06 (27)	06:52	07:55		08:03		09:01	
	22:25	21:29	15 07:21 (27)	20:09	18:47		16:32	39	15:52	37
11	04:54	05:51	07:03 (27)	06:55	07:57		08:05		09:02	
	22:24	21:27	19 07:22 (27)	20:06	18:44		16:30	39	15:52	37
12	04:55	05:53	07:02 (27)	06:57	07:59		08:08		09:03	
	22:23	21:25	21 07:23 (27)	20:04	18:42		16:28	38	15:52	37
13	04:57	05:55	07:01 (27)	06:59	08:01		08:10		09:04	
	22:22	21:22	23 07:24 (27)	20:01	18:39		16:26	37	15:51	36
14	04:58	05:57	07:00 (27)	07:01	08:03		08:12		09:05	
	22:21	21:20	25 07:25 (27)	19:58	18:36		16:24	36	15:51	36
15	05:00	05:59	06:59 (27)	07:03	08:05		08:14		09:06	
	22:19	21:17	26 07:25 (27)	19:55	18:34		16:23	34	15:51	37
16	05:01	06:01	06:58 (27)	07:05	08:08		08:16		09:07	
	22:18	21:15	28 07:26 (27)	19:53	18:31		16:21	32	15:51	36
17	05:03	06:03	06:58 (27)	07:07	08:10	10:16 (28)	08:18		09:08	
	22:16	21:12	28 07:26 (27)	19:50	18:29	8 10:24 (28)	16:19	29	15:51	37
18	05:05	06:05	06:57 (27)	07:09	08:12	10:11 (28)	08:21		09:09	
	22:15	21:10	29 07:26 (27)	19:47	18:26	17 10:28 (28)	16:17	40	15:51	36
19	05:06	06:07	06:57 (27)	07:11	08:14	10:09 (28)	08:23		09:10	
	22:13	21:07	29 07:26 (27)	19:44	18:24	22 10:31 (28)	16:15	44	15:52	37
20	05:08	06:09	06:57 (27)	07:13	08:16	10:06 (28)	08:25		09:11	
	22:12	21:05	29 07:26 (27)	19:42	18:21	27 10:33 (28)	16:14	47	15:52	37
21	05:10	06:11	06:57 (27)	07:15	08:19	10:04 (28)	08:27		09:11	
	22:10	21:02	29 07:26 (27)	19:39	18:18	30 10:34 (28)	16:12	49	15:52	37
22	05:11	06:13	06:57 (27)	07:17	08:21	10:04 (28)	08:29		09:12	
	22:09	21:00	28 07:25 (27)	19:36	18:16	32 10:36 (28)	16:11	51	15:53	37
23	05:13	06:15	06:57 (27)	07:19	08:23	10:02 (28)	08:31		09:12	
	22:07	20:57	28 07:25 (27)	19:33	18:13	35 10:37 (28)	16:09	52	15:53	37
24	05:15	06:17	06:57 (27)	07:21	08:25	10:02 (28)	08:33		09:13	
	22:05	20:55	27 07:24 (27)	19:31	18:11	36 10:38 (28)	16:08	52	15:54	37
25	05:17	06:19	06:57 (27)	07:23	07:27	09:01 (28)	08:35		09:13	
	22:03	20:52	25 07:22 (27)	19:28	17:08	37 09:38 (28)	16:06	52	15:55	36
26	05:19	06:22	06:58 (27)	07:25	07:30	08:59 (28)	08:37		09:13	
	22:01	20:49	23 07:21 (27)	19:25	17:06	39 09:38 (28)	16:05	52	15:55	36
27	05:21	06:24	06:59 (27)	07:27	07:32	09:00 (28)	08:39		09:14	
	21:59	20:47	20 07:19 (27)	19:22	17:04	39 09:39 (28)	16:04	52	15:56	37
28	05:22	06:26	07:00 (27)	07:30	07:34	08:59 (28)	08:41		09:14	
	21:58	20:44	17 07:17 (27)	19:20	17:01	40 09:39 (28)	16:02	50	15:57	36
29	05:24	06:28	07:02 (27)	07:32	07:36	08:59 (28)	08:43		09:14	
	21:56	20:42	13 07:15 (27)	19:17	16:59	41 09:40 (28)	16:01	49	15:58	36
30	05:26	06:30		07:34	07:38	08:58 (28)	08:45		09:14	
	21:54	20:39		19:14	16:56	42 09:40 (28)	16:00	48	15:59	37
31	05:28	06:32			07:41	08:59 (28)			09:14	
	21:52	20:36			16:54	41 09:40 (28)			16:00	37
Potential sun hours	534	472		385	322		244		212	
Total, worst case			493			486		1279		1143
Sun reduction			0.59			0.42		0.23		0.23
Oper. time red.			0.94			0.94		0.94		0.94
Wind dir. red.			0.64			0.57		0.59		0.61
Total reduction			0.35			0.23		0.13		0.13
Total, real			174			110		161		148

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FV - Purenes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:14			08:36		09:08 (41)	07:30		08:01 (42)	07:06		05:48	04:49
	16:01			17:00	20	09:28 (41)	18:05	21	08:22 (42)	20:12		21:17	22:16
2	09:14			08:34		09:07 (41)	07:27		08:00 (42)	07:03		05:45	04:48
	16:03			17:03	21	09:28 (41)	18:07	22	08:22 (42)	20:14		21:19	22:17
3	09:13			08:32		09:07 (41)	07:25		08:01 (42)	07:01		05:43	04:47
	16:04			17:05	22	09:29 (41)	18:09	21	08:22 (42)	20:16		21:21	22:19
4	09:13			08:30		09:07 (41)	07:22		08:01 (42)	06:58		05:41	04:45
	16:05			17:07	23	09:30 (41)	18:11	21	08:22 (42)	20:18		21:23	22:20
5	09:12			08:28		09:07 (41)	07:20		08:01 (42)	06:55		05:38	04:44
	16:07			17:09	22	09:29 (41)	18:13	19	08:20 (42)	20:21		21:25	22:21
6	09:12			08:26		09:07 (41)	07:17		08:01 (42)	06:52		05:36	04:44
	16:08			17:12	23	09:30 (41)	18:16	18	08:19 (42)	20:23		21:27	22:23
7	09:11			08:24		09:08 (41)	07:14		08:03 (42)	06:50		05:34	04:43
	16:10			17:14	22	09:30 (41)	18:18	15	08:18 (42)	20:25		21:29	22:24
8	09:10			08:21		09:07 (41)	07:12		08:05 (42)	06:47		05:32	04:42
	16:11			17:16	22	09:29 (41)	18:20	11	08:16 (42)	20:27		21:31	22:25
9	09:10			08:19		09:08 (41)	07:09			06:44		05:29	04:41
	16:13			17:19	21	09:29 (41)	18:22			20:29		21:33	22:26
10	09:09			08:17		09:09 (41)	07:06			06:42		05:27	04:40
	16:15			17:21	19	09:28 (41)	18:25			20:31		21:36	22:27
11	09:08			08:15		09:10 (41)	07:03			06:39		05:25	04:40
	16:16			17:23	18	09:28 (41)	18:27			20:34		21:38	22:28
12	09:07			08:12		09:11 (41)	07:01			06:36		05:23	04:39
	16:18			17:26	15	09:26 (41)	18:29			20:36		21:40	22:29
13	09:06			08:10		09:13 (41)	06:58			06:34		05:21	04:39
	16:20			17:28	12	09:25 (41)	18:31			20:38		21:42	22:30
14	09:05			08:08		09:16 (41)	06:55			06:31		05:19	04:38
	16:22			17:30	4	09:20 (41)	18:33			20:40		21:44	22:31
15	09:04			08:05			06:53			06:28		05:17	04:38
	16:24			17:33			18:35			20:42		21:46	22:31
16	09:02			08:03			06:50			06:26		05:15	04:38
	16:26			17:35			18:38			20:44		21:48	22:32
17	09:01			08:00			06:47			06:23		05:13	04:38
	16:28			17:37			18:40			20:46		21:50	22:32
18	09:00			07:58			06:44			06:20		05:11	04:38
	16:30			17:40			18:42			20:49		21:52	22:33
19	08:58			07:56			06:42			06:18		05:09	04:37
	16:32			17:42			18:44			20:51		21:54	22:33
20	08:57			07:53			06:39			06:15		05:07	04:37
	16:34			17:44			18:46			20:53		21:55	22:34
21	08:55			07:51			06:36			06:13		05:05	04:38
	16:36			17:46			18:48			20:55		21:57	22:34
22	08:54			07:48			06:33			06:10		05:04	04:38
	16:38			17:49			18:51			20:57		21:59	22:34
23	08:52			07:46		08:13 (42)	06:31			06:08		05:02	04:38
	16:40			17:51	1	08:14 (42)	18:53			20:59		22:01	22:34
24	08:51			07:43		08:10 (42)	06:28			06:05		05:00	04:38
	16:42			17:53	8	08:18 (42)	18:55			21:02		22:03	22:34
25	08:49			07:40		08:08 (42)	06:25			06:02		04:59	04:39
	16:45			17:56	12	08:20 (42)	18:57			21:04		22:05	22:34
26	08:47			07:38		08:05 (42)	06:22			06:00		04:57	04:39
	16:47			17:58	16	08:21 (42)	18:59			21:06		22:06	22:34
27	08:45			07:35		08:02 (42)	06:20			05:57		04:56	04:40
	16:49			18:00	19	08:21 (42)	19:01			21:08		22:08	22:34
28	08:44		09:16 (41)	07:33		08:02 (42)	06:17			05:55		04:54	04:40
	16:51	6	09:22 (41)	18:02	20	08:22 (42)	19:03			21:10		22:10	22:34
29	08:42		09:14 (41)				07:14			05:53		04:53	04:41
	16:53	10	09:24 (41)				20:06			21:12		22:11	22:34
30	08:40		09:12 (41)				07:12			05:50		04:51	04:42
	16:56	13	09:25 (41)				20:08			21:14		22:13	22:33
31	08:38		09:10 (41)				07:09					04:50	
	16:58	17	09:27 (41)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		46			340			148					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.58			0.58			0.60					
Total reduction		0.15			0.18			0.26					
Total, real		7			62			38					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FV - Purenes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December
1	04:42	05:30	06:34	07:36			07:43		08:38 (41)	08:47
	22:33	21:50	20:34	19:11			16:52	20	08:58 (41)	15:59
2	04:43	05:32	06:36	07:38			07:45		08:38 (41)	08:49
	22:32	21:48	20:31	19:09			16:49	21	08:59 (41)	15:58
3	04:44	05:34	06:38	07:40			07:48		08:37 (41)	08:50
	22:32	21:45	20:28	19:06			16:47	22	08:59 (41)	15:57
4	04:45	05:36	06:40	07:42			07:50		08:37 (41)	08:52
	22:31	21:43	20:26	19:03			16:45	23	09:00 (41)	15:56
5	04:46	05:38	06:42	07:44		08:42 (42)	07:52		08:37 (41)	08:54
	22:30	21:41	20:23	19:00	8	08:50 (42)	16:43	22	08:59 (41)	15:55
6	04:47	05:40	06:44	07:46		08:40 (42)	07:54		08:37 (41)	08:55
	22:30	21:39	20:20	18:58	14	08:54 (42)	16:40	23	09:00 (41)	15:54
7	04:48	05:42	06:46	07:48		08:38 (42)	07:57		08:37 (41)	08:57
	22:29	21:37	20:17	18:55	17	08:55 (42)	16:38	22	08:59 (41)	15:54
8	04:50	05:44	06:48	07:51		08:37 (42)	07:59		08:38 (41)	08:58
	22:28	21:34	20:15	18:52	18	08:55 (42)	16:36	22	09:00 (41)	15:53
9	04:51	05:46	06:50	07:53		08:35 (42)	08:01		08:38 (41)	09:00
	22:27	21:32	20:12	18:50	21	08:56 (42)	16:34	21	08:59 (41)	15:53
10	04:52	05:48	06:52	07:55		08:34 (42)	08:03		08:39 (41)	09:01
	22:26	21:30	20:09	18:47	22	08:56 (42)	16:32	20	08:59 (41)	15:52
11	04:54	05:50	06:54	07:57		08:35 (42)	08:06		08:41 (41)	09:02
	22:25	21:27	20:06	18:44	21	08:56 (42)	16:30	17	08:58 (41)	15:52
12	04:55	05:52	06:57	07:59		08:34 (42)	08:08		08:44 (41)	09:04
	22:24	21:25	20:04	18:42	22	08:56 (42)	16:28	13	08:57 (41)	15:51
13	04:56	05:54	06:59	08:01		08:34 (42)	08:10		08:46 (41)	09:05
	22:22	21:23	20:01	18:39	21	08:55 (42)	16:26	10	08:56 (41)	15:51
14	04:58	05:57	07:01	08:03		08:34 (42)	08:12		08:49 (41)	09:06
	22:21	21:20	19:58	18:36	20	08:54 (42)	16:24	5	08:54 (41)	15:51
15	04:59	05:59	07:03	08:06		08:36 (42)	08:14			09:07
	22:20	21:18	19:55	18:34	18	08:54 (42)	16:22			15:51
16	05:01	06:01	07:05	08:08		08:38 (42)	08:17			09:08
	22:18	21:15	19:53	18:31	15	08:53 (42)	16:20			15:51
17	05:03	06:03	07:07	08:10		08:40 (42)	08:19			09:09
	22:17	21:13	19:50	18:29	11	08:51 (42)	16:19			15:51
18	05:04	06:05	07:09	08:12		08:43 (42)	08:21			09:10
	22:15	21:10	19:47	18:26	6	08:49 (42)	16:17			15:51
19	05:06	06:07	07:11	08:14			08:23			09:10
	22:14	21:08	19:44	18:23			16:15			15:51
20	05:08	06:09	07:13	08:16			08:25			09:11
	22:12	21:05	19:42	18:21			16:14			15:52
21	05:09	06:11	07:15	08:19			08:27			09:12
	22:11	21:03	19:39	18:18			16:12			15:52
22	05:11	06:13	07:17	08:21			08:29			09:12
	22:09	21:00	19:36	18:16			16:10			15:52
23	05:13	06:15	07:19	08:23			08:31			09:13
	22:07	20:57	19:33	18:13			16:09			15:53
24	05:15	06:17	07:21	08:25			08:33			09:13
	22:05	20:55	19:31	18:11			16:07			15:54
25	05:17	06:19	07:23	07:28			08:35			09:14
	22:04	20:52	19:28	17:08			16:06			15:54
26	05:18	06:21	07:25	07:30			08:37			09:14
	22:02	20:50	19:25	17:06			16:05			15:55
27	05:20	06:24	07:27	07:32			08:39			09:14
	22:00	20:47	19:22	17:03			16:03			15:56
28	05:22	06:26	07:30	07:34		08:44 (41)	08:41			09:14
	21:58	20:44	19:20	17:01	7	08:51 (41)	16:02			15:57
29	05:24	06:28	07:32	07:36		08:42 (41)	08:43			09:14
	21:56	20:42	19:17	16:59	13	08:55 (41)	16:01			15:58
30	05:26	06:30	07:34	07:39		08:40 (41)	08:45			09:14
	21:54	20:39	19:14	16:56	16	08:56 (41)	16:00			15:59
31	05:28	06:32		07:41		08:39 (41)				09:14
	21:52	20:36		16:54	19	08:58 (41)				16:00
Potential sun hours	534	472	385	322			244			211
Total, worst case					289			261		
Sun reduction					0.42			0.23		
Oper. time red.					0.94			0.94		
Wind dir. red.					0.59			0.58		
Total reduction					0.24			0.12		
Total, real					68			33		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FW - Pucmaja A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:58 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:45 (35)
	16:01	32	11:30 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	29	11:14 (35)
2	09:13		10:58 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:46 (35)
	16:02	32	11:30 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	29	11:15 (35)
3	09:13		10:59 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:46 (35)
	16:03	31	11:30 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	29	11:15 (35)
4	09:12		11:00 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:46 (35)
	16:05	31	11:31 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	30	11:16 (35)
5	09:12		11:00 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:46 (35)
	16:06	31	11:31 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	31	11:17 (35)
6	09:11		11:01 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:47 (35)
	16:08	31	11:32 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	31	11:18 (35)
7	09:11		11:01 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:47 (35)
	16:09	31	11:32 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	32	11:19 (35)
8	09:10		11:02 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		10:47 (35)
	16:11	30	11:32 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	31	11:18 (35)
9	09:09		11:03 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:48 (35)
	16:13	29	11:32 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	31	11:19 (35)
10	09:08		11:03 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:48 (35)
	16:14	30	11:33 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	31	11:19 (35)
11	09:07		11:04 (35)	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:48 (35)
	16:16	29	11:33 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	32	11:20 (35)
12	09:06		11:04 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:48 (35)
	16:18	28	11:32 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	33	11:21 (35)
13	09:05		11:06 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:49 (35)
	16:20	26	11:32 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	32	11:21 (35)
14	09:04		11:06 (35)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:50 (35)
	16:21	26	11:32 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	32	11:22 (35)
15	09:03		11:07 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:06		10:50 (35)
	16:23	25	11:32 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	32	11:22 (35)
16	09:02		11:08 (35)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		10:51 (35)
	16:25	23	11:31 (35)	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20			15:50	32	11:23 (35)
17	09:01		11:10 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:51 (35)
	16:27	21	11:31 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	32	11:23 (35)
18	08:59		11:11 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:52 (35)
	16:29	19	11:30 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	32	11:24 (35)
19	08:58		11:12 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23			09:10		10:51 (35)
	16:31	17	11:29 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	33	11:24 (35)
20	08:57		11:15 (35)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		10:52 (35)
	16:33	13	11:28 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13			15:51	32	11:24 (35)
21	08:55		11:19 (35)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		10:54 (35)	09:11		10:53 (35)
	16:35	5	11:24 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	5	10:59 (35)	15:52	32	11:25 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:52 (35)	09:12		10:53 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10	12	11:04 (35)	15:52	32	11:25 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:50 (35)	09:12		10:53 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	16	11:06 (35)	15:53	32	11:25 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:48 (35)	09:13		10:54 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	19	11:07 (35)	15:53	33	11:27 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:48 (35)	09:13		10:55 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	21	11:09 (35)	15:54	32	11:27 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:47 (35)	09:13		10:55 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	23	11:10 (35)	15:55	32	11:27 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:47 (35)	09:14		10:55 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	24	11:11 (35)	15:55	33	11:28 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:46 (35)	09:14		10:56 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	26	11:12 (35)	15:56	32	11:28 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:46 (35)	09:14		10:57 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	27	11:13 (35)	15:57	32	11:29 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:46 (35)	09:14		10:57 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	27	11:13 (35)	15:58	32	11:29 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:57 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	32	11:29 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		540												200			980	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		86												27			128	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FX - Pucmaja B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:52 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:39 (35)
	16:01	33	11:25 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	30	11:09 (35)
2	09:13		10:52 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:39 (35)
	16:02	33	11:25 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	30	11:09 (35)
3	09:13		10:53 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:39 (35)
	16:03	32	11:25 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	31	11:10 (35)
4	09:12		10:54 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:40 (35)
	16:05	32	11:26 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	31	11:11 (35)
5	09:12		10:54 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:40 (35)
	16:06	32	11:26 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	32	11:12 (35)
6	09:11		10:55 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:41 (35)
	16:08	31	11:26 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	31	11:12 (35)
7	09:11		10:55 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:41 (35)
	16:09	31	11:26 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	32	11:13 (35)
8	09:10		10:56 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		10:41 (35)
	16:11	31	11:27 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	32	11:13 (35)
9	09:09		10:56 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:42 (35)
	16:13	31	11:27 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	32	11:14 (35)
10	09:08		10:57 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:42 (35)
	16:14	30	11:27 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	32	11:14 (35)
11	09:07		10:58 (35)	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:43 (35)
	16:16	30	11:28 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	32	11:15 (35)
12	09:06		10:58 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:43 (35)
	16:18	29	11:27 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	32	11:15 (35)
13	09:05		10:59 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:43 (35)
	16:20	29	11:28 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	32	11:15 (35)
14	09:04		10:59 (35)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:44 (35)
	16:21	28	11:27 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	32	11:16 (35)
15	09:03		11:01 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:06		10:44 (35)
	16:23	26	11:27 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	33	11:17 (35)
16	09:02		11:01 (35)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		10:45 (35)
	16:25	25	11:26 (35)	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20			15:50	32	11:17 (35)
17	09:01		11:03 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:45 (35)
	16:27	24	11:27 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	33	11:18 (35)
18	08:59		11:04 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:46 (35)
	16:29	22	11:26 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	32	11:18 (35)
19	08:58		11:05 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23			09:10		10:46 (35)
	16:31	20	11:25 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	32	11:18 (35)
20	08:57		11:07 (35)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		10:47 (35)	09:11		10:46 (35)
	16:33	18	11:25 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	8	10:55 (35)	15:51	33	11:19 (35)
21	08:55		11:09 (35)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		10:44 (35)	09:11		10:47 (35)
	16:35	14	11:23 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	14	10:58 (35)	15:52	33	11:20 (35)
22	08:53		11:12 (35)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		10:43 (35)	09:12		10:47 (35)
	16:38	8	11:20 (35)	17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10	18	11:01 (35)	15:52	33	11:20 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:42 (35)	09:12		10:47 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	20	11:02 (35)	15:53	33	11:20 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:41 (35)	09:13		10:49 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	22	11:03 (35)	15:53	32	11:21 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:41 (35)	09:13		10:49 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	24	11:05 (35)	15:54	32	11:21 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:40 (35)	09:13		10:49 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	26	11:06 (35)	15:55	32	11:21 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:40 (35)	09:14		10:50 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	26	11:06 (35)	15:55	32	11:22 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:39 (35)	09:14		10:50 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	28	11:07 (35)	15:56	32	11:22 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:39 (35)	09:14		10:51 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	29	11:08 (35)	15:57	32	11:23 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:39 (35)	09:14		10:51 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	29	11:08 (35)	15:58	33	11:24 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:51 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	33	11:24 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		589												244			993	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		93												32			130	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FY - Pucmaja C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:56 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:44 (35)
	16:01	30	11:26 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	26	11:10 (35)
2	09:13		10:56 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:44 (35)
	16:02	30	11:26 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	27	11:11 (35)
3	09:13		10:56 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:43 (35)
	16:03	30	11:26 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	27	11:10 (35)
4	09:12		10:57 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:44 (35)
	16:05	30	11:27 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	27	11:11 (35)
5	09:12		10:58 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:44 (35)
	16:06	29	11:27 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	28	11:12 (35)
6	09:11		10:58 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:44 (35)
	16:08	29	11:27 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	29	11:13 (35)
7	09:11		10:59 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:45 (35)
	16:09	28	11:27 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	29	11:14 (35)
8	09:10		10:59 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		10:44 (35)
	16:11	28	11:27 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	30	11:14 (35)
9	09:09		11:00 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:45 (35)
	16:13	27	11:27 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	30	11:15 (35)
10	09:08		11:01 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:45 (35)
	16:14	26	11:27 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	30	11:15 (35)
11	09:07		11:02 (35)	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:46 (35)
	16:16	26	11:28 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	30	11:16 (35)
12	09:06		11:02 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:46 (35)
	16:18	25	11:27 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	30	11:16 (35)
13	09:05		11:04 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:46 (35)
	16:20	23	11:27 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	30	11:16 (35)
14	09:04		11:04 (35)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:47 (35)
	16:21	22	11:26 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	30	11:17 (35)
15	09:03		11:06 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		10:47 (35)
	16:23	20	11:26 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	31	11:18 (35)
16	09:02		11:07 (35)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		10:48 (35)
	16:25	18	11:25 (35)	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20			15:50	30	11:18 (35)
17	09:01		11:09 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:48 (35)
	16:27	16	11:25 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	31	11:19 (35)
18	08:59		11:11 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:49 (35)
	16:29	12	11:23 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	30	11:19 (35)
19	08:58		11:14 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23			09:10		10:49 (35)
	16:31	6	11:20 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	30	11:19 (35)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		10:49 (35)
	16:33			17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13			15:51	31	11:20 (35)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:11		10:50 (35)
	16:35			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11			15:52	31	11:21 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29			09:12		10:50 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10			15:52	31	11:21 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:51 (35)	09:12		10:50 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	6	10:57 (35)	15:53	31	11:21 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:48 (35)	09:13		10:52 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	12	11:00 (35)	15:53	30	11:22 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:47 (35)	09:13		10:52 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	16	11:03 (35)	15:54	30	11:22 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:46 (35)	09:13		10:52 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	18	11:04 (35)	15:55	31	11:23 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:45 (35)	09:14		10:53 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	20	11:05 (35)	15:55	30	11:23 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:44 (35)	09:14		10:53 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	22	11:06 (35)	15:56	31	11:24 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:44 (35)	09:14		10:54 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	23	11:07 (35)	15:57	30	11:24 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:44 (35)	09:14		10:55 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	24	11:08 (35)	15:58	30	11:25 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:55 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	30	11:25 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		455												141			921	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		72												19			120	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: FZ - Pucmaja D

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		10:59 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		10:47 (35)
	16:01	30	11:29 (35)	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51			15:58	25	11:12 (35)
2	09:13		10:59 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:37	07:45			08:48		10:47 (35)
	16:02	30	11:29 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	26	11:13 (35)
3	09:13		10:59 (35)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		10:47 (35)
	16:03	30	11:29 (35)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	27	11:14 (35)
4	09:12		11:01 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		10:47 (35)
	16:05	29	11:30 (35)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	28	11:15 (35)
5	09:12		11:01 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		10:47 (35)
	16:06	29	11:30 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	29	11:16 (35)
6	09:11		11:02 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		10:48 (35)
	16:08	28	11:30 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	29	11:17 (35)
7	09:11		11:02 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		10:48 (35)
	16:09	29	11:31 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	29	11:17 (35)
8	09:10		11:03 (35)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		10:48 (35)
	16:11	28	11:31 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	29	11:17 (35)
9	09:09		11:04 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		10:48 (35)
	16:13	27	11:31 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34			15:52	30	11:18 (35)
10	09:08		11:05 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		10:48 (35)
	16:14	26	11:31 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	30	11:18 (35)
11	09:07		11:06 (35)	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		10:49 (35)
	16:16	25	11:31 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	31	11:20 (35)
12	09:06		11:06 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		10:49 (35)
	16:18	25	11:31 (35)	17:25	18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	31	11:20 (35)
13	09:05		11:07 (35)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		10:49 (35)
	16:20	24	11:31 (35)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	31	11:20 (35)
14	09:04		11:08 (35)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		10:51 (35)
	16:21	22	11:30 (35)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	30	11:21 (35)
15	09:03		11:09 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:06		10:51 (35)
	16:23	21	11:30 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22			15:50	31	11:22 (35)
16	09:02		11:10 (35)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16			09:07		10:51 (35)
	16:25	19	11:29 (35)	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20			15:50	31	11:22 (35)
17	09:01		11:13 (35)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18			09:08		10:52 (35)
	16:27	15	11:28 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18			15:50	31	11:23 (35)
18	08:59		11:14 (35)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21			09:09		10:52 (35)
	16:29	13	11:27 (35)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16			15:51	31	11:23 (35)
19	08:58		11:17 (35)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:23			09:10		10:52 (35)
	16:31	7	11:24 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15			15:51	31	11:23 (35)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25			09:11		10:53 (35)
	16:33			17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13			15:51	31	11:24 (35)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27			09:11		10:54 (35)
	16:35			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11			15:52	31	11:25 (35)
22	08:53			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29			09:12		10:54 (35)
	16:38			17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10			15:52	31	11:25 (35)
23	08:52			07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31		10:54 (35)	09:12		10:54 (35)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	7	11:01 (35)	15:53	31	11:25 (35)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		10:51 (35)	09:13		10:55 (35)
	16:42			17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	13	11:04 (35)	15:53	31	11:26 (35)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		10:51 (35)	09:13		10:55 (35)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15	11:06 (35)	15:54	31	11:26 (35)
26	08:47			07:37	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		10:49 (35)	09:13		10:56 (35)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	19	11:08 (35)	15:55	30	11:26 (35)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		10:49 (35)	09:14		10:56 (35)
	16:49			18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	20	11:09 (35)	15:55	31	11:27 (35)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		10:48 (35)	09:14		10:57 (35)
	16:51			18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	22	11:10 (35)	15:56	30	11:27 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		10:47 (35)	09:14		10:57 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	24	11:11 (35)	15:57	31	11:28 (35)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		10:47 (35)	09:14		10:58 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	25	11:12 (35)	15:58	31	11:29 (35)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		10:58 (35)
	16:58				20:09		22:14		21:51	20:36		16:54				15:59	30	11:28 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		457												145			929	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.61												0.61			0.61	
Total reduction		0.16												0.13			0.13	
Total, real		72												19			121	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GA - Rasas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		14:52 (9)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43			08:46		14:36 (9)
	16:01	19	15:11 (9)	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51			15:58	24	15:00 (9)
2	09:13		14:51 (9)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		14:36 (9)
	16:02	21	15:12 (9)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	24	15:00 (9)
3	09:13		14:52 (9)	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		14:37 (9)
	16:03	21	15:13 (9)	17:04	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	24	15:01 (9)
4	09:12		14:52 (9)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		14:37 (9)
	16:05	21	15:13 (9)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44			15:55	23	15:00 (9)
5	09:12		14:52 (9)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		14:37 (9)
	16:06	22	15:14 (9)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	23	15:00 (9)
6	09:11		14:52 (9)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:38 (9)
	16:08	22	15:14 (9)	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40			15:54	23	15:01 (9)
7	09:11		14:52 (9)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		14:39 (9)
	16:09	23	15:15 (9)	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38			15:53	22	15:01 (9)
8	09:10		14:53 (9)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		14:39 (9)
	16:11	23	15:16 (9)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	22	15:01 (9)
9	09:09		14:53 (9)	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		14:40 (9)
	16:13	23	15:16 (9)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	21	15:01 (9)
10	09:08		14:53 (9)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:01		14:40 (9)
	16:14	24	15:17 (9)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32			15:52	21	15:01 (9)
11	09:08		14:54 (9)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		14:42 (9)
	16:16	24	15:18 (9)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30			15:51	20	15:02 (9)
12	09:07		14:53 (9)	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:07			09:03		14:42 (9)
	16:18	25	15:18 (9)	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	19	15:01 (9)
13	09:05		14:54 (9)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		14:43 (9)
	16:20	25	15:19 (9)	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26			15:51	19	15:02 (9)
14	09:04		14:55 (9)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:06		14:44 (9)
	16:21	24	15:19 (9)	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:51	18	15:02 (9)
15	09:03		14:55 (9)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14		14:42 (9)	09:07		14:45 (9)
	16:23	24	15:19 (9)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	3	14:45 (9)	15:50	17	15:02 (9)
16	09:02		14:55 (9)	08:02	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16		14:38 (9)	09:08		14:45 (9)
	16:25	24	15:19 (9)	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	10	14:48 (9)	15:50	18	15:03 (9)
17	09:01		14:56 (9)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18		14:37 (9)	09:08		14:46 (9)
	16:27	24	15:20 (9)	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	14	14:51 (9)	15:51	17	15:03 (9)
18	08:59		14:56 (9)	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21		14:35 (9)	09:09		14:47 (9)
	16:29	24	15:20 (9)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	17	14:52 (9)	15:51	16	15:03 (9)
19	08:58		14:56 (9)	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23		14:35 (9)	09:10		14:46 (9)
	16:31	23	15:19 (9)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	19	14:54 (9)	15:51	17	15:03 (9)
20	08:57		14:58 (9)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		14:34 (9)	09:11		14:47 (9)
	16:33	22	15:20 (9)	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	20	14:54 (9)	15:51	17	15:04 (9)
21	08:55		14:58 (9)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		14:33 (9)	09:11		14:48 (9)
	16:36	22	15:20 (9)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:12	22	14:55 (9)	15:52	17	15:05 (9)
22	08:54		14:59 (9)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29		14:34 (9)	09:12		14:48 (9)
	16:38	20	15:19 (9)	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	22	14:56 (9)	15:52	17	15:05 (9)
23	08:52		15:00 (9)	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31		14:33 (9)	09:13		14:49 (9)
	16:40	19	15:19 (9)	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	23	14:56 (9)	15:53	17	15:06 (9)
24	08:50		15:01 (9)	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:33 (9)	09:13		14:49 (9)
	16:42	17	15:18 (9)	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	24	14:57 (9)	15:53	17	15:06 (9)
25	08:49		15:03 (9)	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:34 (9)	09:13		14:50 (9)
	16:44	14	15:17 (9)	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	24	14:58 (9)	15:54	16	15:06 (9)
26	08:47		15:05 (9)	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		14:34 (9)	09:14		14:50 (9)
	16:46	10	15:15 (9)	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	24	14:58 (9)	15:55	17	15:07 (9)
27	08:45		15:10 (9)	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		14:34 (9)	09:14		14:50 (9)
	16:49	2	15:12 (9)	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	24	14:58 (9)	15:55	17	15:07 (9)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:34 (9)	09:14		14:50 (9)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	24	14:58 (9)	15:56	18	15:08 (9)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		14:34 (9)	09:14		14:51 (9)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	25	14:59 (9)	15:57	18	15:09 (9)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:35 (9)	09:14		14:51 (9)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	25	15:00 (9)	15:58	19	15:10 (9)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		14:51 (9)
	16:58				20:10		22:14		21:51	20:36		16:54				15:59	19	15:10 (9)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		562												320			597	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.69	
Total reduction		0.18												0.15			0.15	
Total, real		100												47			87	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GB - Ratnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:01	18:05	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:13	08:34	07:28	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:11	08:26	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:56
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:53	16:36	15:53
9	09:09	08:19	07:09	06:45	05:30	04:42	04:51	05:47	06:51	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:53
11	09:08	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:34	21:37	22:28	22:24	21:27	20:06	18:45	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:40	22:29	22:23	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:42	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:31	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:37	16:24	15:51
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:19	21:18	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:49	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:49	20:55	21:57	22:34	22:10	21:03	19:39	18:19	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:13
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:53
24	08:51	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:04	15:56
28	08:44	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:04	21:10	22:09	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GC - Rebekas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:41	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:41	04:52	05:48	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:17	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:53
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:04	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GD - Reipuseri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:05	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:50
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:50	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:50
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:35	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GE - Remesi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April			May	June	July	August			September			October	November	December
1	09:13	08:35	07:29			07:05		19:22 (38)	05:47	04:48	04:42	05:29			06:33		19:21 (38)	07:35	07:42	08:46
	16:01	17:00	18:04			20:11	20	19:42 (38)	21:16	22:15	22:32	21:49			20:33	17	19:38 (38)	19:11	16:51	15:58
2	09:13	08:33	07:27			07:03		19:21 (38)	05:45	04:47	04:43	05:31			06:35		19:19 (38)	07:37	07:45	08:48
	16:02	17:02	18:06			20:13	23	19:44 (38)	21:18	22:16	22:31	21:47			20:30	20	19:39 (38)	19:08	16:49	15:57
3	09:12	08:31	07:24			07:00		19:20 (38)	05:42	04:46	04:44	05:33			06:37		19:18 (38)	07:39	07:47	08:49
	16:03	17:04	18:08			20:16	25	19:45 (38)	21:20	22:18	22:31	21:45			20:27	22	19:40 (38)	19:05	16:46	15:56
4	09:12	08:29	07:21			06:57		19:20 (38)	05:40	04:45	04:45	05:35			06:39		19:16 (38)	07:41	07:49	08:51
	16:05	17:06	18:10			20:18	26	19:46 (38)	21:22	22:19	22:30	21:42			20:25	24	19:40 (38)	19:02	16:44	15:55
5	09:11	08:27	07:19			06:54		19:19 (38)	05:38	04:44	04:46	05:37			06:41		19:16 (38)	07:43	07:51	08:53
	16:06	17:09	18:13			20:20	26	19:45 (38)	21:24	22:20	22:29	21:40			20:22	24	19:40 (38)	19:00	16:42	15:54
6	09:11	08:25	07:16			06:52		19:19 (38)	05:35	04:43	04:47	05:39			06:43		19:15 (38)	07:46	07:54	08:54
	16:08	17:11	18:15			20:22	25	19:44 (38)	21:26	22:22	22:29	21:38			20:19	25	19:40 (38)	18:57	16:40	15:54
7	09:10	08:23	07:13			06:49		19:19 (38)	05:33	04:42	04:48	05:41			06:46		19:14 (38)	07:48	07:56	08:56
	16:09	17:13	18:17			20:24	25	19:44 (38)	21:28	22:23	22:28	21:36			20:17	26	19:40 (38)	18:54	16:38	15:53
8	09:09	08:20	07:11			06:46		19:19 (38)	05:31	04:41	04:49	05:43			06:48		19:14 (38)	07:50	07:58	08:57
	16:11	17:16	18:19			20:26	24	19:43 (38)	21:31	22:24	22:27	21:33			20:14	26	19:40 (38)	18:52	16:36	15:52
9	09:09	08:18	07:08			06:44		19:20 (38)	05:29	04:41	04:50	05:46			06:50		19:14 (38)	07:52	08:00	08:59
	16:12	17:18	18:22			20:28	22	19:42 (38)	21:33	22:25	22:26	21:31			20:11	25	19:39 (38)	18:49	16:33	15:52
10	09:08	08:16	07:05			06:41		19:21 (38)	05:27	04:40	04:52	05:48			06:52		19:14 (38)	07:54	08:03	09:00
	16:14	17:20	18:24			20:31	20	19:41 (38)	21:35	22:26	22:25	21:29			20:08	24	19:38 (38)	18:46	16:31	15:51
11	09:07	08:14	07:03			06:38		19:22 (38)	05:24	04:39	04:53	05:50			06:54		19:14 (38)	07:56	08:05	09:01
	16:16	17:23	18:26			20:33	17	19:39 (38)	21:37	22:27	22:24	21:26			20:06	21	19:35 (38)	18:44	16:29	15:51
12	09:06	08:11	07:00			06:36		19:24 (38)	05:22	04:39	04:54	05:52			06:56		19:14 (38)	07:58	08:07	09:03
	16:18	17:25	18:28			20:35	13	19:37 (38)	21:39	22:28	22:23	21:24			20:03	18	19:32 (38)	18:41	16:27	15:51
13	09:05	08:09	06:57			06:33		19:28 (38)	05:20	04:38	04:56	05:54			06:58		19:15 (38)	08:00	08:09	09:04
	16:19	17:27	18:30			20:37	5	19:33 (38)	21:41	22:29	22:21	21:22			20:00	14	19:29 (38)	18:38	16:25	15:51
14	09:04	08:07	06:55			06:30			05:18	04:38	04:57	05:56			07:00		19:16 (38)	08:03	08:11	09:05
	16:21	17:30	18:33			20:39			21:43	22:30	22:20	21:19			19:57	11	19:27 (38)	18:36	16:23	15:50
15	09:03	08:04	06:52			06:28			05:16	04:37	04:59	05:58			07:02		19:18 (38)	08:05	08:14	09:06
	16:23	17:32	18:35			20:41			21:45	22:30	22:19	21:17			19:55	6	19:24 (38)	18:33	16:22	15:50
16	09:01	08:02	06:49			06:25			05:14	04:37	05:00	06:00			07:04			08:07	08:16	09:07
	16:25	17:34	18:37			20:43			21:47	22:31	22:17	21:14			19:52			18:30	16:20	15:50
17	09:00	08:00	06:46			06:22			05:12	04:37	05:02	06:02			07:06			08:09	08:18	09:08
	16:27	17:37	18:39			20:46			21:49	22:32	22:16	21:12			19:49			18:28	16:18	15:50
18	08:59	07:57	06:44			06:20			05:10	04:37	05:04	06:04			07:08			08:11	08:20	09:09
	16:29	17:39	18:41			20:48			21:51	22:32	22:14	21:09			19:46			18:25	16:16	15:50
19	08:57	07:55	06:41			06:17			05:08	04:37	05:05	06:06			07:10			08:13	08:22	09:10
	16:31	17:41	18:43			20:50			21:53	22:32	22:13	21:07			19:44			18:23	16:15	15:51
20	08:56	07:52	06:38			06:15			05:07	04:37	05:07	06:08			07:12			08:16	08:24	09:10
	16:33	17:43	18:45			20:52			21:55	22:33	22:11	21:04			19:41			18:20	16:13	15:51
21	08:55	07:50	06:35			06:12			05:05	04:37	05:09	06:10			07:14			08:18	08:26	09:11
	16:35	17:46	18:48			20:54			21:56	22:33	22:10	21:02			19:38			18:18	16:11	15:51
22	08:53	07:47	06:33			06:09			05:03	04:37	05:10	06:12			07:16			08:20	08:28	09:11
	16:37	17:48	18:50			20:56			21:58	22:33	22:08	20:59			19:35			18:15	16:10	15:52
23	08:51	07:45	06:30			06:07			05:01	04:37	05:12	06:14			07:18			08:22	08:31	09:12
	16:40	17:50	18:52			20:59			22:00	22:33	22:06	20:57			19:33			18:13	16:08	15:52
24	08:50	07:42	06:27			06:04			05:00	04:38	05:14	06:17			07:20			08:24	08:33	09:12
	16:42	17:53	18:54			21:01			22:02	22:33	22:04	20:54			19:30			18:10	16:07	15:53
25	08:48	07:40	06:24			06:02			04:58	04:38	05:16	06:19			07:23			07:27	08:35	09:13
	16:44	17:55	18:56			21:03			22:04	22:33	22:03	20:51			19:27			17:08	16:05	15:54
26	08:46	07:37	06:22			05:59			04:56	04:39	05:18	06:21			07:25			07:29	08:37	09:13
	16:46	17:57	18:58			21:05			22:05	22:33	22:01	20:49			19:24			17:05	16:04	15:54
27	08:45	07:34	06:19			05:57			04:55	04:39	05:20	06:23			07:27			07:31	08:38	09:13
	16:48	17:59	19:01			21:07			22:07	22:33	21:59	20:46			19:22			17:03	16:03	15:55
28	08:43	07:32	06:16		18:29 (38)	05:54			04:54	04:40	05:22	06:25			07:29			07:33	08:40	09:13
	16:51	18:02	19:03	5	18:34 (38)	21:09			22:09	22:33	21:57	20:44			19:19			17:00	16:01	15:56
29	08:41		07:14		19:26 (38)	05:52			04:52	04:40	05:23	06:27			07:31			07:36	08:42	09:13
	16:53		20:05	10	19:36 (38)	21:11			22:10	22:33	21:55	20:41			19:16			16:58	16:00	15:57
30	08:39		07:11		19:24 (38)	05:49			04:51	04:41	05:25	06:29		19:27 (38)	07:33			07:38	08:44	09:13
	16:55		20:07	14	19:38 (38)	21:14			22:12	22:32	21:53	20:38	6	19:33 (38)	19:13			16:56	15:59	15:58
31	08:37		07:08		19:23 (38)				04:49		05:27	06:31		19:23 (38)				07:40		09:13
	16:57		20:09	18	19:41 (38)				22:13		21:51	20:36	13	19:36 (38)				16:53		15:59
Potential sun hours	231	264	366			428			512	534	534	472			385			322	244	211
Total, worst case				47			271						19			303				
Sun reduction				0.46			0.55						0.59			0.50				
Oper. time red.				0.94			0.94						0.94			0.94				
Wind dir. red.				0.63			0.63						0.63			0.63				
Total reduction				0.27			0.32						0.35			0.30				
Total, real				13			88						7			90				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GF - Rijnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May		June
1	09:14	08:36		07:30		08:34 (3)	07:06	07:37 (41)	05:48	06:43 (42)	04:49
	16:01	17:00		18:05	17	08:51 (3)	20:12	08:01 (41)	21:17	11 06:54 (42)	22:16
2	09:14	08:34		07:27		08:36 (3)	07:03	07:36 (41)	05:45	06:46 (42)	04:48
	16:03	17:03		18:07	12	08:48 (3)	20:14	25 08:01 (41)	21:19	5 06:51 (42)	22:17
3	09:13	08:32		07:25			07:01	07:34 (41)	05:43		04:47
	16:04	17:05		18:09			20:16	27 08:01 (41)	21:21		22:19
4	09:13	08:30		07:22			06:58	07:35 (41)	05:41		04:46
	16:05	17:07		18:11			20:18	26 08:01 (41)	21:23		22:20
5	09:12	08:28		07:20			06:55	07:34 (41)	05:38		04:45
	16:07	17:10		18:13			20:21	27 08:01 (41)	21:25		22:21
6	09:12	08:26		07:17			06:52	07:33 (41)	05:36		04:44
	16:08	17:12		18:16			20:23	27 08:00 (41)	21:27		22:23
7	09:11	08:23		07:14			06:50	07:34 (41)	05:34		04:43
	16:10	17:14		18:18			20:25	26 08:00 (41)	21:29		22:24
8	09:10	08:21		07:12			06:47	07:34 (41)	05:32		04:42
	16:11	17:16		18:20			20:27	25 07:59 (41)	21:31		22:25
9	09:10	08:19		07:09			06:44	07:34 (41)	05:29		04:41
	16:13	17:19		18:22			20:29	24 07:58 (41)	21:33		22:26
10	09:09	08:17		07:06			06:42	07:35 (41)	05:27		04:41
	16:15	17:21		18:25			20:31	22 07:57 (41)	21:36		22:27
11	09:08	08:15		07:03			06:39	07:35 (41)	05:25		04:40
	16:17	17:23		18:27			20:33	21 07:56 (41)	21:38		22:28
12	09:07	08:12		07:01			06:36	07:36 (41)	05:23		04:39
	16:18	17:26		18:29			20:36	17 07:53 (41)	21:40		22:29
13	09:06	08:10		06:58			06:34	07:38 (41)	05:21		04:39
	16:20	17:28		18:31			20:38	14 07:52 (41)	21:42		22:30
14	09:05	08:08	08:38 (3)	06:55			06:31	07:41 (41)	05:19		04:39
	16:22	17:30	11 08:49 (3)	18:33			20:40	6 07:47 (41)	21:44		22:30
15	09:04	08:05	08:36 (3)	06:53		07:18 (4)	06:28		05:17		04:38
	16:24	17:33	16 08:52 (3)	18:35	8	07:26 (4)	20:42		21:46		22:31
16	09:02	08:03	08:34 (3)	06:50		07:16 (4)	06:26		05:15		04:38
	16:26	17:35	19 08:53 (3)	18:38	13	07:29 (4)	20:44		21:48		22:32
17	09:01	08:00	08:34 (3)	06:47		07:13 (4)	06:23	06:50 (42)	05:13		04:38
	16:28	17:37	21 08:55 (3)	18:40	17	07:30 (4)	20:46	7 06:57 (42)	21:50		22:32
18	09:00	07:58	08:32 (3)	06:44		07:11 (4)	06:20	06:47 (42)	05:11		04:38
	16:30	17:40	23 08:55 (3)	18:42	20	07:31 (4)	20:49	11 06:58 (42)	21:52		22:33
19	08:58	07:56	08:32 (3)	06:42		07:10 (4)	06:18	06:45 (42)	05:09		04:38
	16:32	17:42	24 08:56 (3)	18:44	21	07:31 (4)	20:51	15 07:00 (42)	21:54		22:33
20	08:57	07:53	08:31 (3)	06:39		07:10 (4)	06:15	06:42 (42)	05:07		04:38
	16:34	17:44	25 08:56 (3)	18:46	22	07:32 (4)	20:53	18 07:00 (42)	21:55		22:34
21	08:55	07:51	08:30 (3)	06:36		07:09 (4)	06:13	06:41 (42)	05:05		04:38
	16:36	17:46	26 08:56 (3)	18:48	23	07:32 (4)	20:55	20 07:01 (42)	21:57		22:34
22	08:54	07:48	08:31 (3)	06:33		07:09 (4)	06:10	06:39 (42)	05:04		04:38
	16:38	17:49	26 08:57 (3)	18:51	22	07:31 (4)	20:57	21 07:00 (42)	21:59		22:34
23	08:52	07:46	08:30 (3)	06:31		07:08 (4)	06:08	06:39 (42)	05:02		04:38
	16:40	17:51	26 08:56 (3)	18:53	22	07:30 (4)	20:59	22 07:01 (42)	22:01		22:34
24	08:51	07:43	08:30 (3)	06:28		07:09 (4)	06:05	06:38 (42)	05:00		04:38
	16:42	17:53	26 08:56 (3)	18:55	21	07:30 (4)	21:01	22 07:00 (42)	22:03		22:34
25	08:49	07:40	08:31 (3)	06:25		07:09 (4)	06:03	06:39 (42)	04:59		04:39
	16:45	17:56	25 08:56 (3)	18:57	20	07:29 (4)	21:04	21 07:00 (42)	22:05		22:34
26	08:47	07:38	08:31 (3)	06:23		07:10 (4)	06:00	06:39 (42)	04:57		04:39
	16:47	17:58	24 08:55 (3)	18:59	18	07:28 (4)	21:06	21 07:00 (42)	22:06		22:34
27	08:45	07:35	08:32 (3)	06:20		07:10 (4)	05:58	06:39 (42)	04:56		04:40
	16:49	18:00	21 08:53 (3)	19:01	16	07:26 (4)	21:08	20 06:59 (42)	22:08		22:34
28	08:44	07:33	08:33 (3)	06:17		06:46 (41)	05:55	06:40 (42)	04:54		04:40
	16:51	18:02	20 08:53 (3)	19:03	20	07:24 (4)	21:10	18 06:58 (42)	22:10		22:34
29	08:42			07:14		07:42 (41)	05:53	06:41 (42)	04:53		04:41
	16:54			20:06	15	07:57 (41)	21:12	16 06:57 (42)	22:11		22:34
30	08:40			07:12		07:39 (41)	05:50	06:41 (42)	04:51		04:42
	16:56			20:08	20	07:59 (41)	21:14	14 06:55 (42)	22:13		22:33
31	08:38			07:09		07:38 (41)			04:50		
	16:58			20:10	21	07:59 (41)			22:14		
Potential sun hours	231	264		366			428		512		534
Total, worst case			333		348			557		16	
Sun reduction			0.33		0.46			0.55		0.61	
Oper. time red.			0.94		0.94			0.94		0.94	
Wind dir. red.			0.60		0.62			0.64		0.64	
Total reduction			0.19		0.27			0.33		0.37	
Total, real			62		93			183		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GF - Rijnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August			September			October			November	December
1	04:43	05:30		06:53 (42)	06:34		07:34 (41)	07:36		09:13 (3)	07:43	08:47
	22:33	21:50			20:34	21	07:55 (41)	19:11			16:52	15:59
2	04:43	05:32			06:36		07:33 (41)	07:38			07:45	08:49
	22:32	21:48			20:31	22	07:55 (41)	19:09			16:49	15:58
3	04:44	05:34			06:38		07:32 (41)	07:40			07:48	08:50
	22:32	21:45			20:28	24	07:56 (41)	19:06			16:47	15:57
4	04:45	05:36			06:40		07:31 (41)	07:42			07:50	08:52
	22:31	21:43			20:26	25	07:56 (41)	19:03			16:45	15:56
5	04:46	05:38			06:42		07:30 (41)	07:44			07:52	08:54
	22:30	21:41			20:23	26	07:56 (41)	19:00			16:43	15:55
6	04:47	05:40			06:44		07:29 (41)	07:46			07:54	08:55
	22:30	21:39			20:20	27	07:56 (41)	18:58			16:41	15:54
7	04:49	05:42			06:46		07:29 (41)	07:48			07:57	08:57
	22:29	21:37			20:17	27	07:56 (41)	18:55			16:38	15:54
8	04:50	05:44			06:48		07:29 (41)	07:51			07:59	08:58
	22:28	21:34			20:15	27	07:56 (41)	18:52			16:36	15:53
9	04:51	05:46			06:50		07:29 (41)	07:53			08:01	09:00
	22:27	21:32			20:12	26	07:55 (41)	18:50			16:34	15:53
10	04:52	05:48			06:52		07:29 (41)	07:55			08:03	09:01
	22:26	21:30			20:09	25	07:54 (41)	18:47			16:32	15:52
11	04:54	05:50		06:53 (42)	06:55		07:29 (41)	07:57		09:13 (3)	08:06	09:02
	22:25	21:27	7	07:00 (42)	20:06	24	07:53 (41)	18:44	7	09:20 (3)	16:30	15:52
12	04:55	05:52		06:51 (42)	06:57		07:30 (41)	07:59		09:09 (3)	08:08	09:03
	22:23	21:25	12	07:03 (42)	20:04	22	07:52 (41)	18:42	14	09:23 (3)	16:28	15:51
13	04:56	05:54		06:49 (42)	06:59		07:31 (41)	08:01		09:07 (3)	08:10	09:05
	22:22	21:22	15	07:04 (42)	20:01	19	07:50 (41)	18:39	17	09:24 (3)	16:26	15:51
14	04:58	05:57		06:48 (42)	07:01		07:32 (41)	08:03		09:05 (3)	08:12	09:06
	22:21	21:20	17	07:05 (42)	19:58	16	07:48 (41)	18:36	20	09:25 (3)	16:24	15:51
15	04:59	05:59		06:47 (42)	07:03		07:34 (41)	08:06		09:04 (3)	08:14	09:07
	22:20	21:18	19	07:06 (42)	19:55	21	08:13 (4)	18:34	23	09:27 (3)	16:22	15:51
16	05:01	06:01		06:46 (42)	07:05		08:00 (4)	08:08		09:03 (3)	08:17	09:08
	22:18	21:15	20	07:06 (42)	19:53	15	08:15 (4)	18:31	24	09:27 (3)	16:21	15:51
17	05:03	06:03		06:46 (42)	07:07		07:58 (4)	08:10		09:02 (3)	08:19	09:09
	22:17	21:13	21	07:07 (42)	19:50	18	08:16 (4)	18:29	25	09:27 (3)	16:19	15:51
18	05:04	06:05		06:45 (42)	07:09		07:57 (4)	08:12		09:02 (3)	08:21	09:10
	22:15	21:10	22	07:07 (42)	19:47	20	08:17 (4)	18:26	26	09:28 (3)	16:17	15:51
19	05:06	06:07		06:45 (42)	07:11		07:56 (4)	08:14		09:01 (3)	08:23	09:10
	22:14	21:08	22	07:07 (42)	19:44	21	08:17 (4)	18:23	27	09:28 (3)	16:15	15:51
20	05:08	06:09		06:45 (42)	07:13		07:55 (4)	08:16		09:01 (3)	08:25	09:11
	22:12	21:05	21	07:06 (42)	19:42	22	08:17 (4)	18:21	26	09:27 (3)	16:14	15:52
21	05:09	06:11		06:45 (42)	07:15		07:54 (4)	08:19		09:02 (3)	08:27	09:12
	22:11	21:03	21	07:06 (42)	19:39	23	08:17 (4)	18:18	25	09:27 (3)	16:12	15:52
22	05:11	06:13		06:45 (42)	07:17		07:54 (4)	08:21		09:02 (3)	08:29	09:12
	22:09	21:00	20	07:05 (42)	19:36	22	08:16 (4)	18:16	24	09:26 (3)	16:10	15:53
23	05:13	06:15		06:47 (42)	07:19		07:54 (4)	08:23		09:02 (3)	08:31	09:13
	22:07	20:57	17	07:04 (42)	19:33	22	08:16 (4)	18:13	23	09:25 (3)	16:09	15:53
24	05:15	06:17		06:48 (42)	07:21		07:54 (4)	08:25		09:03 (3)	08:33	09:13
	22:05	20:55	14	07:02 (42)	19:31	21	08:15 (4)	18:11	22	09:25 (3)	16:07	15:54
25	05:17	06:19		06:50 (42)	07:23		07:54 (4)	07:27		08:03 (3)	08:35	09:14
	22:04	20:52	11	07:01 (42)	19:28	20	08:14 (4)	17:08	21	08:24 (3)	16:06	15:54
26	05:18	06:21		06:52 (42)	07:25		07:54 (4)	07:30		08:05 (3)	08:37	09:14
	22:02	20:50	6	06:58 (42)	19:25	18	08:12 (4)	17:06	18	08:23 (3)	16:05	15:55
27	05:20	06:24			07:27		07:56 (4)	07:32		08:06 (3)	08:39	09:14
	22:00	20:47			19:22	15	08:11 (4)	17:04	15	08:21 (3)	16:03	15:56
28	05:22	06:26			07:30		07:59 (4)	07:34		08:09 (3)	08:41	09:14
	21:58	20:44			19:20	10	08:09 (4)	17:01	8	08:17 (3)	16:02	15:57
29	05:24	06:28		07:42 (41)	07:32			07:36			08:43	09:14
	21:56	20:42	6	07:48 (41)	19:17			16:59			16:01	15:58
30	05:26	06:30		07:38 (41)	07:34			07:39			08:45	09:14
	21:54	20:39	14	07:52 (41)	19:14			16:56			16:00	15:59
31	05:28	06:32		07:36 (41)				07:41				09:14
	21:52	20:36	17	07:53 (41)				16:54				16:00
Potential sun hours	534	472			385			322			244	211
Total, worst case			302			599			365			
Sun reduction			0.59			0.50			0.42			
Oper. time red.			0.94			0.94			0.94			
Wind dir. red.			0.64			0.63			0.60			
Total reduction			0.35			0.29			0.24			
Total, real			107			176			87			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GG - Rijvalki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:14		14:47 (1)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43			08:47		14:33 (1)
	16:01	22	15:09 (1)	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51			15:58	23	14:56 (1)
2	09:13		14:47 (1)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		14:33 (1)
	16:02	22	15:09 (1)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49			15:57	23	14:56 (1)
3	09:13		14:48 (1)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		14:34 (1)
	16:04	22	15:10 (1)	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:56	23	14:57 (1)
4	09:13		14:48 (1)	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		14:34 (1)
	16:05	22	15:10 (1)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45			15:55	23	14:57 (1)
5	09:12		14:48 (1)	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52			08:53		14:34 (1)
	16:06	23	15:11 (1)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42			15:55	23	14:57 (1)
6	09:12		14:48 (1)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:34 (1)
	16:08	23	15:11 (1)	17:11	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:57	16:40			15:54	23	14:57 (1)
7	09:11		14:49 (1)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:57		14:35 (1)
	16:09	23	15:12 (1)	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38			15:53	23	14:58 (1)
8	09:10		14:49 (1)	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59			08:58		14:36 (1)
	16:11	23	15:12 (1)	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36			15:53	23	14:59 (1)
9	09:09		14:49 (1)	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		14:36 (1)
	16:13	24	15:13 (1)	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34			15:52	22	14:58 (1)
10	09:09		14:50 (1)	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03			09:01		14:37 (1)
	16:14	23	15:13 (1)	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32			15:52	22	14:59 (1)
11	09:08		14:51 (1)	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05			09:02		14:37 (1)
	16:16	23	15:14 (1)	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30			15:51	22	14:59 (1)
12	09:07		14:50 (1)	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08			09:03		14:37 (1)
	16:18	23	15:13 (1)	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28			15:51	22	14:59 (1)
13	09:06		14:51 (1)	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:05		14:39 (1)
	16:20	23	15:14 (1)	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26			15:51	21	15:00 (1)
14	09:05		14:52 (1)	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:06		14:39 (1)
	16:22	23	15:15 (1)	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24			15:51	21	15:00 (1)
15	09:03		14:52 (1)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14			09:07		14:40 (1)
	16:23	22	15:14 (1)	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22			15:50	20	15:00 (1)
16	09:02		14:54 (1)	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16			09:08		14:40 (1)
	16:25	21	15:15 (1)	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20			15:50	21	15:01 (1)
17	09:01		14:54 (1)	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19			09:09		14:41 (1)
	16:27	20	15:14 (1)	17:37	18:39	20:46	21:50	22:32	22:17	21:12	19:50	18:28	16:18			15:51	20	15:01 (1)
18	09:00		14:55 (1)	07:58	06:44	06:20	05:11	04:37	05:04	06:04	07:09	08:12	08:21			09:09		14:41 (1)
	16:29	19	15:14 (1)	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17			15:51	21	15:02 (1)
19	08:58		14:56 (1)	07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23		14:38 (1)	09:10		14:42 (1)
	16:31	18	15:14 (1)	17:42	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	6	14:44 (1)	15:51	20	15:02 (1)
20	08:57		14:57 (1)	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		14:35 (1)	09:11		14:42 (1)
	16:33	17	15:14 (1)	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	11	14:46 (1)	15:51	20	15:02 (1)
21	08:55		14:58 (1)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		14:35 (1)	09:12		14:43 (1)
	16:36	15	15:13 (1)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	14	14:49 (1)	15:52	20	15:03 (1)
22	08:54		15:00 (1)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29		14:33 (1)	09:12		14:43 (1)
	16:38	11	15:11 (1)	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	17	14:50 (1)	15:52	20	15:03 (1)
23	08:52		15:03 (1)	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31		14:32 (1)	09:13		14:44 (1)
	16:40	6	15:09 (1)	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	18	14:50 (1)	15:53	20	15:04 (1)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:33 (1)	09:13		14:44 (1)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	19	14:52 (1)	15:53	20	15:04 (1)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:32 (1)	09:13		14:44 (1)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	21	14:53 (1)	15:54	20	15:04 (1)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		14:32 (1)	09:14		14:45 (1)
	16:46			17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	21	14:53 (1)	15:55	20	15:05 (1)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		14:32 (1)	09:14		14:45 (1)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	21	14:53 (1)	15:55	20	15:05 (1)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:31 (1)	09:14		14:45 (1)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	23	14:54 (1)	15:56	21	15:06 (1)
29	08:42				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43		14:33 (1)	09:14		14:46 (1)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:58	16:00	22	14:55 (1)	15:57	21	15:07 (1)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:33 (1)	09:14		14:46 (1)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	23	14:56 (1)	15:58	22	15:08 (1)
31	08:38				07:08		04:50		05:28	06:31		07:41				09:14		14:46 (1)
	16:58				20:10		22:14		21:52	20:36		16:54				15:59	22	15:08 (1)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		468												216			662	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.69	
Total reduction		0.18												0.15			0.15	
Total, real		83												32			97	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GH - Robe ž nieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:05	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:08	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:43	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:43	04:50	05:45	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:52	05:47	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:41	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:40	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:59	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:36	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:52
16	09:02	08:03	06:50	06:26	05:15	04:39	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:52
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:38	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:10	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:16	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:03	04:39	05:13	06:16	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:51	04:52	04:42	05:27	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:29	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GI - Rolli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May	June
1	09:13	08:36		07:30		07:58 (30)	07:06	08:12 (28)	05:48	04:49
	16:02	17:01		18:05	51	08:59 (29)	20:12	14 08:26 (28)	21:16	22:16
2	09:13	08:34		07:27		07:57 (30)	07:03	08:15 (28)	05:46	04:48
	16:03	17:03		18:07	51	08:58 (29)	20:14	7 08:22 (28)	21:18	22:17
3	09:13	08:32		07:25		07:56 (30)	07:01		05:43	04:47
	16:04	17:05		18:09	51	08:57 (29)	20:16		21:21	22:18
4	09:12	08:30		07:22		07:57 (30)	06:58		05:41	04:46
	16:06	17:07		18:11	49	08:56 (29)	20:18		21:23	22:20
5	09:12	08:28		07:20		07:56 (30)	06:55		05:39	04:45
	16:07	17:10		18:14	47	08:55 (29)	20:21		21:25	22:21
6	09:11	08:25		07:17		07:56 (30)	06:53		05:36	04:44
	16:09	17:12		18:16	44	08:53 (29)	20:23		21:27	22:22
7	09:11	08:23		07:14		07:56 (30)	06:50		05:34	04:43
	16:10	17:14		18:18	38	08:50 (29)	20:25		21:29	22:23
8	09:10	08:21		07:12		07:57 (30)	06:47		05:32	04:42
	16:12	17:17		18:20	30	08:47 (29)	20:27		21:31	22:25
9	09:09	08:19		07:09		07:58 (30)	06:44		05:30	04:42
	16:13	17:19		18:22	16	08:14 (30)	20:29		21:33	22:26
10	09:08	08:17		07:06		07:59 (30)	06:42		05:27	04:41
	16:15	17:21		18:25	13	08:12 (30)	20:31		21:35	22:27
11	09:08	08:14		07:03		08:02 (30)	06:39		05:25	04:40
	16:17	17:24		18:27	6	08:08 (30)	20:33		21:37	22:28
12	09:07	08:12		07:01			06:36		05:23	04:40
	16:19	17:26		18:29			20:36		21:39	22:29
13	09:06	08:10		06:58			06:34		05:21	04:39
	16:20	17:28		18:31			20:38		21:41	22:29
14	09:04	08:07		06:55			06:31		05:19	04:39
	16:22	17:31		18:33			20:40		21:43	22:30
15	09:03	08:05		06:53			06:28		05:17	04:39
	16:24	17:33		18:35			20:42		21:45	22:31
16	09:02	08:03	08:39 (29)	06:50		07:20 (28)	06:26		05:15	04:38
	16:26	17:35	11 08:50 (29)	18:38	9	07:29 (28)	20:44		21:47	22:31
17	09:01	08:00	08:36 (29)	06:47		07:16 (28)	06:23		05:13	04:38
	16:28	17:37	18 08:54 (29)	18:40	16	07:32 (28)	20:46		21:49	22:32
18	08:59	07:58	08:34 (29)	06:44		07:14 (28)	06:21		05:11	04:38
	16:30	17:40	21 08:55 (29)	18:42	19	07:33 (28)	20:48		21:51	22:32
19	08:58	07:55	08:32 (29)	06:42		07:12 (28)	06:18		05:09	04:38
	16:32	17:42	24 08:56 (29)	18:44	22	07:34 (28)	20:51		21:53	22:33
20	08:57	07:53	08:31 (29)	06:39		07:11 (28)	06:15		05:08	04:38
	16:34	17:44	27 08:58 (29)	18:46	24	07:35 (28)	20:53		21:55	22:33
21	08:55	07:50	08:30 (29)	06:36		07:10 (28)	06:13		05:06	04:38
	16:36	17:47	28 08:58 (29)	18:48	26	07:36 (28)	20:55		21:57	22:34
22	08:54	07:48	08:30 (29)	06:34		07:09 (28)	06:10		05:04	04:38
	16:38	17:49	30 09:00 (29)	18:51	27	07:36 (28)	20:57		21:59	22:34
23	08:52	07:45	08:29 (29)	06:31		07:08 (28)	06:08		05:02	04:39
	16:41	17:51	31 09:00 (29)	18:53	27	07:35 (28)	20:59		22:01	22:34
24	08:50	07:43	08:28 (29)	06:28		07:08 (28)	06:05		05:01	04:39
	16:43	17:53	32 09:00 (29)	18:55	28	07:36 (28)	21:01		22:02	22:34
25	08:49	07:40	08:08 (30)	06:25		07:07 (28)	06:03		04:59	04:39
	16:45	17:56	35 09:00 (29)	18:57	28	07:35 (28)	21:03		22:04	22:34
26	08:47	07:38	08:05 (30)	06:23		07:07 (28)	06:00		04:58	04:40
	16:47	17:58	42 09:00 (29)	18:59	28	07:35 (28)	21:06		22:06	22:34
27	08:45	07:35	08:02 (30)	06:20		07:07 (28)	05:58		04:56	04:40
	16:49	18:00	47 09:00 (29)	19:01	27	07:34 (28)	21:08		22:08	22:34
28	08:43	07:33	08:00 (30)	06:17		07:08 (28)	05:55		04:55	04:41
	16:52	18:02	50 09:00 (29)	19:03	25	07:33 (28)	21:10		22:09	22:33
29	08:42			07:14		08:08 (28)	05:53		04:53	04:41
	16:54			20:06	24	08:32 (28)	21:12		22:11	22:33
30	08:40			07:12		08:09 (28)	05:50		04:52	04:42
	16:56			20:08	21	08:30 (28)	21:14		22:12	22:33
31	08:38			07:09		08:10 (28)			04:51	
	16:58			20:10	18	08:28 (28)			22:14	
Potential sun hours	231	264		366			428		512	534
Total, worst case			396		765			21		
Sun reduction			0.33		0.46			0.55		
Oper. time red.			0.94		0.94			0.94		
Wind dir. red.			0.60		0.61			0.62		
Total reduction			0.19		0.26			0.32		
Total, real			74		200			7		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GI - Rolli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November	December
1	04:43	05:30	06:34		07:36		07:43	08:46
	22:32	21:49	20:34		19:11		16:52	15:59
2	04:44	05:32	06:36		07:38		07:45	08:48
	22:32	21:47	20:31		19:09		16:50	15:58
3	04:45	05:34	06:38		07:40		08:39 (30)	07:47	08:50
	22:31	21:45	20:28		19:06	10	08:49 (30)	16:47	15:57
4	04:46	05:36	06:40		07:42		08:36 (30)	07:50	08:52
	22:31	21:43	20:25		19:03	15	08:51 (30)	16:45	15:56
5	04:47	05:38	06:42		07:44		08:34 (30)	07:52	08:53
	22:30	21:41	20:23		19:01	24	09:21 (29)	16:43	15:55
6	04:48	05:40	06:44		07:46		08:34 (30)	07:54	08:55
	22:29	21:39	20:20		18:58	34	09:26 (29)	16:41	15:55
7	04:49	05:42	06:46		07:48		08:32 (30)	07:56	08:56
	22:28	21:36	20:17		18:55	42	09:28 (29)	16:39	15:54
8	04:50	05:44	06:48		07:51		08:32 (30)	07:59	08:58
	22:27	21:34	20:15		18:52	45	09:29 (29)	16:36	15:53
9	04:51	05:46	06:50		07:53		08:31 (30)	08:01	08:59
	22:26	21:32	20:12		18:50	48	09:30 (29)	16:34	15:53
10	04:53	05:49	06:53		08:09 (28)	07:55		08:30 (30)	08:03	09:01
	22:25	21:29	20:09	5	08:14 (28)	18:47	51	09:31 (29)	16:32	15:53
11	04:54	05:51	06:55		08:05 (28)	07:57		08:31 (30)	08:05	09:02
	22:24	21:27	20:06	13	08:18 (28)	18:44	51	09:32 (29)	16:30	15:52
12	04:55	05:53	06:57		08:02 (28)	07:59		08:31 (30)	08:08	09:03
	22:23	21:25	20:04	18	08:20 (28)	18:42	51	09:32 (29)	16:28	15:52
13	04:57	05:55	06:59		08:00 (28)	08:01		08:31 (30)	08:10	09:04
	22:22	21:22	20:01	21	08:21 (28)	18:39	51	09:32 (29)	16:26	15:52
14	04:58	05:57	07:01		07:59 (28)	08:03		08:33 (30)	08:12	09:05
	22:21	21:20	19:58	23	08:22 (28)	18:37	48	09:32 (29)	16:24	15:51
15	05:00	05:59	07:03		07:58 (28)	08:05		08:36 (30)	08:14	09:07
	22:19	21:17	19:55	25	08:23 (28)	18:34	45	09:33 (29)	16:23	15:51
16	05:01	06:01	07:05		07:56 (28)	08:08		08:38 (30)	08:16	09:08
	22:18	21:15	19:53	27	08:23 (28)	18:31	40	09:32 (29)	16:21	15:51
17	05:03	06:03	07:07		07:56 (28)	08:10		08:59 (29)	08:19	09:08
	22:17	21:13	19:50	27	08:23 (28)	18:29	32	09:31 (29)	16:19	15:51
18	05:05	06:05	07:09		07:55 (28)	08:12		08:59 (29)	08:21	09:09
	22:15	21:10	19:47	28	08:23 (28)	18:26	32	09:31 (29)	16:17	15:52
19	05:06	06:07	07:11		07:55 (28)	08:14		09:00 (29)	08:23	09:10
	22:13	21:08	19:44	28	08:23 (28)	18:24	31	09:31 (29)	16:16	15:52
20	05:08	06:09	07:13		07:54 (28)	08:16		09:00 (29)	08:25	09:11
	22:12	21:05	19:42	28	08:22 (28)	18:21	30	09:30 (29)	16:14	15:52
21	05:10	06:11	07:15		07:54 (28)	08:19		09:02 (29)	08:27	09:11
	22:10	21:02	19:39	27	08:21 (28)	18:19	27	09:29 (29)	16:12	15:52
22	05:11	06:13	07:17		07:54 (28)	08:21		09:02 (29)	08:29	09:12
	22:09	21:00	19:36	27	08:21 (28)	18:16	26	09:28 (29)	16:11	15:53
23	05:13	06:15	07:19		07:55 (28)	08:23		09:03 (29)	08:31	09:12
	22:07	20:57	19:33	24	08:19 (28)	18:13	23	09:26 (29)	16:09	15:53
24	05:15	06:17	07:21		07:55 (28)	08:25		09:05 (29)	08:33	09:13
	22:05	20:55	19:31	23	08:18 (28)	18:11	20	09:25 (29)	16:08	15:54
25	05:17	06:20	07:23		07:56 (28)	07:27		08:06 (29)	08:35	09:13
	22:03	20:52	19:28	20	08:16 (28)	17:09	17	08:23 (29)	16:06	15:55
26	05:19	06:22	07:25		07:57 (28)	07:30		08:09 (29)	08:37	09:13
	22:01	20:49	19:25	17	08:14 (28)	17:06	10	08:19 (29)	16:05	15:55
27	05:21	06:24	07:27		07:59 (28)	07:32			08:39	09:14
	21:59	20:47	19:22	12	08:11 (28)	17:04			16:04	15:56
28	05:23	06:26	07:30			07:34			08:41	09:14
	21:58	20:44	19:20			17:01			16:02	15:57
29	05:24	06:28	07:32			07:36			08:43	09:14
	21:56	20:42	19:17			16:59			16:01	15:58
30	05:26	06:30	07:34			07:39			08:45	09:14
	21:54	20:39	19:14			16:57			16:00	15:59
31	05:28	06:32				07:41				09:14
	21:52	20:36				16:54				16:00
Potential sun hours	534	472	385			322		244	212	
Total, worst case				393			803			
Sun reduction				0.50			0.42			
Oper. time red.				0.94			0.94			
Wind dir. red.				0.62			0.60			
Total reduction				0.29			0.24			
Total, real				114			191			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GJ - Rozes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:14	08:36		07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36		07:43	08:22 (41)	08:47
	16:01	17:00		18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11		16:52	20 08:42 (41)	15:59
2	09:14	08:34		07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38		07:45	08:22 (41)	08:49
	16:03	17:03		18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09		16:49	20 08:42 (41)	15:58
3	09:13	08:32	09:03 (41)	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:22 (41)	08:50
	16:04	17:05	4 09:07 (41)	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06		16:47	20 08:42 (41)	15:57
4	09:13	08:30	09:01 (41)	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42		07:50	08:24 (41)	08:52
	16:05	17:07	8 09:09 (41)	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	18 08:42 (41)	15:56
5	09:12	08:28	08:58 (41)	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44		07:52	08:26 (41)	08:54
	16:07	17:09	12 09:10 (41)	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00		16:43	15 08:41 (41)	15:55
6	09:12	08:26	08:56 (41)	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46		07:54	08:29 (41)	08:55
	16:08	17:12	15 09:11 (41)	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58		16:40	11 08:40 (41)	15:54
7	09:11	08:24	08:54 (41)	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48		07:57	08:31 (41)	08:57
	16:10	17:14	18 09:12 (41)	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55		16:38	8 08:39 (41)	15:54
8	09:10	08:21	08:52 (41)	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59	08:34 (41)	08:58
	16:11	17:16	20 09:12 (41)	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52		16:36	4 08:38 (41)	15:53
9	09:10	08:19	08:53 (41)	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53		08:01		09:00
	16:13	17:19	20 09:13 (41)	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50		16:34		15:53
10	09:09	08:17	08:52 (41)	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55		08:03		09:01
	16:15	17:21	20 09:12 (41)	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47		16:32		15:52
11	09:08	08:15	08:53 (41)	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57		08:06		09:02
	16:16	17:23	20 09:13 (41)	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44		16:30		15:52
12	09:07	08:12	08:53 (41)	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59		08:08		09:04
	16:18	17:26	19 09:12 (41)	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42		16:28		15:51
13	09:06	08:10	08:54 (41)	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01		08:10		09:05
	16:20	17:28	18 09:12 (41)	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39		16:26		15:51
14	09:05	08:08	08:54 (41)	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03		08:12		09:06
	16:22	17:30	17 09:11 (41)	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36		16:24		15:51
15	09:04	08:05	08:56 (41)	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06		08:14		09:07
	16:24	17:33	14 09:10 (41)	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34		16:22		15:51
16	09:02	08:03	08:57 (41)	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08		08:17		09:08
	16:26	17:35	11 09:08 (41)	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31		16:20		15:51
17	09:01	08:00	09:01 (41)	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10		08:19		09:09
	16:28	17:37	4 09:05 (41)	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29		16:19		15:51
18	09:00	07:58		06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12		08:21		09:10
	16:30	17:40		18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26		16:17		15:51
19	08:58	07:56		06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14		08:23		09:10
	16:32	17:42		18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23		16:15		15:51
20	08:57	07:53		06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16		08:25		09:11
	16:34	17:44		18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21		16:14		15:52
21	08:55	07:51		06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19		08:27		09:12
	16:36	17:46		18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18		16:12		15:52
22	08:54	07:48		06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21		08:29		09:12
	16:38	17:49		18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16		16:10		15:52
23	08:52	07:46		06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23		08:31		09:13
	16:40	17:51		18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13		16:09		15:53
24	08:51	07:43		06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25		08:33		09:13
	16:42	17:53		18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11		16:07		15:54
25	08:49	07:40		06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:28	08:29 (41)	08:35		09:14
	16:45	17:56		18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	6 08:35 (41)	16:06		15:54
26	08:47	07:38		06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:27 (41)	08:37		09:14
	16:47	17:58		18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	12 08:39 (41)	16:05		15:55
27	08:45	07:35		06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:25 (41)	08:39		09:14
	16:49	18:00		19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	15 08:40 (41)	16:03		15:56
28	08:44	07:33		06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:24 (41)	08:41		09:14
	16:51	18:02		19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	17 08:41 (41)	16:02		15:57
29	08:42			07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:23 (41)	08:43		09:14
	16:53			20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	19 08:42 (41)	16:01		15:58
30	08:40			07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:22 (41)	08:45		09:14
	16:56			20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	20 08:42 (41)	16:00		15:59
31	08:38			07:09		04:50		05:28	06:32		07:41	08:22 (41)			09:14
	16:58			20:10		22:14		21:52	20:36		16:54	20 08:42 (41)			16:00
Potential sun hours	231	264		366	428	512	534	534	472	385	322		244		211
Total, worst case			220									109		116	
Sun reduction			0.33									0.42		0.23	
Oper. time red.			0.94									0.94		0.94	
Wind dir. red.			0.59									0.59		0.59	
Total reduction			0.18									0.23		0.13	
Total, real			41									26		15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GK - Ro ž kalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:14		11:48 (43)	08:36	09:13 (7)	07:30	07:06	05:48	04:49
	16:01	83	13:39 (42)	17:00	21	09:34 (7)	18:04	20:12	21:16	22:16
2	09:13		11:48 (43)	08:34		09:12 (7)	07:27	07:03	05:45	04:47
	16:02	82	13:38 (42)	17:02	22	09:34 (7)	18:07	20:14	21:19	22:17
3	09:13		11:49 (43)	08:32		09:12 (7)	07:25	07:00	05:43	04:46
	16:04	81	13:39 (42)	17:05	23	09:35 (7)	18:09	20:16	21:21	22:19
4	09:13		11:49 (43)	08:30		09:12 (7)	07:22	06:58	05:40	04:45
	16:05	79	13:38 (42)	17:07	24	09:36 (7)	18:11	20:18	21:23	22:20
5	09:12		11:49 (43)	08:28		09:08 (1)	07:19	06:55	05:38	04:44
	16:07	78	13:38 (42)	17:09	27	09:35 (7)	18:13	20:20	21:25	22:21
6	09:12		11:49 (43)	08:26		09:05 (1)	07:17	06:52	05:36	04:43
	16:08	75	13:37 (42)	17:12	31	09:36 (7)	18:16	20:23	21:27	22:23
7	09:11		11:50 (43)	08:23		09:03 (1)	07:14	06:50	05:34	04:42
	16:10	72	13:36 (42)	17:14	33	09:36 (7)	18:18	20:25	21:29	22:24
8	09:10		11:50 (43)	08:21		09:01 (1)	07:11	06:47	05:31	04:42
	16:11	68	13:35 (42)	17:16	34	09:35 (7)	18:20	20:27	21:31	22:25
9	09:10		11:51 (43)	08:19		09:00 (1)	07:09	06:44	05:29	04:41
	16:13	59	12:50 (2)	17:19	35	09:35 (7)	18:22	20:29	21:33	22:26
10	09:09		11:52 (43)	08:17		08:58 (1)	07:06	06:41	05:27	04:40
	16:14	58	12:50 (2)	17:21	36	09:34 (7)	18:24	20:31	21:35	22:27
11	09:08		11:53 (43)	08:14		08:58 (1)	07:03	06:39	05:25	04:40
	16:16	57	12:50 (2)	17:23	36	09:34 (7)	18:27	20:33	21:38	22:28
12	09:07		11:54 (43)	08:12		08:57 (1)	07:01	06:36	05:23	04:39
	16:18	54	12:49 (2)	17:26	35	09:32 (7)	18:29	20:36	21:40	22:29
13	09:06		11:54 (43)	08:10		08:57 (1)	06:58	06:33	05:21	04:39
	16:20	50	12:47 (2)	17:28	34	09:31 (7)	18:31	20:38	21:42	22:30
14	09:05		11:55 (43)	08:07		08:56 (1)	06:55	06:31	05:19	04:38
	16:22	42	12:44 (2)	17:30	32	09:28 (7)	18:33	20:40	21:44	22:30
15	09:03		11:55 (43)	08:05		08:56 (1)	06:53	06:28	05:17	04:38
	16:24	38	12:33 (43)	17:32	32	09:28 (1)	18:35	20:42	21:46	22:31
16	09:02		11:56 (43)	08:03		08:55 (1)	06:50	06:25	05:15	04:38
	16:26	38	12:34 (43)	17:35	33	09:28 (1)	18:37	20:44	21:48	22:32
17	09:01		11:57 (43)	08:00		08:56 (1)	06:47	06:23	05:13	04:37
	16:28	36	12:33 (43)	17:37	33	09:29 (1)	18:40	20:46	21:50	22:32
18	09:00		11:57 (43)	07:58		08:56 (1)	06:44	06:20	05:11	04:37
	16:30	36	12:33 (43)	17:39	32	09:28 (1)	18:42	20:48	21:52	22:33
19	08:58		11:59 (43)	07:55		08:55 (1)	06:42	06:18	05:09	04:37
	16:32	34	12:33 (43)	17:42	32	09:27 (1)	18:44	20:51	21:53	22:33
20	08:57		12:00 (43)	07:53		08:56 (1)	06:39	06:15	05:07	04:37
	16:34	32	12:32 (43)	17:44	32	09:28 (1)	18:46	20:53	21:55	22:34
21	08:55		12:01 (43)	07:50		08:56 (1)	06:36	06:12	05:05	04:37
	16:36	31	12:32 (43)	17:46	31	09:27 (1)	18:48	20:55	21:57	22:34
22	08:54		12:02 (43)	07:48		08:57 (1)	06:33	06:10	05:03	04:38
	16:38	29	12:31 (43)	17:49	29	09:26 (1)	18:50	20:57	21:59	22:34
23	08:52		12:03 (43)	07:45		08:58 (1)	06:31	06:07	05:02	04:38
	16:40	27	12:30 (43)	17:51	27	09:25 (1)	18:53	20:59	22:01	22:34
24	08:51		12:05 (43)	07:43		08:59 (1)	06:28	06:05	05:00	04:38
	16:42	24	12:29 (43)	17:53	24	09:23 (1)	18:55	21:01	22:03	22:34
25	08:49		12:07 (43)	07:40		09:01 (1)	06:25	06:02	04:58	04:39
	16:44	20	12:27 (43)	17:55	21	09:22 (1)	18:57	21:04	22:05	22:34
26	08:47		12:09 (43)	07:38		09:02 (1)	06:22	06:00	04:57	04:39
	16:47	16	12:25 (43)	17:58	18	09:20 (1)	18:59	21:06	22:06	22:34
27	08:45		09:18 (7)	07:35		09:04 (1)	06:20	05:57	04:55	04:39
	16:49	17	12:22 (43)	18:00	12	09:16 (1)	19:01	21:08	22:08	22:34
28	08:44		09:16 (7)	07:33			06:17	05:55	04:54	04:40
	16:51	12	09:28 (7)	18:02			19:03	21:10	22:10	22:34
29	08:42		09:14 (7)				07:14	05:52	04:53	04:41
	16:53	16	09:30 (7)				20:05	21:12	22:11	22:34
30	08:40		09:14 (7)				07:11	05:50	04:51	04:41
	16:56	18	09:32 (7)				20:08	21:14	22:13	22:33
31	08:38		09:13 (7)				07:09		04:50	
	16:58	20	09:33 (7)				20:10		22:14	
Potential sun hours	231			264		366	428	512	534	
Total, worst case		1382			779					
Sun reduction		0.28			0.33					
Oper. time red.		0.94			0.94					
Wind dir. red.		0.64			0.58					
Total reduction		0.17			0.18					
Total, real		230			143					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GK - Ro ž kalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December		
1	04:42	05:30	06:34	07:36		07:43		08:28 (1)	08:47	11:35 (43)
	22:33	21:50	20:34	19:11		16:52	36	09:04 (7)	15:59	57 12:32 (2)
2	04:43	05:32	06:36	07:38		07:45		08:30 (1)	08:48	11:35 (43)
	22:32	21:48	20:31	19:08		16:49	35	09:05 (7)	15:58	58 12:33 (2)
3	04:44	05:34	06:38	07:40		07:48		08:31 (1)	08:50	11:35 (43)
	22:32	21:45	20:28	19:06		16:47	34	09:05 (7)	15:57	60 12:35 (2)
4	04:45	05:36	06:40	07:42		07:50		08:33 (1)	08:52	11:36 (43)
	22:31	21:43	20:25	19:03		16:45	33	09:06 (7)	15:56	67 13:20 (42)
5	04:46	05:38	06:42	07:44		07:52		08:35 (1)	08:54	11:35 (43)
	22:30	21:41	20:23	19:00		16:42	30	09:05 (7)	15:55	71 13:21 (42)
6	04:47	05:40	06:44	07:46		07:54		08:40 (1)	08:55	11:36 (43)
	22:30	21:39	20:20	18:58		16:40	26	09:06 (7)	15:54	74 13:23 (42)
7	04:48	05:42	06:46	07:48		07:57		08:42 (7)	08:57	11:36 (43)
	22:29	21:37	20:17	18:55		16:38	23	09:05 (7)	15:53	77 13:25 (42)
8	04:49	05:44	06:48	07:50		07:59		08:42 (7)	08:58	11:37 (43)
	22:28	21:34	20:15	18:52		16:36	24	09:06 (7)	15:53	78 13:26 (42)
9	04:51	05:46	06:50	07:53		08:01		08:42 (7)	09:00	11:37 (43)
	22:27	21:32	20:12	18:50		16:34	23	09:05 (7)	15:52	81 13:27 (42)
10	04:52	05:48	06:52	07:55		08:03		08:44 (7)	09:01	11:38 (43)
	22:26	21:30	20:09	18:47		16:32	21	09:05 (7)	15:52	82 13:28 (42)
11	04:53	05:50	06:54	07:57		08:05		08:44 (7)	09:02	11:38 (43)
	22:25	21:27	20:06	18:44		16:30	20	09:04 (7)	15:52	83 13:29 (42)
12	04:55	05:52	06:56	07:59		08:08		08:45 (7)	09:03	11:38 (43)
	22:23	21:25	20:04	18:42		16:28	19	09:04 (7)	15:51	83 13:29 (42)
13	04:56	05:54	06:58	08:01		08:10		08:46 (7)	09:05	11:39 (43)
	22:22	21:22	20:01	18:39		16:26	16	09:02 (7)	15:51	86 13:31 (42)
14	04:58	05:56	07:01	08:03	09:40 (1)	08:12		08:49 (7)	09:06	11:39 (43)
	22:21	21:20	19:58	18:36	5 09:45 (1)	16:24	12	09:01 (7)	15:51	86 13:31 (42)
15	04:59	05:58	07:03	08:05	09:36 (1)	08:14		08:51 (7)	09:07	11:39 (43)
	22:20	21:18	19:55	18:34	15 09:51 (1)	16:22	17	11:55 (43)	15:51	88 13:32 (42)
16	05:01	06:00	07:05	08:08	09:33 (1)	08:17		11:43 (43)	09:08	11:40 (43)
	22:18	21:15	19:53	18:31	20 09:53 (1)	16:20	16	11:59 (43)	15:51	86 13:32 (42)
17	05:02	06:03	07:07	08:10	09:31 (1)	08:19		11:40 (43)	09:09	11:40 (43)
	22:17	21:13	19:50	18:28	23 09:54 (1)	16:18	21	12:01 (43)	15:51	88 13:33 (42)
18	05:04	06:05	07:09	08:12	09:30 (1)	08:21		11:39 (43)	09:10	11:41 (43)
	22:15	21:10	19:47	18:26	26 09:56 (1)	16:17	24	12:03 (43)	15:51	88 13:34 (42)
19	05:06	06:07	07:11	08:14	09:29 (1)	08:23		11:38 (43)	09:10	11:42 (43)
	22:14	21:08	19:44	18:23	27 09:56 (1)	16:15	27	12:05 (43)	15:51	88 13:35 (42)
20	05:07	06:09	07:13	08:16	09:27 (1)	08:25		11:37 (43)	09:11	11:42 (43)
	22:12	21:05	19:41	18:21	30 09:57 (1)	16:13	29	12:06 (43)	15:51	87 13:34 (42)
21	05:09	06:11	07:15	08:19	09:27 (1)	08:27		11:37 (43)	09:12	11:42 (43)
	22:10	21:02	19:39	18:18	31 09:58 (1)	16:12	31	12:08 (43)	15:52	88 13:35 (42)
22	05:11	06:13	07:17	08:21	09:26 (1)	08:29		11:36 (43)	09:12	11:42 (43)
	22:09	21:00	19:36	18:16	32 09:58 (1)	16:10	32	12:08 (43)	15:52	88 13:35 (42)
23	05:13	06:15	07:19	08:23	09:26 (1)	08:31		11:35 (43)	09:13	11:43 (43)
	22:07	20:57	19:33	18:13	32 09:58 (1)	16:09	34	12:09 (43)	15:53	88 13:36 (42)
24	05:15	06:17	07:21	08:25	09:26 (1)	08:33		11:35 (43)	09:13	11:44 (43)
	22:05	20:55	19:30	18:11	32 09:58 (1)	16:07	36	12:11 (43)	15:53	88 13:37 (42)
25	05:16	06:19	07:23	07:27	08:25 (1)	08:35		11:35 (43)	09:14	11:44 (43)
	22:03	20:52	19:28	17:08	33 08:58 (1)	16:06	36	12:11 (43)	15:54	88 13:37 (42)
26	05:18	06:21	07:25	07:30	08:26 (1)	08:37		11:34 (43)	09:14	11:44 (43)
	22:02	20:50	19:25	17:06	32 08:58 (1)	16:04	38	12:12 (43)	15:55	88 13:37 (42)
27	05:20	06:23	07:27	07:32	08:26 (1)	08:39		11:34 (43)	09:14	11:45 (43)
	22:00	20:47	19:22	17:03	32 08:58 (1)	16:03	38	12:12 (43)	15:56	87 13:37 (42)
28	05:22	06:25	07:29	07:34	08:25 (1)	08:41		11:35 (43)	09:14	11:45 (43)
	21:58	20:44	19:19	17:01	33 08:58 (7)	16:02	40	12:23 (2)	15:57	88 13:38 (42)
29	05:24	06:28	07:31	07:36	08:26 (1)	08:43		11:35 (43)	09:14	11:46 (43)
	21:56	20:42	19:17	16:59	35 09:01 (7)	16:01	50	12:28 (2)	15:58	86 13:38 (42)
30	05:26	06:30	07:34	07:39	08:26 (1)	08:45		11:35 (43)	09:14	11:47 (43)
	21:54	20:39	19:14	16:56	36 09:02 (7)	16:00	54	12:30 (2)	15:59	86 13:39 (42)
31	05:28	06:32		07:41	08:28 (1)				09:14	11:47 (43)
	21:52	20:36		16:54	36 09:04 (7)				16:00	85 13:39 (42)
Potential sun hours	534	472	385	322		244			211	
Total, worst case					510		875			2528
Sun reduction					0.42		0.23			0.23
Oper. time red.					0.94		0.94			0.94
Wind dir. red.					0.59		0.62			0.65
Total reduction					0.23		0.13			0.14
Total, real					119		116			350

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GL - Ro ž lejas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June
1	09:14	08:36		07:30		07:06	05:48	04:49
	16:01	17:00		18:05		20:12	21:17	22:16
2	09:14	08:34		07:27		07:03	05:45	04:48
	16:03	17:03		18:07		20:14	21:19	22:17
3	09:13	08:32		07:25		07:01	05:43	04:47
	16:04	17:05		18:09		20:16	21:21	22:19
4	09:13	08:30		07:22		06:58	05:41	04:45
	16:05	17:07		18:11		20:18	21:23	22:20
5	09:12	08:28		07:20		06:55	05:38	04:44
	16:07	17:09		18:13		20:21	21:25	22:21
6	09:12	08:26		07:17	07:43 (42)	06:52	05:36	04:44
	16:08	17:12		18:16	4 07:47 (42)	20:23	21:27	22:23
7	09:11	08:23		07:14	07:41 (42)	06:50	05:34	04:43
	16:10	17:14		18:18	10 07:51 (42)	20:25	21:29	22:24
8	09:10	08:21	08:51 (41)	07:12	07:38 (42)	06:47	05:32	04:42
	16:11	17:16	7 08:58 (41)	18:20	14 07:52 (42)	20:27	21:31	22:25
9	09:10	08:19	08:49 (41)	07:09	07:35 (42)	06:44	05:29	04:41
	16:13	17:19	12 09:01 (41)	18:22	18 07:53 (42)	20:29	21:33	22:26
10	09:09	08:17	08:46 (41)	07:06	07:33 (42)	06:42	05:27	04:40
	16:15	17:21	16 09:02 (41)	18:25	20 07:53 (42)	20:31	21:36	22:27
11	09:08	08:15	08:45 (41)	07:03	07:33 (42)	06:39	05:25	04:40
	16:16	17:23	19 09:04 (41)	18:27	21 07:54 (42)	20:34	21:38	22:28
12	09:07	08:12	08:43 (41)	07:01	07:32 (42)	06:36	05:23	04:39
	16:18	17:26	21 09:04 (41)	18:29	22 07:54 (42)	20:36	21:40	22:29
13	09:06	08:10	08:43 (41)	06:58	07:31 (42)	06:34	05:21	04:39
	16:20	17:28	23 09:06 (41)	18:31	23 07:54 (42)	20:38	21:42	22:30
14	09:05	08:08	08:42 (41)	06:55	07:31 (42)	06:31	05:19	04:38
	16:22	17:30	24 09:06 (41)	18:33	22 07:53 (42)	20:40	21:44	22:31
15	09:04	08:05	08:42 (41)	06:53	07:31 (42)	06:28	05:17	04:38
	16:24	17:33	24 09:06 (41)	18:35	21 07:52 (42)	20:42	21:46	22:31
16	09:02	08:03	08:42 (41)	06:50	07:32 (42)	06:26	05:15	04:38
	16:26	17:35	24 09:06 (41)	18:38	20 07:52 (42)	20:44	21:48	22:32
17	09:01	08:00	08:42 (41)	06:47	07:32 (42)	06:23	05:13	04:38
	16:28	17:37	25 09:07 (41)	18:40	19 07:51 (42)	20:46	21:50	22:32
18	09:00	07:58	08:42 (41)	06:44	07:33 (42)	06:20	05:11	04:38
	16:30	17:40	24 09:06 (41)	18:42	16 07:49 (42)	20:49	21:52	22:33
19	08:58	07:56	08:43 (41)	06:42	07:35 (42)	06:18	05:09	04:37
	16:32	17:42	23 09:06 (41)	18:44	11 07:46 (42)	20:51	21:54	22:33
20	08:57	07:53	08:43 (41)	06:39		06:15	05:07	04:38
	16:34	17:44	22 09:05 (41)	18:46		20:53	21:55	22:34
21	08:55	07:51	08:43 (41)	06:36		06:13	05:05	04:38
	16:36	17:46	21 09:04 (41)	18:48		20:55	21:57	22:34
22	08:54	07:48	08:45 (41)	06:33		06:10	05:04	04:38
	16:38	17:49	18 09:03 (41)	18:51		20:57	21:59	22:34
23	08:52	07:46	08:46 (41)	06:31		06:08	05:02	04:38
	16:40	17:51	15 09:01 (41)	18:53		20:59	22:01	22:34
24	08:51	07:43	08:48 (41)	06:28		06:05	05:00	04:38
	16:42	17:53	10 08:58 (41)	18:55		21:02	22:03	22:34
25	08:49	07:40		06:25		06:02	04:59	04:39
	16:45	17:56		18:57		21:04	22:05	22:34
26	08:47	07:38		06:23		06:00	04:57	04:39
	16:47	17:58		18:59		21:06	22:06	22:34
27	08:45	07:35		06:20		05:58	04:56	04:40
	16:49	18:00		19:01		21:08	22:08	22:34
28	08:44	07:33		06:17		05:55	04:54	04:40
	16:51	18:02		19:03		21:10	22:10	22:34
29	08:42			07:14		05:53	04:53	04:41
	16:53			20:06		21:12	22:11	22:34
30	08:40			07:12		05:50	04:51	04:42
	16:56			20:08		21:14	22:13	22:33
31	08:38			07:09			04:50	
	16:58			20:10			22:14	
Potential sun hours	231	264		366		428	512	534
Total, worst case			328		241			
Sun reduction			0.33		0.46			
Oper. time red.			0.94		0.94			
Wind dir. red.			0.59		0.60			
Total reduction			0.19		0.26			
Total, real			61		62			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GL - Ro ž lejas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December
1	04:42	05:30	06:34		07:36		08:11 (42)	07:43	08:16 (41)	08:47
	22:33	21:50	20:34		19:11	22	08:33 (42)	16:52	15	08:31 (41)	15:59
2	04:43	05:32	06:36		07:38		08:11 (42)	07:45	08:19 (41)	08:49
	22:32	21:48	20:31		19:09	22	08:33 (42)	16:49	11	08:30 (41)	15:58
3	04:44	05:34	06:38		07:40		08:11 (42)	07:48	08:21 (41)	08:50
	22:32	21:45	20:28		19:06	21	08:32 (42)	16:47	6	08:27 (41)	15:57
4	04:45	05:36	06:40		07:42		08:11 (42)	07:50			08:52
	22:31	21:43	20:26		19:03	20	08:31 (42)	16:45			15:56
5	04:46	05:38	06:42		07:44		08:13 (42)	07:52			08:54
	22:30	21:41	20:23		19:00	16	08:29 (42)	16:43			15:55
6	04:47	05:40	06:44		07:46		08:16 (42)	07:54			08:55
	22:30	21:39	20:20		18:58	12	08:28 (42)	16:40			15:54
7	04:48	05:42	06:46		07:48		08:18 (42)	07:57			08:57
	22:29	21:37	20:17		18:55	7	08:25 (42)	16:38			15:54
8	04:50	05:44	06:48		07:51			07:59			08:58
	22:28	21:34	20:15		18:52			16:36			15:53
9	04:51	05:46	06:50		07:53			08:01			09:00
	22:27	21:32	20:12		18:50			16:34			15:53
10	04:52	05:48	06:52		07:55			08:03			09:01
	22:26	21:30	20:09		18:47			16:32			15:52
11	04:54	05:50	06:55		07:57			08:06			09:02
	22:25	21:27	20:06		18:44			16:30			15:52
12	04:55	05:52	06:57		07:59			08:08			09:04
	22:24	21:25	20:04		18:42			16:28			15:51
13	04:56	05:54	06:59		08:01			08:10			09:05
	22:22	21:23	20:01		18:39			16:26			15:51
14	04:58	05:57	07:01		08:03			08:12			09:06
	22:21	21:20	19:58		18:36			16:24			15:51
15	04:59	05:59	07:03		08:06			08:14			09:07
	22:20	21:18	19:55		18:34			16:22			15:51
16	05:01	06:01	07:05		08:08			08:17			09:08
	22:18	21:15	19:53		18:31			16:20			15:51
17	05:03	06:03	07:07		08:10		09:23 (41)	08:19			09:09
	22:17	21:13	19:50		18:29	4	09:27 (41)	16:19			15:51
18	05:04	06:05	07:09		08:12		09:19 (41)	08:21			09:10
	22:15	21:10	19:47		18:26	12	09:31 (41)	16:17			15:51
19	05:06	06:07	07:11		08:14		09:17 (41)	08:23			09:10
	22:14	21:08	19:44		18:23	16	09:33 (41)	16:15			15:51
20	05:08	06:09	07:13		08:16		09:15 (41)	08:25			09:11
	22:12	21:05	19:42		18:21	19	09:34 (41)	16:14			15:52
21	05:09	06:11	07:15		08:19		09:14 (41)	08:27			09:12
	22:11	21:03	19:39		18:18	21	09:35 (41)	16:12			15:52
22	05:11	06:13	07:17		08:21		09:13 (41)	08:29			09:12
	22:09	21:00	19:36		18:16	23	09:36 (41)	16:10			15:52
23	05:13	06:15	07:19		08:23		09:12 (41)	08:31			09:13
	22:07	20:57	19:33		18:13	24	09:36 (41)	16:09			15:53
24	05:15	06:17	07:21	08:20 (42)	08:25		09:12 (41)	08:33			09:13
	22:05	20:55	19:31	9 08:29 (42)	18:11	24	09:36 (41)	16:07			15:54
25	05:17	06:19	07:23	08:17 (42)	07:28		08:12 (41)	08:35			09:14
	22:04	20:52	19:28	14 08:31 (42)	17:08	24	08:36 (41)	16:06			15:54
26	05:18	06:21	07:25	08:15 (42)	07:30		08:12 (41)	08:37			09:14
	22:02	20:50	19:25	17 08:32 (42)	17:06	25	08:37 (41)	16:05			15:55
27	05:20	06:24	07:27	08:13 (42)	07:32		08:12 (41)	08:39			09:14
	22:00	20:47	19:22	20 08:33 (42)	17:03	24	08:36 (41)	16:03			15:56
28	05:22	06:26	07:30	08:13 (42)	07:34		08:12 (41)	08:41			09:14
	21:58	20:44	19:20	21 08:34 (42)	17:01	23	08:35 (41)	16:02			15:57
29	05:24	06:28	07:32	08:12 (42)	07:36		08:13 (41)	08:43			09:14
	21:56	20:42	19:17	22 08:34 (42)	16:59	22	08:35 (41)	16:01			15:58
30	05:26	06:30	07:34	08:11 (42)	07:39		08:13 (41)	08:45			09:14
	21:54	20:39	19:14	23 08:34 (42)	16:56	21	08:34 (41)	16:00			15:59
31	05:28	06:32			07:41		08:14 (41)				09:14
	21:52	20:36			16:54	19	08:33 (41)				16:00
Potential sun hours	534	472	385		322			244			211
Total, worst case				126		421			32		
Sun reduction				0.50		0.42			0.23		
Oper. time red.				0.94		0.94			0.94		
Wind dir. red.				0.60		0.59			0.59		
Total reduction				0.28		0.24			0.13		
Total, real				35		100			4		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GM - Rubini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April			May	June	July	August	September			October			November	December
1	09:14	08:36	07:30			07:06		07:39 (42)	05:48	04:49	04:43	05:30	06:34			07:36		08:23 (41)	07:43	08:47
	16:01	17:00	18:05			20:12	21	08:00 (42)	21:17	22:16	22:33	21:50	20:34			19:11	23	08:46 (41)	16:52	15:59
2	09:14	08:34	07:27		07:55 (41)	07:03		07:38 (42)	05:45	04:48	04:43	05:32	06:36			07:38		08:22 (41)	07:45	08:49
	16:03	17:03	18:07	4	07:59 (41)	20:14	21	07:59 (42)	21:19	22:17	22:32	21:48	20:31			19:09	24	08:46 (41)	16:49	15:58
3	09:13	08:32	07:25		07:52 (41)	07:01		07:38 (42)	05:43	04:47	04:44	05:34	06:38			07:40		08:21 (41)	07:48	08:50
	16:04	17:05	18:09	12	08:04 (41)	20:16	20	07:58 (42)	21:21	22:19	22:32	21:45	20:28			19:06	25	08:46 (41)	16:47	15:57
4	09:13	08:30	07:22		07:49 (41)	06:58		07:39 (42)	05:41	04:46	04:45	05:36	06:40			07:42		08:21 (41)	07:50	08:52
	16:05	17:07	18:11	17	08:06 (41)	20:18	19	07:58 (42)	21:23	22:20	22:31	21:43	20:26			19:03	24	08:45 (41)	16:45	15:56
5	09:12	08:28	07:20		07:47 (41)	06:55		07:40 (42)	05:38	04:45	04:46	05:38	06:42		07:40 (42)	07:44		08:20 (41)	07:52	08:54
	16:07	17:10	18:13	20	08:07 (41)	20:21	16	07:56 (42)	21:25	22:21	22:30	21:41	20:23	7	07:47 (42)	19:00	25	08:45 (41)	16:43	15:55
6	09:12	08:26	07:17		07:46 (41)	06:52		07:41 (42)	05:36	04:44	04:47	05:40	06:44		07:37 (42)	07:46		08:21 (41)	07:54	08:55
	16:08	17:12	18:16	21	08:07 (41)	20:23	12	07:53 (42)	21:27	22:23	22:30	21:39	20:20	12	07:49 (42)	18:58	24	08:45 (41)	16:41	15:54
7	09:11	08:23	07:14		07:45 (41)	06:50		07:44 (42)	05:34	04:43	04:49	05:42	06:46		07:35 (42)	07:48		08:21 (41)	07:57	08:57
	16:10	17:14	18:18	23	08:08 (41)	20:25	7	07:51 (42)	21:29	22:24	22:29	21:37	20:17	16	07:51 (42)	18:55	23	08:44 (41)	16:38	15:54
8	09:10	08:21	07:12		07:44 (41)	06:47			05:32	04:42	04:50	05:44	06:48		07:34 (42)	07:51		08:22 (41)	07:59	08:58
	16:11	17:16	18:20	24	08:08 (41)	20:27			21:31	22:25	22:28	21:34	20:15	18	07:52 (42)	18:52	21	08:43 (41)	16:36	15:53
9	09:10	08:19	07:09		07:44 (41)	06:44			05:29	04:41	04:51	05:46	06:50		07:32 (42)	07:53		08:22 (41)	08:01	09:00
	16:13	17:19	18:22	24	08:08 (41)	20:29			21:33	22:26	22:27	21:32	20:12	20	07:52 (42)	18:50	19	08:41 (41)	16:34	15:53
10	09:09	08:17	07:06		07:43 (41)	06:42			05:27	04:40	04:52	05:48	06:52		07:32 (42)	07:55		08:24 (41)	08:03	09:01
	16:15	17:21	18:25	25	08:08 (41)	20:31			21:36	22:27	22:26	21:30	20:09	20	07:52 (42)	18:47	15	08:39 (41)	16:32	15:52
11	09:08	08:15	07:03		07:44 (41)	06:39			05:25	04:40	04:54	05:50	06:55		07:31 (42)	07:57		08:27 (41)	08:06	09:02
	16:16	17:23	18:27	24	08:08 (41)	20:34			21:38	22:28	22:25	21:27	20:06	21	07:52 (42)	18:44	10	08:37 (41)	16:30	15:52
12	09:07	08:12	07:01		07:44 (41)	06:36			05:23	04:39	04:55	05:52	06:57		07:31 (42)	07:59			08:08	09:04
	16:18	17:26	18:29	23	08:07 (41)	20:36			21:40	22:29	22:24	21:25	20:04	21	07:52 (42)	18:42			16:28	15:51
13	09:06	08:10	06:58		07:44 (41)	06:34			05:21	04:39	04:56	05:54	06:59		07:30 (42)	08:01			08:10	09:05
	16:20	17:28	18:31	22	08:06 (41)	20:38			21:42	22:30	22:22	21:23	20:01	21	07:51 (42)	18:39			16:26	15:51
14	09:05	08:08	06:55		07:44 (41)	06:31			05:19	04:38	04:58	05:57	07:01		07:30 (42)	08:03			08:12	09:06
	16:22	17:30	18:33	21	08:05 (41)	20:40			21:44	22:31	22:21	21:20	19:58	20	07:50 (42)	18:36			16:24	15:51
15	09:04	08:05	06:53		07:45 (41)	06:28			05:17	04:38	04:59	05:59	07:03		07:32 (42)	08:06			08:14	09:07
	16:24	17:33	18:35	18	08:03 (41)	20:42			21:46	22:31	22:20	21:18	19:55	17	07:49 (42)	18:34			16:22	15:51
16	09:02	08:03	06:50		07:47 (41)	06:26			05:15	04:38	05:01	06:01	07:05		07:34 (42)	08:08			08:17	09:08
	16:26	17:35	18:38	15	08:02 (41)	20:44			21:48	22:32	22:18	21:15	19:53	14	07:48 (42)	18:31			16:20	15:51
17	09:01	08:00	06:47		07:49 (41)	06:23			05:13	04:38	05:03	06:03	07:07		07:36 (42)	08:10			08:19	09:09
	16:28	17:37	18:40	10	07:59 (41)	20:46			21:50	22:32	22:17	21:13	19:50	10	07:46 (42)	18:29			16:19	15:51
18	09:00	07:58	06:44			06:20			05:11	04:38	05:04	06:05	07:09		07:38 (42)	08:12			08:21	09:10
	16:30	17:40	18:42			20:49			21:52	22:33	22:15	21:10	19:47	5	07:43 (42)	18:26			16:17	15:51
19	08:58	07:56	06:42			06:18			05:09	04:38	05:06	06:07	07:11			08:14			08:23	09:10
	16:32	17:42	18:44			20:51			21:54	22:33	22:14	21:08	19:44			18:23			16:15	15:51
20	08:57	07:53	06:39			06:15			05:07	04:38	05:08	06:09	07:13			08:16			08:25	09:11
	16:34	17:44	18:46			20:53			21:55	22:34	22:12	21:05	19:42			18:21			16:14	15:52
21	08:55	07:51	06:36			06:13			05:05	04:38	05:09	06:11	07:15			08:19			08:27	09:12
	16:36	17:46	18:48			20:55			21:57	22:34	22:11	21:03	19:39			18:18			16:12	15:52
22	08:54	07:48	06:33			06:10			05:04	04:38	05:11	06:13	07:17			08:21			08:29	09:12
	16:38	17:49	18:51			20:57			21:59	22:34	22:09	21:00	19:36			18:16			16:10	15:53
23	08:52	07:46	06:31			06:08			05:02	04:38	05:13	06:15	07:19			08:23			08:31	09:13
	16:40	17:51	18:53			20:59			22:01	22:34	22:07	20:57	19:33			18:13			16:09	15:53
24	08:51	07:43	06:28			06:05			05:00	04:38	05:15	06:17	07:21			08:25			08:33	09:13
	16:42	17:53	18:55			21:01			22:03	22:34	22:05	20:55	19:31			18:11			16:07	15:54
25	08:49	07:40	06:25		06:51 (42)	06:03			04:59	04:39	05:17	06:19	07:23			07:28			08:35	09:14
	16:45	17:56	18:57	4	06:55 (42)	21:04			22:05	22:34	22:04	20:52	19:28			17:08			16:06	15:54
26	08:47	07:38	06:23		06:48 (42)	06:00			04:57	04:39	05:18	06:21	07:25		08:32 (41)	07:30			08:37	09:14
	16:47	17:58	18:59	9	06:57 (42)	21:06			22:06	22:34	22:02	20:50	19:25	7	08:39 (41)	17:06			16:05	15:55
27	08:45	07:35	06:20		06:45 (42)	05:58			04:56	04:40	05:20	06:24	07:27		08:28 (41)	07:32			08:39	09:14
	16:49	18:00	19:01	13	06:58 (42)	21:08			22:08	22:34	22:00	20:47	19:22	14	08:42 (41)	17:04			16:03	15:56
28	08:44	07:33	06:17		06:43 (42)	05:55			04:54	04:40	05:22	06:26	07:30		08:27 (41)	07:34			08:41	09:14
	16:51	18:02	19:03	17	07:00 (42)	21:10			22:10	22:34	21:58	20:44	19:20	17	08:44 (41)	17:01			16:02	15:57
29	08:42		07:14		07:40 (42)	05:53			04:53	04:41	05:24	06:28	07:32		08:25 (41)	07:36			08:43	09:14
	16:54		20:06	20	08:00 (42)	21:12			22:11	22:34	21:56	20:42	19:17	20	08:45 (41)	16:59			16:01	15:58
30	08:40		07:12		07:39 (42)	05:50			04:51	04:42	05:26	06:30	07:34		08:24 (41)	07:39			08:45	09:14
	16:56		20:08	21	08:00 (42)	21:14			22:13	22:33	21:54	20:39	19:14	22	08:46 (41)	16:56			16:00	15:59
31	08:38		07:09		07:38 (42)				04:50		05:28	06:32				07:41				09:14
	16:58		20:10	21	07:59 (42)				22:14		21:52	20:36				16:54				16:00
Potential sun hours	231	264	366			428			512	534	534	472	385			322			244	211
Total, worst case				408			116							302			233			
Sun reduction				0.46			0.55							0.50			0.42			
Oper. time red.				0.94			0.94							0.94			0.94			
Wind dir. red.				0.61			0.64							0.63			0.59			
Total reduction				0.26			0.33							0.29			0.24			
Total, real				106			38							88			55			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GN - Rudevici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:14			08:36		09:24 (3)	07:30		08:00 (41)	07:06		07:34 (2)	05:48	04:49
	16:01			17:00	24	09:48 (3)	18:05	27	08:27 (4)	20:12	26	08:00 (42)	21:17	22:16
2	09:14			08:34		09:23 (3)	07:27		07:56 (41)	07:03		07:34 (2)	05:45	04:48
	16:03			17:03	24	09:47 (3)	18:07	31	08:27 (4)	20:14	25	07:59 (42)	21:19	22:17
3	09:13			08:32		09:24 (3)	07:25		07:54 (41)	07:01		07:33 (2)	05:43	04:47
	16:04			17:05	23	09:47 (3)	18:09	32	08:26 (4)	20:16	26	07:59 (42)	21:21	22:19
4	09:13			08:30		09:25 (3)	07:22		07:53 (41)	06:58		07:33 (2)	05:41	04:46
	16:05			17:07	22	09:47 (3)	18:11	33	08:26 (4)	20:18	26	07:59 (42)	21:23	22:20
5	09:12			08:28		09:25 (3)	07:20		07:51 (41)	06:55		07:33 (2)	05:38	04:45
	16:07			17:09	21	09:46 (3)	18:13	34	08:25 (4)	20:21	25	07:58 (42)	21:25	22:21
6	09:12			08:26		09:26 (3)	07:17		07:50 (41)	06:52		07:33 (2)	05:36	04:44
	16:08			17:12	20	09:46 (3)	18:16	34	08:24 (4)	20:23	24	07:57 (42)	21:27	22:23
7	09:11			08:23		09:27 (3)	07:14		07:50 (41)	06:50		07:34 (2)	05:34	04:43
	16:10			17:14	19	09:46 (3)	18:18	33	08:23 (4)	20:25	22	07:56 (42)	21:29	22:24
8	09:10			08:21		09:28 (3)	07:12		07:49 (41)	06:47		07:35 (2)	05:32	04:42
	16:11			17:16	16	09:44 (3)	18:20	31	08:20 (4)	20:27	19	07:54 (42)	21:31	22:25
9	09:10			08:19		09:30 (3)	07:09		07:49 (41)	06:44		07:36 (2)	05:29	04:41
	16:13			17:19	12	09:42 (3)	18:22	27	08:16 (41)	20:29	16	07:52 (42)	21:33	22:26
10	09:09			08:17		09:34 (3)	07:06		07:48 (41)	06:42		07:39 (2)	05:27	04:40
	16:15			17:21	4	09:38 (3)	18:25	28	08:16 (41)	20:31	10	07:49 (42)	21:36	22:27
11	09:08			08:15			07:03		07:49 (41)	06:39			05:25	04:40
	16:16			17:23			18:27	27	08:16 (41)	20:34			21:38	22:28
12	09:07			08:12			07:01		07:49 (41)	06:36			05:23	04:39
	16:18			17:26			18:29	26	08:15 (41)	20:36			21:40	22:29
13	09:06			08:10			06:58		07:49 (41)	06:34			05:21	04:39
	16:20			17:28			18:31	25	08:14 (41)	20:38			21:42	22:30
14	09:05			08:08			06:55		07:49 (41)	06:31			05:19	04:38
	16:22			17:30			18:33	24	08:13 (41)	20:40			21:44	22:31
15	09:04			08:05			06:53		07:50 (41)	06:28			05:17	04:38
	16:24			17:33			18:35	21	08:11 (41)	20:42			21:46	22:31
16	09:02			08:03			06:50		07:51 (41)	06:26			05:15	04:38
	16:26			17:35			18:38	19	08:10 (41)	20:44			21:48	22:32
17	09:01			08:00			06:47		07:53 (41)	06:23			05:13	04:38
	16:28			17:37			18:40	15	08:08 (41)	20:46			21:50	22:32
18	09:00			07:58			06:44		07:56 (41)	06:20			05:11	04:38
	16:30			17:40			18:42	7	08:03 (41)	20:49			21:52	22:33
19	08:58			07:56			06:42			06:18			05:09	04:38
	16:32			17:42			18:44			20:51			21:54	22:33
20	08:57			07:53			06:39			06:15			05:07	04:38
	16:34			17:44			18:46			20:53			21:55	22:34
21	08:55		09:30 (3)	07:51			06:36			06:13			05:05	04:38
	16:36	6	09:36 (3)	17:46			18:48			20:55			21:57	22:34
22	08:54		09:28 (3)	07:48			06:33			06:10			05:04	04:38
	16:38	11	09:39 (3)	17:49			18:51			20:57			21:59	22:34
23	08:52		09:26 (3)	07:46		08:13 (4)	06:31			06:08			05:02	04:38
	16:40	14	09:40 (3)	17:51	8	08:21 (4)	18:53			20:59			22:01	22:34
24	08:51		09:25 (3)	07:43		08:10 (4)	06:28			06:05			05:00	04:38
	16:42	17	09:42 (3)	17:53	13	08:23 (4)	18:55			21:01			22:03	22:34
25	08:49		09:24 (3)	07:40		08:08 (4)	06:25			06:02			04:59	04:39
	16:45	19	09:43 (3)	17:56	17	08:25 (4)	18:57			21:04			22:05	22:34
26	08:47		09:23 (3)	07:38		08:06 (4)	06:23			06:00			04:57	04:39
	16:47	21	09:44 (3)	17:58	20	08:26 (4)	18:59			21:06			22:06	22:34
27	08:45		09:23 (3)	07:35		08:05 (4)	06:20		06:45 (42)	05:58			04:56	04:40
	16:49	22	09:45 (3)	18:00	21	08:26 (4)	19:01	10	06:55 (42)	21:08			22:08	22:34
28	08:44		09:23 (3)	07:33		08:05 (4)	06:17		06:43 (42)	05:55			04:54	04:40
	16:51	23	09:46 (3)	18:02	22	08:27 (4)	19:03	15	06:58 (42)	21:10			22:10	22:34
29	08:42		09:23 (3)				07:14		07:40 (42)	05:53			04:53	04:41
	16:53	23	09:46 (3)				20:06	18	07:58 (42)	21:12			22:11	22:34
30	08:40		09:23 (3)				07:12		07:37 (2)	05:50			04:51	04:42
	16:56	24	09:47 (3)				20:08	22	07:59 (42)	21:14			22:13	22:33
31	08:38		09:23 (3)				07:09		07:35 (2)				04:50	
	16:58	24	09:47 (3)				20:10	24	07:59 (42)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		204			286			563			219			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.57			0.58			0.60			0.64			
Total reduction		0.15			0.18			0.26			0.33			
Total, real		30			52			146			72			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GN - Rudevici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September			October			November			December	
1	04:42		05:30		06:34			07:36			08:28 (41)	07:43		09:02 (3)	08:47
	22:33		21:50		20:34			19:11	26		08:54 (41)	16:52	7	09:09 (3)	15:59
2	04:43		05:32		06:36		07:37 (2)	07:38			08:27 (41)	07:45		09:00 (3)	08:49
	22:32		21:48		20:31	10	07:47 (42)	19:09	27		08:54 (41)	16:49	12	09:12 (3)	15:58
3	04:44		05:34		06:38		07:34 (2)	07:40			08:26 (41)	07:48		08:57 (3)	08:50
	22:32		21:45		20:28	16	07:50 (42)	19:06	28		08:54 (41)	16:47	17	09:14 (3)	15:57
4	04:45		05:36		06:40		07:32 (2)	07:42			08:26 (41)	07:50		08:57 (3)	08:52
	22:31		21:43		20:26	19	07:51 (42)	19:03	28		08:54 (41)	16:45	18	09:15 (3)	15:56
5	04:46		05:38		06:42		07:30 (2)	07:44			08:25 (41)	07:52		08:55 (3)	08:54
	22:30		21:41		20:23	22	07:52 (42)	19:00	30		08:55 (4)	16:43	21	09:16 (3)	15:55
6	04:47		05:40		06:44		07:29 (2)	07:46			08:26 (41)	07:54		08:55 (3)	08:55
	22:30		21:39		20:20	24	07:53 (42)	18:58	32		08:58 (4)	16:40	22	09:17 (3)	15:54
7	04:49		05:42		06:46		07:28 (2)	07:48			08:26 (41)	07:57		08:54 (3)	08:57
	22:29		21:37		20:17	25	07:53 (42)	18:55	33		08:59 (4)	16:38	23	09:17 (3)	15:54
8	04:50		05:44		06:48		07:27 (2)	07:51			08:26 (41)	07:59		08:55 (3)	08:58
	22:28		21:34		20:15	26	07:53 (42)	18:52	34		09:00 (4)	16:36	23	09:18 (3)	15:53
9	04:51		05:46		06:50		07:27 (2)	07:53			08:27 (41)	08:01		08:54 (3)	09:00
	22:27		21:32		20:12	26	07:53 (42)	18:50	33		09:00 (4)	16:34	24	09:18 (3)	15:53
10	04:52		05:48		06:52		07:27 (2)	07:55			08:27 (41)	08:03		08:54 (3)	09:01
	22:26		21:30		20:09	26	07:53 (42)	18:47	33		09:00 (4)	16:32	25	09:19 (3)	15:52
11	04:54		05:50		06:55		07:27 (2)	07:57			08:30 (41)	08:06		08:54 (3)	09:02
	22:25		21:27		20:06	25	07:52 (42)	18:44	31		09:01 (4)	16:30	24	09:18 (3)	15:52
12	04:55		05:52		06:57		07:27 (2)	07:59			08:31 (41)	08:08		08:55 (3)	09:03
	22:23		21:25		20:04	24	07:51 (42)	18:42	29		09:00 (4)	16:28	24	09:19 (3)	15:51
13	04:56		05:54		06:59		07:28 (2)	08:01			08:37 (4)	08:10		08:55 (3)	09:05
	22:22		21:23		20:01	22	07:50 (42)	18:39	23		09:00 (4)	16:26	23	09:18 (3)	15:51
14	04:58		05:57		07:01		07:30 (42)	08:03			08:37 (4)	08:12		08:56 (3)	09:06
	22:21		21:20		19:58	19	07:49 (42)	18:36	22		08:59 (4)	16:24	22	09:18 (3)	15:51
15	04:59		05:59		07:03		07:32 (42)	08:06			08:38 (4)	08:14		08:56 (3)	09:07
	22:20		21:18		19:55	15	07:47 (42)	18:34	21		08:59 (4)	16:22	22	09:18 (3)	15:51
16	05:01		06:01		07:05		07:34 (42)	08:08			08:39 (4)	08:17		08:57 (3)	09:08
	22:18		21:15		19:53	11	07:45 (42)	18:31	19		08:58 (4)	16:20	21	09:18 (3)	15:51
17	05:03		06:03		07:07		07:36 (42)	08:10			08:40 (4)	08:19		08:58 (3)	09:09
	22:17		21:13		19:50	5	07:41 (42)	18:29	16		08:56 (4)	16:19	19	09:17 (3)	15:51
18	05:04		06:05		07:09			08:12			08:43 (4)	08:21		08:59 (3)	09:10
	22:15		21:10		19:47			18:26	12		08:55 (4)	16:17	17	09:16 (3)	15:51
19	05:06		06:07		07:11			08:14			08:45 (4)	08:23		09:01 (3)	09:10
	22:14		21:08		19:44			18:23	6		08:51 (4)	16:15	14	09:15 (3)	15:51
20	05:08		06:09		07:13			08:16				08:25		09:03 (3)	09:11
	22:12		21:05		19:42			18:21				16:14	11	09:14 (3)	15:52
21	05:09		06:11		07:15			08:19				08:27		09:06 (3)	09:12
	22:11		21:03		19:39			18:18				16:12	6	09:12 (3)	15:52
22	05:11		06:13		07:17			08:21				08:29			09:12
	22:09		21:00		19:36			18:16				16:10			15:52
23	05:13		06:15		07:19			08:23				08:31			09:13
	22:07		20:57		19:33			18:13				16:09			15:53
24	05:15		06:17		07:21			08:25				08:33			09:13
	22:05		20:55		19:31			18:11				16:07			15:54
25	05:17		06:19		07:23			07:27				08:35			09:14
	22:04		20:52		19:28			17:08				16:06			15:54
26	05:18		06:21		07:25		08:36 (41)	07:30				08:37			09:14
	22:02		20:50		19:25	12	08:48 (41)	17:06				16:05			15:55
27	05:20		06:24		07:27		08:33 (41)	07:32				08:39			09:14
	22:00		20:47		19:22	17	08:50 (41)	17:04				16:03			15:56
28	05:22		06:26		07:30		08:32 (41)	07:34				08:41			09:14
	21:58		20:44		19:20	21	08:53 (41)	17:01				16:02			15:57
29	05:24		06:28		07:32		08:30 (41)	07:36				08:43			09:14
	21:56		20:42		19:17	23	08:53 (41)	16:59				16:01			15:58
30	05:26		06:30		07:34		08:29 (41)	07:39				08:45			09:14
	21:54		20:39		19:14	25	08:54 (41)	16:56				16:00			15:59
31	05:28		06:32					07:41							09:14
	21:52		20:36					16:54							16:00
Potential sun hours	534		472		385			322			244			211	
Total, worst case						413			483				395		
Sun reduction						0.50			0.42				0.23		
Oper. time red.						0.94			0.94				0.94		
Wind dir. red.						0.63			0.60				0.57		
Total reduction						0.29			0.24				0.12		
Total, real						121			115				48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GO - Ruki š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September	October		November		December
1	09:14	08:36		09:08 (41)	07:30	07:57 (42)	07:06	05:48	04:49	04:42	05:30	06:34	07:36		07:43	08:26 (41)	08:47
	16:01	17:00	2	09:10 (41)	18:05	18	08:15 (42)	20:12	21:17	22:16	22:33	21:50	20:34	19:11		16:52	21	08:47 (41)	15:59
2	09:14	08:34		09:05 (41)	07:27	07:55 (42)	07:03	05:45	04:48	04:43	05:32	06:36	07:38		07:45	08:26 (41)	08:49
	16:03	17:03	7	09:12 (41)	18:07	19	08:14 (42)	20:14	21:19	22:17	22:32	21:48	20:31	19:09		16:49	21	08:47 (41)	15:58
3	09:13	08:32		09:03 (41)	07:25	07:55 (42)	07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:26 (41)	08:50
	16:04	17:05	11	09:14 (41)	18:09	20	08:15 (42)	20:16	21:21	22:19	22:32	21:46	20:28	19:06		16:47	21	08:47 (41)	15:57
4	09:13	08:30		09:01 (41)	07:22	07:55 (42)	06:58	05:41	04:45	04:45	05:36	06:40	07:42	08:38 (42)	07:50	08:26 (41)	08:52
	16:05	17:07	14	09:15 (41)	18:11	20	08:15 (42)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	5	08:43 (42)	16:45	21	08:47 (41)	15:56
5	09:12	08:28		08:58 (41)	07:20	07:55 (42)	06:55	05:38	04:44	04:46	05:38	06:42	07:44	08:34 (42)	07:52	08:26 (41)	08:54
	16:07	17:09	18	09:16 (41)	18:13	19	08:14 (42)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	12	08:46 (42)	16:43	20	08:46 (41)	15:55
6	09:12	08:26		08:57 (41)	07:17	07:55 (42)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	08:33 (42)	07:54	08:29 (41)	08:55
	16:08	17:12	20	09:17 (41)	18:16	18	08:13 (42)	20:23	21:27	22:23	22:30	21:39	20:20	18:58	15	08:48 (42)	16:40	17	08:46 (41)	15:54
7	09:11	08:24		08:57 (41)	07:14	07:56 (42)	06:50	05:34	04:43	04:48	05:42	06:46	07:48	08:31 (42)	07:57	08:31 (41)	08:57
	16:10	17:14	20	09:17 (41)	18:18	16	08:12 (42)	20:25	21:29	22:24	22:29	21:37	20:17	18:55	18	08:49 (42)	16:38	14	08:45 (41)	15:54
8	09:10	08:21		08:56 (41)	07:12	07:57 (42)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:30 (42)	07:59	08:34 (41)	08:58
	16:11	17:16	21	09:17 (41)	18:20	14	08:11 (42)	20:27	21:31	22:25	22:28	21:34	20:15	18:52	19	08:49 (42)	16:36	10	08:44 (41)	15:53
9	09:10	08:19		08:57 (41)	07:09	07:59 (42)	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:29 (42)	08:01	08:36 (41)	09:00
	16:13	17:19	21	09:18 (41)	18:22	9	08:08 (42)	20:29	21:34	22:26	22:27	21:32	20:12	18:50	20	08:49 (42)	16:34	7	08:43 (41)	15:53
10	09:09	08:17		08:56 (41)	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:29 (42)	08:03	08:39 (41)	09:01
	16:15	17:21	21	09:17 (41)	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47	20	08:49 (42)	16:32	2	08:41 (41)	15:52
11	09:08	08:15		08:57 (41)	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:29 (42)	08:06		09:02
	16:16	17:23	20	09:17 (41)	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44	20	08:49 (42)	16:30			15:52
12	09:07	08:12		08:57 (41)	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:29 (42)	08:08		09:04
	16:18	17:26	19	09:16 (41)	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42	19	08:48 (42)	16:28			15:51
13	09:06	08:10		08:58 (41)	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:31 (42)	08:10		09:05
	16:20	17:28	18	09:16 (41)	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39	16	08:47 (42)	16:26			15:51
14	09:05	08:08		08:59 (41)	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:33 (42)	08:12		09:06
	16:22	17:30	16	09:15 (41)	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36	13	08:46 (42)	16:24			15:51
15	09:04	08:05		09:01 (41)	06:53		06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:36 (42)	08:14		09:07
	16:24	17:33	13	09:14 (41)	18:35		20:42	21:46	22:31	22:20	21:18	19:55	18:34	9	08:45 (42)	16:22			15:51
16	09:02	08:03		09:03 (41)	06:50		06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:38 (42)	08:17		09:08
	16:26	17:35	8	09:11 (41)	18:38		20:44	21:48	22:32	22:18	21:15	19:53	18:31	5	08:43 (42)	16:20			15:51
17	09:01	08:00			06:47		06:23	05:13	04:38	05:03	06:03	07:07	08:10			08:19			09:09
	16:28	17:37			18:40		20:46	21:50	22:32	22:17	21:13	19:50	18:29			16:19			15:51
18	09:00	07:58			06:44		06:20	05:11	04:38	05:04	06:05	07:09	08:12			08:21			09:10
	16:30	17:40			18:42		20:49	21:52	22:33	22:15	21:10	19:47	18:26			16:17			15:51
19	08:58	07:56			06:42		06:18	05:09	04:37	05:06	06:07	07:11	08:14			08:23			09:10
	16:32	17:42			18:44		20:51	21:54	22:33	22:14	21:08	19:44	18:23			16:15			15:51
20	08:57	07:53			06:39		06:15	05:07	04:38	05:08	06:09	07:13	08:16			08:25			09:11
	16:34	17:44			18:46		20:53	21:55	22:34	22:12	21:05	19:42	18:21			16:14			15:52
21	08:55	07:51			06:36		06:13	05:05	04:38	05:09	06:11	07:15	08:19			08:27			09:12
	16:36	17:46			18:48		20:55	21:57	22:34	22:11	21:03	19:39	18:18			16:12			15:52
22	08:54	07:48			06:33		06:10	05:04	04:38	05:11	06:13	07:17	08:21			08:29			09:12
	16:38	17:49			18:51		20:57	21:59	22:34	22:09	21:00	19:36	18:16			16:10			15:52
23	08:52	07:46			06:31		06:08	05:02	04:38	05:13	06:15	07:19	08:23			08:31			09:13
	16:40	17:51			18:53		20:59	22:01	22:34	22:07	20:57	19:33	18:13			16:09			15:53
24	08:51	07:43			06:28		06:05	05:00	04:38	05:15	06:17	07:21	08:25			08:33			09:13
	16:42	17:53			18:55		21:02	22:03	22:34	22:05	20:55	19:31	18:11			16:07			15:54
25	08:49	07:40		08:08 (42)	06:25		06:02	04:59	04:39	05:17	06:19	07:23	07:28			08:35			09:14
	16:45	17:56	1	08:09 (42)	18:57		21:04	22:05	22:34	22:04	20:52	19:28	17:08			16:06			15:54
26	08:47	07:38		08:05 (42)	06:23		06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:32 (41)		08:37			09:14
	16:47	17:58	6	08:11 (42)	18:59		21:06	22:06	22:34	22:02	20:50	19:25	17:06	10	08:42 (41)	16:05			15:55
27	08:45	07:35		08:02 (42)	06:20		05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:30 (41)		08:39			09:14
	16:49	18:00	11	08:13 (42)	19:01		21:08	22:08	22:34	22:00	20:47	19:22	17:03	13	08:43 (41)	16:03			15:56
28	08:44	07:33		08:00 (42)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:29 (41)		08:41			09:14
	16:51	18:02	14	08:14 (42)	19:03		21:10	22:10	22:34	21:58	20:44	19:20	17:01	16	08:45 (41)	16:02			15:57
29	08:42				07:14		05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:27 (41)		08:43			09:14
	16:53				20:06		21:12	22:11	22:34	21:56	20:42	19:17	16:59	19	08:46 (41)	16:01			15:58
30	08:40				07:12		05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:26 (41)		08:45			09:14
	16:56				20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:56	20	08:46 (41)	16:00			15:59
31	08:38				07:09			04:50		05:28	06:32		07:41	08:26 (41)					09:14
	16:58				20:10			22:14		21:52	20:36		16:54	21	08:47 (41)				16:00
Potential sun hours	231	264			366		428	512	534	534	472	385	322			244			211
Total, worst case			281			153								290			154		
Sun reduction			0.33			0.46								0.42			0.23		
Oper. time red.			0.94			0.94								0.94			0.94		
Wind dir. red.			0.59			0.60								0.59			0.59		
Total reduction			0.18			0.26								0.24			0.13		
Total, real			52			39								69			19		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GP - Saulgrie ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June
1	09:14	08:36		07:30		07:06	05:48	04:49
	16:01	17:00		18:05		20:12	21:17	22:16
2	09:14	08:34		07:27		07:03	05:45	04:48
	16:03	17:03		18:07	6	08:00 (42)	20:14	21:19	22:17
3	09:13	08:32	09:03 (41)	07:25		07:52 (42)	07:01	05:43	04:47
	16:04	17:05	3	09:06 (41)	18:09	11	08:03 (42)	20:16	21:21	22:19
4	09:13	08:30	09:01 (41)	07:22		07:49 (42)	06:58	05:41	04:45
	16:05	17:07	9	09:10 (41)	18:11	15	08:04 (42)	20:18	21:23	22:20
5	09:12	08:28	08:58 (41)	07:20		07:46 (42)	06:55	05:38	04:44
	16:07	17:09	13	09:11 (41)	18:13	19	08:05 (42)	20:21	21:25	22:21
6	09:12	08:26	08:56 (41)	07:17		07:44 (42)	06:52	05:36	04:44
	16:08	17:12	17	09:13 (41)	18:16	21	08:05 (42)	20:23	21:27	22:23
7	09:11	08:24	08:55 (41)	07:14		07:44 (42)	06:50	05:34	04:43
	16:10	17:14	20	09:15 (41)	18:18	22	08:06 (42)	20:25	21:29	22:24
8	09:10	08:21	08:54 (41)	07:12		07:44 (42)	06:47	05:32	04:42
	16:11	17:16	21	09:15 (41)	18:20	22	08:06 (42)	20:27	21:31	22:25
9	09:10	08:19	08:54 (41)	07:09		07:43 (42)	06:44	05:29	04:41
	16:13	17:19	22	09:16 (41)	18:22	22	08:05 (42)	20:29	21:33	22:26
10	09:09	08:17	08:53 (41)	07:06		07:43 (42)	06:42	05:27	04:40
	16:15	17:21	23	09:16 (41)	18:25	22	08:05 (42)	20:31	21:36	22:27
11	09:08	08:15	08:53 (41)	07:03		07:44 (42)	06:39	05:25	04:40
	16:16	17:23	24	09:17 (41)	18:27	21	08:05 (42)	20:34	21:38	22:28
12	09:07	08:12	08:52 (41)	07:01		07:44 (42)	06:36	05:23	04:39
	16:18	17:26	24	09:16 (41)	18:29	19	08:03 (42)	20:36	21:40	22:29
13	09:06	08:10	08:53 (41)	06:58		07:45 (42)	06:34	05:21	04:39
	16:20	17:28	24	09:17 (41)	18:31	17	08:02 (42)	20:38	21:42	22:30
14	09:05	08:08	08:53 (41)	06:55		07:46 (42)	06:31	05:19	04:38
	16:22	17:30	23	09:16 (41)	18:33	13	07:59 (42)	20:40	21:44	22:31
15	09:04	08:05	08:54 (41)	06:53		07:48 (42)	06:28	05:17	04:38
	16:24	17:33	22	09:16 (41)	18:35	8	07:56 (42)	20:42	21:46	22:31
16	09:02	08:03	08:54 (41)	06:50			06:26	05:15	04:38
	16:26	17:35	21	09:15 (41)	18:38		20:44	21:48	22:32
17	09:01	08:00	08:55 (41)	06:47			06:23	05:13	04:38
	16:28	17:37	20	09:15 (41)	18:40		20:46	21:50	22:32
18	09:00	07:58	08:56 (41)	06:44			06:20	05:11	04:38
	16:30	17:40	17	09:13 (41)	18:42		20:49	21:52	22:33
19	08:58	07:56	08:59 (41)	06:42			06:18	05:09	04:37
	16:32	17:42	12	09:11 (41)	18:44		20:51	21:54	22:33
20	08:57	07:53	09:01 (41)	06:39			06:15	05:07	04:38
	16:34	17:44	7	09:08 (41)	18:46		20:53	21:55	22:34
21	08:55	07:51		06:36			06:13	05:05	04:38
	16:36	17:46		18:48			20:55	21:57	22:34
22	08:54	07:48		06:33			06:10	05:04	04:38
	16:38	17:49		18:51			20:57	21:59	22:34
23	08:52	07:46		06:31			06:08	05:02	04:38
	16:40	17:51		18:53			20:59	22:01	22:34
24	08:51	07:43		06:28			06:05	05:00	04:38
	16:42	17:53		18:55			21:02	22:03	22:34
25	08:49	07:40		06:25			06:02	04:59	04:39
	16:45	17:56		18:57			21:04	22:05	22:34
26	08:47	07:38		06:23			06:00	04:57	04:39
	16:47	17:58		18:59			21:06	22:06	22:34
27	08:45	07:35		06:20			05:57	04:56	04:40
	16:49	18:00		19:01			21:08	22:08	22:34
28	08:44	07:33		06:17			05:55	04:54	04:40
	16:51	18:02		19:03			21:10	22:10	22:34
29	08:42			07:14			05:53	04:53	04:41
	16:53			20:06			21:12	22:11	22:34
30	08:40			07:12			05:50	04:51	04:42
	16:56			20:08			21:14	22:13	22:33
31	08:38			07:09				04:50	
	16:58			20:10				22:14	
Potential sun hours	231	264		366			428	512	534
Total, worst case			322		238				
Sun reduction			0.33		0.46				
Oper. time red.			0.94		0.94				
Wind dir. red.			0.59		0.59				
Total reduction			0.18		0.26				
Total, real			59		61				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GP - Saulgrie ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September			October		November			December
1	04:42	05:30	06:34			07:36		08:24 (42)	07:43	08:22 (41)	08:47
	22:33	21:50	20:34			19:11	18	08:42 (42)	16:52	23 08:45 (41)	15:59
2	04:43	05:32	06:36			07:38		08:22 (42)	07:45	08:23 (41)	08:49
	22:32	21:48	20:31			19:09	20	08:42 (42)	16:49	23 08:46 (41)	15:58
3	04:44	05:34	06:38			07:40		08:21 (42)	07:48	08:23 (41)	08:50
	22:32	21:45	20:28			19:06	22	08:43 (42)	16:47	21 08:44 (41)	15:57
4	04:45	05:36	06:40			07:42		08:21 (42)	07:50	08:25 (41)	08:52
	22:31	21:43	20:26			19:03	21	08:42 (42)	16:45	19 08:44 (41)	15:56
5	04:46	05:38	06:42			07:44		08:20 (42)	07:52	08:26 (41)	08:54
	22:30	21:41	20:23			19:00	22	08:42 (42)	16:43	17 08:43 (41)	15:55
6	04:47	05:40	06:44			07:46		08:21 (42)	07:54	08:29 (41)	08:55
	22:30	21:39	20:20			18:58	22	08:43 (42)	16:40	13 08:42 (41)	15:54
7	04:48	05:42	06:46			07:48		08:20 (42)	07:57	08:31 (41)	08:57
	22:29	21:37	20:17			18:55	22	08:42 (42)	16:38	9 08:40 (41)	15:54
8	04:50	05:44	06:48			07:51		08:20 (42)	07:59	08:34 (41)	08:58
	22:28	21:34	20:15			18:52	21	08:41 (42)	16:36	3 08:37 (41)	15:53
9	04:51	05:46	06:50			07:53		08:22 (42)	08:01		09:00
	22:27	21:32	20:12			18:50	17	08:39 (42)	16:34		15:53
10	04:52	05:48	06:52			07:55		08:24 (42)	08:03		09:01
	22:26	21:30	20:09			18:47	14	08:38 (42)	16:32		15:52
11	04:54	05:50	06:54			07:57		08:27 (42)	08:06		09:02
	22:25	21:27	20:06			18:44	9	08:36 (42)	16:30		15:52
12	04:55	05:52	06:57			07:59		08:29 (42)	08:08		09:04
	22:24	21:25	20:04			18:42	4	08:33 (42)	16:28		15:51
13	04:56	05:54	06:59			08:01			08:10		09:05
	22:22	21:23	20:01			18:39			16:26		15:51
14	04:58	05:57	07:01			08:03			08:12		09:06
	22:21	21:20	19:58			18:36			16:24		15:51
15	04:59	05:59	07:03			08:06			08:14		09:07
	22:20	21:18	19:55			18:34			16:22		15:51
16	05:01	06:01	07:05			08:08			08:17		09:08
	22:18	21:15	19:53			18:31			16:20		15:51
17	05:03	06:03	07:07			08:10			08:19		09:09
	22:17	21:13	19:50			18:29			16:19		15:51
18	05:04	06:05	07:09			08:12			08:21		09:10
	22:15	21:10	19:47			18:26			16:17		15:51
19	05:06	06:07	07:11			08:14			08:23		09:10
	22:14	21:08	19:44			18:23			16:15		15:51
20	05:08	06:09	07:13			08:16			08:25		09:11
	22:12	21:05	19:42			18:21			16:14		15:52
21	05:09	06:11	07:15			08:19			08:27		09:12
	22:11	21:03	19:39			18:18			16:12		15:52
22	05:11	06:13	07:17			08:21		09:30 (41)	08:29		09:12
	22:09	21:00	19:36			18:16	9	09:39 (41)	16:10		15:52
23	05:13	06:15	07:19			08:23		09:27 (41)	08:31		09:13
	22:07	20:57	19:33			18:13	14	09:41 (41)	16:09		15:53
24	05:15	06:17	07:21			08:25		09:26 (41)	08:33		09:13
	22:05	20:55	19:31			18:11	17	09:43 (41)	16:07		15:54
25	05:17	06:19	07:23			07:28		08:24 (41)	08:35		09:14
	22:04	20:52	19:28			17:08	20	08:44 (41)	16:06		15:54
26	05:18	06:21	07:25			07:30		08:24 (41)	08:37		09:14
	22:02	20:50	19:25			17:06	21	08:45 (41)	16:05		15:55
27	05:20	06:24	07:27			07:32		08:23 (41)	08:39		09:14
	22:00	20:47	19:22			17:03	23	08:46 (41)	16:03		15:56
28	05:22	06:26	07:30		08:33 (42)	07:34		08:22 (41)	08:41		09:14
	21:58	20:44	19:20	3	08:36 (42)	17:01	23	08:45 (41)	16:02		15:57
29	05:24	06:28	07:32		08:28 (42)	07:36		08:22 (41)	08:43		09:14
	21:56	20:42	19:17	12	08:40 (42)	16:59	24	08:46 (41)	16:01		15:58
30	05:26	06:30	07:34		08:25 (42)	07:39		08:22 (41)	08:45		09:14
	21:54	20:39	19:14	16	08:41 (42)	16:56	24	08:46 (41)	16:00		15:59
31	05:28	06:32				07:41		08:23 (41)			09:14
	21:52	20:36				16:54	23	08:46 (41)			16:00
Potential sun hours	534	472	385			322			244		211
Total, worst case				31			410			128	
Sun reduction				0.50			0.42			0.23	
Oper. time red.				0.94			0.94			0.94	
Wind dir. red.				0.59			0.59			0.59	
Total reduction				0.28			0.24			0.13	
Total, real				9			97			16	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GQ - Saulie š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GR - Saulites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:02	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:53	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:41	15:55
7	09:11	08:24	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:49	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:41	04:52	05:48	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:17	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:07	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:53	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	05:00	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:36	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:21	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:24	16:15	15:52
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:17	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:06	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:47	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:19	06:22	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:04	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GS - Saulstari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	08:00 (30)	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	49 08:59 (29)	20:12	21:16	22:16	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:59 (30)	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	48 08:58 (29)	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:58 (30)	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	47 08:56 (29)	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	07:59 (30)	06:58	05:41	04:46	04:46	05:36	06:40	07:42	08:41 (30)	07:50	08:52
	16:06	17:07	18:11	43 08:55 (29)	20:18	21:23	22:20	22:31	21:43	20:25	19:03	8 08:49 (30)	16:45	15:56
5	09:12	08:28	07:20	07:59 (30)	06:55	05:39	04:45	04:47	05:38	06:42	07:44	08:38 (30)	07:52	08:53
	16:07	17:10	18:14	39 08:53 (29)	20:21	21:25	22:21	22:30	21:41	20:23	19:01	14 08:52 (30)	16:43	15:55
6	09:11	08:25	07:17	07:59 (30)	06:53	05:36	04:44	04:48	05:40	06:44	07:46	08:37 (30)	07:54	08:55
	16:09	17:12	18:16	33 08:50 (29)	20:23	21:27	22:22	22:29	21:39	20:20	18:58	17 08:54 (30)	16:41	15:55
7	09:11	08:23	07:14	07:59 (30)	06:50	05:34	04:43	04:49	05:42	06:46	07:48	08:35 (30)	07:56	08:56
	16:10	17:14	18:18	18 08:17 (30)	20:25	21:29	22:23	22:28	21:36	20:17	18:55	29 09:24 (29)	16:39	15:54
8	09:10	08:21	07:12	08:01 (30)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:34 (30)	07:59	08:58
	16:12	17:17	18:20	15 08:16 (30)	20:27	21:31	22:25	22:27	21:34	20:15	18:52	36 09:27 (29)	16:36	15:53
9	09:09	08:19	07:09	08:02 (30)	06:44	05:30	04:42	04:51	05:46	06:50	07:53	08:33 (30)	08:01	08:59
	16:13	17:19	18:22	12 08:14 (30)	20:29	21:33	22:26	22:26	21:32	20:12	18:50	42 09:29 (29)	16:34	15:53
10	09:08	08:17	07:06	08:06 (30)	06:42	05:27	04:41	04:53	05:49	06:53	07:55	08:32 (30)	08:03	09:01
	16:15	17:21	18:25	3 08:09 (30)	20:31	21:35	22:27	22:25	21:29	20:09	18:47	46 09:30 (29)	16:32	15:53
11	09:08	08:14	07:03		06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:33 (30)	08:05	09:02
	16:17	17:24	18:27		20:33	21:37	22:28	22:24	21:27	20:06	18:44	47 09:31 (29)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:33 (30)	08:08	09:03
	16:19	17:26	18:29		20:36	21:39	22:29	22:23	21:25	20:04	18:42	49 09:32 (29)	16:28	15:52
13	09:06	08:10	06:58		06:34	05:21	04:39	04:57	05:55	06:59	08:08 (28)	08:01	08:33 (30)	08:10	09:04
	16:20	17:28	18:31		20:38	21:41	22:29	22:22	21:22	20:01	12 08:20 (28)	18:39	49 09:32 (29)	16:26	15:52
14	09:04	08:07	06:55	07:25 (28)	06:31	05:19	04:39	04:58	05:57	07:01	08:06 (28)	08:03	08:33 (30)	08:12	09:05
	16:22	17:31	18:33	6 07:31 (28)	20:40	21:43	22:30	22:21	21:20	19:58	16 08:22 (28)	18:37	49 09:32 (29)	16:24	15:51
15	09:03	08:05	06:53	07:20 (28)	06:28	05:17	04:39	05:00	05:59	07:03	08:04 (28)	08:06	08:36 (30)	08:14	09:07
	16:24	17:33	11 08:41 (29) 18:35	14 07:34 (28)	20:42	21:45	22:31	22:19	21:17	19:55	19 08:23 (28)	18:34	46 09:33 (29)	16:23	15:51
16	09:02	08:03	08:37 (29) 06:50	07:19 (28)	06:26	05:15	04:38	05:01	06:01	07:05	08:02 (28)	08:08	08:38 (30)	08:16	09:08
	16:26	17:35	17 08:54 (29) 18:38	18 07:37 (28)	20:44	21:47	22:31	22:18	21:15	19:53	22 08:24 (28)	18:31	42 09:33 (29)	16:21	15:51
17	09:01	08:00	08:36 (29) 06:47	07:17 (28)	06:23	05:13	04:38	05:03	06:03	07:07	08:01 (28)	08:10	08:40 (30)	08:19	09:08
	16:28	17:37	20 08:56 (29) 18:40	21 07:38 (28)	20:46	21:49	22:32	22:17	21:13	19:50	24 08:25 (28)	18:29	38 09:32 (29)	16:19	15:51
18	08:59	07:58	08:34 (29) 06:44	07:15 (28)	06:21	05:11	04:38	05:05	06:05	07:09	08:00 (28)	08:12	09:01 (29)	08:21	09:09
	16:30	17:40	23 08:57 (29) 18:42	23 07:38 (28)	20:48	21:51	22:33	22:15	21:10	19:47	25 08:25 (28)	18:26	31 09:32 (29)	16:17	15:52
19	08:58	07:55	08:32 (29) 06:42	07:14 (28)	06:18	05:09	04:38	05:06	06:07	07:11	07:59 (28)	08:14	09:01 (29)	08:23	09:10
	16:32	17:42	26 08:58 (29) 18:44	25 07:39 (28)	20:51	21:53	22:33	22:13	21:08	19:44	26 08:25 (28)	18:24	31 09:32 (29)	16:16	15:52
20	08:57	07:53	08:32 (29) 06:39	07:14 (28)	06:15	05:08	04:38	05:08	06:09	07:13	07:58 (28)	08:16	09:01 (29)	08:25	09:11
	16:34	17:44	28 09:00 (29) 18:46	26 07:40 (28)	20:53	21:55	22:33	22:12	21:05	19:42	27 08:25 (28)	18:21	30 09:31 (29)	16:14	15:52
21	08:55	07:50	08:31 (29) 06:36	07:13 (28)	06:13	05:06	04:38	05:10	06:11	07:15	07:58 (28)	08:19	09:02 (29)	08:27	09:11
	16:36	17:47	29 09:00 (29) 18:48	27 07:40 (28)	20:55	21:57	22:34	22:10	21:02	19:39	27 08:25 (28)	18:19	29 09:31 (29)	16:12	15:52
22	08:54	07:48	08:31 (29) 06:34	07:12 (28)	06:10	05:04	04:38	05:11	06:13	07:17	07:57 (28)	08:21	09:03 (29)	08:29	09:12
	16:38	17:49	30 09:01 (29) 18:51	27 07:39 (28)	20:57	21:59	22:34	22:09	21:00	19:36	27 08:24 (28)	18:16	27 09:30 (29)	16:11	15:53
23	08:52	07:45	08:30 (29) 06:31	07:12 (28)	06:08	05:02	04:39	05:13	06:15	07:19	07:57 (28)	08:23	09:03 (29)	08:31	09:12
	16:41	17:51	31 09:01 (29) 18:53	27 07:39 (28)	20:59	22:01	22:34	22:07	20:57	19:33	27 08:24 (28)	18:13	25 09:28 (29)	16:09	15:53
24	08:50	07:43	08:10 (30) 06:28	07:12 (28)	06:05	05:01	04:39	05:15	06:17	07:21	07:57 (28)	08:25	09:05 (29)	08:33	09:13
	16:43	17:53	33 09:00 (29) 18:55	27 07:39 (28)	21:01	22:02	22:34	22:05	20:55	19:31	26 08:23 (28)	18:11	22 09:27 (29)	16:08	15:54
25	08:49	07:40	08:08 (30) 06:25	07:12 (28)	06:03	04:59	04:39	05:17	06:20	07:23	07:58 (28)	08:27	08:06 (29)	08:35	09:13
	16:45	17:56	39 09:01 (29) 18:57	26 07:38 (28)	21:03	22:04	22:34	22:03	20:52	19:28	24 08:22 (28)	17:09	19 08:25 (29)	16:06	15:55
26	08:47	07:38	08:05 (30) 06:23	07:12 (28)	06:00	04:58	04:40	05:19	06:22	07:25	07:58 (28)	07:30	08:07 (29)	08:37	09:13
	16:47	17:58	43 09:00 (29) 18:59	25 07:37 (28)	21:06	22:06	22:34	22:01	20:49	19:25	22 08:20 (28)	17:06	16 08:23 (29)	16:05	15:55
27	08:45	07:35	08:02 (30) 06:20	07:12 (28)	05:58	04:56	04:40	05:21	06:24	07:27	07:59 (28)	07:32	08:11 (29)	08:39	09:14
	16:49	18:00	48 09:00 (29) 19:01	23 07:35 (28)	21:08	22:08	22:34	21:59	20:47	19:22	19 08:18 (28)	17:04	9 08:20 (29)	16:04	15:56
28	08:43	07:33	08:01 (30) 06:17	07:14 (28)	05:55	04:55	04:41	05:23	06:26	07:30	08:00 (28)	07:34		08:41	09:14
	16:52	18:02	49 09:00 (29) 19:03	20 07:34 (28)	21:10	22:09	22:33	21:58	20:44	19:20	16 08:16 (28)	17:01		16:02	15:57
29	08:42		07:14	08:15 (28)	05:53	04:53	04:41	05:24	06:28	07:32	08:04 (28)	07:36		08:43	09:14
	16:54		20:06	17 08:32 (28)	21:12	22:11	22:33	21:56	20:42	19:17	10 08:14 (28)	16:59		16:01	15:58
30	08:40		07:12	08:17 (28)	05:50	04:52	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56		20:08	12 08:29 (28)	21:14	22:12	22:33	21:54	20:39	19:14		16:57		16:00	15:59
31	08:38		07:09			04:51		05:28	06:32			07:41			09:14
	16:58		20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385		322		244	212
Total, worst case		427		671						369		751			
Sun reduction		0.33		0.46						0.50		0.42			
Oper. time red.		0.94		0.94						0.94		0.94			
Wind dir. red.		0.60		0.61						0.62		0.60			
Total reduction		0.19		0.26						0.29		0.24			
Total, real		80		175						106		179			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GT - Sendobri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:30	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:13	21:18	22:16	22:31	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:27	19:05	16:47	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44	04:46	05:38	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20	22:29	21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:54
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:28	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:30	22:24	22:27	21:33	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:00	08:59
	16:13	17:18	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:34	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:02	09:00
	16:14	17:20	18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:31	15:52
11	09:07	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:58	08:07	09:02
	16:18	17:25	18:28	20:35	21:39	22:28	22:22	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00	08:09	09:04
	16:20	17:27	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38	16:26	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:33	20:39	21:43	22:29	22:20	21:19	19:57	18:36	16:24	15:51
15	09:03	08:04	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:13	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:31	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	22:16	21:12	19:49	18:28	16:18	15:51
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:14	21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24	09:10
	16:33	17:44	18:46	20:52	21:54	22:33	22:11	21:04	19:41	18:20	16:13	15:51
21	08:54	07:50	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	22:10	21:02	19:38	18:18	16:11	15:52
22	08:53	07:47	06:33	06:09	05:03	04:37	05:11	06:13	07:16	08:20	08:28	09:11
	16:38	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:18	08:22	08:30	09:12
	16:40	17:50	18:52	20:58	22:00	22:33	22:06	20:57	19:33	18:13	16:08	15:53
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:24	08:32	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	22:04	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:34	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	22:03	20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:36	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05	16:04	15:55
27	08:45	07:34	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:43	19:19	17:00	16:02	15:56
29	08:41		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:13	22:12	22:32	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50		05:28	06:31		07:40		09:13
	16:57		20:09		22:13		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GU - Silaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June		
1	09:14			08:36		09:26 (21)	07:30		08:08 (20)	07:06		07:41 (17)	05:48			04:49		05:43 (15)
	16:02			17:00	25	09:51 (21)	18:05	27	08:35 (20)	20:12	62	08:53 (16)	21:16			22:16	30	06:13 (15)
2	09:13			08:34		09:26 (21)	07:27		08:07 (20)	07:03		07:41 (17)	05:45			04:48		05:44 (15)
	16:03			17:03	25	09:51 (21)	18:07	28	08:35 (20)	20:14	60	08:52 (16)	21:19			22:17	29	06:13 (15)
3	09:13			08:32		09:27 (21)	07:25		08:07 (20)	07:01		07:40 (17)	05:43			04:47		05:45 (15)
	16:04			17:05	25	09:52 (21)	18:09	28	08:35 (20)	20:16	58	08:50 (16)	21:21			22:19	29	06:14 (15)
4	09:13			08:30		09:28 (21)	07:22		08:07 (20)	06:58		07:41 (17)	05:41			04:46		05:45 (15)
	16:05			17:07	24	09:52 (21)	18:11	28	08:35 (20)	20:18	56	08:50 (16)	21:23			22:20	29	06:14 (15)
5	09:12			08:28		09:28 (21)	07:20		08:07 (20)	06:55		07:41 (17)	05:38			04:45		05:45 (15)
	16:07			17:10	23	09:51 (21)	18:13	28	08:35 (20)	20:21	52	08:48 (16)	21:25			22:21	29	06:14 (15)
6	09:12			08:26		09:29 (21)	07:17		08:07 (20)	06:52		07:42 (17)	05:36			04:44		05:45 (15)
	16:08			17:12	21	09:50 (21)	18:16	27	08:34 (20)	20:23	47	08:46 (16)	21:27			22:22	29	06:14 (15)
7	09:11			08:23		09:31 (21)	07:14		08:07 (20)	06:50		07:43 (17)	05:34			04:43		05:46 (15)
	16:10			17:14	19	09:50 (21)	18:18	26	08:33 (20)	20:25	40	08:44 (16)	21:29			22:24	29	06:15 (15)
8	09:10			08:21		09:31 (21)	07:12		08:08 (20)	06:47		07:44 (17)	05:32			04:42		05:45 (15)
	16:12			17:17	17	09:48 (21)	18:20	25	08:33 (20)	20:27	33	08:41 (16)	21:31			22:25	29	06:14 (15)
9	09:09			08:19		09:34 (21)	07:09		08:09 (20)	06:44		07:47 (17)	05:29			04:41		05:45 (15)
	16:13			17:19	13	09:47 (21)	18:22	22	08:31 (20)	20:29	18	08:36 (16)	21:33			22:26	29	06:14 (15)
10	09:09			08:17		09:36 (21)	07:06		08:09 (20)	06:42			05:27			04:41		05:46 (15)
	16:15			17:21	7	09:43 (21)	18:25	20	08:29 (20)	20:31			21:35			22:27	29	06:15 (15)
11	09:08			08:14			07:03		08:11 (20)	06:39			05:25			04:40		05:47 (15)
	16:17			17:23			18:27	16	08:27 (20)	20:33			21:37			22:28	28	06:15 (15)
12	09:07			08:12			07:01		08:14 (20)	06:36			05:23			04:40		05:46 (15)
	16:18			17:26			18:29	10	08:24 (20)	20:36			21:40			22:29	29	06:15 (15)
13	09:06			08:10			06:58			06:34			05:21			04:39		05:47 (15)
	16:20			17:28			18:31			20:38			21:42			22:30	28	06:15 (15)
14	09:05			08:07			06:55			06:31			05:19		05:56 (15)	04:39		05:48 (15)
	16:22			17:30			18:33			20:40			21:44	3	05:59 (15)	22:30	28	06:16 (15)
15	09:03			08:05			06:53		07:37 (16)	06:28			05:17		05:52 (15)	04:38		05:47 (15)
	16:24			17:33			18:35	5	07:42 (16)	20:42			21:46	11	06:03 (15)	22:31	28	06:15 (15)
16	09:02			08:03			06:50		07:32 (16)	06:26			05:15		05:50 (15)	04:38		05:47 (15)
	16:26			17:35			18:38	16	07:48 (16)	20:44			21:48	15	06:05 (15)	22:32	28	06:15 (15)
17	09:01			08:00			06:47		07:28 (16)	06:23			05:13		05:49 (15)	04:38		05:48 (15)
	16:28			17:37			18:40	22	07:50 (16)	20:46			21:50	18	06:07 (15)	22:32	27	06:15 (15)
18	09:00			07:58			06:44		07:25 (16)	06:20			05:11		05:47 (15)	04:38		05:48 (15)
	16:30			17:40			18:42	27	07:52 (16)	20:48			21:51	21	06:08 (15)	22:33	28	06:16 (15)
19	08:58			07:55			06:42		07:23 (16)	06:18			05:09		05:46 (15)	04:38		05:48 (15)
	16:32			17:42			18:44	30	07:53 (16)	20:51			21:53	22	06:08 (15)	22:33	28	06:16 (15)
20	08:57		09:32 (21)	07:53			06:39		07:22 (16)	06:15			05:07		05:46 (15)	04:38		05:48 (15)
	16:34	8	09:40 (21)	17:44			18:46	33	07:55 (16)	20:53			21:55	24	06:10 (15)	22:33	28	06:16 (15)
21	08:55		09:30 (21)	07:50			06:36		07:21 (16)	06:13			05:06		05:45 (15)	04:38		05:49 (15)
	16:36	13	09:43 (21)	17:46			18:48	34	07:55 (16)	20:55			21:57	25	06:10 (15)	22:34	28	06:17 (15)
22	08:54		09:29 (21)	07:48			06:33		07:19 (16)	06:10			05:04		05:45 (15)	04:38		05:49 (15)
	16:38	15	09:44 (21)	17:49			18:51	36	07:55 (16)	20:57			21:59	26	06:11 (15)	22:34	28	06:17 (15)
23	08:52		09:28 (21)	07:45		08:18 (20)	06:31		07:18 (16)	06:08			05:02		05:44 (15)	04:38		05:49 (15)
	16:40	18	09:46 (21)	17:51	10	08:28 (20)	18:53	38	07:56 (16)	20:59			22:01	27	06:11 (15)	22:34	28	06:17 (15)
24	08:50		09:27 (21)	07:43		08:14 (20)	06:28		07:18 (16)	06:05			05:00		05:44 (15)	04:39		05:49 (15)
	16:43	20	09:47 (21)	17:53	16	08:30 (20)	18:55	39	07:57 (16)	21:01			22:03	28	06:12 (15)	22:34	28	06:17 (15)
25	08:49		09:27 (21)	07:40		08:13 (20)	06:25		06:52 (17)	06:03			04:59		05:44 (15)	04:39		05:50 (15)
	16:45	21	09:48 (21)	17:56	19	08:32 (20)	18:57	46	07:56 (16)	21:04			22:04	28	06:12 (15)	22:34	27	06:17 (15)
26	08:47		09:26 (21)	07:38		08:11 (20)	06:23		06:48 (17)	06:00			04:57		05:44 (15)	04:39		05:50 (15)
	16:47	23	09:49 (21)	17:58	22	08:33 (20)	18:59	54	07:56 (16)	21:06			22:06	28	06:12 (15)	22:34	27	06:17 (15)
27	08:45		09:26 (21)	07:35		08:10 (20)	06:20		06:46 (17)	05:58			04:56		05:44 (15)	04:40		05:50 (15)
	16:49	23	09:49 (21)	18:00	24	08:34 (20)	19:01	58	07:56 (16)	21:08			22:08	29	06:13 (15)	22:34	28	06:18 (15)
28	08:43		09:26 (21)	07:33		08:09 (20)	06:17		06:45 (17)	05:55			04:54		05:44 (15)	04:41		05:50 (15)
	16:51	24	09:50 (21)	18:02	26	08:35 (20)	19:03	60	07:56 (16)	21:10			22:09	29	06:13 (15)	22:34	28	06:18 (15)
29	08:42		09:26 (21)				07:14		07:44 (17)	05:53			04:53		05:44 (15)	04:41		05:50 (15)
	16:54	25	09:51 (21)				20:06	61	08:55 (16)	21:12			22:11	30	06:14 (15)	22:33	28	06:18 (15)
30	08:40		09:26 (21)				07:12		07:42 (17)	05:50			04:52		05:44 (15)	04:42		05:51 (15)
	16:56	25	09:51 (21)				20:08	62	08:54 (16)	21:14			22:13	30	06:14 (15)	22:33	28	06:19 (15)
31	08:38		09:26 (21)				07:09		07:41 (17)				04:50		05:43 (15)			
	16:58	26	09:52 (21)				20:10	62	08:53 (16)				22:14	30	06:13 (15)			
Potential sun hours	231			264			366			428			512			534		
Total, worst case		241			316			968			426			424			849	
Sun reduction		0.27			0.33			0.46			0.55			0.61			0.57	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.56			0.58			0.61			0.62			0.68			0.68	
Total reduction		0.15			0.18			0.26			0.32			0.39			0.36	
Total, real		35			57			255			136			165			308	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GU - Silaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August	September			October			November			December
1	04:43		05:51 (15)	05:30	06:34			07:36		08:55 (20)	07:43		09:05 (21)	08:47
	22:33	28	06:19 (15)	21:50	20:34			19:11	6	09:01 (20)	16:52	8	09:13 (21)	15:59
2	04:44		05:50 (15)	05:32	06:36			07:38		08:51 (20)	07:45		09:03 (21)	08:48
	22:32	29	06:19 (15)	21:47	20:31			19:09	14	09:05 (20)	16:49	13	09:16 (21)	15:58
3	04:44		05:51 (15)	05:34	06:38		07:45 (17)	07:40		08:48 (20)	07:48		09:01 (21)	08:50
	22:31	28	06:19 (15)	21:45	20:28	18	08:34 (16)	19:06	19	09:07 (20)	16:47	17	09:18 (21)	15:57
4	04:45		05:51 (15)	05:36	06:40		07:41 (17)	07:42		08:46 (20)	07:50		09:00 (21)	08:52
	22:31	29	06:20 (15)	21:43	20:26	33	08:38 (16)	19:03	22	09:08 (20)	16:45	20	09:20 (21)	15:56
5	04:46		05:51 (15)	05:38	06:42		07:39 (17)	07:44		08:45 (20)	07:52		08:59 (21)	08:53
	22:30	29	06:20 (15)	21:41	20:23	40	08:40 (16)	19:00	23	09:08 (20)	16:43	21	09:20 (21)	15:55
6	04:48		05:51 (15)	05:40	06:44		07:38 (17)	07:46		08:44 (20)	07:54		08:59 (21)	08:55
	22:29	29	06:20 (15)	21:39	20:20	46	08:42 (16)	18:58	26	09:10 (20)	16:41	22	09:21 (21)	15:55
7	04:49		05:51 (15)	05:42	06:46		07:36 (17)	07:48		08:43 (20)	07:57		08:58 (21)	08:57
	22:28	30	06:21 (15)	21:36	20:17	52	08:43 (16)	18:55	27	09:10 (20)	16:38	23	09:21 (21)	15:54
8	04:50		05:51 (15)	05:44	06:48		07:35 (17)	07:51		08:42 (20)	07:59		08:58 (21)	08:58
	22:28	30	06:21 (15)	21:34	20:15	56	08:44 (16)	18:52	28	09:10 (20)	16:36	24	09:22 (21)	15:53
9	04:51		05:51 (15)	05:46	06:50		07:35 (17)	07:53		08:42 (20)	08:01		08:57 (21)	08:59
	22:27	30	06:21 (15)	21:32	20:12	58	08:45 (16)	18:50	28	09:10 (20)	16:34	25	09:22 (21)	15:53
10	04:52		05:52 (15)	05:48	06:52		07:34 (17)	07:55		08:41 (20)	08:03		08:58 (21)	09:01
	22:26	30	06:22 (15)	21:30	20:09	60	08:45 (16)	18:47	28	09:09 (20)	16:32	25	09:23 (21)	15:52
11	04:54		05:52 (15)	05:50	06:55		07:34 (17)	07:57		08:42 (20)	08:05		08:57 (21)	09:02
	22:24	30	06:22 (15)	21:27	20:06	61	08:45 (16)	18:44	28	09:10 (20)	16:30	26	09:23 (21)	15:52
12	04:55		05:52 (15)	05:52	06:57		07:34 (17)	07:59		08:41 (20)	08:08		08:58 (21)	09:03
	22:23	30	06:22 (15)	21:25	20:04	63	08:46 (16)	18:42	28	09:09 (20)	16:28	25	09:23 (21)	15:52
13	04:57		05:52 (15)	05:55	06:59		07:34 (17)	08:01		08:41 (20)	08:10		08:58 (21)	09:04
	22:22	29	06:21 (15)	21:22	20:01	63	08:46 (16)	18:39	27	09:08 (20)	16:26	25	09:23 (21)	15:51
14	04:58		05:53 (15)	05:57	07:01		07:34 (17)	08:03		08:42 (20)	08:12		08:58 (21)	09:06
	22:21	29	06:22 (15)	21:20	19:58	62	08:46 (16)	18:36	25	09:07 (20)	16:24	24	09:22 (21)	15:51
15	05:00		05:52 (15)	05:59	07:03		07:34 (17)	08:06		08:43 (20)	08:14		08:59 (21)	09:07
	22:19	30	06:22 (15)	21:18	19:55	61	08:45 (16)	18:34	24	09:07 (20)	16:22	23	09:22 (21)	15:51
16	05:01		05:52 (15)	06:01	07:05		07:35 (17)	08:08		08:44 (20)	08:16		08:59 (21)	09:08
	22:18	29	06:21 (15)	21:15	19:53	58	08:45 (16)	18:31	21	09:05 (20)	16:21	23	09:22 (21)	15:51
17	05:03		05:53 (15)	06:03	07:07		07:36 (17)	08:10		08:45 (20)	08:19		09:01 (21)	09:09
	22:17	29	06:22 (15)	21:13	19:50	55	08:45 (16)	18:29	18	09:03 (20)	16:19	21	09:22 (21)	15:51
18	05:04		05:53 (15)	06:05	07:09		07:39 (17)	08:12		08:47 (20)	08:21		09:01 (21)	09:09
	22:15	28	06:21 (15)	21:10	19:47	48	08:44 (16)	18:26	14	09:01 (20)	16:17	20	09:21 (21)	15:51
19	05:06		05:54 (15)	06:07	07:11		08:04 (16)	08:14		08:50 (20)	08:23		09:03 (21)	09:10
	22:14	28	06:22 (15)	21:08	19:44	39	08:43 (16)	18:23	7	08:57 (20)	16:15	18	09:21 (21)	15:52
20	05:08		05:54 (15)	06:09	07:13		08:05 (16)	08:16			08:25		09:04 (21)	09:11
	22:12	27	06:21 (15)	21:05	19:42	37	08:42 (16)	18:21			16:14	15	09:19 (21)	15:52
21	05:10		05:55 (15)	06:11	07:15		08:05 (16)	08:19			08:27		09:05 (21)	09:12
	22:10	26	06:21 (15)	21:02	19:39	36	08:41 (16)	18:18			16:12	13	09:18 (21)	15:52
22	05:11		05:55 (15)	06:13	07:17		08:05 (16)	08:21			08:29		09:08 (21)	09:12
	22:09	26	06:21 (15)	21:00	19:36	35	08:40 (16)	18:16			16:11	8	09:16 (21)	15:53
23	05:13		05:55 (15)	06:15	07:19		08:06 (16)	08:23			08:31			09:13
	22:07	25	06:20 (15)	20:57	19:33	33	08:39 (16)	18:13			16:09			15:53
24	05:15		05:57 (15)	06:17	07:21		08:07 (16)	08:25			08:33			09:13
	22:05	23	06:20 (15)	20:55	19:31	30	08:37 (16)	18:11			16:08			15:54
25	05:17		05:58 (15)	06:19	07:23		08:08 (16)	07:27			08:35			09:13
	22:03	21	06:19 (15)	20:52	19:28	27	08:35 (16)	17:08			16:06			15:54
26	05:19		05:58 (15)	06:22	07:25		08:09 (16)	07:30			08:37			09:14
	22:02	19	06:17 (15)	20:50	19:25	24	08:33 (16)	17:06			16:05			15:55
27	05:20		06:00 (15)	06:24	07:27		08:11 (16)	07:32			08:39			09:14
	22:00	17	06:17 (15)	20:47	19:22	19	08:30 (16)	17:04			16:03			15:56
28	05:22		06:02 (15)	06:26	07:30		08:15 (16)	07:34			08:41			09:14
	21:58	13	06:15 (15)	20:44	19:20	10	08:25 (16)	17:01			16:02			15:57
29	05:24		06:03 (15)	06:28	07:32			07:36			08:43			09:14
	21:56	9	06:12 (15)	20:42	19:17			16:59			16:01			15:58
30	05:26			06:30	07:34			07:39			08:45			09:14
	21:54			20:39	19:14			16:56			16:00			15:59
31	05:28			06:32				07:41						09:14
	21:52			20:36				16:54						16:00
Potential sun hours	534			472	385			322			244			211
Total, worst case		760				1124			413			439		
Sun reduction		0.60				0.50			0.42			0.23		
Oper. time red.		0.94				0.94			0.94			0.94		
Wind dir. red.		0.68				0.62			0.60			0.56		
Total reduction		0.38				0.29			0.24			0.12		
Total, real		291				324			99			53		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GV - Silini B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:52
	16:06	17:08	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:43	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:45	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:25	22:27	21:34	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45	05:30	04:42	04:52	05:47	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:04	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:45	16:30	15:52
12	09:07	08:12	07:01	06:37	05:23	04:40	04:56	05:53	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	05:17	04:39	05:00	05:59	07:03	08:06	08:14	09:06
	16:24	17:33	18:36	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:08
	16:28	17:38	18:40	20:46	21:49	22:32	22:16	21:13	19:50	18:29	16:19	15:52
18	08:59	07:58	06:45	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:10	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:08	19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:16	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:19	16:12	15:53
22	08:54	07:48	06:34	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:16	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:50	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:58	20:44	19:20	17:01	16:03	15:57
29	08:42		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:51	04:52	04:42	05:27	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:54	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GW - Silnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June		
1	09:14			08:36		09:51 (21)	07:30		08:22 (20)	07:06		07:43 (17)	05:48			04:49		05:32 (15)
	16:02			17:00	23	10:14 (21)	18:05	33	08:55 (20)	20:12	77	09:15 (16)	21:16			22:16	19	05:51 (15)
2	09:13			08:34		09:53 (21)	07:27		08:22 (20)	07:03		07:42 (17)	05:45			04:48		05:31 (15)
	16:03			17:03	20	10:13 (21)	18:07	32	08:54 (20)	20:14	76	09:14 (16)	21:19			22:17	21	05:52 (15)
3	09:13			08:32		09:54 (21)	07:25		08:21 (20)	07:01		07:41 (17)	05:43			04:47		05:32 (15)
	16:04			17:05	19	10:13 (21)	18:09	33	08:54 (20)	20:16	76	09:13 (16)	21:21			22:19	21	05:53 (15)
4	09:13			08:30		09:56 (21)	07:22		08:22 (20)	06:58		07:41 (17)	05:41			04:46		05:31 (15)
	16:05			17:07	15	10:11 (21)	18:11	32	08:54 (20)	20:18	76	09:13 (16)	21:23			22:20	23	05:54 (15)
5	09:12			08:28		09:58 (21)	07:19		08:23 (20)	06:55		07:41 (17)	05:38			04:45		05:31 (15)
	16:07			17:10	10	10:08 (21)	18:13	29	08:52 (20)	20:21	73	09:11 (16)	21:25			22:21	24	05:55 (15)
6	09:11			08:26			07:17		08:23 (20)	06:52		07:41 (17)	05:36			04:44		05:30 (15)
	16:08			17:12			18:16	28	08:51 (20)	20:23	70	09:10 (16)	21:27			22:22	25	05:55 (15)
7	09:11			08:23			07:14		08:23 (20)	06:50		07:42 (17)	05:34			04:43		05:30 (15)
	16:10			17:14			18:18	27	08:50 (20)	20:25	67	09:09 (16)	21:29			22:24	26	05:56 (15)
8	09:10		09:53 (21)	08:21			07:12		08:25 (20)	06:47		07:42 (17)	05:32			04:42		05:30 (15)
	16:12	5	09:58 (21)	17:17			18:20	24	08:49 (20)	20:27	65	09:08 (16)	21:31			22:25	26	05:56 (15)
9	09:09		09:51 (21)	08:19			07:09		08:26 (20)	06:44		07:42 (17)	05:29			04:41		05:29 (15)
	16:13	10	10:01 (21)	17:19			18:22	21	08:47 (20)	20:29	60	09:06 (16)	21:33			22:26	27	05:56 (15)
10	09:09		09:51 (21)	08:17			07:06		08:28 (20)	06:42		07:44 (17)	05:27			04:41		05:30 (15)
	16:15	12	10:03 (21)	17:21			18:25	16	08:44 (20)	20:31	54	09:04 (16)	21:35			22:27	27	05:57 (15)
11	09:08		09:50 (21)	08:14			07:03		08:32 (20)	06:39		07:45 (17)	05:25			04:40		05:29 (15)
	16:17	15	10:05 (21)	17:23			18:27	7	08:39 (20)	20:33	47	09:02 (16)	21:37			22:28	28	05:57 (15)
12	09:07		09:49 (21)	08:12			07:01			06:36		07:47 (17)	05:23			04:40		05:29 (15)
	16:18	16	10:05 (21)	17:26			18:29			20:36	37	08:59 (16)	21:39			22:29	29	05:58 (15)
13	09:06		09:48 (21)	08:10			06:58			06:34		08:34 (16)	05:21			04:39		05:30 (15)
	16:20	19	10:07 (21)	17:28			18:31			20:38	23	08:57 (16)	21:42			22:30	29	05:59 (15)
14	09:05		09:49 (21)	08:07			06:55		07:48 (16)	06:31		08:37 (16)	05:19			04:39		05:30 (15)
	16:22	20	10:09 (21)	17:30			18:33	15	08:03 (16)	20:40	15	08:52 (16)	21:44			22:30	29	05:59 (15)
15	09:03		09:48 (21)	08:05			06:53		07:44 (16)	06:28			05:17			04:38		05:29 (15)
	16:24	21	10:09 (21)	17:33			18:35	22	08:06 (16)	20:42			21:46			22:31	30	05:59 (15)
16	09:02		09:48 (21)	08:03			06:50		07:41 (16)	06:26			05:15			04:38		05:30 (15)
	16:26	23	10:11 (21)	17:35			18:38	29	08:10 (16)	20:44			21:48			22:32	29	05:59 (15)
17	09:01		09:47 (21)	08:00			06:47		07:39 (16)	06:23			05:13			04:38		05:30 (15)
	16:28	24	10:11 (21)	17:37			18:40	32	08:11 (16)	20:46			21:49			22:32	30	06:00 (15)
18	09:00		09:47 (21)	07:58		08:37 (20)	06:44		07:36 (16)	06:20			05:11			04:38		05:30 (15)
	16:30	25	10:12 (21)	17:40	5	08:42 (20)	18:42	36	08:12 (16)	20:48			21:51			22:33	30	06:00 (15)
19	08:58		09:47 (21)	07:55		08:32 (20)	06:42		07:34 (16)	06:18			05:09			04:38		05:30 (15)
	16:32	26	10:13 (21)	17:42	14	08:46 (20)	18:44	39	08:13 (16)	20:51			21:53			22:33	30	06:00 (15)
20	08:57		09:47 (21)	07:53		08:30 (20)	06:39		07:34 (16)	06:15			05:07			04:38		05:30 (15)
	16:34	27	10:14 (21)	17:44	19	08:49 (20)	18:46	41	08:15 (16)	20:53			21:55			22:33	30	06:00 (15)
21	08:55		09:47 (21)	07:50		08:28 (20)	06:36		07:32 (16)	06:13			05:06			04:38		05:31 (15)
	16:36	27	10:14 (21)	17:46	23	08:51 (20)	18:48	43	08:15 (16)	20:55			21:57			22:34	30	06:01 (15)
22	08:54		09:47 (21)	07:48		08:27 (20)	06:33		07:31 (16)	06:10			05:04			04:38		05:31 (15)
	16:38	27	10:14 (21)	17:49	25	08:52 (20)	18:51	45	08:16 (16)	20:57			21:59			22:34	30	06:01 (15)
23	08:52		09:47 (21)	07:45		08:25 (20)	06:31		07:29 (16)	06:08			05:02			04:38		05:31 (15)
	16:40	28	10:15 (21)	17:51	28	08:53 (20)	18:53	47	08:16 (16)	20:59			22:01			22:34	30	06:01 (15)
24	08:50		09:47 (21)	07:43		08:24 (20)	06:28		07:29 (16)	06:05			05:00			04:39		05:31 (15)
	16:43	28	10:15 (21)	17:53	29	08:53 (20)	18:55	48	08:17 (16)	21:01			22:03			22:34	30	06:01 (15)
25	08:49		09:47 (21)	07:40		08:24 (20)	06:25		07:28 (16)	06:03			04:59			04:39		05:32 (15)
	16:45	28	10:15 (21)	17:56	31	08:55 (20)	18:57	49	08:17 (16)	21:04			22:04			22:34	30	06:02 (15)
26	08:47		09:48 (21)	07:38		08:23 (20)	06:22		06:52 (17)	06:00			04:57			04:39		05:32 (15)
	16:47	27	10:15 (21)	17:58	32	08:55 (20)	18:59	61	08:17 (16)	21:06			22:06			22:34	29	06:01 (15)
27	08:45		09:48 (21)	07:35		08:22 (20)	06:20		06:49 (17)	05:58			04:56			04:40		05:32 (15)
	16:49	28	10:16 (21)	18:00	33	08:55 (20)	19:01	66	08:16 (16)	21:08			22:08			22:34	30	06:02 (15)
28	08:43		09:49 (21)	07:33		08:23 (20)	06:17		06:47 (17)	05:55			04:54		05:40 (15)	04:41		05:32 (15)
	16:51	27	10:16 (21)	18:02	32	08:55 (20)	19:03	72	08:17 (16)	21:10			22:09	3	05:43 (15)	22:34	29	06:01 (15)
29	08:42		09:49 (21)				07:14		07:45 (17)	05:53			04:53		05:37 (15)	04:41		05:33 (15)
	16:54	27	10:16 (21)				20:06	73	09:16 (16)	21:12			22:11	10	05:47 (15)	22:33	29	06:02 (15)
30	08:40		09:50 (21)				07:12		07:44 (17)	05:50			04:52		05:34 (15)	04:42		05:34 (15)
	16:56	26	10:16 (21)				20:08	76	09:16 (16)	21:14			22:13	14	05:48 (15)	22:33	28	06:02 (15)
31	08:38		09:51 (21)				07:09		07:43 (17)				04:50		05:33 (15)			
	16:58	24	10:15 (21)				20:10	76	09:15 (16)				22:14	16	05:49 (15)			
Potential sun hours	231			264			366			428			512			534		
Total, worst case		540			358			1152			816			43			828	
Sun reduction		0.27			0.33			0.46			0.55			0.61			0.57	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.59			0.60			0.60			0.61			0.68			0.68	
Total reduction		0.15			0.19			0.26			0.31			0.39			0.36	
Total, real		82			67			299			256			17			301	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GW - Silnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December		
1	04:43		05:34 (15)	05:30			06:34		07:44 (17)	07:36			07:43			08:47		09:32 (21)
	22:33	29	06:03 (15)	21:50			20:34	47	09:01 (16)	19:11			16:52			15:59	15	09:47 (21)
2	04:44		05:34 (15)	05:32			06:36		07:42 (17)	07:38			07:45			08:48		09:34 (21)
	22:32	28	06:02 (15)	21:47			20:31	54	09:02 (16)	19:09			16:49			15:58	12	09:46 (21)
3	04:44		05:34 (15)	05:34			06:38		07:40 (17)	07:40		09:08 (20)	07:48			08:50		09:35 (21)
	22:31	28	06:02 (15)	21:45			20:28	60	09:04 (16)	19:06	12	09:20 (20)	16:47			15:57	10	09:45 (21)
4	04:45		05:35 (15)	05:36			06:40		07:39 (17)	07:42		09:04 (20)	07:50			08:52		09:37 (21)
	22:31	27	06:02 (15)	21:43			20:25	65	09:05 (16)	19:03	19	09:23 (20)	16:45			15:56	6	09:43 (21)
5	04:46		05:36 (15)	05:38			06:42		07:38 (17)	07:44		09:02 (20)	07:52			08:53		
	22:30	26	06:02 (15)	21:41			20:23	67	09:05 (16)	19:00	22	09:24 (20)	16:43			15:55		
6	04:48		05:36 (15)	05:40			06:44		07:37 (17)	07:46		09:01 (20)	07:54		09:28 (21)	08:55		
	22:29	25	06:01 (15)	21:39			20:20	70	09:06 (16)	18:58	25	09:26 (20)	16:41	11	09:39 (21)	15:55		
7	04:49		05:37 (15)	05:42			06:46		07:36 (17)	07:48		09:00 (20)	07:57		09:26 (21)	08:56		
	22:28	24	06:01 (15)	21:36			20:17	73	09:07 (16)	18:55	27	09:27 (20)	16:38	15	09:41 (21)	15:54		
8	04:50		05:37 (15)	05:44			06:48		07:35 (17)	07:51		08:58 (20)	07:59		09:25 (21)	08:58		
	22:28	24	06:01 (15)	21:34			20:15	75	09:07 (16)	18:52	29	09:27 (20)	16:36	18	09:43 (21)	15:53		
9	04:51		05:38 (15)	05:46			06:50		07:35 (17)	07:53		08:57 (20)	08:01		09:23 (21)	08:59		
	22:27	22	06:00 (15)	21:32			20:12	76	09:07 (16)	18:50	31	09:28 (20)	16:34	21	09:44 (21)	15:53		
10	04:52		05:40 (15)	05:48			06:52		07:35 (17)	07:55		08:56 (20)	08:03		09:23 (21)	09:01		
	22:26	20	06:00 (15)	21:30			20:09	77	09:07 (16)	18:47	32	09:28 (20)	16:32	23	09:46 (21)	15:52		
11	04:54		05:40 (15)	05:50			06:55		07:35 (17)	07:57		08:56 (20)	08:05		09:22 (21)	09:02		
	22:24	20	06:00 (15)	21:27			20:06	77	09:07 (16)	18:44	33	09:29 (20)	16:30	24	09:46 (21)	15:52		
12	04:55		05:41 (15)	05:52			06:57		07:35 (17)	07:59		08:56 (20)	08:08		09:22 (21)	09:03		
	22:23	18	05:59 (15)	21:25			20:04	76	09:07 (16)	18:42	32	09:28 (20)	16:28	25	09:47 (21)	15:52		
13	04:57		05:42 (15)	05:55			06:59		07:35 (17)	08:01		08:55 (20)	08:10		09:21 (21)	09:04		
	22:22	15	05:57 (15)	21:22			20:01	76	09:07 (16)	18:39	33	09:28 (20)	16:26	27	09:48 (21)	15:51		
14	04:58		05:44 (15)	05:57			07:01		07:36 (17)	08:03		08:55 (20)	08:12		09:20 (21)	09:06		
	22:21	12	05:56 (15)	21:20			19:58	74	09:07 (16)	18:36	32	09:27 (20)	16:24	28	09:48 (21)	15:51		
15	05:00		05:46 (15)	05:59			07:03		07:37 (17)	08:05		08:55 (20)	08:14		09:21 (21)	09:07		
	22:19	8	05:54 (15)	21:18			19:55	70	09:06 (16)	18:34	32	09:27 (20)	16:22	28	09:49 (21)	15:51		
16	05:01			06:01			07:05		07:38 (17)	08:08		08:55 (20)	08:16		09:21 (21)	09:08		
	22:18			21:15			19:53	67	09:06 (16)	18:31	32	09:27 (20)	16:21	27	09:48 (21)	15:51		
17	05:03			06:03			07:07		07:40 (17)	08:10		08:55 (20)	08:19		09:21 (21)	09:09		
	22:17			21:13			19:50	63	09:05 (16)	18:29	31	09:26 (20)	16:19	28	09:49 (21)	15:51		
18	05:04			06:05			07:09		08:15 (16)	08:12		08:56 (20)	08:21		09:21 (21)	09:09		
	22:15			21:10			19:47	50	09:05 (16)	18:26	29	09:25 (20)	16:17	28	09:49 (21)	15:51		
19	05:06			06:07			07:11		08:16 (16)	08:14		08:57 (20)	08:23		09:22 (21)	09:10		
	22:14			21:08			19:44	48	09:04 (16)	18:23	27	09:24 (20)	16:15	28	09:50 (21)	15:52		
20	05:08			06:09			07:13		08:16 (16)	08:16		08:58 (20)	08:25		09:22 (21)	09:11		
	22:12			21:05			19:42	47	09:03 (16)	18:21	24	09:22 (20)	16:14	27	09:49 (21)	15:52		
21	05:09			06:11			07:15		08:16 (16)	08:19		08:59 (20)	08:27		09:22 (21)	09:12		
	22:10			21:02			19:39	46	09:02 (16)	18:18	22	09:21 (20)	16:12	27	09:49 (21)	15:52		
22	05:11			06:13			07:17		08:16 (16)	08:21		09:01 (20)	08:29		09:23 (21)	09:12		
	22:09			21:00			19:36	44	09:00 (16)	18:16	18	09:19 (20)	16:11	27	09:50 (21)	15:53		
23	05:13			06:15			07:19		08:17 (16)	08:23		09:03 (20)	08:31		09:24 (21)	09:13		
	22:07			20:57			19:33	42	08:59 (16)	18:13	13	09:16 (20)	16:09	25	09:49 (21)	15:53		
24	05:15			06:17			07:21		08:18 (16)	08:25			08:33		09:24 (21)	09:13		
	22:05			20:55			19:31	39	08:57 (16)	18:11			16:08	25	09:49 (21)	15:54		
25	05:17			06:19			07:23		08:19 (16)	07:27			08:35		09:25 (21)	09:13		
	22:03			20:52			19:28	37	08:56 (16)	17:08			16:06	24	09:49 (21)	15:54		
26	05:19			06:22			07:25		08:20 (16)	07:30			08:37		09:26 (21)	09:14		
	22:01			20:50			19:25	34	08:54 (16)	17:06			16:05	23	09:49 (21)	15:55		
27	05:20			06:24			07:27		08:21 (16)	07:32			08:39		09:27 (21)	09:14		
	22:00			20:47			19:22	30	08:51 (16)	17:04			16:03	21	09:48 (21)	15:56		
28	05:22			06:26			07:30		08:23 (16)	07:34			08:41		09:28 (21)	09:14		
	21:58			20:44			19:20	25	08:48 (16)	17:01			16:02	20	09:48 (21)	15:57		
29	05:24			06:28		08:37 (16)	07:32		08:27 (16)	07:36			08:43		09:29 (21)	09:14		
	21:56			20:42	16	08:53 (16)	19:17	19	08:46 (16)	16:59			16:01	18	09:47 (21)	15:58		
30	05:26			06:30		08:34 (16)	07:34		08:33 (16)	07:39			08:45		09:31 (21)	09:14		
	21:54			20:39	23	08:57 (16)	19:14	6	08:39 (16)	16:56			16:00	17	09:48 (21)	15:59		
31	05:28			06:32		07:47 (17)				07:41						09:14		
	21:52			20:36	37	08:59 (16)				16:54						16:00		
Potential sun hours	534			472			385			322			244			211		
Total, worst case		326			76			1634			555			585			43	
Sun reduction		0.60			0.59			0.50			0.42			0.23			0.23	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.68			0.60			0.61			0.60			0.59			0.59	
Total reduction		0.38			0.33			0.28			0.24			0.13			0.12	
Total, real		125			25			464			132			74			5	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GX - Smiltnieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:34	19:11	16:51	15:58
2	09:14	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:49
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:06	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:42	04:48	05:42	06:46	07:48	07:57	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:42	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:06	09:02
	16:16	17:23	18:27	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:04
	16:18	17:25	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:56	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:16	04:38	04:59	05:58	07:03	08:05	08:14	09:07
	16:24	17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:25	05:15	04:38	05:01	06:00	07:05	08:08	08:17	09:08
	16:26	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:37	05:02	06:03	07:07	08:10	08:19	09:09
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14
	16:44	17:55	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:58	16:01	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:58
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GY - Spridi š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September	October		November		December
1	09:14	08:36		07:30	07:57 (42)	07:06	05:48	04:49	04:42	05:30	06:34	07:36		07:43	08:24 (41)	08:47
	16:01	17:00		18:05	17 08:14 (42)	20:12	21:17	22:16	22:33	21:50	20:34	19:11		16:52	21 08:45 (41)	15:59
2	09:14	08:34	09:05 (41)	07:27	07:55 (42)	07:03	05:45	04:48	04:43	05:32	06:36	07:38		07:45	08:25 (41)	08:49
	16:03	17:03	4 09:09 (41)	18:07	19 08:14 (42)	20:14	21:19	22:17	22:32	21:48	20:31	19:09		16:49	21 08:46 (41)	15:58
3	09:13	08:32	09:03 (41)	07:25	07:55 (42)	07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:24 (41)	08:50
	16:04	17:05	9 09:12 (41)	18:09	20 08:15 (42)	20:16	21:21	22:19	22:32	21:46	20:28	19:06		16:47	21 08:45 (41)	15:57
4	09:13	08:30	09:01 (41)	07:22	07:55 (42)	06:58	05:41	04:45	04:45	05:36	06:40	07:42	08:39 (42)	07:50	08:25 (41)	08:52
	16:05	17:07	12 09:13 (41)	18:11	19 08:14 (42)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	2 08:41 (42)	16:45	20 08:45 (41)	15:56
5	09:12	08:28	08:58 (41)	07:20	07:54 (42)	06:55	05:38	04:44	04:46	05:38	06:42	07:44	08:34 (42)	07:52	08:26 (41)	08:54
	16:07	17:09	16 09:14 (41)	18:13	19 08:13 (42)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	11 08:45 (42)	16:43	18 08:44 (41)	15:55
6	09:12	08:26	08:56 (41)	07:17	07:55 (42)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	08:33 (42)	07:54	08:29 (41)	08:55
	16:08	17:12	19 09:15 (41)	18:16	17 08:12 (42)	20:23	21:27	22:23	22:30	21:39	20:20	18:58	14 08:47 (42)	16:40	15 08:44 (41)	15:54
7	09:11	08:24	08:56 (41)	07:14	07:56 (42)	06:50	05:34	04:43	04:48	05:42	06:46	07:48	08:31 (42)	07:57	08:31 (41)	08:57
	16:10	17:14	20 09:16 (41)	18:18	16 08:12 (42)	20:25	21:29	22:24	22:29	21:37	20:17	18:55	17 08:48 (42)	16:38	12 08:43 (41)	15:54
8	09:10	08:21	08:55 (41)	07:12	07:57 (42)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:30 (42)	07:59	08:34 (41)	08:58
	16:11	17:16	20 09:15 (41)	18:20	13 08:10 (42)	20:27	21:31	22:25	22:28	21:34	20:15	18:52	18 08:48 (42)	16:36	8 08:42 (41)	15:53
9	09:10	08:19	08:55 (41)	07:09	07:59 (42)	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:29 (42)	08:01	08:36 (41)	09:00
	16:13	17:19	21 09:16 (41)	18:22	8 08:07 (42)	20:29	21:34	22:26	22:27	21:32	20:12	18:50	19 08:48 (42)	16:34	4 08:40 (41)	15:53
10	09:09	08:17	08:55 (41)	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:28 (42)	08:03		09:01
	16:15	17:21	20 09:15 (41)	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47	20 08:48 (42)	16:32		15:52
11	09:08	08:15	08:56 (41)	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:29 (42)	08:06		09:02
	16:16	17:23	20 09:16 (41)	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44	19 08:48 (42)	16:30		15:52
12	09:07	08:12	08:55 (41)	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:29 (42)	08:08		09:04
	16:18	17:26	20 09:15 (41)	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42	19 08:48 (42)	16:28		15:51
13	09:06	08:10	08:57 (41)	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:31 (42)	08:10		09:05
	16:20	17:28	18 09:15 (41)	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39	16 08:47 (42)	16:26		15:51
14	09:05	08:08	08:57 (41)	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:33 (42)	08:12		09:06
	16:22	17:30	16 09:13 (41)	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36	12 08:45 (42)	16:24		15:51
15	09:04	08:05	08:59 (41)	06:53		06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:36 (42)	08:14		09:07
	16:24	17:33	13 09:12 (41)	18:35		20:42	21:46	22:31	22:20	21:18	19:55	18:34	8 08:44 (42)	16:22		15:51
16	09:02	08:03	09:01 (41)	06:50		06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:38 (42)	08:17		09:08
	16:26	17:35	8 09:09 (41)	18:38		20:44	21:48	22:32	22:18	21:15	19:53	18:31	4 08:42 (42)	16:20		15:51
17	09:01	08:00		06:47		06:23	05:13	04:38	05:03	06:03	07:07	08:10		08:19		09:09
	16:28	17:37		18:40		20:46	21:50	22:32	22:17	21:13	19:50	18:29		16:19		15:51
18	09:00	07:58		06:44		06:20	05:11	04:38	05:04	06:05	07:09	08:12		08:21		09:10
	16:30	17:40		18:42		20:49	21:52	22:33	22:15	21:10	19:47	18:26		16:17		15:51
19	08:58	07:56		06:42		06:18	05:09	04:37	05:06	06:07	07:11	08:14		08:23		09:10
	16:32	17:42		18:44		20:51	21:54	22:33	22:14	21:08	19:44	18:23		16:15		15:51
20	08:57	07:53		06:39		06:15	05:07	04:38	05:08	06:09	07:13	08:16		08:25		09:11
	16:34	17:44		18:46		20:53	21:56	22:34	22:12	21:05	19:42	18:21		16:14		15:52
21	08:55	07:51		06:36		06:13	05:05	04:38	05:09	06:11	07:15	08:19		08:27		09:12
	16:36	17:46		18:48		20:55	21:57	22:34	22:11	21:03	19:39	18:18		16:12		15:52
22	08:54	07:48		06:33		06:10	05:04	04:38	05:11	06:13	07:17	08:21		08:29		09:12
	16:38	17:49		18:51		20:57	21:59	22:34	22:09	21:00	19:36	18:16		16:10		15:52
23	08:52	07:46		06:31		06:08	05:02	04:38	05:13	06:15	07:19	08:23		08:31		09:13
	16:40	17:51		18:53		20:59	22:01	22:34	22:07	20:57	19:33	18:13		16:09		15:53
24	08:51	07:43		06:28		06:05	05:00	04:38	05:15	06:17	07:21	08:25		08:33		09:13
	16:42	17:53		18:55		21:02	22:03	22:34	22:05	20:55	19:31	18:11		16:07		15:54
25	08:49	07:40		06:25		06:02	04:59	04:39	05:17	06:19	07:23	07:28		08:35		09:14
	16:45	17:56		18:57		21:04	22:05	22:34	22:04	20:52	19:28	17:08		16:06		15:54
26	08:47	07:38	08:05 (42)	06:23		06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:31 (41)	08:37		09:14
	16:47	17:58	6 08:11 (42)	18:59		21:06	22:06	22:34	22:02	20:50	19:25	17:06	10 08:41 (41)	16:05		15:55
27	08:45	07:35	08:02 (42)	06:20		05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:28 (41)	08:39		09:14
	16:49	18:00	10 08:12 (42)	19:01		21:08	22:08	22:34	22:00	20:47	19:22	17:03	14 08:42 (41)	16:03		15:56
28	08:44	07:33	08:00 (42)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:27 (41)	08:41		09:14
	16:51	18:02	14 08:14 (42)	19:03		21:10	22:10	22:34	21:58	20:44	19:20	17:01	17 08:44 (41)	16:02		15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:26 (41)	08:43		09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17	16:59	18 08:44 (41)	16:01		15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:25 (41)	08:45		09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:56	19 08:44 (41)	16:00		15:59
31	08:38			07:09			04:50		05:28	06:32		07:41	08:25 (41)			09:14
	16:58			20:10			22:14		21:52	20:36		16:54	20 08:45 (41)			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385	322		244		211
Total, worst case			266		148								277		140	
Sun reduction			0.33		0.46								0.42		0.23	
Oper. time red.			0.94		0.94								0.94		0.94	
Wind dir. red.			0.59		0.60								0.59		0.59	
Total reduction			0.18		0.26								0.24		0.13	
Total, real			49		38								65		18	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: GZ - Stari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:24 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	19 08:43 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:25 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	16 08:41 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:28 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	11 08:39 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22		06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11		20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20		06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13		20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17		06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16		20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14		06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18		20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20		20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55 09:03 (41)	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47 7	09:10 (41)	16:32	15:52
11	09:08	08:15	07:03		06:39	05:25	04:40	04:54	05:50	06:55	07:57	09:00 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44 14	09:14 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:58 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42 17	09:15 (41)	16:28	15:51
13	09:06	08:10	06:58	07:24 (42)	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:56 (41)	08:10	09:05
	16:20	17:28	18:31	6 07:30 (42)	20:38	21:42	22:30	22:22	21:23	20:01	18:39 20	09:16 (41)	16:26	15:51
14	09:05	08:08	06:55	07:21 (42)	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:55 (41)	08:12	09:06
	16:22	17:30	18:33	11 07:32 (42)	20:40	21:44	22:31	22:21	21:20	19:58	18:36 22	09:17 (41)	16:24	15:51
15	09:04	08:05	06:53	07:18 (42)	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:55 (41)	08:14	09:07
	16:24	17:33	18:35	15 07:33 (42)	20:42	21:46	22:31	22:20	21:18	19:55	18:34 23	09:18 (41)	16:22	15:51
16	09:02	08:03 08:31 (41)	06:50	07:16 (42)	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:54 (41)	08:17	09:08
	16:26	17:35 7 08:38 (41)	18:38	18 07:34 (42)	20:44	21:48	22:32	22:18	21:15	19:53	18:31 24	09:18 (41)	16:20	15:51
17	09:01	08:00 08:29 (41)	06:47	07:14 (42)	06:23	05:13	04:38	05:03	06:03	07:07 08:08 (42)	08:10	08:53 (41)	08:19	09:09
	16:28	17:37 13 08:42 (41)	18:40	21 07:35 (42)	20:46	21:50	22:32	22:17	21:13	19:50 4 08:12 (42)	18:29 25	09:18 (41)	16:19	15:51
18	09:00	07:58 08:26 (41)	06:44	07:13 (42)	06:20	05:11	04:38	05:04	06:05	07:09 08:03 (42)	08:12	08:54 (41)	08:21	09:10
	16:30	17:40 17 08:43 (41)	18:42	22 07:35 (42)	20:49	21:52	22:33	22:15	21:10	19:47 12 08:15 (42)	18:26 24	09:18 (41)	16:17	15:51
19	08:58	07:56 08:25 (41)	06:42	07:12 (42)	06:18	05:09	04:38	05:06	06:07	07:11 08:01 (42)	08:14	08:53 (41)	08:23	09:10
	16:32	17:42 20 08:45 (41)	18:44	22 07:34 (42)	20:51	21:54	22:33	22:14	21:08	19:44 16 08:17 (42)	18:23 24	09:17 (41)	16:15	15:51
20	08:57	07:53 08:24 (41)	06:39	07:13 (42)	06:15	05:07	04:38	05:08	06:09	07:13 08:00 (42)	08:16	08:53 (41)	08:25	09:11
	16:34	17:44 21 08:45 (41)	18:46	22 07:35 (42)	20:53	21:55	22:34	22:12	21:05	19:42 18 08:18 (42)	18:21 24	09:17 (41)	16:14	15:52
21	08:55	07:51 08:23 (41)	06:36	07:13 (42)	06:13	05:05	04:38	05:09	06:11	07:15 07:58 (42)	08:19	08:54 (41)	08:27	09:12
	16:36	17:46 23 08:46 (41)	18:48	21 07:34 (42)	20:55	21:57	22:34	22:11	21:03	19:39 20 08:18 (42)	18:18 23	09:17 (41)	16:12	15:52
22	08:54	07:48 08:23 (41)	06:33	07:12 (42)	06:10	05:04	04:38	05:11	06:13	07:17 07:57 (42)	08:21	08:54 (41)	08:29	09:12
	16:38	17:49 24 08:47 (41)	18:51	21 07:33 (42)	20:57	21:59	22:34	22:09	21:00	19:36 21 08:18 (42)	18:16 21	09:15 (41)	16:10	15:52
23	08:52	07:46 08:22 (41)	06:31	07:13 (42)	06:08	05:02	04:38	05:13	06:15	07:19 07:57 (42)	08:23	08:55 (41)	08:31	09:13
	16:40	17:51 24 08:46 (41)	18:53	18 07:31 (42)	20:59	22:01	22:34	22:07	20:57	19:33 21 08:18 (42)	18:13 19	09:14 (41)	16:09	15:53
24	08:51	07:43 08:21 (41)	06:28	07:14 (42)	06:05	05:00	04:38	05:15	06:17	07:21 07:56 (42)	08:25	08:57 (41)	08:33	09:13
	16:42	17:53 25 08:46 (41)	18:55	17 07:31 (42)	21:02	22:03	22:34	22:05	20:55	19:31 22 08:18 (42)	18:11 16	09:13 (41)	16:07	15:54
25	08:49	07:40 08:22 (41)	06:25	07:15 (42)	06:02	04:59	04:39	05:17	06:19	07:23 07:56 (42)	07:28	07:59 (41)	08:35	09:14
	16:45	17:56 24 08:46 (41)	18:57	13 07:28 (42)	21:04	22:05	22:34	22:04	20:52	19:28 21 08:17 (42)	17:08 12	08:11 (41)	16:06	15:54
26	08:47	07:38 08:22 (41)	06:23	07:18 (42)	06:00	04:57	04:39	05:18	06:21	07:25 07:56 (42)	07:30	08:02 (41)	08:37	09:14
	16:47	17:58 24 08:46 (41)	18:59	7 07:25 (42)	21:06	22:06	22:34	22:02	20:50	19:25 21 08:17 (42)	17:06 6	08:08 (41)	16:05	15:55
27	08:45	07:35 08:22 (41)	06:20		05:58	04:56	04:40	05:20	06:24	07:27 07:56 (42)	07:32		08:39	09:14
	16:49	18:00 23 08:45 (41)	19:01		21:08	22:08	22:34	22:00	20:47	19:22 20 08:16 (42)	17:04		16:03	15:56
28	08:44	07:33 08:23 (41)	06:17		05:55	04:54	04:40	05:22	06:26	07:30 07:59 (42)	07:34		08:41	09:14
	16:51	18:02 21 08:44 (41)	19:03		21:10	22:10	22:34	21:58	20:44	19:20 16 08:15 (42)	17:01		16:02	15:57
29	08:42		07:14		05:53	04:53	04:41	05:24	06:28	07:32 08:01 (42)	07:36		08:43	09:14
	16:53		20:06		21:12	22:11	22:34	21:56	20:42	19:17 12 08:13 (42)	16:59		16:01	15:58
30	08:40		07:12		05:50	04:51	04:42	05:26	06:30	07:34 08:03 (42)	07:39		08:45	09:14
	16:56		20:08		21:14	22:13	22:33	21:54	20:39	19:14 8 08:11 (42)	16:56		16:00	15:59
31	08:38		07:09			04:50		05:28	06:32		07:41			09:14
	16:58		20:10			22:14		21:52	20:36		16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385	322		244	211
Total, worst case		266		280						232		321		
Sun reduction		0.33		0.46						0.50		0.42		
Oper. time red.		0.94		0.94						0.94		0.94		
Wind dir. red.		0.60		0.61						0.62		0.60		
Total reduction		0.19		0.26						0.29		0.24		
Total, real		50		74						67		77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HA - Strautini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:13		10:22 (34)	08:36		14:24 (10)	07:30		08:10 (35)	07:06		05:47	04:48
	16:01	70	15:09 (11)	17:00	41	15:05 (10)	18:04	29	08:39 (35)	20:12		21:16	22:15
2	09:13		10:22 (34)	08:34		14:25 (10)	07:27		08:09 (35)	07:03		05:45	04:47
	16:02	74	15:10 (11)	17:02	40	15:05 (10)	18:06	43	17:25 (9)	20:14		21:18	22:17
3	09:13		10:22 (34)	08:32		14:26 (10)	07:24		08:08 (35)	07:00		05:43	04:46
	16:04	75	15:10 (11)	17:04	39	15:05 (10)	18:09	51	17:28 (9)	20:16		21:20	22:18
4	09:12		10:23 (34)	08:30		14:26 (10)	07:22		08:07 (35)	06:57		05:40	04:45
	16:05	78	15:12 (11)	17:07	38	15:04 (10)	18:11	64	17:41 (8)	20:18		21:23	22:20
5	09:12		10:23 (34)	08:27		14:27 (10)	07:19		08:07 (35)	06:55		05:38	04:44
	16:06	79	15:12 (11)	17:09	37	15:04 (10)	18:13	72	17:44 (8)	20:20		21:25	22:21
6	09:11		10:24 (34)	08:25		14:28 (10)	07:17		08:07 (35)	06:52		05:36	04:43
	16:08	81	15:13 (11)	17:11	35	15:03 (10)	18:15	76	17:46 (8)	20:22		21:27	22:22
7	09:11		10:24 (34)	08:23		14:29 (10)	07:14		08:06 (35)	06:49		05:33	04:42
	16:09	81	15:13 (11)	17:14	33	15:02 (10)	18:18	79	17:47 (8)	20:25		21:29	22:23
8	09:10		10:24 (34)	08:21		14:31 (10)	07:11		08:06 (35)	06:47		05:31	04:41
	16:11	83	15:14 (11)	17:16	30	15:01 (10)	18:20	79	17:47 (8)	20:27		21:31	22:25
9	09:09		10:25 (34)	08:19		14:32 (10)	07:08		08:06 (35)	06:44		05:29	04:41
	16:13	83	15:15 (11)	17:18	27	14:59 (10)	18:22	81	17:48 (8)	20:29		21:33	22:26
10	09:08		10:25 (34)	08:16		14:34 (10)	07:06		08:06 (35)	06:41		05:27	04:40
	16:14	85	15:16 (11)	17:21	24	14:58 (10)	18:24	80	17:48 (8)	20:31		21:35	22:27
11	09:07		10:26 (34)	08:14		14:38 (10)	07:03		08:07 (35)	06:39		05:25	04:39
	16:16	85	15:17 (11)	17:23	18	14:56 (10)	18:26	79	17:48 (8)	20:33		21:37	22:28
12	09:06		10:26 (34)	08:12		14:41 (10)	07:00		08:07 (35)	06:36		05:23	04:39
	16:18	86	15:17 (11)	17:25	10	14:51 (10)	18:29	78	17:47 (8)	20:35		21:39	22:29
13	09:05		10:27 (34)	08:10			06:58		08:08 (35)	06:33		05:20	04:38
	16:20	86	15:18 (11)	17:28			18:31	75	17:47 (8)	20:37		21:41	22:29
14	09:04		10:27 (34)	08:07			06:55		08:09 (35)	06:31		05:18	04:38
	16:22	86	15:18 (11)	17:30			18:33	72	17:46 (8)	20:40		21:43	22:30
15	09:03		10:28 (34)	08:05		08:33 (36)	06:52		08:10 (35)	06:28		05:16	04:38
	16:23	87	15:19 (11)	17:32	7	08:40 (36)	18:35	68	17:45 (8)	20:42		21:45	22:31
16	09:02		10:28 (34)	08:02		08:31 (36)	06:50		08:12 (35)	06:25		05:14	04:37
	16:25	87	15:19 (11)	17:35	12	08:43 (36)	18:37	61	17:43 (8)	20:44		21:47	22:31
17	09:01		10:29 (34)	08:00		08:28 (36)	06:47		08:17 (35)	06:23		05:12	04:37
	16:27	87	15:20 (11)	17:37	16	08:44 (36)	18:39	49	17:41 (8)	20:46		21:49	22:32
18	08:59		10:29 (34)	07:58		08:27 (36)	06:44		17:00 (9)	06:20		05:11	04:37
	16:29	86	15:19 (11)	17:39	19	08:46 (36)	18:42	35	17:37 (8)	20:48		21:51	22:33
19	08:58		10:30 (34)	07:55		08:26 (36)	06:41		17:00 (9)	06:17		05:09	04:37
	16:31	85	15:19 (11)	17:41	20	08:46 (36)	18:44	29	17:29 (9)	20:50		21:53	22:33
20	08:57		10:31 (34)	07:53		08:26 (36)	06:39		17:01 (9)	06:15		05:07	04:37
	16:33	85	15:20 (11)	17:44	21	08:47 (36)	18:46	26	17:27 (9)	20:52		21:55	22:33
21	08:55		10:32 (34)	07:50		08:25 (36)	06:36		17:02 (9)	06:12		05:05	04:37
	16:36	84	15:20 (11)	17:46	22	08:47 (36)	18:48	23	17:25 (9)	20:55		21:57	22:34
22	08:53		10:33 (34)	07:48		08:24 (36)	06:33		17:05 (9)	06:10		05:03	04:37
	16:38	82	15:20 (11)	17:48	23	08:47 (36)	18:50	18	17:23 (9)	20:57		21:59	22:34
23	08:52		10:34 (34)	07:45		08:25 (36)	06:30		17:07 (9)	06:07		05:02	04:38
	16:40	80	15:20 (11)	17:51	22	08:47 (36)	18:52	13	17:20 (9)	20:59		22:01	22:34
24	08:50		10:36 (34)	07:43		08:21 (35)	06:28			06:05		05:00	04:38
	16:42	77	15:20 (11)	17:53	25	08:46 (36)	18:54			21:01		22:02	22:34
25	08:49		10:37 (34)	07:40		08:17 (35)	06:25			06:02		04:58	04:38
	16:44	74	15:19 (11)	17:55	28	08:45 (36)	18:57			21:03		22:04	22:34
26	08:47		10:40 (34)	07:37		08:15 (35)	06:22			06:00		04:57	04:39
	16:46	68	15:19 (11)	17:57	30	08:45 (36)	18:59			21:05		22:06	22:34
27	08:45		14:22 (10)	07:35		08:13 (35)	06:19			05:57		04:55	04:39
	16:49	56	15:18 (11)	18:00	30	08:43 (36)	19:01			21:08		22:08	22:34
28	08:43		14:22 (10)	07:32		08:11 (35)	06:17			05:55		04:54	04:40
	16:51	55	15:17 (11)	18:02	30	08:41 (36)	19:03			21:10		22:09	22:34
29	08:41		14:23 (10)				07:14			05:52		04:52	04:41
	16:53	53	15:16 (11)				20:05			21:12		22:11	22:33
30	08:40		14:23 (10)				07:11			05:50		04:51	04:41
	16:55	50	15:13 (11)				20:07			21:14		22:12	22:33
31	08:38		14:23 (10)				07:08					04:50	
	16:58	42	15:05 (10)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		2370			677			1280					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.67			0.65			0.64					
Total reduction		0.17			0.20			0.27					
Total, real		407			137			350					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HA - Strautini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December		
1	04:42	05:30	06:34		07:35		08:46 (35)		07:43		14:04 (10)		08:46		10:07 (34)
	22:32	21:49	20:33		19:11	77	18:26 (8)		16:51	24	14:28 (10)		15:58	86	14:58 (11)
2	04:43	05:32	06:36		07:38		08:46 (35)		07:45		14:01 (10)		08:48		10:08 (34)
	22:32	21:47	20:31		19:08	79	18:27 (8)		16:49	28	14:29 (10)		15:57	84	14:58 (11)
3	04:44	05:34	06:38		07:40		08:45 (35)		07:47		14:00 (10)		08:50		10:08 (34)
	22:31	21:45	20:28		19:05	79	18:26 (8)		16:47	31	14:31 (10)		15:56	83	14:58 (11)
4	04:45	05:36	06:40		07:42		08:44 (35)		07:50		13:58 (10)		08:52		10:09 (34)
	22:31	21:43	20:25		19:03	81	18:26 (8)		16:44	34	14:32 (10)		15:56	82	14:58 (11)
5	04:46	05:38	06:42		07:44		08:43 (35)		07:52		13:58 (10)		08:53		10:09 (34)
	22:30	21:41	20:22		19:00	81	18:25 (8)		16:42	35	14:33 (10)		15:55	82	14:59 (11)
6	04:47	05:40	06:44		07:46		08:42 (35)		07:54		13:57 (10)		08:55		10:10 (34)
	22:29	21:38	20:20		18:57	79	18:23 (8)		16:40	37	14:34 (10)		15:54	80	14:59 (11)
7	04:48	05:42	06:46		07:48		08:42 (35)		07:56		13:56 (10)		08:56		10:11 (34)
	22:28	21:36	20:17		18:55	77	18:22 (8)		16:38	39	14:35 (10)		15:53	78	14:59 (11)
8	04:49	05:44	06:48		07:50		08:42 (35)		07:59		13:55 (10)		08:58		10:10 (34)
	22:27	21:34	20:14		18:52	75	18:21 (8)		16:36	40	14:35 (10)		15:53	78	14:59 (11)
9	04:51	05:46	06:50		07:52		08:42 (35)		08:01		13:55 (10)		08:59		10:11 (34)
	22:26	21:32	20:12		18:49	69	18:18 (8)		16:34	41	14:36 (10)		15:52	75	14:59 (11)
10	04:52	05:48	06:52		07:54		08:42 (35)		08:03		13:55 (10)		09:01		10:11 (34)
	22:25	21:29	20:09		18:47	56	18:14 (8)		16:32	41	14:36 (10)		15:52	75	14:59 (11)
11	04:53	05:50	06:54		07:57		08:42 (35)		08:05		13:55 (10)		09:02		10:13 (34)
	22:24	21:27	20:06		18:44	47	18:00 (9)		16:30	42	14:37 (10)		15:51	70	14:59 (11)
12	04:55	05:52	06:56		07:59		08:43 (35)		08:07		13:54 (10)		09:03		10:13 (34)
	22:23	21:25	20:03		18:41	39	17:57 (9)		16:28	51	14:45 (11)		15:51	68	14:59 (11)
13	04:56	05:54	06:58		08:01		08:44 (35)		08:10		13:55 (10)		09:04		10:13 (34)
	22:22	21:22	20:01		18:39	29	09:13 (36)		16:26	53	14:48 (11)		15:51	67	14:59 (11)
14	04:58	05:56	07:00		08:03		08:44 (35)		08:12		13:54 (10)		09:05		10:14 (34)
	22:21	21:20	19:58		18:36	31	09:15 (36)		16:24	55	14:49 (11)		15:51	66	15:00 (11)
15	04:59	05:58	07:02		08:05		08:45 (35)		08:14		10:18 (34)		09:06		10:15 (34)
	22:19	21:17	19:55		18:33	31	09:16 (36)		16:22	57	14:51 (11)		15:51	63	15:00 (11)
16	05:01	06:00	07:04		08:07		08:48 (35)		08:16		10:13 (34)		09:07		10:15 (34)
	22:18	21:15	19:52		18:31	29	09:17 (36)		16:20	68	14:52 (11)		15:51	60	15:00 (11)
17	05:02	06:02	07:06		08:10		08:50 (35)		08:18		10:11 (34)		09:08		10:16 (34)
	22:16	21:12	19:50		18:28	28	09:18 (36)		16:18	74	14:53 (11)		15:51	60	15:00 (11)
18	05:04	06:04	07:08		08:12		08:56 (36)		08:21		10:09 (34)		09:09		10:17 (34)
	22:15	21:10	19:47		18:26	21	09:17 (36)		16:17	78	14:54 (11)		15:51	58	15:01 (11)
19	05:06	06:07	07:11		08:14		08:56 (36)		08:23		10:09 (34)		09:10		10:16 (34)
	22:13	21:07	19:44		18:23	22	09:18 (36)		16:15	80	14:55 (11)		15:51	57	15:00 (11)
20	05:07	06:09	07:13	17:55 (9)	08:16		08:56 (36)		08:25		10:08 (34)		09:11		10:17 (34)
	22:12	21:05	19:41	10 18:05 (9)	18:20	22	09:18 (36)		16:13	82	14:55 (11)		15:51	57	15:01 (11)
21	05:09	06:11	07:15	17:51 (9)	08:18		08:55 (36)		08:27		10:07 (34)		09:11		10:18 (34)
	22:10	21:02	19:38	17 18:08 (9)	18:18	22	09:17 (36)		16:12	84	14:55 (11)		15:52	56	15:02 (11)
22	05:11	06:13	07:17	17:48 (9)	08:20		08:56 (36)		08:29		10:07 (34)		09:12		10:18 (34)
	22:08	21:00	19:36	22 18:10 (9)	18:15	21	09:17 (36)		16:10	85	14:56 (11)		15:52	56	15:02 (11)
23	05:13	06:15	07:19	17:46 (9)	08:23		08:56 (36)		08:31		10:07 (34)		09:12		10:18 (34)
	22:07	20:57	19:33	25 18:11 (9)	18:13	20	09:16 (36)		16:08	85	14:56 (11)		15:53	57	15:02 (11)
24	05:14	06:17	07:21	17:44 (9)	08:25		08:56 (36)		08:33		10:06 (34)		09:13		10:19 (34)
	22:05	20:54	19:30	28 18:12 (9)	18:10	19	09:15 (36)		16:07	87	14:57 (11)		15:53	57	15:03 (11)
25	05:16	06:19	07:23	17:43 (9)	07:27		07:59 (36)		08:35		10:07 (34)		09:13		10:19 (34)
	22:03	20:52	19:27	30 18:13 (9)	17:08	15	08:14 (36)		16:06	87	14:58 (11)		15:54	59	15:04 (11)
26	05:18	06:21	07:25	17:41 (9)	07:29		08:01 (36)		08:37		10:07 (34)		09:13		10:20 (34)
	22:01	20:49	19:25	41 18:22 (8)	17:06	11	08:12 (36)		16:04	87	14:58 (11)		15:55	59	15:04 (11)
27	05:20	06:23	07:27	08:55 (35)	07:32		08:04 (36)		08:39		10:07 (34)		09:14		10:20 (34)
	21:59	20:47	19:22	58 18:24 (8)	17:03	6	08:10 (36)		16:03	87	14:58 (11)		15:55	61	15:05 (11)
28	05:22	06:25	07:29	08:52 (35)	07:34				08:41		10:07 (34)		09:14		10:21 (34)
	21:57	20:44	19:19	65 18:25 (8)	17:01				16:02	86	14:58 (11)		15:56	62	15:06 (11)
29	05:24	06:27	07:31	08:50 (35)	07:36				08:43		10:07 (34)		09:14		10:21 (34)
	21:55	20:41	19:16	71 18:26 (8)	16:58				16:01	86	14:58 (11)		15:57	64	15:07 (11)
30	05:26	06:29	07:33	08:48 (35)	07:38		14:10 (10)		08:45		10:07 (34)		09:14		10:22 (34)
	21:53	20:39	19:14	74 18:26 (8)	16:56	12	14:22 (10)		15:59	86	14:58 (11)		15:58	67	15:08 (11)
31	05:28	06:31			07:41		14:06 (10)						09:14		10:21 (34)
	21:51	20:36			16:54	19	14:25 (10)						15:59	69	15:08 (11)
Potential sun hours	534	472	385		322				244				211		
Total, worst case				441		1197				1850				2096	
Sun reduction				0.50		0.42				0.23				0.23	
Oper. time red.				0.94		0.94				0.94				0.94	
Wind dir. red.				0.65		0.62				0.67				0.65	
Total reduction				0.30		0.25				0.15				0.14	
Total, real				133		297				269				291	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HB - Strazdi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April		May	June	July	August		September		October	November	December
1	09:14	08:36	07:30	07:06		05:48	04:49	04:43	05:30		06:34	07:04 (41)	07:36	07:43	08:47
	16:01	17:00	18:05	20:12		21:17	22:16	22:33	21:50		20:34 16	07:20 (41)	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03		05:45	04:48	04:43	05:32		06:36	07:06 (41)	07:38	07:45	08:49
	16:03	17:03	18:07	20:14		21:19	22:17	22:32	21:48		20:31 13	07:19 (41)	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01		05:43	04:47	04:44	05:34		06:38	07:08 (41)	07:40	07:48	08:50
	16:04	17:05	18:09	20:16		21:21	22:19	22:32	21:45		20:28 10	07:18 (41)	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58		05:41	04:46	04:45	05:36		06:40	07:10 (41)	07:42	07:50	08:52
	16:05	17:07	18:11	20:18		21:23	22:20	22:31	21:43		20:26 5	07:15 (41)	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55		05:38	04:45	04:46	05:38		06:42		07:44	07:52	08:54
	16:07	17:10	18:14	20:21		21:25	22:21	22:30	21:41		20:23		19:01	16:43	15:55
6	09:12	08:26	07:17	06:52		05:36	04:44	04:47	05:40		06:44		07:46	07:54	08:55
	16:08	17:12	18:16	20:23		21:27	22:23	22:30	21:39		20:20		18:58	16:41	15:54
7	09:11	08:23	07:14	06:50		05:34	04:43	04:49	05:42		06:46		07:48	07:57	08:57
	16:10	17:14	18:18	20:25		21:29	22:24	22:29	21:37		20:17		18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	07:13 (41)	05:32	04:42	04:50	05:44		06:48		07:51	07:59	08:58
	16:11	17:17	18:20	20:27 5	07:18 (41)	21:31	22:25	22:28	21:34		20:15		18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	07:10 (41)	05:29	04:41	04:51	05:46		06:50		07:53	08:01	09:00
	16:13	17:19	18:22	20:29 10	07:20 (41)	21:33	22:26	22:27	21:32		20:12		18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	07:08 (41)	05:27	04:41	04:52	05:48		06:53		07:55	08:03	09:01
	16:15	17:21	18:25	20:31 13	07:21 (41)	21:36	22:27	22:26	21:30		20:09		18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	07:05 (41)	05:25	04:40	04:54	05:50		06:55		07:57	08:06	09:02
	16:17	17:23	18:27	20:34 16	07:21 (41)	21:38	22:28	22:25	21:27		20:06		18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	07:02 (41)	05:23	04:39	04:55	05:52		06:57		07:59	08:08	09:03
	16:18	17:26	18:29	20:36 19	07:21 (41)	21:40	22:29	22:23	21:25		20:04		18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	07:02 (41)	05:21	04:39	04:57	05:55		06:59		08:01	08:10	09:05
	16:20	17:28	18:31	20:38 20	07:22 (41)	21:42	22:30	22:22	21:23		20:01		18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	07:01 (41)	05:19	04:39	04:58	05:57		07:01		08:03	08:12	09:06
	16:22	17:30	18:33	20:40 20	07:21 (41)	21:44	22:30	22:21	21:20		19:58		18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	07:02 (41)	05:17	04:38	05:00	05:59		07:03		08:06	08:14	09:07
	16:24	17:33	18:35	20:42 19	07:21 (41)	21:46	22:31	22:20	21:18		19:55		18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	07:01 (41)	05:15	04:38	05:01	06:01		07:05		08:08	08:17	09:08
	16:26	17:35	18:38	20:44 19	07:20 (41)	21:48	22:32	22:18	21:15		19:53		18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	07:02 (41)	05:13	04:38	05:03	06:03		07:07		08:10	08:19	09:09
	16:28	17:37	18:40	20:46 18	07:20 (41)	21:50	22:32	22:17	21:13		19:50		18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	07:02 (41)	05:11	04:38	05:04	06:05		07:09		08:12	08:21	09:10
	16:30	17:40	18:42	20:49 16	07:18 (41)	21:52	22:33	22:15	21:10		19:47		18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	07:04 (41)	05:09	04:38	05:06	06:07		07:11		08:14	08:23	09:10
	16:32	17:42	18:44	20:51 13	07:17 (41)	21:54	22:33	22:14	21:08		19:44		18:24	16:15	15:51
20	08:57	07:53	06:39	06:15	07:05 (41)	05:07	04:38	05:08	06:09		07:13		08:16	08:25	09:11
	16:34	17:44	18:46	20:53 9	07:14 (41)	21:55	22:34	22:12	21:05		19:42		18:21	16:14	15:52
21	08:55	07:51	06:36	06:13		05:06	04:38	05:09	06:11		07:15		08:19	08:27	09:12
	16:36	17:46	18:48	20:55		21:57	22:34	22:11	21:03		19:39		18:18	16:12	15:52
22	08:54	07:48	06:34	06:10		05:04	04:38	05:11	06:13		07:17		08:21	08:29	09:12
	16:38	17:49	18:51	20:57		21:59	22:34	22:09	21:00		19:36		18:16	16:10	15:53
23	08:52	07:46	06:31	06:08		05:02	04:38	05:13	06:15		07:19		08:23	08:31	09:13
	16:40	17:51	18:53	20:59		22:01	22:34	22:07	20:57 10	07:20 (41)	19:33		18:13	16:09	15:53
24	08:51	07:43	06:28	06:05		05:00	04:38	05:15	06:17	07:06 (41)	07:21		08:25	08:33	09:13
	16:42	17:53	18:55	21:02		22:03	22:34	22:05	20:55 14	07:20 (41)	19:31		18:11	16:08	15:54
25	08:49	07:40	06:25	06:03		04:59	04:39	05:17	06:19	07:05 (41)	07:23		07:28	08:35	09:14
	16:45	17:56	18:57	21:04		22:05	22:34	22:04	20:52 16	07:21 (41)	19:28		17:08	16:06	15:54
26	08:47	07:38	06:23	06:00		04:57	04:39	05:19	06:22	07:04 (41)	07:25		07:30	08:37	09:14
	16:47	17:58	18:59	21:06		22:06	22:34	22:02	20:50 18	07:22 (41)	19:25		17:06	16:05	15:55
27	08:45	07:35	06:20	05:58		04:56	04:40	05:20	06:24	07:03 (41)	07:28		07:32	08:39	09:14
	16:49	18:00	19:01	21:08		22:08	22:34	22:00	20:47 19	07:22 (41)	19:22		17:04	16:03	15:56
28	08:44	07:33	06:17	05:55		04:54	04:40	05:22	06:26	07:03 (41)	07:30		07:34	08:41	09:14
	16:51	18:02	19:03	21:10		22:10	22:34	21:58	20:44 19	07:22 (41)	19:20		17:01	16:02	15:57
29	08:42		07:14	05:53		04:53	04:41	05:24	06:28	07:02 (41)	07:32		07:36	08:43	09:14
	16:54		20:06	21:12		22:11	22:34	21:56	20:42 20	07:22 (41)	19:17		16:59	16:01	15:58
30	08:40		07:12	05:50		04:52	04:42	05:26	06:30	07:02 (41)	07:34		07:39	08:45	09:14
	16:56		20:08	21:14		22:13	22:33	21:54	20:39 20	07:22 (41)	19:14		16:56	16:00	15:59
31	08:38		07:09			04:50		05:28	06:32	07:02 (41)			07:41		09:14
	16:58		20:10			22:14		21:52	20:36 19	07:21 (41)			16:54		16:00
Potential sun hours	231	264	366	428		512	534	534	472		385		322	244	211
Total, worst case					197					155		44			
Sun reduction					0.55					0.59		0.50			
Oper. time red.					0.94					0.94		0.94			
Wind dir. red.					0.64					0.64		0.64			
Total reduction					0.33					0.35		0.30			
Total, real					65					55		13			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HC - Strazdini A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:44	08:48
	16:02	17:02	18:06	20:13	21:18	22:16	22:31	21:47	20:30	19:08	16:49	15:57
3	09:12	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:49
	16:03	17:04	18:08	20:15	21:20	22:18	22:31	21:45	20:27	19:05	16:46	15:56
4	09:12	08:29	07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:10	20:18	21:22	22:19	22:30	21:42	20:25	19:02	16:44	15:55
5	09:11	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:43	07:51	08:53
	16:06	17:09	18:13	20:20	21:24	22:20	22:29	21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:43	07:45	07:53	08:54
	16:08	17:11	18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40	15:54
7	09:10	08:23	07:13	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56
	16:09	17:13	18:17	20:24	21:28	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:09	08:20	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:57
	16:11	17:16	18:19	20:26	21:30	22:24	22:27	21:33	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:00	08:59
	16:12	17:18	18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52
10	09:08	08:16	07:05	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:02	09:00
	16:14	17:20	18:24	20:30	21:35	22:26	22:25	21:29	20:08	18:46	16:31	15:52
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:01
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:26	20:06	18:44	16:29	15:51
12	09:06	08:11	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:02
	16:18	17:25	18:28	20:35	21:39	22:28	22:22	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:00	08:09	09:04
	16:19	17:27	18:30	20:37	21:41	22:29	22:21	21:22	20:00	18:38	16:25	15:51
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11	09:05
	16:21	17:30	18:32	20:39	21:43	22:29	22:20	21:19	19:57	18:36	16:24	15:50
15	09:03	08:04	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:13	09:06
	16:23	17:32	18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22	15:50
16	09:01	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:43	21:47	22:31	22:17	21:14	19:52	18:30	16:20	15:50
17	09:00	08:00	06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:31	22:16	21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:14	21:09	19:46	18:25	16:16	15:51
19	08:57	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:13	08:22	09:09
	16:31	17:41	18:43	20:50	21:53	22:32	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24	09:10
	16:33	17:43	18:45	20:52	21:54	22:33	22:11	21:04	19:41	18:20	16:13	15:51
21	08:54	07:50	06:35	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:26	09:11
	16:35	17:46	18:48	20:54	21:56	22:33	22:10	21:02	19:38	18:18	16:11	15:51
22	08:53	07:47	06:33	06:09	05:03	04:37	05:11	06:12	07:16	08:20	08:28	09:11
	16:37	17:48	18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	15:52
23	08:51	07:45	06:30	06:07	05:01	04:38	05:12	06:15	07:18	08:22	08:30	09:12
	16:40	17:50	18:52	20:58	22:00	22:33	22:06	20:57	19:33	18:13	16:08	15:52
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:20	08:24	08:32	09:12
	16:42	17:53	18:54	21:01	22:02	22:33	22:04	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:24	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:34	09:13
	16:44	17:55	18:56	21:03	22:04	22:33	22:03	20:51	19:27	17:08	16:05	15:54
26	08:46	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:36	09:13
	16:46	17:57	18:58	21:05	22:05	22:33	22:01	20:49	19:24	17:05	16:04	15:54
27	08:44	07:34	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:38	09:13
	16:48	17:59	19:00	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:33	08:40	09:13
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:43	19:19	17:00	16:01	15:56
29	08:41		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:42	09:13
	16:53		20:05	21:11	22:10	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:13
	16:55		20:07	21:13	22:12	22:32	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:50		05:27	06:31		07:40		09:13
	16:57		20:09		22:13		21:51	20:35		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HD - Strazdini B
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May	June
1	09:14		08:36	09:12 (41)	07:30	08:05 (42)	07:06	05:48	04:49
	16:01		17:00 21	09:33 (41)	18:05 21	08:26 (42)	20:12	21:17	22:16
2	09:14		08:34	09:11 (41)	07:27	08:04 (42)	07:03	05:45	04:48
	16:03		17:03 22	09:33 (41)	18:07 22	08:26 (42)	20:14	21:19	22:17
3	09:13		08:32	09:11 (41)	07:25	08:05 (42)	07:01	05:43	04:47
	16:04		17:05 22	09:33 (41)	18:09 21	08:26 (42)	20:16	21:21	22:19
4	09:13		08:30	09:11 (41)	07:22	08:06 (42)	06:58	05:41	04:45
	16:05		17:07 23	09:34 (41)	18:11 18	08:24 (42)	20:18	21:23	22:20
5	09:12		08:28	09:11 (41)	07:20	08:06 (42)	06:55	05:38	04:44
	16:07		17:09 22	09:33 (41)	18:13 17	08:23 (42)	20:21	21:25	22:21
6	09:12		08:26	09:11 (41)	07:17	08:07 (42)	06:52	05:36	04:44
	16:08		17:12 23	09:34 (41)	18:16 14	08:21 (42)	20:23	21:27	22:23
7	09:11		08:24	09:12 (41)	07:14	08:10 (42)	06:50	05:34	04:43
	16:10		17:14 22	09:34 (41)	18:18 9	08:19 (42)	20:25	21:29	22:24
8	09:10		08:21	09:12 (41)	07:12		06:47	05:32	04:42
	16:11		17:16 21	09:33 (41)	18:20		20:27	21:31	22:25
9	09:10		08:19	09:14 (41)	07:09		06:44	05:29	04:41
	16:13		17:19 18	09:32 (41)	18:22		20:29	21:33	22:26
10	09:09		08:17	09:14 (41)	07:06		06:42	05:27	04:40
	16:15		17:21 17	09:31 (41)	18:25		20:31	21:36	22:27
11	09:08		08:15	09:16 (41)	07:03		06:39	05:25	04:40
	16:16		17:23 14	09:30 (41)	18:27		20:34	21:38	22:28
12	09:07		08:12	09:18 (41)	07:01		06:36	05:23	04:39
	16:18		17:26 9	09:27 (41)	18:29		20:36	21:40	22:29
13	09:06		08:10		06:58		06:34	05:21	04:39
	16:20		17:28		18:31		20:38	21:42	22:30
14	09:05		08:08		06:55		06:31	05:19	04:38
	16:22		17:30		18:33		20:40	21:44	22:31
15	09:04		08:05		06:53		06:28	05:17	04:38
	16:24		17:33		18:35		20:42	21:46	22:31
16	09:02		08:03		06:50		06:26	05:15	04:38
	16:26		17:35		18:38		20:44	21:48	22:32
17	09:01		08:00		06:47		06:23	05:13	04:38
	16:28		17:37		18:40		20:46	21:50	22:32
18	09:00		07:58		06:44		06:20	05:11	04:38
	16:30		17:40		18:42		20:49	21:52	22:33
19	08:58		07:56		06:42		06:18	05:09	04:37
	16:32		17:42		18:44		20:51	21:54	22:33
20	08:57		07:53		06:39		06:15	05:07	04:37
	16:34		17:44		18:46		20:53	21:55	22:34
21	08:55		07:51		06:36		06:13	05:05	04:38
	16:36		17:46		18:48		20:55	21:57	22:34
22	08:54		07:48	08:16 (42)	06:33		06:10	05:04	04:38
	16:38		17:49 5	08:21 (42)	18:51		20:57	21:59	22:34
23	08:52		07:46	08:13 (42)	06:31		06:08	05:02	04:38
	16:40		17:51 10	08:23 (42)	18:53		20:59	22:01	22:34
24	08:51		07:43	08:10 (42)	06:28		06:05	05:00	04:38
	16:42		17:53 14	08:24 (42)	18:55		21:02	22:03	22:34
25	08:49		07:40	08:08 (42)	06:25		06:02	04:59	04:39
	16:45		17:56 18	08:26 (42)	18:57		21:04	22:05	22:34
26	08:47	09:21 (41)	07:38	08:06 (42)	06:22		06:00	04:57	04:39
	16:47 5	09:26 (41)	17:58 20	08:26 (42)	18:59		21:06	22:06	22:34
27	08:45	09:18 (41)	07:35	08:05 (42)	06:20		05:57	04:56	04:40
	16:49 9	09:27 (41)	18:00 21	08:26 (42)	19:01		21:08	22:08	22:34
28	08:44	09:16 (41)	07:33	08:05 (42)	06:17		05:55	04:54	04:40
	16:51 13	09:29 (41)	18:02 22	08:27 (42)	19:03		21:10	22:10	22:34
29	08:42	09:14 (41)			07:14		05:53	04:53	04:41
	16:53 16	09:30 (41)			20:06		21:12	22:11	22:34
30	08:40	09:12 (41)			07:12		05:50	04:51	04:42
	16:56 19	09:31 (41)			20:08		21:14	22:13	22:33
31	08:38	09:12 (41)			07:09			04:50	
	16:58 20	09:32 (41)			20:10			22:14	
Potential sun hours	231		264		366		428	512	534
Total, worst case	82		344		122				
Sun reduction	0.28		0.33		0.46				
Oper. time red.	0.94		0.94		0.94				
Wind dir. red.	0.58		0.58		0.60				
Total reduction	0.15		0.18		0.26				
Total, real	12		63		31				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HD - Strazdini B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December
1	04:42	05:30	06:34	07:36			07:43		08:44 (41)	08:47
	22:33	21:50	20:34	19:11			16:52	17	09:01 (41)	15:59
2	04:43	05:32	06:36	07:38			07:45		08:43 (41)	08:49
	22:32	21:48	20:31	19:09			16:49	19	09:02 (41)	15:58
3	04:44	05:34	06:38	07:40			07:48		08:42 (41)	08:50
	22:32	21:45	20:28	19:06			16:47	20	09:02 (41)	15:57
4	04:45	05:36	06:40	07:42			07:50		08:42 (41)	08:52
	22:31	21:43	20:26	19:03			16:45	21	09:03 (41)	15:56
5	04:46	05:38	06:42	07:44			07:52		08:41 (41)	08:54
	22:30	21:41	20:23	19:00			16:43	22	09:03 (41)	15:55
6	04:47	05:40	06:44	07:46		08:49 (42)	07:54		08:41 (41)	08:55
	22:30	21:39	20:20	18:58	3	08:52 (42)	16:40	23	09:04 (41)	15:54
7	04:48	05:42	06:46	07:48		08:45 (42)	07:57		08:41 (41)	08:57
	22:29	21:37	20:17	18:55	11	08:56 (42)	16:38	23	09:04 (41)	15:54
8	04:50	05:44	06:48	07:51		08:42 (42)	07:59		08:42 (41)	08:58
	22:28	21:34	20:15	18:52	15	08:57 (42)	16:36	22	09:04 (41)	15:53
9	04:51	05:46	06:50	07:53		08:40 (42)	08:01		08:41 (41)	09:00
	22:27	21:32	20:12	18:50	18	08:58 (42)	16:34	23	09:04 (41)	15:53
10	04:52	05:48	06:52	07:55		08:39 (42)	08:03		08:42 (41)	09:01
	22:26	21:30	20:09	18:47	20	08:59 (42)	16:32	22	09:04 (41)	15:52
11	04:54	05:50	06:54	07:57		08:39 (42)	08:06		08:42 (41)	09:02
	22:25	21:27	20:06	18:44	21	09:00 (42)	16:30	21	09:03 (41)	15:52
12	04:55	05:52	06:57	07:59		08:38 (42)	08:08		08:44 (41)	09:04
	22:24	21:25	20:04	18:42	22	09:00 (42)	16:28	19	09:03 (41)	15:51
13	04:56	05:54	06:59	08:01		08:37 (42)	08:10		08:46 (41)	09:05
	22:22	21:23	20:01	18:39	22	08:59 (42)	16:26	16	09:02 (41)	15:51
14	04:58	05:57	07:01	08:03		08:37 (42)	08:12		08:49 (41)	09:06
	22:21	21:20	19:58	18:36	22	08:59 (42)	16:24	13	09:02 (41)	15:51
15	04:59	05:59	07:03	08:06		08:38 (42)	08:14		08:51 (41)	09:07
	22:20	21:18	19:55	18:34	21	08:59 (42)	16:22	9	09:00 (41)	15:51
16	05:01	06:01	07:05	08:08		08:38 (42)	08:17		08:54 (41)	09:08
	22:18	21:15	19:53	18:31	20	08:58 (42)	16:20	5	08:59 (41)	15:51
17	05:03	06:03	07:07	08:10		08:40 (42)	08:19			09:09
	22:17	21:13	19:50	18:29	16	08:56 (42)	16:19			15:51
18	05:04	06:05	07:09	08:12		08:43 (42)	08:21			09:10
	22:15	21:10	19:47	18:26	13	08:56 (42)	16:17			15:51
19	05:06	06:07	07:11	08:14		08:45 (42)	08:23			09:10
	22:14	21:08	19:44	18:23	9	08:54 (42)	16:15			15:51
20	05:08	06:09	07:13	08:16		08:47 (42)	08:25			09:11
	22:12	21:05	19:42	18:21	3	08:50 (42)	16:14			15:52
21	05:09	06:11	07:15	08:19			08:27			09:12
	22:11	21:03	19:39	18:18			16:12			15:52
22	05:11	06:13	07:17	08:21			08:29			09:12
	22:09	21:00	19:36	18:16			16:10			15:52
23	05:13	06:15	07:19	08:23			08:31			09:13
	22:07	20:57	19:33	18:13			16:09			15:53
24	05:15	06:17	07:21	08:25			08:33			09:13
	22:05	20:55	19:31	18:11			16:07			15:54
25	05:17	06:19	07:23	07:28			08:35			09:14
	22:04	20:52	19:28	17:08			16:06			15:54
26	05:18	06:21	07:25	07:30			08:37			09:14
	22:02	20:50	19:25	17:06			16:05			15:55
27	05:20	06:24	07:27	07:32			08:39			09:14
	22:00	20:47	19:22	17:03			16:03			15:56
28	05:22	06:26	07:30	07:34			08:41			09:14
	21:58	20:44	19:20	17:01			16:02			15:57
29	05:24	06:28	07:32	07:36			08:43			09:14
	21:56	20:42	19:17	16:59			16:01			15:58
30	05:26	06:30	07:34	07:39		08:47 (41)	08:45			09:14
	21:54	20:39	19:14	16:56	10	08:57 (41)	16:00			15:59
31	05:28	06:32		07:41		08:45 (41)				09:14
	21:52	20:36		16:54	15	09:00 (41)				16:00
Potential sun hours	534	472	385	322			244			211
Total, worst case					261			295		
Sun reduction					0.42			0.23		
Oper. time red.					0.94			0.94		
Wind dir. red.					0.60			0.58		
Total reduction					0.24			0.12		
Total, real					62			37		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HE - Sturi š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HF - Svires

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May			June		
1	09:14			08:36		09:08 (16)	07:30			07:06		08:01 (15)	05:48		07:01 (3)	04:49		05:24 (41)
	16:02			17:00	11	09:19 (16)	18:05			20:12	17	08:18 (15)	21:16	7	07:08 (3)	22:16	16	05:40 (41)
2	09:13			08:34		09:06 (16)	07:27			07:03		08:03 (15)	05:45			04:48		05:23 (41)
	16:03			17:03	14	09:20 (16)	18:07			20:14	12	08:15 (15)	21:19			22:17	18	05:41 (41)
3	09:13			08:32		09:05 (16)	07:25			07:01		08:07 (15)	05:43			04:47		05:23 (41)
	16:04			17:05	17	09:22 (16)	18:09			20:16	3	08:10 (15)	21:21			22:19	19	05:42 (41)
4	09:13			08:30		09:04 (16)	07:22			06:58			05:41			04:46		05:22 (41)
	16:05			17:07	19	09:23 (16)	18:11			20:18			21:23			22:20	20	05:42 (41)
5	09:12			08:28		09:03 (16)	07:20			06:55			05:38			04:45		05:22 (41)
	16:07			17:10	21	09:24 (16)	18:14			20:21			21:25			22:21	20	05:42 (41)
6	09:12			08:26		09:02 (16)	07:17			06:52			05:36			04:44		05:22 (41)
	16:08			17:12	23	09:25 (16)	18:16			20:23			21:27			22:23	20	05:42 (41)
7	09:11			08:23		09:02 (16)	07:14			06:50			05:34			04:43		05:22 (41)
	16:10			17:14	24	09:26 (16)	18:18			20:25			21:29			22:24	21	05:43 (41)
8	09:10			08:21		09:02 (16)	07:12			06:47			05:32			04:42		05:22 (41)
	16:12			17:17	23	09:25 (16)	18:20			20:27			21:31			22:25	21	05:43 (41)
9	09:09			08:19		09:02 (16)	07:09			06:44			05:29			04:41		05:22 (41)
	16:13			17:19	24	09:26 (16)	18:22			20:29			21:33			22:26	21	05:43 (41)
10	09:09			08:17		09:02 (16)	07:06			06:42			05:27			04:41		05:23 (41)
	16:15			17:21	24	09:26 (16)	18:25			20:31			21:35			22:27	21	05:44 (41)
11	09:08			08:15		09:02 (16)	07:03			06:39			05:25			04:40		05:22 (41)
	16:17			17:23	24	09:26 (16)	18:27			20:33			21:38			22:28	21	05:43 (41)
12	09:07			08:12		09:02 (16)	07:01			06:36		07:07 (3)	05:23			04:39		05:23 (41)
	16:18			17:26	23	09:25 (16)	18:29			20:36	3	07:10 (3)	21:40			22:29	21	05:44 (41)
13	09:06			08:10		09:03 (16)	06:58			06:34		07:03 (3)	05:21			04:39		05:23 (41)
	16:20			17:28	22	09:25 (16)	18:31			20:38	12	07:15 (3)	21:42			22:30	21	05:44 (41)
14	09:05			08:08		09:03 (16)	06:55			06:31		07:00 (3)	05:19			04:39		05:24 (41)
	16:22			17:30	21	09:24 (16)	18:33			20:40	17	07:17 (3)	21:44			22:30	21	05:45 (41)
15	09:03			08:05		09:05 (16)	06:53			06:28		06:59 (3)	05:17			04:38		05:23 (41)
	16:24			17:33	18	09:23 (16)	18:35			20:42	20	07:19 (3)	21:46			22:31	21	05:44 (41)
16	09:02			08:03		09:06 (16)	06:50			06:26		06:57 (3)	05:15			04:38		05:23 (41)
	16:26			17:35	16	09:22 (16)	18:38			20:44	22	07:19 (3)	21:48			22:32	22	05:45 (41)
17	09:01			08:00		09:08 (16)	06:47			06:23		06:56 (3)	05:13			04:38		05:24 (41)
	16:28			17:37	12	09:20 (16)	18:40			20:46	24	07:20 (3)	21:50			22:32	21	05:45 (41)
18	09:00			07:58		09:12 (16)	06:44			06:20		06:55 (3)	05:11			04:38		05:24 (41)
	16:30			17:40	3	09:15 (16)	18:42			20:49	25	07:20 (3)	21:52			22:33	21	05:45 (41)
19	08:58			07:55			06:42		07:09 (15)	06:18		06:55 (3)	05:09			04:38		05:24 (41)
	16:32			17:42			18:44	9	07:18 (15)	20:51	26	07:21 (3)	21:53			22:33	21	05:45 (41)
20	08:57			07:53			06:39		07:06 (15)	06:15		06:54 (3)	05:07			04:38		05:24 (41)
	16:34			17:44			18:46	15	07:21 (15)	20:53	26	07:20 (3)	21:55			22:34	21	05:45 (41)
21	08:55			07:51			06:36		07:04 (15)	06:13		06:54 (3)	05:06			04:38		05:25 (41)
	16:36			17:46			18:48	18	07:22 (15)	20:55	27	07:21 (3)	21:57			22:34	21	05:46 (41)
22	08:54			07:48			06:34		07:02 (15)	06:10		06:53 (3)	05:04			04:38		05:25 (41)
	16:38			17:49			18:51	21	07:23 (15)	20:57	27	07:20 (3)	21:59			22:34	21	05:46 (41)
23	08:52			07:46			06:31		07:01 (15)	06:08		06:53 (3)	05:02			04:38		05:25 (41)
	16:40			17:51			18:53	22	07:23 (15)	20:59	27	07:20 (3)	22:01			22:34	21	05:46 (41)
24	08:51			07:43			06:28		07:01 (15)	06:05		06:53 (3)	05:00			04:39		05:25 (41)
	16:43			17:53			18:55	23	07:24 (15)	21:01	26	07:19 (3)	22:03			22:34	21	05:46 (41)
25	08:49			07:40			06:25		07:00 (15)	06:03		06:54 (3)	04:59		05:33 (41)	04:39		05:26 (41)
	16:45			17:56			18:57	24	07:24 (15)	21:04	24	07:18 (3)	22:04	1	05:34 (41)	22:34	21	05:47 (41)
26	08:47			07:38			06:23		06:59 (15)	06:00		06:54 (3)	04:57		05:31 (41)	04:39		05:26 (41)
	16:47			17:58			18:59	25	07:24 (15)	21:06	24	07:18 (3)	22:06	5	05:36 (41)	22:34	21	05:47 (41)
27	08:45			07:35			06:20		06:59 (15)	05:58		06:54 (3)	04:56		05:30 (41)	04:40		05:26 (41)
	16:49			18:00			19:01	24	07:23 (15)	21:08	22	07:16 (3)	22:08	7	05:37 (41)	22:34	21	05:47 (41)
28	08:44			07:33			06:17		06:59 (15)	05:55		06:56 (3)	04:54		05:29 (41)	04:40		05:26 (41)
	16:51			18:02			19:03	24	07:23 (15)	21:10	19	07:15 (3)	22:10	9	05:38 (41)	22:34	21	05:47 (41)
29	08:42						07:14		07:59 (15)	05:53		06:57 (3)	04:53		05:28 (41)	04:41		05:26 (41)
	16:54						20:06	23	08:22 (15)	21:12	17	07:14 (3)	22:11	11	05:39 (41)	22:33	22	05:48 (41)
30	08:40						07:12		07:59 (15)	05:50		06:59 (3)	04:52		05:26 (41)	04:42		05:27 (41)
	16:56						20:08	22	08:21 (15)	21:14	13	07:12 (3)	22:13	13	05:39 (41)	22:33	21	05:48 (41)
31	08:38		09:12 (16)				07:09		08:00 (15)				04:50		05:25 (41)			
	16:58	2	09:14 (16)				20:10	19	08:19 (15)				22:14	15	05:40 (41)			
Potential sun hours	231			264			366			428			512			534		
Total, worst case		2			339			269			433			68			619	
Sun reduction		0.27			0.33			0.46			0.55			0.61			0.57	
Oper. time red.		0.94			0.94			0.94			0.94			0.94			0.94	
Wind dir. red.		0.58			0.58			0.63			0.64			0.67			0.68	
Total reduction		0.15			0.18			0.27			0.33			0.39			0.36	
Total, real		0			62			72			142			26			225	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HF - Svires

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July			August			September			October			November			December
1	04:43		05:27 (41)	05:30			06:34			07:36			07:43		08:31 (16)	08:47
	22:33	22	05:49 (41)	21:50			20:34			19:11			16:52	24	08:55 (16)	15:59
2	04:43		05:27 (41)	05:32			06:36			07:38			07:45		08:32 (16)	08:48
	22:32	21	05:48 (41)	21:48			20:31			19:09			16:49	24	08:56 (16)	15:58
3	04:44		05:27 (41)	05:34			06:38			07:40			07:48		08:31 (16)	08:50
	22:32	21	05:48 (41)	21:45			20:28			19:06			16:47	24	08:55 (16)	15:57
4	04:45		05:28 (41)	05:36			06:40			07:42			07:50		08:32 (16)	08:52
	22:31	20	05:48 (41)	21:43			20:26			19:03			16:45	23	08:55 (16)	15:56
5	04:46		05:28 (41)	05:38			06:42			07:44			07:52		08:32 (16)	08:53
	22:30	21	05:49 (41)	21:41			20:23			19:00			16:43	22	08:54 (16)	15:55
6	04:48		05:28 (41)	05:40			06:44			07:46			07:54		08:33 (16)	08:55
	22:29	21	05:49 (41)	21:39			20:20			18:58			16:41	21	08:54 (16)	15:55
7	04:49		05:28 (41)	05:42			06:46			07:48			07:57		08:34 (16)	08:57
	22:29	21	05:49 (41)	21:37			20:17			18:55			16:38	19	08:53 (16)	15:54
8	04:50		05:29 (41)	05:44			06:48			07:51			07:59		08:35 (16)	08:58
	22:28	20	05:49 (41)	21:34			20:15			18:52			16:36	17	08:52 (16)	15:53
9	04:51		05:29 (41)	05:46			06:50			07:53			08:01		08:36 (16)	08:59
	22:27	19	05:48 (41)	21:32			20:12			18:50			16:34	15	08:51 (16)	15:53
10	04:52		05:30 (41)	05:48			06:52		07:56 (15)	07:55			08:03		08:39 (16)	09:01
	22:26	18	05:48 (41)	21:30			20:09	12	08:08 (15)	18:47			16:32	10	08:49 (16)	15:52
11	04:54		05:32 (41)	05:50			06:55		07:54 (15)	07:57			08:06			09:02
	22:25	17	05:49 (41)	21:27			20:06	16	08:10 (15)	18:44			16:30			15:52
12	04:55		05:33 (41)	05:52		07:09 (3)	06:57		07:52 (15)	07:59			08:08			09:03
	22:23	15	05:48 (41)	21:25	8	07:17 (3)	20:04	19	08:11 (15)	18:42			16:28			15:52
13	04:57		05:34 (41)	05:55		07:06 (3)	06:59		07:51 (15)	08:01			08:10			09:05
	22:22	14	05:48 (41)	21:22	14	07:20 (3)	20:01	21	08:12 (15)	18:39			16:26			15:51
14	04:58		05:36 (41)	05:57		07:04 (3)	07:01		07:50 (15)	08:03			08:12			09:06
	22:21	12	05:48 (41)	21:20	18	07:22 (3)	19:58	22	08:12 (15)	18:36			16:24			15:51
15	05:00		05:37 (41)	05:59		07:03 (3)	07:03		07:49 (15)	08:06			08:14			09:07
	22:20	10	05:47 (41)	21:18	20	07:23 (3)	19:55	24	08:13 (15)	18:34			16:22			15:51
16	05:01		05:38 (41)	06:01		07:02 (3)	07:05		07:48 (15)	08:08			08:17			09:08
	22:18	8	05:46 (41)	21:15	22	07:24 (3)	19:53	25	08:13 (15)	18:31			16:21			15:51
17	05:03		05:40 (41)	06:03		07:01 (3)	07:07		07:48 (15)	08:10			08:19			09:09
	22:17	6	05:46 (41)	21:13	23	07:24 (3)	19:50	24	08:12 (15)	18:29			16:19			15:51
18	05:04		05:41 (41)	06:05		07:00 (3)	07:09		07:47 (15)	08:12			08:21			09:10
	22:15	3	05:44 (41)	21:10	25	07:25 (3)	19:47	25	08:12 (15)	18:26			16:17			15:51
19	05:06			06:07		06:59 (3)	07:11		07:47 (15)	08:14			08:23			09:10
	22:14			21:08	26	07:25 (3)	19:44	24	08:11 (15)	18:23			16:15			15:52
20	05:08			06:09		06:59 (3)	07:13		07:47 (15)	08:16			08:25			09:11
	22:12			21:05	26	07:25 (3)	19:42	23	08:10 (15)	18:21			16:14			15:52
21	05:09			06:11		06:59 (3)	07:15		07:48 (15)	08:19			08:27			09:12
	22:10			21:03	26	07:25 (3)	19:39	21	08:09 (15)	18:18			16:12			15:52
22	05:11			06:13		06:58 (3)	07:17		07:48 (15)	08:21			08:29			09:12
	22:09			21:00	27	07:25 (3)	19:36	19	08:07 (15)	18:16			16:11			15:53
23	05:13			06:15		06:58 (3)	07:19		07:49 (15)	08:23			08:31			09:13
	22:07			20:57	27	07:25 (3)	19:33	17	08:06 (15)	18:13			16:09			15:53
24	05:15			06:17		06:57 (3)	07:21		07:51 (15)	08:25		09:40 (16)	08:33			09:13
	22:05			20:55	26	07:23 (3)	19:31	12	08:03 (15)	18:11	7	09:47 (16)	16:08			15:54
25	05:17			06:19		06:58 (3)	07:23			07:27		08:37 (16)	08:35			09:13
	22:03			20:52	25	07:23 (3)	19:28			17:08	13	08:50 (16)	16:06			15:54
26	05:19			06:22		06:58 (3)	07:25			07:30		08:36 (16)	08:37			09:14
	22:02			20:50	24	07:22 (3)	19:25			17:06	16	08:52 (16)	16:05			15:55
27	05:20			06:24		06:59 (3)	07:27			07:32		08:34 (16)	08:39			09:14
	22:00			20:47	22	07:21 (3)	19:22			17:04	19	08:53 (16)	16:03			15:56
28	05:22			06:26		07:00 (3)	07:30			07:34		08:33 (16)	08:41			09:14
	21:58			20:44	19	07:19 (3)	19:20			17:01	20	08:53 (16)	16:02			15:57
29	05:24			06:28		07:01 (3)	07:32			07:36		08:32 (16)	08:43			09:14
	21:56			20:42	17	07:18 (3)	19:17			16:59	23	08:55 (16)	16:01			15:58
30	05:26			06:30		07:03 (3)	07:34			07:39		08:31 (16)	08:45			09:14
	21:54			20:39	12	07:15 (3)	19:14			16:56	24	08:55 (16)	16:00			15:59
31	05:28			06:32		07:07 (3)				07:41		08:32 (16)				09:14
	21:52			20:36	3	07:10 (3)				16:54	23	08:55 (16)				16:00
Potential sun hours	534			472			385			322			244			211
Total, worst case		289			410			304			145			199		
Sun reduction		0.60			0.59			0.50			0.42			0.23		
Oper. time red.		0.94			0.94			0.94			0.94			0.94		
Wind dir. red.		0.68			0.64			0.63			0.58			0.58		
Total reduction		0.38			0.35			0.29			0.23			0.13		
Total, real		111			145			89			34			25		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HG - Šalkas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March			April			May	June
1	09:14	08:36		07:30		07:59 (41)	07:06		07:54 (42)	05:48	04:49
	16:01	17:00		18:05	20	08:19 (41)	20:12	13	08:07 (42)	21:17	22:16
2	09:14	08:34		07:27		07:57 (41)	07:03		07:56 (42)	05:45	04:48
	16:03	17:03		18:07	23	08:20 (41)	20:14	7	08:03 (42)	21:19	22:17
3	09:13	08:32		07:25		07:57 (41)	07:01			05:43	04:47
	16:04	17:05		18:09	24	08:21 (41)	20:16			21:21	22:19
4	09:13	08:30		07:22		07:57 (41)	06:58			05:41	04:46
	16:05	17:07		18:11	24	08:21 (41)	20:18			21:23	22:20
5	09:12	08:28		07:20		07:56 (41)	06:55			05:38	04:45
	16:07	17:10		18:13	24	08:20 (41)	20:21			21:25	22:21
6	09:12	08:26		07:17		07:56 (41)	06:52			05:36	04:44
	16:08	17:12		18:16	24	08:20 (41)	20:23			21:27	22:23
7	09:11	08:23		07:14		07:57 (41)	06:50			05:34	04:43
	16:10	17:14		18:18	23	08:20 (41)	20:25			21:29	22:24
8	09:10	08:21		07:12		07:57 (41)	06:47			05:32	04:42
	16:11	17:16		18:20	22	08:19 (41)	20:27			21:31	22:25
9	09:10	08:19		07:09		07:57 (41)	06:44			05:29	04:41
	16:13	17:19		18:22	20	08:17 (41)	20:29			21:33	22:26
10	09:09	08:17		07:06		07:58 (41)	06:42			05:27	04:40
	16:15	17:21		18:25	17	08:15 (41)	20:31			21:36	22:27
11	09:08	08:15		07:04		08:00 (41)	06:39			05:25	04:40
	16:16	17:23		18:27	14	08:14 (41)	20:34			21:38	22:28
12	09:07	08:12		07:01		08:03 (41)	06:36			05:23	04:39
	16:18	17:26		18:29	8	08:11 (41)	20:36			21:40	22:29
13	09:06	08:10		06:58			06:34			05:21	04:39
	16:20	17:28		18:31			20:38			21:42	22:30
14	09:05	08:08		06:55			06:31			05:19	04:38
	16:22	17:30		18:33			20:40			21:44	22:31
15	09:04	08:05		06:53			06:28			05:17	04:38
	16:24	17:33		18:35			20:42			21:46	22:31
16	09:02	08:03		06:50			06:26			05:15	04:38
	16:26	17:35		18:38			20:44			21:48	22:32
17	09:01	08:00		06:47			06:23			05:13	04:38
	16:28	17:37		18:40			20:46			21:50	22:32
18	09:00	07:58		06:44			06:20			05:11	04:38
	16:30	17:40		18:42			20:49			21:52	22:33
19	08:58	07:56		06:42			06:18			05:09	04:38
	16:32	17:42		18:44			20:51			21:54	22:33
20	08:57	07:53		06:39			06:15			05:07	04:38
	16:34	17:44		18:46			20:53			21:55	22:34
21	08:55	07:51		06:36		07:02 (42)	06:13			05:05	04:38
	16:36	17:46		18:48	7	07:09 (42)	20:55			21:57	22:34
22	08:54	07:48		06:33		06:59 (42)	06:10			05:04	04:38
	16:38	17:49		18:51	12	07:11 (42)	20:57			21:59	22:34
23	08:52	07:46		06:31		06:56 (42)	06:08			05:02	04:38
	16:40	17:51		18:53	15	07:11 (42)	20:59			22:01	22:34
24	08:51	07:43		06:28		06:54 (42)	06:05			05:00	04:38
	16:42	17:53		18:55	19	07:13 (42)	21:02			22:03	22:34
25	08:49	07:40		06:25		06:52 (42)	06:03			04:59	04:39
	16:45	17:56		18:57	21	07:13 (42)	21:04			22:05	22:34
26	08:47	07:38	08:05 (41)	06:23		06:51 (42)	06:00			04:57	04:39
	16:47	17:58	10 08:15 (41)	18:59	21	07:12 (42)	21:06			22:06	22:34
27	08:45	07:35	08:02 (41)	06:20		06:51 (42)	05:58			04:56	04:40
	16:49	18:00	15 08:17 (41)	19:01	21	07:12 (42)	21:08			22:08	22:34
28	08:44	07:33	08:00 (41)	06:17		06:51 (42)	05:55			04:54	04:40
	16:51	18:02	19 08:19 (41)	19:03	21	07:12 (42)	21:10			22:10	22:34
29	08:42			07:14		07:51 (42)	05:53			04:53	04:41
	16:53			20:06	20	08:11 (42)	21:12			22:11	22:34
30	08:40			07:12		07:52 (42)	05:50			04:51	04:42
	16:56			20:08	18	08:10 (42)	21:14			22:13	22:33
31	08:38			07:09		07:52 (42)				04:50	
	16:58			20:10	16	08:08 (42)				22:14	
Potential sun hours	231	264		366			428			512	534
Total, worst case			44		434			20			
Sun reduction			0.33		0.46			0.55			
Oper. time red.			0.94		0.94			0.94			
Wind dir. red.			0.60		0.61			0.63			
Total reduction			0.19		0.26			0.32			
Total, real			8		114			6			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HG - Šalkas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November	December
1	04:43	05:30	06:34		07:36		08:45 (41)	07:43	08:47
	22:33	21:50	20:34		19:11	2	08:47 (41)	16:52	15:59
2	04:43	05:32	06:36		07:38		08:39 (41)	07:45	08:49
	22:32	21:48	20:31		19:09	12	08:51 (41)	16:49	15:58
3	04:44	05:34	06:38		07:40		08:37 (41)	07:48	08:50
	22:32	21:45	20:28		19:06	16	08:53 (41)	16:47	15:57
4	04:45	05:36	06:40		07:42		08:35 (41)	07:50	08:52
	22:31	21:43	20:26		19:03	19	08:54 (41)	16:45	15:56
5	04:46	05:38	06:42		07:44		08:33 (41)	07:52	08:54
	22:30	21:41	20:23		19:00	21	08:54 (41)	16:43	15:55
6	04:47	05:40	06:44		07:46		08:33 (41)	07:54	08:55
	22:30	21:39	20:20		18:58	23	08:56 (41)	16:41	15:54
7	04:49	05:42	06:46		07:48		08:32 (41)	07:57	08:57
	22:29	21:37	20:17		18:55	24	08:56 (41)	16:38	15:54
8	04:50	05:44	06:48		07:51		08:32 (41)	07:59	08:58
	22:28	21:34	20:15		18:52	23	08:55 (41)	16:36	15:53
9	04:51	05:46	06:50		07:53		08:31 (41)	08:01	09:00
	22:27	21:32	20:12		18:50	24	08:55 (41)	16:34	15:53
10	04:52	05:48	06:52	07:50 (42)	07:55		08:31 (41)	08:03	09:01
	22:26	21:30	20:09	6 07:56 (42)	18:47	23	08:54 (41)	16:32	15:52
11	04:54	05:50	06:55	07:47 (42)	07:57		08:32 (41)	08:06	09:02
	22:25	21:27	20:06	12 07:59 (42)	18:44	22	08:54 (41)	16:30	15:52
12	04:55	05:52	06:57	07:45 (42)	07:59		08:32 (41)	08:08	09:04
	22:24	21:25	20:04	15 08:00 (42)	18:42	21	08:53 (41)	16:28	15:51
13	04:56	05:54	06:59	07:43 (42)	08:01		08:32 (41)	08:10	09:05
	22:22	21:23	20:01	18 08:01 (42)	18:39	20	08:52 (41)	16:26	15:51
14	04:58	05:57	07:01	07:42 (42)	08:03		08:33 (41)	08:12	09:06
	22:21	21:20	19:58	19 08:01 (42)	18:36	17	08:50 (41)	16:24	15:51
15	04:59	05:59	07:03	07:41 (42)	08:06		08:36 (41)	08:14	09:07
	22:20	21:18	19:55	20 08:01 (42)	18:34	13	08:49 (41)	16:22	15:51
16	05:01	06:01	07:05	07:40 (42)	08:08		08:38 (41)	08:17	09:08
	22:18	21:15	19:53	21 08:01 (42)	18:31	8	08:46 (41)	16:20	15:51
17	05:03	06:03	07:07	07:40 (42)	08:10			08:19	09:09
	22:17	21:13	19:50	21 08:01 (42)	18:29			16:19	15:51
18	05:04	06:05	07:09	07:40 (42)	08:12			08:21	09:10
	22:15	21:10	19:47	20 08:00 (42)	18:26			16:17	15:51
19	05:06	06:07	07:11	07:40 (42)	08:14			08:23	09:10
	22:14	21:08	19:44	19 07:59 (42)	18:23			16:15	15:51
20	05:08	06:09	07:13	07:42 (42)	08:16			08:25	09:11
	22:12	21:05	19:42	16 07:58 (42)	18:21			16:14	15:52
21	05:09	06:11	07:15	07:44 (42)	08:19			08:27	09:12
	22:11	21:03	19:39	13 07:57 (42)	18:18			16:12	15:52
22	05:11	06:13	07:17	07:46 (42)	08:21			08:29	09:12
	22:09	21:00	19:36	9 07:55 (42)	18:16			16:10	15:53
23	05:13	06:15	07:19	07:48 (42)	08:23			08:31	09:13
	22:07	20:57	19:33	3 07:51 (42)	18:13			16:09	15:53
24	05:15	06:17	07:21		08:25			08:33	09:13
	22:05	20:55	19:31		18:11			16:07	15:54
25	05:17	06:19	07:23		07:28			08:35	09:14
	22:04	20:52	19:28		17:08			16:06	15:54
26	05:18	06:21	07:25		07:30			08:37	09:14
	22:02	20:50	19:25		17:06			16:05	15:55
27	05:20	06:24	07:27		07:32			08:39	09:14
	22:00	20:47	19:22		17:04			16:03	15:56
28	05:22	06:26	07:30		07:34			08:41	09:14
	21:58	20:44	19:20		17:01			16:02	15:57
29	05:24	06:28	07:32		07:36			08:43	09:14
	21:56	20:42	19:17		16:59			16:01	15:58
30	05:26	06:30	07:34		07:39			08:45	09:14
	21:54	20:39	19:14		16:56			16:00	15:59
31	05:28	06:32			07:41				09:14
	21:52	20:36			16:54				16:00
Potential sun hours	534	472	385		322			244	211
Total, worst case				212		288			
Sun reduction				0.50		0.42			
Oper. time red.				0.94		0.94			
Wind dir. red.				0.63		0.60			
Total reduction				0.29		0.24			
Total, real				62		69			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HH - Terandes mui ž a

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:37	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:52	05:47	06:50	07:53	08:01	08:59
	16:14	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:02	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:52
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:19	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:18	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:27	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HI - Terandnieki A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HJ - Terandnieki B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:56
6	09:11	08:25	07:17	06:53	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:15	18:52	16:36	15:54
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:47	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:28	04:41	04:53	05:49	06:53	07:55	08:03	09:00
	16:15	17:21	18:25	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:56	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:24	16:16	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:53
22	08:53	07:48	06:33	06:10	05:04	04:38	05:12	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:54
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:20	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:20	17:01	16:03	15:57
29	08:41		07:14	05:53	04:53	04:42	05:25	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:57	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HK - Terces

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September	October		November		December
1	09:14	08:36		07:30	07:57 (42)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	08:30 (42)	07:43	08:17 (41)	08:47
	16:01	17:00		18:05	4 08:01 (42)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	7 08:37 (42)	16:52	20 08:37 (41)	15:59
2	09:14	08:34		07:27	07:54 (42)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	08:26 (42)	07:45	08:19 (41)	08:49
	16:03	17:03		18:07	9 08:03 (42)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	13 08:39 (42)	16:49	18 08:37 (41)	15:58
3	09:13	08:32		07:25	07:52 (42)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	08:25 (42)	07:48	08:21 (41)	08:50
	16:04	17:05		18:09	13 08:05 (42)	20:16	21:21	22:19	22:32	21:46	20:28	19:06	15 08:40 (42)	16:47	14 08:35 (41)	15:57
4	09:13	08:30		07:22	07:49 (42)	06:58	05:41	04:45	04:45	05:36	06:40	07:42	08:23 (42)	07:50	08:24 (41)	08:52
	16:05	17:07		18:11	16 08:05 (42)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	18 08:41 (42)	16:45	11 08:35 (41)	15:56
5	09:12	08:28	08:58 (41)	07:20	07:46 (42)	06:55	05:38	04:44	04:46	05:38	06:42	07:44	08:22 (42)	07:52	08:26 (41)	08:54
	16:07	17:09	2 09:00 (41)	18:13	19 08:05 (42)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	19 08:41 (42)	16:43	7 08:33 (41)	15:55
6	09:12	08:26	08:56 (41)	07:17	07:45 (42)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	08:22 (42)	07:54	08:29 (41)	08:55
	16:08	17:12	7 09:03 (41)	18:16	20 08:05 (42)	20:23	21:27	22:23	22:30	21:39	20:20	18:58	20 08:42 (42)	16:40	2 08:31 (41)	15:54
7	09:11	08:24	08:54 (41)	07:14	07:46 (42)	06:50	05:34	04:43	04:48	05:42	06:46	07:48	08:21 (42)	07:57		08:57
	16:10	17:14	11 09:05 (41)	18:18	20 08:06 (42)	20:25	21:29	22:24	22:29	21:37	20:17	18:55	20 08:41 (42)	16:38		15:54
8	09:10	08:21	08:51 (41)	07:12	07:46 (42)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:21 (42)	07:59		08:58
	16:11	17:16	15 09:06 (41)	18:20	19 08:05 (42)	20:27	21:31	22:25	22:28	21:34	20:15	18:52	20 08:41 (42)	16:36		15:53
9	09:10	08:19	08:49 (41)	07:09	07:46 (42)	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:22 (42)	08:01		09:00
	16:13	17:19	18 09:07 (41)	18:22	18 08:04 (42)	20:29	21:34	22:26	22:27	21:32	20:12	18:50	18 08:40 (42)	16:34		15:53
10	09:09	08:17	08:47 (41)	07:06	07:46 (42)	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:24 (42)	08:03		09:01
	16:15	17:21	20 09:07 (41)	18:25	16 08:02 (42)	20:31	21:36	22:27	22:26	21:30	20:09	18:47	15 08:39 (42)	16:32		15:52
11	09:08	08:15	08:47 (41)	07:04	07:48 (42)	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:27 (42)	08:06		09:02
	16:16	17:23	21 09:08 (41)	18:27	14 08:02 (42)	20:34	21:38	22:28	22:25	21:27	20:06	18:44	11 08:38 (42)	16:30		15:52
12	09:07	08:12	08:47 (41)	07:01	07:49 (42)	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:29 (42)	08:08		09:04
	16:18	17:26	21 09:08 (41)	18:29	10 07:59 (42)	20:36	21:40	22:29	22:24	21:25	20:04	18:42	7 08:36 (42)	16:28		15:51
13	09:06	08:10	08:47 (41)	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:31 (42)	08:10		09:05
	16:20	17:28	21 09:08 (41)	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39	2 08:33 (42)	16:26		15:51
14	09:05	08:08	08:47 (41)	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03		08:12		09:06
	16:22	17:30	21 09:08 (41)	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36		16:24		15:51
15	09:04	08:05	08:48 (41)	06:53		06:28	05:17	04:38	04:59	05:59	07:03	08:06		08:14		09:07
	16:24	17:33	20 09:08 (41)	18:35		20:42	21:46	22:31	22:20	21:18	19:55	18:34		16:22		15:51
16	09:02	08:03	08:48 (41)	06:50		06:26	05:15	04:38	05:01	06:01	07:05	08:08		08:17		09:08
	16:26	17:35	19 09:07 (41)	18:38		20:44	21:48	22:32	22:18	21:15	19:53	18:31		16:20		15:51
17	09:01	08:00	08:49 (41)	06:47		06:23	05:13	04:38	05:03	06:03	07:07	08:10		08:19		09:09
	16:28	17:37	17 09:06 (41)	18:40		20:46	21:50	22:32	22:17	21:13	19:50	18:29		16:19		15:51
18	09:00	07:58	08:50 (41)	06:44		06:20	05:11	04:38	05:04	06:05	07:09	08:12		08:21		09:10
	16:30	17:40	14 09:04 (41)	18:42		20:49	21:52	22:33	22:15	21:10	19:47	18:26		16:17		15:51
19	08:58	07:56	08:53 (41)	06:42		06:18	05:09	04:37	05:06	06:07	07:11	08:14		08:23		09:10
	16:32	17:42	10 09:03 (41)	18:44		20:51	21:54	22:33	22:14	21:08	19:44	18:23		16:15		15:51
20	08:57	07:53		06:39		06:15	05:07	04:38	05:08	06:09	07:13	08:16		08:25		09:11
	16:34	17:44		18:46		20:53	21:55	22:34	22:12	21:05	19:42	18:21		16:14		15:52
21	08:55	07:51		06:36		06:13	05:05	04:38	05:09	06:11	07:15	08:19		08:27		09:12
	16:36	17:46		18:48		20:55	21:57	22:34	22:11	21:03	19:39	18:18		16:12		15:52
22	08:54	07:48		06:33		06:10	05:04	04:38	05:11	06:13	07:17	08:21	09:25 (41)	08:29		09:12
	16:38	17:49		18:51		20:57	21:59	22:34	22:09	21:00	19:36	18:16	5 09:30 (41)	16:10		15:52
23	08:52	07:46		06:31		06:08	05:02	04:38	05:13	06:15	07:19	08:23	09:21 (41)	08:31		09:13
	16:40	17:51		18:53		20:59	22:01	22:34	22:07	20:57	19:33	18:13	12 09:33 (41)	16:09		15:53
24	08:51	07:43		06:28		06:05	05:00	04:38	05:15	06:17	07:21	08:25	09:20 (41)	08:33		09:13
	16:42	17:53		18:55		21:02	22:03	22:34	22:05	20:55	19:31	18:11	15 09:35 (41)	16:07		15:54
25	08:49	07:40		06:25		06:02	04:59	04:39	05:17	06:19	07:23	07:28	08:18 (41)	08:35		09:14
	16:45	17:56		18:57		21:04	22:05	22:34	22:04	20:52	19:28	17:08	18 08:36 (41)	16:06		15:54
26	08:47	07:38		06:23		06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:18 (41)	08:37		09:14
	16:47	17:58		18:59		21:06	22:06	22:34	22:02	20:50	19:25	17:06	19 08:37 (41)	16:05		15:55
27	08:45	07:35		06:20		05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:17 (41)	08:39		09:14
	16:49	18:00		19:01		21:08	22:08	22:34	22:00	20:47	19:22	17:04	20 08:37 (41)	16:03		15:56
28	08:44	07:33		06:17		05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:17 (41)	08:41		09:14
	16:51	18:02		19:03		21:10	22:10	22:34	21:58	20:44	19:20	17:01	21 08:38 (41)	16:02		15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:17 (41)	08:43		09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17	16:59	21 08:38 (41)	16:01		15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:16 (41)	08:45		09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:56	21 08:37 (41)	16:00		15:59
31	08:38			07:09			04:50		05:28	06:32		07:41	08:17 (41)			09:14
	16:58			20:10			22:14		21:52	20:36		16:54	20 08:37 (41)			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385	322		244		211
Total, worst case			237		178								357		72	
Sun reduction			0.33		0.46								0.42		0.23	
Oper. time red.			0.94		0.94								0.94		0.94	
Wind dir. red.			0.59		0.59								0.59		0.59	
Total reduction			0.19		0.26								0.24		0.13	
Total, real			44		46								84		9	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HL - Uplejas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:14		11:39 (10)	08:36		15:19 (8)	07:30		16:43 (7)	07:06		05:47	04:48
	16:01	58	14:07 (9)	17:00	27	15:46 (8)	18:04	27	17:10 (7)	20:12		21:16	22:16
2	09:13		11:39 (10)	08:34		15:20 (8)	07:27		16:43 (7)	07:03		05:45	04:47
	16:02	57	14:07 (9)	17:02	26	15:46 (8)	18:06	26	17:09 (7)	20:14		21:18	22:17
3	09:13		11:41 (10)	08:32		15:21 (8)	07:25		16:44 (7)	07:00		05:43	04:46
	16:04	57	14:09 (9)	17:05	25	15:46 (8)	18:09	23	17:07 (7)	20:16		21:21	22:18
4	09:12		11:42 (10)	08:30		15:21 (8)	07:22		16:45 (7)	06:58		05:40	04:45
	16:05	55	14:09 (9)	17:07	23	15:44 (8)	18:11	21	17:06 (7)	20:18		21:23	22:20
5	09:12		11:43 (10)	08:27		15:22 (8)	07:19		16:47 (7)	06:55		05:38	04:44
	16:06	53	14:09 (9)	17:09	22	15:44 (8)	18:13	18	17:05 (7)	20:20		21:25	22:21
6	09:11		11:44 (10)	08:25		15:24 (8)	07:17		16:48 (7)	06:52		05:36	04:43
	16:08	52	14:09 (9)	17:11	19	15:43 (8)	18:15	14	17:02 (7)	20:22		21:27	22:22
7	09:11		11:46 (10)	08:23		15:25 (8)	07:14		16:52 (7)	06:49		05:33	04:42
	16:09	49	14:10 (9)	17:14	16	15:41 (8)	18:18	6	16:58 (7)	20:25		21:29	22:24
8	09:10		11:49 (10)	08:21		15:29 (8)	07:11			06:47		05:31	04:42
	16:11	43	14:10 (9)	17:16	10	15:39 (8)	18:20			20:27		21:31	22:25
9	09:09		13:31 (9)	08:19			07:09			06:44		05:29	04:41
	16:13	40	14:11 (9)	17:18			18:22			20:29		21:33	22:26
10	09:08		13:31 (9)	08:17			07:06			06:41		05:27	04:40
	16:14	40	14:11 (9)	17:21			18:24			20:31		21:35	22:27
11	09:08		13:32 (9)	08:14			07:03			06:39		05:25	04:39
	16:16	40	14:12 (9)	17:23			18:26			20:33		21:37	22:28
12	09:07		13:32 (9)	08:12			07:00		17:50 (1)	06:36		05:23	04:39
	16:18	40	14:12 (9)	17:25			18:29	9	17:59 (1)	20:35		21:39	22:29
13	09:06		13:32 (9)	08:10			06:58		17:47 (1)	06:33		05:20	04:38
	16:20	49	15:32 (8)	17:28			18:31	15	18:02 (1)	20:37		21:41	22:29
14	09:04		13:33 (9)	08:07			06:55		17:45 (1)	06:31		05:18	04:38
	16:22	52	15:34 (8)	17:30			18:33	18	18:03 (1)	20:40		21:43	22:30
15	09:03		13:33 (9)	08:05			06:52		17:43 (1)	06:28		05:16	04:38
	16:23	56	15:36 (8)	17:32			18:35	21	18:04 (1)	20:42		21:45	22:31
16	09:02		13:33 (9)	08:03			06:50		17:42 (1)	06:25		05:14	04:37
	16:25	58	15:37 (8)	17:35			18:37	22	18:04 (1)	20:44		21:47	22:32
17	09:01		13:35 (9)	08:00		16:54 (7)	06:47		17:42 (1)	06:23		05:12	04:37
	16:27	58	15:39 (8)	17:37	6	17:00 (7)	18:39	24	18:06 (1)	20:46		21:49	22:32
18	08:59		13:35 (9)	07:58		16:51 (7)	06:44		17:41 (1)	06:20		05:11	04:37
	16:29	60	15:40 (8)	17:39	13	17:04 (7)	18:42	24	18:05 (1)	20:48		21:51	22:33
19	08:58		13:35 (9)	07:55		16:48 (7)	06:41		17:40 (1)	06:17		05:09	04:37
	16:31	61	15:40 (8)	17:41	18	17:06 (7)	18:44	25	18:05 (1)	20:50		21:53	22:33
20	08:57		13:37 (9)	07:53		16:47 (7)	06:39		17:40 (1)	06:15		05:07	04:37
	16:34	61	15:42 (8)	17:44	21	17:08 (7)	18:46	25	18:05 (1)	20:53		21:55	22:33
21	08:55		13:37 (9)	07:50		16:46 (7)	06:36		17:40 (1)	06:12		05:05	04:37
	16:36	62	15:43 (8)	17:46	23	17:09 (7)	18:48	25	18:05 (1)	20:55		21:57	22:34
22	08:54		13:38 (9)	07:48		16:44 (7)	06:33		17:40 (1)	06:10		05:03	04:37
	16:38	61	15:43 (8)	17:48	25	17:09 (7)	18:50	24	18:04 (1)	20:57		21:59	22:34
23	08:52		13:39 (9)	07:45		16:44 (7)	06:30		17:41 (1)	06:07		05:02	04:38
	16:40	60	15:44 (8)	17:51	26	17:10 (7)	18:52	22	18:03 (1)	20:59		22:01	22:34
24	08:50		13:40 (9)	07:43		16:43 (7)	06:28		17:41 (1)	06:05		05:00	04:38
	16:42	60	15:45 (8)	17:53	27	17:10 (7)	18:55	20	18:01 (1)	21:01		22:03	22:34
25	08:49		13:41 (9)	07:40		16:43 (7)	06:25		17:42 (1)	06:02		04:58	04:38
	16:44	58	15:45 (8)	17:55	27	17:10 (7)	18:57	17	17:59 (1)	21:03		22:04	22:34
26	08:47		13:42 (9)	07:38		16:43 (7)	06:22		17:44 (1)	06:00		04:57	04:39
	16:46	58	15:46 (8)	17:57	28	17:11 (7)	18:59	14	17:58 (1)	21:05		22:06	22:34
27	08:45		13:44 (9)	07:35		16:43 (7)	06:19		17:47 (1)	05:57		04:55	04:39
	16:49	55	15:46 (8)	18:00	27	17:10 (7)	19:01	6	17:53 (1)	21:08		22:08	22:34
28	08:43		13:45 (9)	07:32		16:42 (7)	06:17			05:55		04:54	04:40
	16:51	53	15:46 (8)	18:02	28	17:10 (7)	19:03			21:10		22:09	22:34
29	08:41		13:48 (9)				07:14			05:52		04:52	04:41
	16:53	48	15:47 (8)				20:05			21:12		22:11	22:33
30	08:40		13:51 (9)				07:11			05:50		04:51	04:41
	16:55	43	15:47 (8)				20:07			21:14		22:13	22:33
31	08:38		13:56 (9)				07:08					04:50	
	16:58	32	15:47 (8)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		1629			437			446					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.67			0.68			0.65					
Total reduction		0.17			0.21			0.28					
Total, real		280			93			125					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HL - Uplejas A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December		
1	04:42	05:30	06:34		07:35		18:28 (1)	07:43		08:47	13:14 (9)
	22:33	21:49	20:33		19:11	12	18:40 (1)	16:51		15:58	40 13:54 (9)
2	04:43	05:32	06:36		07:38			07:45		08:48	13:14 (9)
	22:32	21:47	20:31		19:08			16:49		15:57	41 13:55 (9)
3	04:44	05:34	06:38		07:40			07:47	14:58 (8)	08:50	13:15 (9)
	22:31	21:45	20:28		19:06			16:47	11 15:09 (8)	15:56	40 13:55 (9)
4	04:45	05:36	06:40		07:42			07:50	14:55 (8)	08:52	11:34 (10)
	22:31	21:43	20:25		19:03			16:45	16 15:11 (8)	15:56	42 13:54 (9)
5	04:46	05:38	06:42		07:44			07:52	14:54 (8)	08:53	11:31 (10)
	22:30	21:41	20:23		19:00			16:42	19 15:13 (8)	15:55	49 13:55 (9)
6	04:47	05:40	06:44		07:46			07:54	14:52 (8)	08:55	11:30 (10)
	22:29	21:39	20:20		18:57			16:40	22 15:14 (8)	15:54	52 13:56 (9)
7	04:48	05:42	06:46		07:48		17:25 (7)	07:56	14:51 (8)	08:56	11:30 (10)
	22:28	21:36	20:17		18:55	11	17:36 (7)	16:38	24 15:15 (8)	15:53	53 13:56 (9)
8	04:49	05:44	06:48		07:50		17:23 (7)	07:59	14:50 (8)	08:58	11:29 (10)
	22:28	21:34	20:14		18:52	16	17:39 (7)	16:36	26 15:16 (8)	15:53	55 13:56 (9)
9	04:51	05:46	06:50		07:52		17:21 (7)	08:01	14:50 (8)	08:59	11:29 (10)
	22:27	21:32	20:12		18:49	20	17:41 (7)	16:34	27 15:17 (8)	15:52	57 13:57 (9)
10	04:52	05:48	06:52		07:55		17:19 (7)	08:03	14:49 (8)	09:01	11:28 (10)
	22:25	21:29	20:09		18:47	22	17:41 (7)	16:32	28 15:17 (8)	15:52	58 13:57 (9)
11	04:53	05:50	06:54		07:57		17:17 (7)	08:05	13:26 (9)	09:02	11:29 (10)
	22:24	21:27	20:06		18:44	25	17:42 (7)	16:30	34 15:18 (8)	15:51	58 13:57 (9)
12	04:55	05:52	06:56		07:59		17:17 (7)	08:08	13:21 (9)	09:03	11:28 (10)
	22:23	21:25	20:03		18:41	26	17:43 (7)	16:28	44 15:18 (8)	15:51	59 13:57 (9)
13	04:56	05:54	06:58		08:01		17:16 (7)	08:10	13:19 (9)	09:04	11:29 (10)
	22:22	21:22	20:01		18:39	27	17:43 (7)	16:26	48 15:18 (8)	15:51	61 13:59 (9)
14	04:58	05:56	07:00		08:03		17:15 (7)	08:12	13:17 (9)	09:06	11:29 (10)
	22:21	21:20	19:58		18:36	28	17:43 (7)	16:24	53 15:18 (8)	15:51	60 13:59 (9)
15	04:59	05:58	07:02		08:05		17:15 (7)	08:14	13:16 (9)	09:07	11:29 (10)
	22:19	21:17	19:55		18:33	27	17:42 (7)	16:22	56 15:19 (8)	15:51	61 13:59 (9)
16	05:01	06:00	07:04	18:38 (1)	08:07		17:15 (7)	08:16	13:15 (9)	09:08	11:30 (10)
	22:18	21:15	19:52	3 18:41 (1)	18:31	28	17:43 (7)	16:20	57 15:18 (8)	15:51	59 13:59 (9)
17	05:02	06:02	07:06	18:33 (1)	08:10		17:15 (7)	08:18	13:15 (9)	09:08	11:30 (10)
	22:17	21:12	19:50	13 18:46 (1)	18:28	27	17:42 (7)	16:18	58 15:19 (8)	15:51	61 14:00 (9)
18	05:04	06:04	07:09	18:31 (1)	08:12		17:15 (7)	08:21	13:14 (9)	09:09	11:30 (10)
	22:15	21:10	19:47	16 18:47 (1)	18:26	26	17:41 (7)	16:17	60 15:19 (8)	15:51	61 14:00 (9)
19	05:06	06:07	07:11	18:29 (1)	08:14		17:16 (7)	08:23	13:14 (9)	09:10	11:30 (10)
	22:14	21:07	19:44	19 18:48 (1)	18:23	25	17:41 (7)	16:15	60 15:19 (8)	15:51	61 14:00 (9)
20	05:07	06:09	07:13	18:27 (1)	08:16		17:16 (7)	08:25	13:13 (9)	09:11	11:31 (10)
	22:12	21:05	19:41	22 18:49 (1)	18:21	24	17:40 (7)	16:13	61 15:18 (8)	15:51	61 14:01 (9)
21	05:09	06:11	07:15	18:26 (1)	08:18		17:16 (7)	08:27	13:12 (9)	09:11	11:32 (10)
	22:10	21:02	19:39	23 18:49 (1)	18:18	23	17:39 (7)	16:12	62 15:18 (8)	15:52	61 14:02 (9)
22	05:11	06:13	07:17	18:25 (1)	08:21		17:18 (7)	08:29	13:13 (9)	09:12	11:32 (10)
	22:09	21:00	19:36	24 18:49 (1)	18:15	20	17:38 (7)	16:10	61 15:18 (8)	15:52	61 14:02 (9)
23	05:13	06:15	07:19	18:24 (1)	08:23		17:19 (7)	08:31	13:12 (9)	09:13	11:33 (10)
	22:07	20:57	19:33	25 18:49 (1)	18:13	17	17:36 (7)	16:08	61 15:17 (8)	15:53	61 14:03 (9)
24	05:14	06:17	07:21	18:24 (1)	08:25		17:21 (7)	08:33	13:12 (9)	09:13	11:33 (10)
	22:05	20:55	19:30	25 18:49 (1)	18:10	12	17:33 (7)	16:07	60 15:17 (8)	15:53	61 14:03 (9)
25	05:16	06:19	07:23	18:24 (1)	07:27			08:35	13:13 (9)	09:13	11:33 (10)
	22:03	20:52	19:27	24 18:48 (1)	17:08			16:06	58 15:17 (8)	15:54	61 14:03 (9)
26	05:18	06:21	07:25	18:23 (1)	07:29			08:37	13:12 (9)	09:14	11:34 (10)
	22:01	20:49	19:25	25 18:48 (1)	17:06			16:04	58 15:16 (8)	15:55	61 14:04 (9)
27	05:20	06:23	07:27	18:24 (1)	07:32			08:39	13:12 (9)	09:14	11:34 (10)
	21:59	20:47	19:22	23 18:47 (1)	17:03			16:03	56 15:15 (8)	15:55	60 14:04 (9)
28	05:22	06:25	07:29	18:24 (1)	07:34			08:41	13:12 (9)	09:14	11:35 (10)
	21:58	20:44	19:19	21 18:45 (1)	17:01			16:02	53 15:14 (8)	15:56	61 14:05 (9)
29	05:24	06:27	07:31	18:25 (1)	07:36			08:43	13:12 (9)	09:14	11:36 (10)
	21:56	20:41	19:16	19 18:44 (1)	16:58			16:01	50 15:12 (8)	15:57	59 14:05 (9)
30	05:26	06:29	07:33	18:26 (1)	07:38			08:45	13:14 (9)	09:14	11:37 (10)
	21:54	20:39	19:14	16 18:42 (1)	16:56			15:59	41 15:09 (8)	15:58	59 14:06 (9)
31	05:28	06:31			07:41					09:14	11:37 (10)
	21:52	20:36			16:54					15:59	59 14:06 (9)
Potential sun hours	534	472	385		322			244		211	
Total, worst case				298		416			1264		1753
Sun reduction				0.50		0.42			0.23		0.23
Oper. time red.				0.94		0.94			0.94		0.94
Wind dir. red.				0.64		0.67			0.67		0.65
Total reduction				0.30		0.27			0.15		0.14
Total, real				89		112			184		243

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HM - Uplejas B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April		May	June
1	09:14		11:32 (10)	08:36		13:48 (9)	07:30		16:47 (7)	07:06		05:47	04:49
	16:01	63	14:07 (9)	17:00	47	15:50 (8)	18:04	29	17:16 (7)	20:12		21:16	22:16
2	09:13		11:32 (10)	08:34		13:53 (9)	07:27		16:47 (7)	07:03		05:45	04:47
	16:02	63	14:07 (9)	17:02	38	15:50 (8)	18:06	28	17:15 (7)	20:14		21:18	22:17
3	09:13		11:34 (10)	08:32		15:22 (8)	07:25		16:47 (7)	07:00		05:43	04:46
	16:04	62	14:08 (9)	17:05	28	15:50 (8)	18:09	28	17:15 (7)	20:16		21:21	22:18
4	09:12		11:34 (10)	08:30		15:22 (8)	07:22		16:47 (7)	06:58		05:40	04:45
	16:05	63	14:09 (9)	17:07	27	15:49 (8)	18:11	27	17:14 (7)	20:18		21:23	22:20
5	09:12		11:35 (10)	08:27		15:23 (8)	07:19		16:48 (7)	06:55		05:38	04:44
	16:06	60	14:09 (9)	17:09	26	15:49 (8)	18:13	25	17:13 (7)	20:20		21:25	22:21
6	09:11		11:36 (10)	08:25		15:24 (8)	07:17		16:49 (7)	06:52		05:36	04:43
	16:08	59	14:09 (9)	17:11	24	15:48 (8)	18:15	23	17:12 (7)	20:22		21:27	22:22
7	09:11		11:37 (10)	08:23		15:25 (8)	07:14		16:50 (7)	06:49		05:33	04:42
	16:09	59	14:10 (9)	17:14	22	15:47 (8)	18:18	20	17:10 (7)	20:25		21:29	22:24
8	09:10		11:39 (10)	08:21		15:27 (8)	07:11		16:51 (7)	06:47		05:31	04:42
	16:11	56	14:10 (9)	17:16	19	15:46 (8)	18:20	17	17:08 (7)	20:27		21:31	22:25
9	09:09		11:40 (10)	08:19		15:29 (8)	07:09		16:55 (7)	06:44		05:29	04:41
	16:13	54	14:11 (9)	17:18	16	15:45 (8)	18:22	11	17:06 (7)	20:29		21:33	22:26
10	09:08		11:43 (10)	08:17		15:32 (8)	07:06			06:41		05:27	04:40
	16:14	51	14:12 (9)	17:21	9	15:41 (8)	18:24			20:31		21:35	22:27
11	09:08		13:30 (9)	08:14			07:03			06:39		05:25	04:39
	16:16	42	14:12 (9)	17:23			18:26			20:33		21:37	22:28
12	09:07		13:30 (9)	08:12			07:00			06:36		05:23	04:39
	16:18	42	14:12 (9)	17:25			18:29			20:35		21:39	22:29
13	09:06		13:30 (9)	08:10			06:58			06:33		05:20	04:38
	16:20	43	14:13 (9)	17:28			18:31			20:37		21:41	22:29
14	09:04		13:31 (9)	08:07			06:55		17:58 (1)	06:31		05:18	04:38
	16:22	43	14:14 (9)	17:30			18:33	4	18:02 (1)	20:40		21:43	22:30
15	09:03		13:31 (9)	08:05			06:52		17:53 (1)	06:28		05:16	04:38
	16:23	51	15:35 (8)	17:32			18:35	13	18:06 (1)	20:42		21:45	22:31
16	09:02		13:31 (9)	08:03			06:50		17:50 (1)	06:25		05:14	04:37
	16:25	55	15:37 (8)	17:35			18:37	18	18:08 (1)	20:44		21:47	22:32
17	09:01		13:32 (9)	08:00			06:47		17:50 (1)	06:23		05:12	04:37
	16:27	58	15:40 (8)	17:37			18:39	20	18:10 (1)	20:46		21:49	22:32
18	08:59		13:32 (9)	07:58			06:44		17:48 (1)	06:20		05:11	04:37
	16:29	61	15:41 (8)	17:39			18:42	22	18:10 (1)	20:48		21:51	22:33
19	08:58		13:33 (9)	07:55			06:41		17:47 (1)	06:17		05:09	04:37
	16:31	62	15:42 (8)	17:42			18:44	23	18:10 (1)	20:50		21:53	22:33
20	08:57		13:34 (9)	07:53		16:57 (7)	06:39		17:46 (1)	06:15		05:07	04:37
	16:34	62	15:44 (8)	17:44	12	17:09 (7)	18:46	24	18:10 (1)	20:53		21:55	22:33
21	08:55		13:34 (9)	07:50		16:54 (7)	06:36		17:46 (1)	06:12		05:05	04:37
	16:36	64	15:45 (8)	17:46	17	17:11 (7)	18:48	25	18:11 (1)	20:55		21:57	22:34
22	08:54		13:35 (9)	07:48		16:52 (7)	06:33		17:45 (1)	06:10		05:03	04:37
	16:38	65	15:46 (8)	17:48	20	17:12 (7)	18:50	26	18:11 (1)	20:57		21:59	22:34
23	08:52		13:36 (9)	07:45		16:51 (7)	06:30		17:45 (1)	06:07		05:02	04:38
	16:40	64	15:46 (8)	17:51	23	17:14 (7)	18:52	25	18:10 (1)	20:59		22:01	22:34
24	08:50		13:36 (9)	07:43		16:50 (7)	06:28		17:45 (1)	06:05		05:00	04:38
	16:42	64	15:47 (8)	17:53	24	17:14 (7)	18:55	24	18:09 (1)	21:01		22:03	22:34
25	08:49		13:37 (9)	07:40		16:48 (7)	06:25		17:45 (1)	06:02		04:58	04:38
	16:44	64	15:48 (8)	17:55	27	17:15 (7)	18:57	23	18:08 (1)	21:03		22:04	22:34
26	08:47		13:38 (9)	07:38		16:48 (7)	06:22		17:46 (1)	06:00		04:57	04:39
	16:46	63	15:48 (8)	17:57	28	17:16 (7)	18:59	22	18:08 (1)	21:05		22:06	22:34
27	08:45		13:39 (9)	07:35		16:48 (7)	06:19		17:46 (1)	05:57		04:55	04:39
	16:49	62	15:49 (8)	18:00	28	17:16 (7)	19:01	20	18:06 (1)	21:08		22:08	22:34
28	08:43		13:41 (9)	07:32		16:47 (7)	06:17		17:47 (1)	05:55		04:54	04:40
	16:51	60	15:50 (8)	18:02	28	17:15 (7)	19:03	17	18:04 (1)	21:10		22:09	22:34
29	08:41		13:42 (9)				07:14		18:49 (1)	05:52		04:52	04:41
	16:53	59	15:50 (8)				20:05	12	19:01 (1)	21:12		22:11	22:33
30	08:40		13:44 (9)				07:11			05:50		04:51	04:41
	16:55	56	15:50 (8)				20:07			21:14		22:13	22:33
31	08:38		13:46 (9)				07:08					04:50	
	16:58	52	15:51 (8)				20:10					22:14	
Potential sun hours	231			264			366			428		512	534
Total, worst case		1782			463			526					
Sun reduction		0.28			0.33			0.46					
Oper. time red.		0.94			0.94			0.94					
Wind dir. red.		0.66			0.68			0.65					
Total reduction		0.17			0.21			0.28					
Total, real		305			98			148					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HM - Uplejas B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September			October			November			December		
1	04:42	05:30	06:34			07:35			07:43		15:01 (8)	08:47		13:12 (9)
	22:33	21:49	20:33			19:11			16:51	10	15:11 (8)	15:58	42	13:54 (9)
2	04:43	05:32	06:36			07:38			07:45		14:58 (8)	08:48		11:26 (10)
	22:32	21:47	20:31			19:08			16:49	16	15:14 (8)	15:57	51	13:55 (9)
3	04:44	05:34	06:38			07:40			07:47		14:56 (8)	08:50		11:25 (10)
	22:31	21:45	20:28			19:06			16:47	20	15:16 (8)	15:56	53	13:55 (9)
4	04:45	05:36	06:40			07:42		17:34 (7)	07:50		14:54 (8)	08:52		11:23 (10)
	22:31	21:43	20:25			19:03	7	17:41 (7)	16:45	23	15:17 (8)	15:56	56	13:55 (9)
5	04:46	05:38	06:42			07:44		17:30 (7)	07:52		14:54 (8)	08:53		11:22 (10)
	22:30	21:41	20:23			19:00	14	17:44 (7)	16:42	24	15:18 (8)	15:55	59	13:55 (9)
6	04:47	05:40	06:44			07:46		17:27 (7)	07:54		14:53 (8)	08:55		11:22 (10)
	22:29	21:39	20:20			18:57	19	17:46 (7)	16:40	26	15:19 (8)	15:54	60	13:56 (9)
7	04:48	05:42	06:46			07:48		17:25 (7)	07:56		14:53 (8)	08:56		11:22 (10)
	22:28	21:36	20:17			18:55	22	17:47 (7)	16:38	27	15:20 (8)	15:53	61	13:56 (9)
8	04:49	05:44	06:48			07:50		17:24 (7)	07:59		14:52 (8)	08:58		11:21 (10)
	22:28	21:34	20:14			18:52	24	17:48 (7)	16:36	28	15:20 (8)	15:53	62	13:56 (9)
9	04:51	05:46	06:50			07:52		17:23 (7)	08:01		13:23 (9)	08:59		11:22 (10)
	22:27	21:32	20:12			18:49	26	17:49 (7)	16:34	39	15:21 (8)	15:52	62	13:56 (9)
10	04:52	05:48	06:52			07:55		17:22 (7)	08:03		13:19 (9)	09:01		11:21 (10)
	22:25	21:29	20:09			18:47	27	17:49 (7)	16:32	47	15:21 (8)	15:52	63	13:56 (9)
11	04:53	05:50	06:54			07:57		17:21 (7)	08:05		13:17 (9)	09:02		11:22 (10)
	22:24	21:27	20:06			18:44	28	17:49 (7)	16:30	51	15:21 (8)	15:51	63	13:57 (9)
12	04:55	05:52	06:56			07:59		17:21 (7)	08:07		13:15 (9)	09:03		11:22 (10)
	22:23	21:25	20:03			18:41	28	17:49 (7)	16:28	56	15:21 (8)	15:51	63	13:57 (9)
13	04:56	05:54	06:58			08:01		17:20 (7)	08:10		13:14 (9)	09:04		11:23 (10)
	22:22	21:22	20:01			18:39	29	17:49 (7)	16:26	59	15:22 (8)	15:51	64	13:58 (9)
14	04:58	05:56	07:00		18:41 (1)	08:03		17:20 (7)	08:12		13:13 (9)	09:06		11:23 (10)
	22:21	21:20	19:58	11	18:52 (1)	18:36	28	17:48 (7)	16:24	59	15:21 (8)	15:51	64	13:58 (9)
15	04:59	05:58	07:02		18:38 (1)	08:05		17:20 (7)	08:14		13:12 (9)	09:07		11:23 (10)
	22:19	21:17	19:55	16	18:54 (1)	18:33	28	17:48 (7)	16:22	63	15:22 (8)	15:51	65	13:59 (9)
16	05:01	06:00	07:04		18:36 (1)	08:07		17:21 (7)	08:16		13:11 (9)	09:08		11:23 (10)
	22:18	21:15	19:52	19	18:55 (1)	18:31	27	17:48 (7)	16:20	64	15:21 (8)	15:51	65	13:59 (9)
17	05:02	06:02	07:06		18:35 (1)	08:10		17:21 (7)	08:18		13:11 (9)	09:08		11:24 (10)
	22:17	21:12	19:50	21	18:56 (1)	18:28	26	17:47 (7)	16:18	64	15:22 (8)	15:51	64	13:59 (9)
18	05:04	06:04	07:09		18:33 (1)	08:12		17:21 (7)	08:21		13:10 (9)	09:09		11:24 (10)
	22:15	21:10	19:47	23	18:56 (1)	18:26	24	17:45 (7)	16:17	64	15:21 (8)	15:51	65	14:00 (9)
19	05:06	06:07	07:11		18:32 (1)	08:14		17:22 (7)	08:23		13:11 (9)	09:10		11:24 (10)
	22:14	21:07	19:44	25	18:57 (1)	18:23	23	17:45 (7)	16:15	64	15:21 (8)	15:51	65	14:00 (9)
20	05:07	06:09	07:13		18:32 (1)	08:16		17:23 (7)	08:25		13:10 (9)	09:11		11:24 (10)
	22:12	21:05	19:41	24	18:56 (1)	18:21	20	17:43 (7)	16:13	65	15:21 (8)	15:51	65	14:00 (9)
21	05:09	06:11	07:15		18:31 (1)	08:18		17:25 (7)	08:27		13:09 (9)	09:11		11:25 (10)
	22:10	21:02	19:39	25	18:56 (1)	18:18	15	17:40 (7)	16:12	64	15:20 (8)	15:52	65	14:01 (9)
22	05:11	06:13	07:17		18:30 (1)	08:21		17:28 (7)	08:29		13:10 (9)	09:12		11:25 (10)
	22:09	21:00	19:36	26	18:56 (1)	18:15	10	17:38 (7)	16:10	62	15:20 (8)	15:52	65	14:01 (9)
23	05:13	06:15	07:19		18:30 (1)	08:23			08:31		13:10 (9)	09:13		11:26 (10)
	22:07	20:57	19:33	25	18:55 (1)	18:13			16:09	62	15:19 (8)	15:53	65	14:02 (9)
24	05:14	06:17	07:21		18:30 (1)	08:25			08:33		13:09 (9)	09:13		11:27 (10)
	22:05	20:55	19:30	24	18:54 (1)	18:10			16:07	61	15:18 (8)	15:53	65	14:03 (9)
25	05:16	06:19	07:23		18:30 (1)	07:27			08:35		13:10 (9)	09:13		11:27 (10)
	22:03	20:52	19:27	23	18:53 (1)	17:08			16:06	58	15:18 (8)	15:54	65	14:03 (9)
26	05:18	06:21	07:25		18:31 (1)	07:29			08:37		13:10 (9)	09:14		11:27 (10)
	22:01	20:49	19:25	21	18:52 (1)	17:06			16:04	55	15:16 (8)	15:55	65	14:03 (9)
27	05:20	06:23	07:27		18:32 (1)	07:32			08:39		13:10 (9)	09:14		11:28 (10)
	21:59	20:47	19:22	18	18:50 (1)	17:03			16:03	52	15:15 (8)	15:55	65	14:04 (9)
28	05:22	06:25	07:29		18:33 (1)	07:34			08:41		13:10 (9)	09:14		11:29 (10)
	21:58	20:44	19:19	15	18:48 (1)	17:01			16:02	43	13:53 (9)	15:56	64	14:04 (9)
29	05:24	06:27	07:31		18:36 (1)	07:36			08:43		13:10 (9)	09:14		11:29 (10)
	21:56	20:41	19:16	8	18:44 (1)	16:58			16:01	43	13:53 (9)	15:57	65	14:05 (9)
30	05:26	06:29	07:33			07:38			08:45		13:12 (9)	09:14		11:30 (10)
	21:54	20:39	19:14			16:56			15:59	42	13:54 (9)	15:58	64	14:06 (9)
31	05:28	06:31				07:41						09:14		11:30 (10)
	21:52	20:36				16:54						15:59	64	14:06 (9)
Potential sun hours	534	472	385			322			244			211		
Total, worst case				324			425			1411			1924	
Sun reduction				0.50			0.42			0.23			0.23	
Oper. time red.				0.94			0.94			0.94			0.94	
Wind dir. red.				0.64			0.67			0.67			0.65	
Total reduction				0.30			0.27			0.14			0.14	
Total, real				97			114			204			265	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HN - Vaivari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May	June	July	August	September	October		November		December
1	09:14	08:36		07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36		07:43	08:20 (41)	08:47
	16:01	17:00		18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11		16:52	20 08:40 (41)	15:59
2	09:14	08:34		07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38		07:45	08:21 (41)	08:49
	16:03	17:03		18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09		16:49	20 08:41 (41)	15:58
3	09:13	08:32	09:03 (41)	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40		07:48	08:21 (41)	08:50
	16:04	17:05	1 09:04 (41)	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06		16:47	19 08:40 (41)	15:57
4	09:13	08:30	09:01 (41)	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42		07:50	08:24 (41)	08:52
	16:05	17:07	6 09:07 (41)	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03		16:45	16 08:40 (41)	15:56
5	09:12	08:28	08:58 (41)	07:20	06:55	05:38	04:44	04:46	05:38	06:42	07:44		07:52	08:26 (41)	08:54
	16:07	17:09	10 09:08 (41)	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00		16:43	13 08:39 (41)	15:55
6	09:12	08:26	08:56 (41)	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46		07:54	08:29 (41)	08:55
	16:08	17:12	13 09:09 (41)	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58		16:40	9 08:38 (41)	15:54
7	09:11	08:24	08:54 (41)	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48		07:57	08:31 (41)	08:57
	16:10	17:14	16 09:10 (41)	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55		16:38	5 08:36 (41)	15:54
8	09:10	08:21	08:51 (41)	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51		07:59		08:58
	16:11	17:16	19 09:10 (41)	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52		16:36		15:53
9	09:10	08:19	08:51 (41)	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53		08:01		09:00
	16:13	17:19	20 09:11 (41)	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50		16:34		15:53
10	09:09	08:17	08:51 (41)	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55		08:03		09:01
	16:15	17:21	20 09:11 (41)	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47		16:32		15:52
11	09:08	08:15	08:51 (41)	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57		08:06		09:02
	16:16	17:23	20 09:11 (41)	18:27	20:34	21:38	22:28	22:25	21:27	20:06	18:44		16:30		15:52
12	09:07	08:12	08:51 (41)	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59		08:08		09:04
	16:18	17:26	19 09:10 (41)	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42		16:28		15:51
13	09:06	08:10	08:52 (41)	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01		08:10		09:05
	16:20	17:28	18 09:10 (41)	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39		16:26		15:51
14	09:05	08:08	08:52 (41)	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03		08:12		09:06
	16:22	17:30	17 09:09 (41)	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36		16:24		15:51
15	09:04	08:05	08:54 (41)	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06		08:14		09:07
	16:24	17:33	15 09:09 (41)	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34		16:22		15:51
16	09:02	08:03	08:55 (41)	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08		08:17		09:08
	16:26	17:35	12 09:07 (41)	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31		16:20		15:51
17	09:01	08:00	08:58 (41)	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10		08:19		09:09
	16:28	17:37	6 09:04 (41)	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:29		16:19		15:51
18	09:00	07:58		06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12		08:21		09:10
	16:30	17:40		18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26		16:17		15:51
19	08:58	07:56		06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14		08:23		09:10
	16:32	17:42		18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23		16:15		15:51
20	08:57	07:53		06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16		08:25		09:11
	16:34	17:44		18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21		16:14		15:52
21	08:55	07:51		06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19		08:27		09:12
	16:36	17:46		18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18		16:12		15:52
22	08:54	07:48		06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21		08:29		09:12
	16:38	17:49		18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16		16:10		15:52
23	08:52	07:46		06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23		08:31		09:13
	16:40	17:51		18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13		16:09		15:53
24	08:51	07:43		06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25		08:33		09:13
	16:42	17:53		18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11		16:07		15:54
25	08:49	07:40		06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:28	08:26 (41)	08:35		09:14
	16:45	17:56		18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	9 08:35 (41)	16:06		15:54
26	08:47	07:38		06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:25 (41)	08:37		09:14
	16:47	17:58		18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	12 08:37 (41)	16:05		15:55
27	08:46	07:35		06:20	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:23 (41)	08:39		09:14
	16:49	18:00		19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	15 08:38 (41)	16:03		15:56
28	08:44	07:33		06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:22 (41)	08:41		09:14
	16:51	18:02		19:03	21:10	22:10	22:34	21:58	20:44	19:20	17:01	18 08:40 (41)	16:02		15:57
29	08:42			07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:21 (41)	08:43		09:14
	16:53			20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	19 08:40 (41)	16:01		15:58
30	08:40			07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:20 (41)	08:45		09:14
	16:56			20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	20 08:40 (41)	16:00		15:59
31	08:38			07:09		04:50		05:28	06:32		07:41	08:21 (41)			09:14
	16:58			20:10		22:14		21:52	20:36		16:54	20 08:41 (41)			16:00
Potential sun hours	231	264		366	428	512	534	534	472	385	322		244		211
Total, worst case			212									113		102	
Sun reduction			0.33									0.42		0.23	
Oper. time red.			0.94									0.94		0.94	
Wind dir. red.			0.59									0.59		0.59	
Total reduction			0.18									0.23		0.13	
Total, real			39									27		13	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HO - Valcenieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June
1	09:14		10:38 (43)		08:36	07:30	07:06	05:48	04:49
	16:01	63	11:52 (2)		17:00	18:04	20:12	21:16	22:16
2	09:14		10:38 (43)		08:34	07:27	07:03	05:45	04:47
	16:02	63	11:52 (2)		17:02	18:07	20:14	21:19	22:17
3	09:13		10:39 (43)		08:32	07:25	07:00	05:43	04:46
	16:04	63	11:53 (2)		17:05	18:09	20:16	21:21	22:19
4	09:13		10:39 (43)		08:30	07:22	06:58	05:41	04:45
	16:05	62	11:52 (2)		17:07	18:11	20:18	21:23	22:20
5	09:12		10:39 (43)		08:28	07:19	06:55	05:38	04:44
	16:07	62	11:52 (2)		17:09	18:13	20:21	21:25	22:21
6	09:12		10:39 (43)		08:26	07:17	06:52	05:36	04:43
	16:08	61	11:52 (2)		17:12	18:16	20:23	21:27	22:23
7	09:11		10:39 (43)		08:23	07:14	06:50	05:34	04:42
	16:10	61	11:52 (2)		17:14	18:18	20:25	21:29	22:24
8	09:10		10:40 (43)		08:21	07:11	06:47	05:31	04:42
	16:11	59	11:52 (2)		17:16	18:20	20:27	21:31	22:25
9	09:10		10:40 (43)		08:19	07:09	06:44	05:29	04:41
	16:13	59	11:52 (2)		17:19	18:22	20:29	21:33	22:26
10	09:09		10:41 (43)		08:17	07:06	06:41	05:27	04:40
	16:15	57	11:52 (2)		17:21	18:24	20:31	21:35	22:27
11	09:08		10:41 (43)		08:14	08:47 (1)	07:03	06:39	05:25	04:40
	16:16	55	11:51 (2)	4	17:23	08:51 (1)	18:27	20:33	21:38	22:28
12	09:07		10:42 (43)		08:12	08:42 (1)	07:01	06:36	05:23	04:39
	16:18	53	11:51 (2)	13	17:26	08:55 (1)	18:29	20:36	21:40	22:29
13	09:06		10:42 (43)		08:10	08:41 (1)	06:58	06:33	05:21	04:39
	16:20	49	11:49 (2)	16	17:28	08:57 (1)	18:31	20:38	21:42	22:30
14	09:05		10:43 (43)		08:08	08:39 (1)	06:55	06:31	05:19	04:38
	16:22	45	11:48 (2)	19	17:30	08:58 (1)	18:33	20:40	21:44	22:31
15	09:04		10:43 (43)		08:05	08:38 (1)	06:53	06:28	05:17	04:38
	16:24	36	11:19 (43)	22	17:32	09:00 (1)	18:35	20:42	21:46	22:31
16	09:02		10:44 (43)		08:03	08:37 (1)	06:50	06:26	05:15	04:38
	16:26	36	11:20 (43)	23	17:35	09:00 (1)	18:37	20:44	21:48	22:32
17	09:01		10:44 (43)		08:00	08:37 (1)	06:47	06:23	05:13	04:37
	16:28	35	11:19 (43)	24	17:37	09:01 (1)	18:40	20:46	21:50	22:32
18	09:00		10:44 (43)		07:58	08:36 (1)	06:44	06:20	05:11	04:37
	16:30	35	11:19 (43)	25	17:39	09:01 (1)	18:42	20:48	21:52	22:33
19	08:58		10:45 (43)		07:55	08:35 (1)	06:42	06:18	05:09	04:37
	16:32	35	11:20 (43)	26	17:42	09:01 (1)	18:44	20:51	21:54	22:33
20	08:57		10:46 (43)		07:53	08:36 (1)	06:39	06:15	05:07	04:37
	16:34	34	11:20 (43)	26	17:44	09:02 (1)	18:46	20:53	21:55	22:34
21	08:55		10:46 (43)		07:50	08:35 (1)	06:36	06:13	05:05	04:37
	16:36	33	11:19 (43)	26	17:46	09:01 (1)	18:48	20:55	21:57	22:34
22	08:54		10:47 (43)		07:48	08:36 (1)	06:33	06:10	05:03	04:38
	16:38	32	11:19 (43)	26	17:49	09:02 (1)	18:50	20:57	21:59	22:34
23	08:52		10:48 (43)		07:45	08:36 (1)	06:31	06:07	05:02	04:38
	16:40	30	11:18 (43)	25	17:51	09:01 (1)	18:53	20:59	22:01	22:34
24	08:51		10:49 (43)		07:43	08:36 (1)	06:28	06:05	05:00	04:38
	16:42	29	11:18 (43)	24	17:53	09:00 (1)	18:55	21:01	22:03	22:34
25	08:49		10:50 (43)		07:40	08:37 (1)	06:25	06:02	04:59	04:39
	16:44	27	11:17 (43)	23	17:55	09:00 (1)	18:57	21:04	22:05	22:34
26	08:47		10:51 (43)		07:38	08:38 (1)	06:22	06:00	04:57	04:39
	16:47	25	11:16 (43)	20	17:58	08:58 (1)	18:59	21:06	22:06	22:34
27	08:45		10:53 (43)		07:35	08:39 (1)	06:20	05:57	04:55	04:40
	16:49	22	11:15 (43)	17	18:00	08:56 (1)	19:01	21:08	22:08	22:34
28	08:44		10:55 (43)		07:33	08:42 (1)	06:17	05:55	04:54	04:40
	16:51	19	11:14 (43)	12	18:02	08:54 (1)	19:03	21:10	22:10	22:34
29	08:42		10:57 (43)				07:14	05:52	04:53	04:41
	16:53	15	11:12 (43)				20:05	21:12	22:11	22:34
30	08:40		11:01 (43)				07:11	05:50	04:51	04:41
	16:56	7	11:08 (43)				20:08	21:14	22:13	22:33
31	08:38						07:09		04:50	
	16:58						20:10		22:14	
Potential sun hours	231		264			366	428	512	534	
Total, worst case		1262		371						
Sun reduction		0.28		0.33						
Oper. time red.		0.94		0.94						
Wind dir. red.		0.61		0.60						
Total reduction		0.16		0.19						
Total, real		200		69						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HO - Valcenieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October			November			December		
1	04:42	05:30	06:34	07:36			07:43			08:47		10:23 (43)
	22:33	21:50	20:34	19:11			16:52			15:59	55	11:33 (2)
2	04:43	05:32	06:36	07:38			07:45			08:49		10:24 (43)
	22:32	21:48	20:31	19:08			16:49			15:58	57	11:35 (2)
3	04:44	05:34	06:38	07:40			07:48			08:50		10:24 (43)
	22:32	21:45	20:28	19:06			16:47			15:57	59	11:36 (2)
4	04:45	05:36	06:40	07:42			07:50			08:52		10:25 (43)
	22:31	21:43	20:25	19:03			16:45			15:56	59	11:37 (2)
5	04:46	05:38	06:42	07:44			07:52			08:54		10:25 (43)
	22:30	21:41	20:23	19:00			16:43			15:55	61	11:38 (2)
6	04:47	05:40	06:44	07:46			07:54			08:55		10:25 (43)
	22:30	21:39	20:20	18:58			16:40			15:54	61	11:38 (2)
7	04:48	05:42	06:46	07:48			07:57			08:57		10:26 (43)
	22:29	21:37	20:17	18:55			16:38			15:53	61	11:39 (2)
8	04:49	05:44	06:48	07:50			07:59			08:58		10:27 (43)
	22:28	21:34	20:15	18:52			16:36			15:53	62	11:40 (2)
9	04:51	05:46	06:50	07:53			08:01			09:00		10:27 (43)
	22:27	21:32	20:12	18:50			16:34			15:52	62	11:41 (2)
10	04:52	05:48	06:52	07:55			08:03			09:01		10:28 (43)
	22:26	21:30	20:09	18:47			16:32			15:52	63	11:42 (2)
11	04:53	05:50	06:54	07:57			08:06			09:02		10:28 (43)
	22:25	21:27	20:06	18:44			16:30			15:52	63	11:42 (2)
12	04:55	05:52	06:56	07:59			08:08		10:33 (43)	09:03		10:29 (43)
	22:23	21:25	20:04	18:42			16:28	8	10:41 (43)	15:51	63	11:43 (2)
13	04:56	05:54	06:58	08:01		09:16 (1)	08:10		10:29 (43)	09:05		10:29 (43)
	22:22	21:22	20:01	18:39	8	09:24 (1)	16:26	15	10:44 (43)	15:51	70	12:23 (42)
14	04:58	05:56	07:01	08:03		09:13 (1)	08:12		10:28 (43)	09:06		10:30 (43)
	22:21	21:20	19:58	18:36	14	09:27 (1)	16:24	19	10:47 (43)	15:51	71	12:24 (42)
15	04:59	05:58	07:03	08:05		09:11 (1)	08:14		10:26 (43)	09:07		10:30 (43)
	22:20	21:18	19:55	18:34	19	09:30 (1)	16:22	22	10:48 (43)	15:51	74	12:25 (42)
16	05:01	06:01	07:05	08:08		09:10 (1)	08:17		10:25 (43)	09:08		10:31 (43)
	22:18	21:15	19:53	18:31	20	09:30 (1)	16:20	25	10:50 (43)	15:51	74	12:26 (42)
17	05:02	06:03	07:07	08:10		09:08 (1)	08:19		10:24 (43)	09:09		10:31 (43)
	22:17	21:13	19:50	18:28	23	09:31 (1)	16:18	27	10:51 (43)	15:51	76	12:27 (42)
18	05:04	06:05	07:09	08:12		09:08 (1)	08:21		10:23 (43)	09:10		10:32 (43)
	22:15	21:10	19:47	18:26	24	09:32 (1)	16:17	29	10:52 (43)	15:51	76	12:28 (42)
19	05:06	06:07	07:11	08:14		09:07 (1)	08:23		10:23 (43)	09:10		10:33 (43)
	22:14	21:08	19:44	18:23	25	09:32 (1)	16:15	30	10:53 (43)	15:51	77	12:29 (42)
20	05:07	06:09	07:13	08:16		09:06 (1)	08:25		10:22 (43)	09:11		10:32 (43)
	22:12	21:05	19:42	18:21	26	09:32 (1)	16:13	32	10:54 (43)	15:51	78	12:29 (42)
21	05:09	06:11	07:15	08:19		09:06 (1)	08:27		10:22 (43)	09:12		10:33 (43)
	22:11	21:03	19:39	18:18	27	09:33 (1)	16:12	33	10:55 (43)	15:52	78	12:30 (42)
22	05:11	06:13	07:17	08:21		09:06 (1)	08:29		10:22 (43)	09:12		10:33 (43)
	22:09	21:00	19:36	18:16	26	09:32 (1)	16:10	34	10:56 (43)	15:52	78	12:30 (42)
23	05:13	06:15	07:19	08:23		09:05 (1)	08:31		10:22 (43)	09:13		10:34 (43)
	22:07	20:57	19:33	18:13	27	09:32 (1)	16:09	34	10:56 (43)	15:53	78	12:31 (42)
24	05:15	06:17	07:21	08:25		09:06 (1)	08:33		10:22 (43)	09:13		10:34 (43)
	22:05	20:55	19:30	18:11	26	09:32 (1)	16:07	35	10:57 (43)	15:53	78	12:31 (42)
25	05:16	06:19	07:23	07:27		08:06 (1)	08:35		10:22 (43)	09:14		10:35 (43)
	22:04	20:52	19:28	17:08	25	08:31 (1)	16:06	35	10:57 (43)	15:54	77	12:31 (42)
26	05:18	06:21	07:25	07:30		08:07 (1)	08:37		10:22 (43)	09:14		10:35 (43)
	22:02	20:50	19:25	17:06	23	08:30 (1)	16:04	36	10:58 (43)	15:55	75	12:31 (42)
27	05:20	06:23	07:27	07:32		08:08 (1)	08:39		10:22 (43)	09:14		10:35 (43)
	22:00	20:47	19:22	17:03	21	08:29 (1)	16:03	36	10:58 (43)	15:56	76	12:31 (42)
28	05:22	06:25	07:29	07:34		08:08 (1)	08:41		10:23 (43)	09:14		10:36 (43)
	21:58	20:44	19:19	17:01	19	08:27 (1)	16:02	45	11:28 (2)	15:57	73	12:31 (42)
29	05:24	06:28	07:32	07:36		08:11 (1)	08:43		10:23 (43)	09:14		10:36 (43)
	21:56	20:42	19:17	16:59	15	08:26 (1)	16:01	50	11:30 (2)	15:58	73	12:31 (42)
30	05:26	06:30	07:34	07:39		08:12 (1)	08:45		10:23 (43)	09:14		10:37 (43)
	21:54	20:39	19:14	16:56	12	08:24 (1)	16:00	53	11:32 (2)	15:59	70	12:31 (42)
31	05:28	06:32		07:41						09:14		10:38 (43)
	21:52	20:36		16:54						16:00	68	12:30 (42)
Potential sun hours	534	472	385	322			244			211		
Total, worst case					380			598			2146	
Sun reduction					0.42			0.23			0.23	
Oper. time red.					0.94			0.94			0.94	
Wind dir. red.					0.60			0.61			0.62	
Total reduction					0.24			0.13			0.13	
Total, real					90			79			282	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HP - Valkaraji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April		May	June	July	August		September		October	November	December
1	09:13	08:36	07:30	07:06		05:48	04:49	04:43	05:30		06:34	07:18 (29)	07:36	07:43	08:46
	16:02	17:01	18:05	20:12		21:16	22:16	22:32	21:49		20:34 22	07:40 (29)	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	07:29 (29)	05:46	04:48	04:44	05:32		06:36	07:18 (29)	07:38	07:45	08:48
	16:03	17:03	18:07	20:14 10	07:39 (29)	21:18	22:17	22:32	21:47		20:31 23	07:41 (29)	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	07:26 (29)	05:43	04:47	04:45	05:34		06:38	07:17 (29)	07:40	07:48	08:50
	16:04	17:05	18:09	20:16 14	07:40 (29)	21:21	22:18	22:31	21:45		20:28 23	07:40 (29)	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	07:24 (29)	05:41	04:46	04:46	05:36		06:40	07:17 (29)	07:42	07:50	08:52
	16:06	17:08	18:11	20:18 18	07:42 (29)	21:23	22:20	22:31	21:43		20:26 23	07:40 (29)	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	07:22 (29)	05:39	04:45	04:47	05:38		06:42	07:17 (29)	07:44	07:52	08:53
	16:07	17:10	18:14	20:21 21	07:43 (29)	21:25	22:21	22:30	21:41		20:23 23	07:40 (29)	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53	07:21 (29)	05:36	04:44	04:48	05:40		06:44	07:17 (29)	07:46	07:54	08:55
	16:09	17:12	18:16	20:23 22	07:43 (29)	21:27	22:22	22:29	21:39		20:20 22	07:39 (29)	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	07:21 (29)	05:34	04:43	04:49	05:42		06:46	07:17 (29)	07:48	07:56	08:56
	16:10	17:14	18:18	20:25 22	07:43 (29)	21:29	22:23	22:28	21:36		20:17 21	07:38 (29)	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47	07:20 (29)	05:32	04:42	04:50	05:45		06:49	07:18 (29)	07:51	07:59	08:58
	16:12	17:17	18:20	20:27 23	07:43 (29)	21:31	22:25	22:27	21:34		20:15 18	07:36 (29)	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45	07:19 (29)	05:30	04:42	04:51	05:47		06:51	07:20 (29)	07:53	08:01	08:59
	16:13	17:19	18:22	20:29 23	07:42 (29)	21:33	22:26	22:26	21:32		20:12 15	07:35 (29)	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	07:20 (29)	05:28	04:41	04:53	05:49		06:53	07:22 (29)	07:55	08:03	09:01
	16:15	17:21	18:25	20:31 23	07:43 (29)	21:35	22:27	22:25	21:29		20:09 10	07:32 (29)	18:47	16:32	15:53
11	09:08	08:14	07:04	06:39	07:19 (29)	05:25	04:40	04:54	05:51		06:55		07:57	08:05	09:02
	16:17	17:24	18:27	20:33 23	07:42 (29)	21:37	22:28	22:24	21:27		20:06		18:45	16:30	15:52
12	09:07	08:12	07:01	06:36	07:20 (29)	05:23	04:40	04:56	05:53		06:57		07:59	08:08	09:03
	16:19	17:26	18:29	20:36 21	07:41 (29)	21:39	22:29	22:23	21:25		20:04		18:42	16:28	15:52
13	09:06	08:10	06:58	06:34	07:20 (29)	05:21	04:39	04:57	05:55		06:59		08:01	08:10	09:04
	16:21	17:28	18:31	20:38 20	07:40 (29)	21:41	22:29	22:22	21:22		20:01		18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	07:21 (29)	05:19	04:39	04:58	05:57		07:01		08:03	08:12	09:05
	16:22	17:31	18:33	20:40 17	07:38 (29)	21:43	22:30	22:21	21:20		19:58		18:37	16:25	15:52
15	09:03	08:05	06:53	06:29	07:23 (29)	05:17	04:39	05:00	05:59		07:03		08:06	08:14	09:07
	16:24	17:33	18:36	20:42 13	07:36 (29)	21:45	22:31	22:19	21:17		19:55		18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	07:24 (29)	05:15	04:38	05:02	06:01		07:05		08:08	08:16	09:07
	16:26	17:35	18:38	20:44 9	07:33 (29)	21:47	22:31	22:18	21:15		19:53		18:31	16:21	15:51
17	09:01	08:00	06:47	06:23		05:13	04:38	05:03	06:03		07:07		08:10	08:19	09:08
	16:28	17:38	18:40	20:46		21:49	22:32	22:16	21:13		19:50		18:29	16:19	15:52
18	08:59	07:58	06:45	06:21		05:11	04:38	05:05	06:05		07:09		08:12	08:21	09:09
	16:30	17:40	18:42	20:48		21:51	22:32	22:15	21:10		19:47		18:26	16:17	15:52
19	08:58	07:55	06:42	06:18		05:09	04:38	05:06	06:07		07:11		08:14	08:23	09:10
	16:32	17:42	18:44	20:51		21:53	22:33	22:13	21:08		19:44		18:24	16:16	15:52
20	08:57	07:53	06:39	06:15		05:08	04:38	05:08	06:09		07:13		08:16	08:25	09:11
	16:34	17:44	18:46	20:53		21:55	22:33	22:12	21:05		19:42		18:21	16:14	15:52
21	08:55	07:50	06:36	06:13		05:06	04:38	05:10	06:11		07:15		08:19	08:27	09:11
	16:36	17:47	18:48	20:55		21:57	22:34	22:10	21:02		19:39		18:19	16:12	15:53
22	08:54	07:48	06:34	06:10		05:04	04:38	05:12	06:13		07:17		08:21	08:29	09:12
	16:38	17:49	18:51	20:57		21:59	22:34	22:09	21:00		19:36		18:16	16:11	15:53
23	08:52	07:45	06:31	06:08		05:02	04:39	05:13	06:15		07:19		08:23	08:31	09:12
	16:41	17:51	18:53	20:59		22:01	22:34	22:07	20:57		19:33		18:14	16:09	15:54
24	08:50	07:43	06:28	06:05		05:01	04:39	05:15	06:18		07:21		08:25	08:33	09:13
	16:43	17:53	18:55	21:01		22:02	22:34	22:05	20:55		19:31		18:11	16:08	15:54
25	08:49	07:40	06:25	06:03		04:59	04:39	05:17	06:20		07:23		07:27	08:35	09:13
	16:45	17:56	18:57	21:04		22:04	22:34	22:03	20:52		19:28		17:09	16:06	15:55
26	08:47	07:38	06:23	06:00		04:58	04:40	05:19	06:22		07:25		07:30	08:37	09:13
	16:47	17:58	18:59	21:06		22:06	22:34	22:01	20:50		19:25		17:06	16:05	15:56
27	08:45	07:35	06:20	05:58		04:56	04:40	05:21	06:24	07:26 (29)	07:28		07:32	08:39	09:14
	16:49	18:00	19:01	21:08		22:08	22:34	21:59	20:47 9	07:35 (29)	19:22		17:04	16:04	15:56
28	08:43	07:33	06:17	05:55		04:55	04:41	05:23	06:26	07:23 (29)	07:30		07:34	08:41	09:14
	16:52	18:02	19:03	21:10		22:09	22:33	21:58	20:44 14	07:37 (29)	19:20		17:01	16:03	15:57
29	08:42		07:14	05:53		04:53	04:42	05:25	06:28	07:22 (29)	07:32		07:36	08:43	09:14
	16:54		20:06	21:12		22:11	22:33	21:56	20:42 17	07:39 (29)	19:17		16:59	16:01	15:58
30	08:40		07:12	05:50		04:52	04:42	05:27	06:30	07:20 (29)	07:34		07:39	08:45	09:14
	16:56		20:08	21:14		22:12	22:33	21:54	20:39 20	07:40 (29)	19:14		16:57	16:00	15:59
31	08:38		07:09			04:51		05:28	06:32	07:19 (29)			07:41		09:14
	16:58		20:10			22:14		21:52	20:36 21	07:40 (29)			16:54		16:00
Potential sun hours	231	264	366	428		511	534	534	472		385		322	244	212
Total, worst case					279					81		200			
Sun reduction					0.55					0.59		0.50			
Oper. time red.					0.94					0.94		0.94			
Wind dir. red.					0.64					0.64		0.64			
Total reduction					0.33					0.35		0.30			
Total, real					92					29		60			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HQ - Vanagi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March			April			May	June
1	09:13		10:03 (34)	08:36		13:41 (10)	07:30		08:04 (35)	07:06		19:08 (7)	05:47	04:49
	16:01	89	14:46 (11)	17:00	36	14:17 (10)	18:04	64	17:33 (8)	20:12	20	19:28 (7)	21:16	22:16
2	09:13		10:02 (34)	08:34		13:42 (10)	07:27		08:02 (35)	07:03		19:09 (7)	05:45	04:47
	16:02	92	14:46 (11)	17:02	34	14:16 (10)	18:06	74	17:35 (8)	20:14	18	19:27 (7)	21:18	22:17
3	09:13		10:02 (34)	08:32		13:44 (10)	07:24		08:01 (35)	07:00		19:10 (7)	05:43	04:46
	16:04	93	14:47 (11)	17:05	31	14:15 (10)	18:09	80	17:36 (8)	20:16	16	19:26 (7)	21:20	22:18
4	09:12		10:03 (34)	08:30		13:45 (10)	07:22		08:00 (35)	06:57		19:11 (7)	05:40	04:45
	16:05	93	14:48 (11)	17:07	28	14:13 (10)	18:11	86	17:37 (8)	20:18	12	19:23 (7)	21:23	22:20
5	09:12		10:03 (34)	08:27		13:48 (10)	07:19		08:00 (35)	06:55		19:14 (7)	05:38	04:44
	16:06	94	14:48 (11)	17:09	23	14:11 (10)	18:13	89	17:39 (8)	20:20	5	19:19 (7)	21:25	22:21
6	09:11		10:03 (34)	08:25		13:51 (10)	07:17		07:59 (35)	06:52			05:36	04:43
	16:08	95	14:48 (11)	17:11	18	14:09 (10)	18:15	91	17:39 (8)	20:22			21:27	22:22
7	09:11		10:03 (34)	08:23		13:55 (10)	07:14		07:58 (35)	06:49			05:33	04:42
	16:09	98	14:49 (11)	17:14	10	14:05 (10)	18:18	92	17:39 (8)	20:25			21:29	22:23
8	09:10		10:03 (34)	08:21			07:11		07:58 (35)	06:47			05:31	04:42
	16:11	97	14:49 (11)	17:16			18:20	93	17:39 (8)	20:27			21:31	22:25
9	09:09		10:03 (34)	08:19			07:09		07:59 (35)	06:44			05:29	04:41
	16:13	99	14:50 (11)	17:18			18:22	91	17:39 (8)	20:29			21:33	22:26
10	09:08		10:03 (34)	08:16			07:06		07:58 (35)	06:41			05:27	04:40
	16:14	100	14:50 (11)	17:21			18:24	91	17:38 (8)	20:31			21:35	22:27
11	09:07		10:04 (34)	08:14			07:03		07:59 (35)	06:39			05:25	04:39
	16:16	100	14:51 (11)	17:23			18:26	89	17:38 (8)	20:33			21:37	22:28
12	09:06		10:03 (34)	08:12			07:00		07:59 (35)	06:36			05:23	04:39
	16:18	100	14:50 (11)	17:25			18:29	87	17:37 (8)	20:35			21:39	22:29
13	09:05		10:04 (34)	08:10			06:58		08:00 (35)	06:33			05:20	04:38
	16:20	100	14:51 (11)	17:28			18:31	83	17:36 (8)	20:37			21:41	22:29
14	09:04		10:03 (34)	08:07			06:55		08:01 (35)	06:31			05:18	04:38
	16:22	101	14:50 (11)	17:30			18:33	78	17:35 (8)	20:40			21:43	22:30
15	09:03		10:04 (34)	08:05			06:52		08:03 (35)	06:28			05:16	04:38
	16:23	101	14:51 (11)	17:32			18:35	68	17:32 (8)	20:42			21:45	22:31
16	09:02		10:04 (34)	08:02			06:50		08:06 (35)	06:25			05:14	04:37
	16:25	101	14:51 (11)	17:35			18:37	55	17:29 (8)	20:44			21:47	22:31
17	09:01		10:05 (34)	08:00			06:47		16:38 (9)	06:23			05:12	04:37
	16:27	100	14:51 (11)	17:37			18:39	33	17:11 (9)	20:46			21:49	22:32
18	08:59		10:05 (34)	07:58			06:44		16:39 (9)	06:20			05:11	04:37
	16:29	99	14:51 (11)	17:39			18:42	31	17:10 (9)	20:48			21:51	22:33
19	08:58		10:05 (34)	07:55			06:41		16:40 (9)	06:17			05:09	04:37
	16:31	98	14:50 (11)	17:41			18:44	28	17:08 (9)	20:50			21:53	22:33
20	08:57		10:06 (34)	07:53			06:39		16:42 (9)	06:15			05:07	04:37
	16:33	96	14:50 (11)	17:44			18:46	23	17:05 (9)	20:53			21:55	22:33
21	08:55		10:07 (34)	07:50			06:36		16:44 (9)	06:12			05:05	04:37
	16:36	93	14:50 (11)	17:46			18:48	18	17:02 (9)	20:55			21:57	22:34
22	08:53		10:07 (34)	07:48			06:33		16:49 (9)	06:10			05:03	04:37
	16:38	89	14:49 (11)	17:48			18:50	9	16:58 (9)	20:57			21:59	22:34
23	08:52		10:08 (34)	07:45			06:30		18:16 (7)	06:07			05:02	04:38
	16:40	85	14:47 (11)	17:51			18:52	8	18:24 (7)	20:59			22:01	22:34
24	08:50		10:08 (34)	07:43		16:56 (9)	06:28		18:13 (7)	06:05			05:00	04:38
	16:42	81	14:46 (11)	17:53	5	17:01 (9)	18:54	13	18:26 (7)	21:01			22:02	22:34
25	08:49		10:09 (34)	07:40		16:50 (9)	06:25		18:11 (7)	06:02			04:58	04:38
	16:44	68	14:41 (11)	17:55	16	17:06 (9)	18:57	17	18:28 (7)	21:03			22:04	22:34
26	08:47		10:10 (34)	07:37		08:12 (35)	06:22		18:11 (7)	06:00			04:57	04:39
	16:46	65	14:19 (10)	17:57	27	17:09 (9)	18:59	19	18:30 (7)	21:05			22:06	22:34
27	08:45		10:11 (34)	07:35		08:07 (35)	06:19		18:09 (7)	05:57			04:55	04:39
	16:49	63	14:19 (10)	18:00	41	17:11 (9)	19:01	21	18:30 (7)	21:08			22:08	22:34
28	08:43		10:13 (34)	07:32		08:05 (35)	06:17		18:08 (7)	05:55			04:54	04:40
	16:51	59	14:19 (10)	18:02	48	17:12 (9)	19:03	22	18:30 (7)	21:10			22:09	22:34
29	08:41		10:15 (34)				07:14		19:08 (7)	05:52			04:52	04:41
	16:53	55	14:19 (10)				20:05	22	19:30 (7)	21:12			22:11	22:33
30	08:40		10:18 (34)				07:11		19:08 (7)	05:50			04:51	04:41
	16:55	48	14:18 (10)				20:07	22	19:30 (7)	21:14			22:12	22:33
31	08:38		13:39 (10)				07:08		19:08 (7)				04:50	
	16:58	38	14:17 (10)				20:10	21	19:29 (7)				22:14	
Potential sun hours	231			264			366			428			512	534
Total, worst case		2690			317			1618			71			
Sun reduction		0.28			0.33			0.46			0.55			
Oper. time red.		0.94			0.94			0.94			0.94			
Wind dir. red.		0.65			0.66			0.65			0.64			
Total reduction		0.17			0.21			0.28			0.33			
Total, real		453			65			451			23			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HQ - Vanagi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September			October			November			December		
1	04:42	05:30	06:34			07:35		08:38 (35)	07:43			08:46		09:45 (34)
	22:32	21:49	20:33			19:11	85	18:15 (8)	16:51			15:58	100	14:32 (11)
2	04:43	05:32	06:36			07:38		08:38 (35)	07:45			08:48		09:45 (34)
	22:32	21:47	20:31			19:08	88	18:16 (8)	16:49			15:57	100	14:32 (11)
3	04:44	05:34	06:38			07:40		08:37 (35)	07:47			08:50		09:46 (34)
	22:31	21:45	20:28			19:06	90	18:16 (8)	16:47			15:56	98	14:33 (11)
4	04:45	05:36	06:40			07:42		08:36 (35)	07:50		13:23 (10)	08:52		09:47 (34)
	22:31	21:43	20:25			19:03	91	18:16 (8)	16:45	12	13:35 (10)	15:56	98	14:33 (11)
5	04:46	05:38	06:42			07:44		08:35 (35)	07:52		13:20 (10)	08:53		09:48 (34)
	22:30	21:41	20:22			19:00	93	18:16 (8)	16:42	19	13:39 (10)	15:55	97	14:34 (11)
6	04:47	05:40	06:44			07:46		08:34 (35)	07:54		13:17 (10)	08:55		09:49 (34)
	22:29	21:38	20:20			18:57	93	18:15 (8)	16:40	24	13:41 (10)	15:54	95	14:34 (11)
7	04:48	05:42	06:46		19:11 (7)	07:48		08:34 (35)	07:56		13:16 (10)	08:56		09:50 (34)
	22:28	21:36	20:17	4	19:15 (7)	18:55	91	18:14 (8)	16:38	28	13:44 (10)	15:53	95	14:35 (11)
8	04:49	05:44	06:48		19:07 (7)	07:50		08:35 (35)	07:59		13:14 (10)	08:58		09:50 (34)
	22:27	21:34	20:14	11	19:18 (7)	18:52	89	18:14 (8)	16:36	31	13:45 (10)	15:53	93	14:35 (11)
9	04:51	05:46	06:50		19:04 (7)	07:52		08:35 (35)	08:01		13:13 (10)	08:59		09:51 (34)
	22:26	21:32	20:12	16	19:20 (7)	18:49	88	18:13 (8)	16:34	34	13:47 (10)	15:52	92	14:36 (11)
10	04:52	05:48	06:52		19:03 (7)	07:54		08:35 (35)	08:03		13:11 (10)	09:01		09:51 (34)
	22:25	21:29	20:09	18	19:21 (7)	18:47	85	18:12 (8)	16:32	36	13:47 (10)	15:52	92	14:36 (11)
11	04:53	05:50	06:54		19:01 (7)	07:57		08:35 (35)	08:05		13:11 (10)	09:02		09:53 (34)
	22:24	21:27	20:06	20	19:21 (7)	18:44	79	18:10 (8)	16:30	38	13:49 (10)	15:51	89	14:36 (11)
12	04:55	05:52	06:56		19:00 (7)	07:59		08:36 (35)	08:07		09:48 (34)	09:03		09:53 (34)
	22:23	21:25	20:03	21	19:21 (7)	18:41	70	18:08 (8)	16:28	49	13:49 (10)	15:51	87	14:36 (11)
13	04:56	05:54	06:58		19:00 (7)	08:01		08:37 (35)	08:10		09:47 (34)	09:04		09:54 (34)
	22:22	21:22	20:01	21	19:21 (7)	18:39	59	18:04 (8)	16:26	55	13:51 (10)	15:51	87	14:37 (11)
14	04:58	05:56	07:00		18:59 (7)	08:03		08:39 (35)	08:12		09:45 (34)	09:05		09:55 (34)
	22:21	21:20	19:58	22	19:21 (7)	18:36	46	17:45 (9)	16:24	59	13:51 (10)	15:51	87	14:38 (11)
15	04:59	05:58	07:02		18:59 (7)	08:05		08:41 (35)	08:14		09:44 (34)	09:07		09:56 (34)
	22:19	21:17	19:55	22	19:21 (7)	18:33	36	17:42 (9)	16:22	63	13:52 (10)	15:51	85	14:38 (11)
16	05:01	06:00	07:04		18:59 (7)	08:07		17:21 (9)	08:16		09:43 (34)	09:07		09:57 (34)
	22:18	21:15	19:52	21	19:20 (7)	18:31	20	17:41 (9)	16:20	66	13:52 (10)	15:51	84	14:38 (11)
17	05:02	06:02	07:06		18:59 (7)	08:10		17:23 (9)	08:18		09:43 (34)	09:08		09:57 (34)
	22:16	21:12	19:50	20	19:19 (7)	18:28	14	17:37 (9)	16:18	70	14:16 (11)	15:51	84	14:39 (11)
18	05:04	06:04	07:09		18:59 (7)	08:12			08:21		09:42 (34)	09:09		09:58 (34)
	22:15	21:10	19:47	18	19:17 (7)	18:26			16:17	81	14:20 (11)	15:51	83	14:39 (11)
19	05:06	06:07	07:11		19:00 (7)	08:14			08:23		09:43 (34)	09:10		09:58 (34)
	22:13	21:07	19:44	14	19:14 (7)	18:23			16:15	85	14:22 (11)	15:51	83	14:39 (11)
20	05:07	06:09	07:13		19:02 (7)	08:16			08:25		09:42 (34)	09:11		09:59 (34)
	22:12	21:05	19:41	9	19:11 (7)	18:21			16:13	89	14:24 (11)	15:51	82	14:40 (11)
21	05:09	06:11	07:15		17:37 (9)	08:18			08:27		09:42 (34)	09:11		10:00 (34)
	22:10	21:02	19:38	6	19:08 (7)	18:18			16:12	94	14:25 (11)	15:52	82	14:41 (11)
22	05:11	06:13	07:17		17:31 (9)	08:20			08:29		09:42 (34)	09:12		10:00 (34)
	22:09	21:00	19:36	16	17:47 (9)	18:15			16:10	96	14:26 (11)	15:52	82	14:41 (11)
23	05:13	06:15	07:19		17:27 (9)	08:23			08:31		09:42 (34)	09:12		10:00 (34)
	22:07	20:57	19:33	22	17:49 (9)	18:13			16:08	97	14:27 (11)	15:53	82	14:41 (11)
24	05:14	06:17	07:21		17:24 (9)	08:25			08:33		09:42 (34)	09:13		10:01 (34)
	22:05	20:54	19:30	27	17:51 (9)	18:10			16:07	99	14:28 (11)	15:53	82	14:42 (11)
25	05:16	06:19	07:23		17:22 (9)	07:27			08:35		09:43 (34)	09:13		10:01 (34)
	22:03	20:52	19:27	30	17:52 (9)	17:08			16:06	100	14:29 (11)	15:54	83	14:42 (11)
26	05:18	06:21	07:25		17:20 (9)	07:29			08:37		09:43 (34)	09:13		10:01 (34)
	22:01	20:49	19:25	33	17:53 (9)	17:06			16:04	101	14:30 (11)	15:55	83	14:43 (11)
27	05:20	06:23	07:27		08:50 (35)	07:32			08:39		09:43 (34)	09:14		10:01 (34)
	21:59	20:47	19:22	47	18:10 (8)	17:03			16:03	101	14:30 (11)	15:55	85	14:43 (11)
28	05:22	06:25	07:29		08:45 (35)	07:34			08:41		09:43 (34)	09:14		10:02 (34)
	21:57	20:44	19:19	65	18:13 (8)	17:01			16:02	102	14:31 (11)	15:56	84	14:44 (11)
29	05:24	06:27	07:31		08:42 (35)	07:36			08:43		09:44 (34)	09:14		10:02 (34)
	21:55	20:41	19:16	74	18:14 (8)	16:58			16:01	100	14:31 (11)	15:57	86	14:44 (11)
30	05:26	06:29	07:33		08:40 (35)	07:38			08:45		09:44 (34)	09:14		10:02 (34)
	21:53	20:39	19:14	82	18:15 (8)	16:56			15:59	101	14:31 (11)	15:58	87	14:45 (11)
31	05:28	06:31				07:41						09:14		10:02 (34)
	21:51	20:36				16:54						15:59	88	14:45 (11)
Potential sun hours	534	472	385			322			244			211		
Total, worst case				639			1217			1830			2735	
Sun reduction				0.50			0.42			0.23			0.23	
Oper. time red.				0.94			0.94			0.94			0.94	
Wind dir. red.				0.65			0.65			0.65			0.66	
Total reduction				0.30			0.26			0.14			0.14	
Total, real				194			313			258			382	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HR - Varpas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September		October		November	December
1	09:14	08:36		07:30		07:06	05:48	04:49	04:42	05:30	06:34		07:36	08:05 (42)	07:43	08:47
	16:01	17:00		18:05		20:12	21:17	22:16	22:33	21:50	20:34		19:11 18	08:23 (42)	16:52	15:59
2	09:14	08:34		07:27		07:03	05:45	04:48	04:43	05:32	06:36		07:38	08:07 (42)	07:45	08:49
	16:03	17:03		18:07		20:14	21:19	22:17	22:32	21:48	20:31		19:09 14	08:21 (42)	16:49	15:58
3	09:13	08:32		07:25		07:01	05:43	04:47	04:44	05:34	06:38		07:40	08:09 (42)	07:48	08:50
	16:04	17:05		18:09		20:16	21:21	22:19	22:32	21:45	20:28		19:06 10	08:19 (42)	16:47	15:57
4	09:13	08:30		07:22		06:58	05:41	04:46	04:45	05:36	06:40		07:42	08:11 (42)	07:50	08:52
	16:05	17:07		18:11		20:18	21:23	22:20	22:31	21:43	20:26		19:03 5	08:16 (42)	16:45	15:56
5	09:12	08:28		07:20		06:55	05:38	04:45	04:46	05:38	06:42		07:44		07:52	08:54
	16:07	17:09		18:13		20:21	21:25	22:21	22:30	21:41	20:23		19:00		16:43	15:55
6	09:12	08:26		07:17		06:52	05:36	04:44	04:47	05:40	06:44		07:46		07:54	08:55
	16:08	17:12		18:16		20:23	21:27	22:23	22:30	21:39	20:20		18:58		16:40	15:54
7	09:11	08:24		07:14		06:50	05:34	04:43	04:48	05:42	06:46		07:48		07:57	08:57
	16:10	17:14		18:18		20:25	21:29	22:24	22:29	21:37	20:17		18:55		16:38	15:54
8	09:10	08:21		07:12		06:47	05:32	04:42	04:50	05:44	06:48		07:51		07:59	08:58
	16:11	17:16		18:20		20:27	21:31	22:25	22:28	21:34	20:15		18:52		16:36	15:53
9	09:10	08:19		07:09		06:44	05:29	04:41	04:51	05:46	06:50		07:53		08:01	09:00
	16:13	17:19		18:22		20:29	21:33	22:26	22:27	21:32	20:12		18:50		16:34	15:53
10	09:09	08:17		07:06	07:32 (42)	06:42	05:27	04:40	04:52	05:48	06:52		07:55		08:03	09:01
	16:15	17:21		18:25	8 07:40 (42)	20:31	21:36	22:27	22:26	21:30	20:09		18:47		16:32	15:52
11	09:08	08:15		07:03	07:30 (42)	06:39	05:25	04:40	04:54	05:50	06:55		07:57		08:06	09:02
	16:16	17:23		18:27	12 07:42 (42)	20:34	21:38	22:28	22:25	21:27	20:06		18:44		16:30	15:52
12	09:07	08:12	08:41 (41)	07:01	07:27 (42)	06:36	05:23	04:39	04:55	05:52	06:57		07:59		08:08	09:04
	16:18	17:26 3	08:44 (41)	18:29	16 07:43 (42)	20:36	21:40	22:29	22:24	21:25	20:04		18:42		16:28	15:51
13	09:06	08:10	08:39 (41)	06:58	07:24 (42)	06:34	05:21	04:39	04:56	05:54	06:59		08:01		08:10	09:05
	16:20	17:28 10	08:49 (41)	18:31	20 07:44 (42)	20:38	21:42	22:30	22:22	21:23	20:01		18:39		16:26	15:51
14	09:05	08:08	08:36 (41)	06:55	07:23 (42)	06:31	05:19	04:38	04:58	05:57	07:01		08:03	09:09 (41)	08:12	09:06
	16:22	17:30 15	08:51 (41)	18:33	21 07:44 (42)	20:40	21:44	22:31	22:21	21:20	19:58		18:36 10	09:19 (41)	16:24	15:51
15	09:04	08:05	08:34 (41)	06:53	07:22 (42)	06:28	05:17	04:38	04:59	05:59	07:03		08:06	09:07 (41)	08:14	09:07
	16:24	17:33 18	08:52 (41)	18:35	22 07:44 (42)	20:42	21:46	22:31	22:20	21:18	19:55		18:34 15	09:22 (41)	16:22	15:51
16	09:02	08:03	08:33 (41)	06:50	07:22 (42)	06:26	05:15	04:38	05:01	06:01	07:05		08:08	09:05 (41)	08:17	09:08
	16:26	17:35 20	08:53 (41)	18:38	22 07:44 (42)	20:44	21:48	22:32	22:18	21:15	19:53		18:31 18	09:23 (41)	16:20	15:51
17	09:01	08:00	08:32 (41)	06:47	07:22 (42)	06:23	05:13	04:38	05:03	06:03	07:07		08:10	09:04 (41)	08:19	09:09
	16:28	17:37 22	08:54 (41)	18:40	21 07:43 (42)	20:46	21:50	22:32	22:17	21:13	19:50		18:29 20	09:24 (41)	16:19	15:51
18	09:00	07:58	08:31 (41)	06:44	07:22 (42)	06:20	05:11	04:38	05:04	06:05	07:09		08:12	09:03 (41)	08:21	09:10
	16:30	17:40 23	08:54 (41)	18:42	21 07:43 (42)	20:49	21:52	22:33	22:15	21:10	19:47		18:26 22	09:25 (41)	16:17	15:51
19	08:58	07:56	08:32 (41)	06:42	07:22 (42)	06:18	05:09	04:38	05:06	06:07	07:11		08:14	09:02 (41)	08:23	09:10
	16:32	17:42 23	08:55 (41)	18:44	19 07:41 (42)	20:51	21:54	22:33	22:14	21:08	19:44		18:23 23	09:25 (41)	16:15	15:51
20	08:57	07:53	08:31 (41)	06:39	07:23 (42)	06:15	05:07	04:38	05:08	06:09	07:13		08:16	09:01 (41)	08:25	09:11
	16:34	17:44 24	08:55 (41)	18:46	18 07:41 (42)	20:53	21:55	22:34	22:12	21:05	19:42		18:21 24	09:25 (41)	16:14	15:52
21	08:55	07:51	08:30 (41)	06:36	07:24 (42)	06:13	05:05	04:38	05:09	06:11	07:15	08:12 (42)	08:19	09:02 (41)	08:27	09:12
	16:36	17:46 24	08:54 (41)	18:48	15 07:39 (42)	20:55	21:57	22:34	22:11	21:03	19:39 9	08:21 (42)	18:18 24	09:26 (41)	16:12	15:52
22	08:54	07:48	08:31 (41)	06:33	07:26 (42)	06:10	05:04	04:38	05:11	06:13	07:17	08:09 (42)	08:21	09:01 (41)	08:29	09:12
	16:38	17:49 24	08:55 (41)	18:51	10 07:36 (42)	20:57	21:59	22:34	22:09	21:00	19:36 14	08:23 (42)	18:16 24	09:25 (41)	16:10	15:52
23	08:52	07:46	08:31 (41)	06:31		06:08	05:02	04:38	05:13	06:15	07:19	08:07 (42)	08:23	09:01 (41)	08:31	09:13
	16:40	17:51 23	08:54 (41)	18:53		20:59	22:01	22:34	22:07	20:57	19:33 17	08:24 (42)	18:13 23	09:24 (41)	16:09	15:53
24	08:51	07:43	08:31 (41)	06:28		06:05	05:00	04:38	05:15	06:17	07:21	08:06 (42)	08:25	09:02 (41)	08:33	09:13
	16:42	17:53 22	08:53 (41)	18:55		21:02	22:03	22:34	22:05	20:55	19:31 19	08:25 (42)	18:11 23	09:25 (41)	16:07	15:54
25	08:49	07:40	08:33 (41)	06:25		06:02	04:59	04:39	05:17	06:19	07:23	08:05 (42)	07:28	08:02 (41)	08:35	09:14
	16:45	17:56 19	08:52 (41)	18:57		21:04	22:05	22:34	22:04	20:52	19:28 20	08:25 (42)	17:08 21	08:23 (41)	16:06	15:54
26	08:47	07:38	08:34 (41)	06:23		06:00	04:57	04:39	05:18	06:21	07:25	08:04 (42)	07:30	08:03 (41)	08:37	09:14
	16:47	17:58 17	08:51 (41)	18:59		21:06	22:06	22:34	22:02	20:50	19:25 21	08:25 (42)	17:06 20	08:23 (41)	16:05	15:55
27	08:45	07:35	08:35 (41)	06:20		05:58	04:56	04:40	05:20	06:24	07:27	08:03 (42)	07:32	08:04 (41)	08:39	09:14
	16:49	18:00 13	08:48 (41)	19:01		21:08	22:08	22:34	22:00	20:47	19:22 22	08:25 (42)	17:03 18	08:22 (41)	16:03	15:56
28	08:44	07:33	08:39 (41)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	08:04 (42)	07:34	08:06 (41)	08:41	09:14
	16:51	18:02 7	08:46 (41)	19:03		21:10	22:10	22:34	21:58	20:44	19:20 22	08:26 (42)	17:01 14	08:20 (41)	16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	08:04 (42)	07:36	08:09 (41)	08:43	09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17 21	08:25 (42)	16:59 9	08:18 (41)	16:01	15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34	08:04 (42)	07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14 20	08:24 (42)	16:56		16:00	15:59
31	08:38			07:09			04:50		05:28	06:32			07:41			09:14
	16:58			20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385		322		244	211
Total, worst case			307		225							185		355		
Sun reduction			0.33		0.46							0.50		0.42		
Oper. time red.			0.94		0.94							0.94		0.94		
Wind dir. red.			0.60		0.61							0.61		0.60		
Total reduction			0.19		0.26							0.28		0.24		
Total, real			57		59							52		85		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HS - Veckrastnieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:13		14:28 (35)	08:36	07:30	07:06	05:47	04:48	04:42	05:29	06:33	07:35	07:43			08:46		14:13 (35)
	16:01	28	14:56 (35)	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:51			15:58	29	14:42 (35)
2	09:13		14:28 (35)	08:34	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45			08:48		14:13 (35)
	16:02	28	14:56 (35)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49			15:57	29	14:42 (35)
3	09:13		14:28 (35)	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47			08:50		14:14 (35)
	16:03	28	14:56 (35)	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47			15:56	29	14:43 (35)
4	09:12		14:29 (35)	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:40	07:42	07:49			08:51		14:14 (35)
	16:05	28	14:57 (35)	17:07	18:11	20:18	21:22	22:20	22:31	21:43	20:25	19:03	16:44			15:55	29	14:43 (35)
5	09:12		14:29 (35)	08:27	07:19	06:55	05:38	04:44	04:46	05:37	06:42	07:44	07:52			08:53		14:15 (35)
	16:06	29	14:58 (35)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42			15:55	29	14:44 (35)
6	09:11		14:30 (35)	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54			08:55		14:16 (35)
	16:08	28	14:58 (35)	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40			15:54	28	14:44 (35)
7	09:11		14:30 (35)	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56			08:56		14:16 (35)
	16:09	29	14:59 (35)	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38			15:53	29	14:45 (35)
8	09:10		14:30 (35)	08:21	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58			08:58		14:16 (35)
	16:11	29	14:59 (35)	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36			15:53	28	14:44 (35)
9	09:09		14:31 (35)	08:19	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01			08:59		14:17 (35)
	16:12	29	15:00 (35)	17:18	18:22	20:29	21:33	22:26	22:26	21:32	20:11	18:49	16:34			15:52	28	14:45 (35)
10	09:08		14:31 (35)	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03			09:00		14:17 (35)
	16:14	29	15:00 (35)	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:46	16:31			15:52	28	14:45 (35)
11	09:07		14:31 (35)	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05			09:02		14:19 (35)
	16:16	29	15:00 (35)	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:29			15:51	27	14:46 (35)
12	09:06		14:31 (35)	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:07			09:03		14:19 (35)
	16:18	30	15:01 (35)	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27			15:51	27	14:46 (35)
13	09:05		14:32 (35)	08:09	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10			09:04		14:19 (35)
	16:19	29	15:01 (35)	17:27	18:31	20:37	21:41	22:29	22:22	21:22	20:00	18:39	16:26			15:51	27	14:46 (35)
14	09:04		14:32 (35)	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12			09:05		14:20 (35)
	16:21	29	15:01 (35)	17:30	18:33	20:39	21:43	22:30	22:21	21:20	19:58	18:36	16:24			15:50	27	14:47 (35)
15	09:03		14:33 (35)	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14		14:21 (35)	09:06		14:21 (35)
	16:23	29	15:02 (35)	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	6	14:27 (35)	15:50	26	14:47 (35)
16	09:02		14:33 (35)	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16		14:18 (35)	09:07		14:21 (35)
	16:25	29	15:02 (35)	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	12	14:30 (35)	15:50	26	14:47 (35)
17	09:01		14:34 (35)	08:00	06:47	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18		14:16 (35)	09:08		14:22 (35)
	16:27	28	15:02 (35)	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	16	14:32 (35)	15:50	26	14:48 (35)
18	08:59		14:35 (35)	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:20		14:15 (35)	09:09		14:22 (35)
	16:29	27	15:02 (35)	17:39	18:41	20:48	21:51	22:32	22:15	21:10	19:47	18:25	16:16	19	14:34 (35)	15:51	25	14:47 (35)
19	08:58		14:35 (35)	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:23		14:13 (35)	09:10		14:22 (35)
	16:31	27	15:02 (35)	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	21	14:34 (35)	15:51	26	14:48 (35)
20	08:56		14:37 (35)	07:53	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25		14:13 (35)	09:11		14:23 (35)
	16:33	25	15:02 (35)	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	23	14:36 (35)	15:51	26	14:49 (35)
21	08:55		14:38 (35)	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		14:13 (35)	09:11		14:23 (35)
	16:35	24	15:02 (35)	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	24	14:37 (35)	15:51	26	14:49 (35)
22	08:53		14:38 (35)	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		14:13 (35)	09:12		14:24 (35)
	16:38	23	15:01 (35)	17:48	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:15	16:10	25	14:38 (35)	15:52	26	14:50 (35)
23	08:52		14:39 (35)	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:23	08:31		14:12 (35)	09:12		14:24 (35)
	16:40	21	15:00 (35)	17:50	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	27	14:39 (35)	15:52	26	14:50 (35)
24	08:50		14:41 (35)	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:12 (35)	09:13		14:25 (35)
	16:42	19	15:00 (35)	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	27	14:39 (35)	15:53	26	14:51 (35)
25	08:48		14:43 (35)	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:12 (35)	09:13		14:26 (35)
	16:44	15	14:58 (35)	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	27	14:39 (35)	15:54	25	14:51 (35)
26	08:47		14:45 (35)	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37		14:12 (35)	09:13		14:26 (35)
	16:46	12	14:57 (35)	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	29	14:41 (35)	15:54	26	14:52 (35)
27	08:45		14:49 (35)	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39		14:12 (35)	09:14		14:26 (35)
	16:48	5	14:54 (35)	17:59	19:01	21:07	22:08	22:34	21:59	20:46	19:22	17:03	16:03	29	14:41 (35)	15:55	26	14:52 (35)
28	08:43			07:32	06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:34	08:41		14:12 (35)	09:14		14:27 (35)
	16:51			18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	29	14:41 (35)	15:56	26	14:53 (35)
29	08:41				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43		14:12 (35)	09:14		14:27 (35)
	16:53				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	29	14:41 (35)	15:57	27	14:54 (35)
30	08:39				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45		14:13 (35)	09:14		14:27 (35)
	16:55				20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	15:59	29	14:42 (35)	15:58	26	14:53 (35)
31	08:37				07:08		04:50		05:27	06:31		07:40				09:14		14:27 (35)
	16:57				20:09		22:14		21:51	20:36		16:53				15:59	27	14:54 (35)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244			211		
Total, worst case		686												372			836	
Sun reduction		0.28												0.23			0.23	
Oper. time red.		0.94												0.94			0.94	
Wind dir. red.		0.69												0.69			0.69	
Total reduction		0.18												0.15			0.15	
Total, real		122												55			122	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HT - Vecpriednieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:46	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:45	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:46	05:36	06:40	07:42	07:50	08:51
	16:06	17:07	18:11	20:18	21:23	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:39	04:45	04:47	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:41	15:55
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:39	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:17	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:30	04:42	04:51	05:46	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:27	04:41	04:53	05:48	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:53
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:51	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:53	06:57	07:59	08:07	09:03
	16:19	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:55	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:53	06:28	05:17	04:39	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:21	05:11	04:38	05:05	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:52
20	08:56	07:53	06:39	06:15	05:08	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:10	06:11	07:15	08:18	08:27	09:11
	16:36	17:47	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:33	22:08	21:00	19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08	05:02	04:39	05:13	06:15	07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:01	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:55
26	08:47	07:38	06:22	06:00	04:58	04:40	05:19	06:22	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:21	06:24	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:04	16:04	15:56
28	08:43	07:32	06:17	05:55	04:55	04:41	05:23	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:12	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:44	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:51		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	511	534	534	472	385	322	244	212
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HU - Vendzavas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June	July	August	September	October	November		December		
1	09:14		09:59 (35)	08:36	15:30 (9)	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43		08:46		09:42 (35)
	16:01	18	10:17 (35)	17:00	19 15:49 (9)	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51		15:58	24	10:06 (35)
2	09:13		09:58 (35)	08:34	15:32 (9)	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45		08:48		09:43 (35)
	16:02	19	10:17 (35)	17:02	16 15:48 (9)	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49		15:57	23	10:06 (35)
3	09:13		09:59 (35)	08:32	15:34 (9)	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47		08:50		09:43 (35)
	16:03	20	10:19 (35)	17:04	13 15:47 (9)	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47		15:56	23	10:06 (35)
4	09:12		09:59 (35)	08:30	15:36 (9)	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50		08:52		09:43 (35)
	16:05	20	10:19 (35)	17:07	8 15:44 (9)	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44		15:55	23	10:06 (35)
5	09:12		09:59 (35)	08:27		07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52		08:53		09:44 (35)
	16:06	21	10:20 (35)	17:09		18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42		15:55	22	10:06 (35)
6	09:11		09:59 (35)	08:25		07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54		08:55		09:45 (35)
	16:08	21	10:20 (35)	17:11		18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40		15:54	22	10:07 (35)
7	09:11		09:59 (35)	08:23		07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	15:06 (9)	08:56		09:46 (35)
	16:09	22	10:21 (35)	17:14		18:17	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	9 15:15 (9)	15:53	21	10:07 (35)
8	09:10		09:59 (35)	08:21		07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	15:04 (9)	08:58		09:46 (35)
	16:11	23	10:22 (35)	17:16		18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	13 15:17 (9)	15:53	20	10:06 (35)
9	09:09		09:59 (35)	08:19		07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	15:03 (9)	08:59		09:47 (35)
	16:13	24	10:23 (35)	17:18		18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	16 15:19 (9)	15:52	20	10:07 (35)
10	09:08		10:00 (35)	08:16		07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	15:01 (9)	09:01		09:47 (35)
	16:14	23	10:23 (35)	17:21		18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	19 15:20 (9)	15:52	20	10:07 (35)
11	09:07		10:00 (35)	08:14		07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	15:01 (9)	09:02		09:49 (35)
	16:16	24	10:24 (35)	17:23		18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	20 15:21 (9)	15:51	18	10:07 (35)
12	09:07		10:00 (35)	08:12		07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:07	15:00 (9)	09:03		09:49 (35)
	16:18	29	15:36 (9)	17:25		18:28	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	21 15:21 (9)	15:51	18	10:07 (35)
13	09:05		10:00 (35)	08:10		06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	15:00 (9)	09:04		09:50 (35)
	16:20	33	15:38 (9)	17:28		18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	22 15:22 (9)	15:51	17	10:07 (35)
14	09:04		10:00 (35)	08:07		06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:48 (35)	09:05		09:51 (35)
	16:21	37	15:40 (9)	17:30		18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	25 15:22 (9)	15:51	17	10:08 (35)
15	09:03		10:01 (35)	08:05		06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:44 (35)	09:07		09:52 (35)
	16:23	39	15:42 (9)	17:32		18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	34 15:23 (9)	15:50	16	10:08 (35)
16	09:02		10:01 (35)	08:02		06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:42 (35)	09:08		09:53 (35)
	16:25	41	15:43 (9)	17:35		18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	38 15:23 (9)	15:50	15	10:08 (35)
17	09:01		10:02 (35)	08:00		06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:42 (35)	09:08		09:53 (35)
	16:27	42	15:45 (9)	17:37		18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	40 15:24 (9)	15:51	15	10:08 (35)
18	08:59		10:02 (35)	07:58		06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21	09:41 (35)	09:09		09:54 (35)
	16:29	44	15:46 (9)	17:39		18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	42 15:24 (9)	15:51	15	10:09 (35)
19	08:58		10:02 (35)	07:55		06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:41 (35)	09:10		09:54 (35)
	16:31	44	15:46 (9)	17:41		18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	43 15:24 (9)	15:51	14	10:08 (35)
20	08:57		10:04 (35)	07:53		06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:40 (35)	09:11		09:55 (35)
	16:33	45	15:48 (9)	17:44		18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	44 15:24 (9)	15:51	14	10:09 (35)
21	08:55		10:04 (35)	07:50		06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:39 (35)	09:11		09:56 (35)
	16:36	45	15:48 (9)	17:46		18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:11	46 15:24 (9)	15:52	14	10:10 (35)
22	08:54		10:05 (35)	07:48		06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29	09:40 (35)	09:12		09:56 (35)
	16:38	44	15:49 (9)	17:48		18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	45 15:24 (9)	15:52	14	10:10 (35)
23	08:52		10:06 (35)	07:45		06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:39 (35)	09:12		09:56 (35)
	16:40	43	15:49 (9)	17:51		18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	44 15:23 (9)	15:53	14	10:10 (35)
24	08:50		10:07 (35)	07:43		06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:39 (35)	09:13		09:57 (35)
	16:42	42	15:50 (9)	17:53		18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	44 15:23 (9)	15:53	14	10:11 (35)
25	08:49		10:08 (35)	07:40		06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:40 (35)	09:13		09:57 (35)
	16:44	40	15:50 (9)	17:55		18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	43 15:23 (9)	15:54	15	10:12 (35)
26	08:47		10:09 (35)	07:37		06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:40 (35)	09:14		09:57 (35)
	16:46	38	15:50 (9)	17:57		18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	42 15:23 (9)	15:55	15	10:12 (35)
27	08:45		10:12 (35)	07:35		06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:40 (35)	09:14		09:57 (35)
	16:49	33	15:50 (9)	18:00		19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	40 15:22 (9)	15:55	16	10:13 (35)
28	08:43		15:27 (9)	07:32		06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:40 (35)	09:14		09:58 (35)
	16:51	24	15:51 (9)	18:02		19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	37 15:20 (9)	15:56	16	10:14 (35)
29	08:41		15:28 (9)			07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:41 (35)	09:14		09:58 (35)
	16:53	23	15:51 (9)			20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	32 15:18 (9)	15:57	16	10:14 (35)
30	08:40		15:29 (9)			07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:42 (35)	09:14		09:58 (35)
	16:55	21	15:50 (9)			20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	29 15:18 (9)	15:58	17	10:15 (35)
31	08:38		15:29 (9)			07:08		04:50		05:28	06:31		07:41			09:14		09:58 (35)
	16:58	20	15:49 (9)			20:10		22:14		21:51	20:36		16:54			15:59	18	10:16 (35)
Potential sun hours	231			264		366	428	512	534	534	472	385	322	244		211		
Total, worst case		962			56										788		546	
Sun reduction		0.28			0.33										0.23		0.23	
Oper. time red.		0.94			0.94										0.94		0.94	
Wind dir. red.		0.63			0.68										0.64		0.60	
Total reduction		0.16			0.21										0.14		0.13	
Total, real		156			12										109		69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HV - Ventaskrasti A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HW - Ventaskrasti B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:31	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HX - Ventaskrasti C

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:14		13:58 (9)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47		
	16:01	12	14:10 (9)	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58		
2	09:13		13:58 (9)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48		
	16:02	12	14:10 (9)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57		
3	09:13		14:00 (9)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50		
	16:03	10	14:10 (9)	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56		
4	09:13		14:01 (9)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		
	16:05	8	14:09 (9)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55		
5	09:12		14:04 (9)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		
	16:06	3	14:07 (9)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55		
6	09:11			08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		
	16:08			17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54		
7	09:11			08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		13:51 (9)
	16:09			17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53	3	13:54 (9)
8	09:10			08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58		13:49 (9)
	16:11			17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53	7	13:56 (9)
9	09:09			08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		13:48 (9)
	16:13			17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52	10	13:58 (9)
10	09:08			08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		13:48 (9)
	16:14			17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52	12	14:00 (9)
11	09:08			08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		13:48 (9)
	16:16			17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51	12	14:00 (9)
12	09:07			08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03		13:47 (9)
	16:18			17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51	14	14:01 (9)
13	09:06			08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		13:48 (9)
	16:20			17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51	15	14:03 (9)
14	09:04			08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06		13:48 (9)
	16:21			17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51	15	14:03 (9)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		13:48 (9)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	16	14:04 (9)
16	09:02			08:02	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08		13:48 (9)
	16:25			17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50	16	14:04 (9)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09		13:48 (9)
	16:27			17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51	17	14:05 (9)
18	08:59			07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09		13:49 (9)
	16:29			17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51	17	14:06 (9)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10		13:49 (9)
	16:31			17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51	17	14:06 (9)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		13:49 (9)
	16:33			17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51	18	14:07 (9)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12		13:50 (9)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	18	14:08 (9)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12		13:50 (9)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52	18	14:08 (9)
23	08:52			07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13		13:51 (9)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53	18	14:09 (9)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		13:51 (9)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53	18	14:09 (9)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		13:52 (9)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54	17	14:09 (9)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14		13:52 (9)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55	17	14:09 (9)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		13:53 (9)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55	16	14:09 (9)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		13:54 (9)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56	16	14:10 (9)
29	08:42				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14		13:55 (9)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57	15	14:10 (9)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		13:56 (9)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58	14	14:10 (9)
31	08:38				07:08		04:50		05:28	06:31		07:41		09:14		13:56 (9)
	16:58				20:10		22:14		21:52	20:36		16:54		15:59	14	14:10 (9)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		45													370	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.67													0.67	
Total reduction		0.17													0.14	
Total, real		8													53	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HY - Ventaskrasti D

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: HZ - Ventaskrasti E

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IA - Ventaskrasti F

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IB - Ventaskrasti G

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:14		13:58 (9)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47		
	16:01	14	14:12 (9)	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58		
2	09:13		13:58 (9)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48		
	16:02	13	14:11 (9)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57		
3	09:13		14:00 (9)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50		
	16:03	11	14:11 (9)	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56		
4	09:13		14:01 (9)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		
	16:05	10	14:11 (9)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55		
5	09:12		14:03 (9)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		
	16:06	7	14:10 (9)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55		
6	09:11		14:06 (9)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		
	16:08	1	14:07 (9)	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54		
7	09:11			08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		13:50 (9)
	16:09			17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53	7	13:57 (9)
8	09:10			08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58		13:48 (9)
	16:11			17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53	10	13:58 (9)
9	09:09			08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		13:48 (9)
	16:13			17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52	11	13:59 (9)
10	09:08			08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		13:48 (9)
	16:14			17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52	13	14:01 (9)
11	09:08			08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		13:48 (9)
	16:16			17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51	14	14:02 (9)
12	09:07			08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03		13:47 (9)
	16:18			17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51	15	14:02 (9)
13	09:06			08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		13:48 (9)
	16:20			17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51	16	14:04 (9)
14	09:04			08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06		13:48 (9)
	16:21			17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51	16	14:04 (9)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		13:48 (9)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	17	14:05 (9)
16	09:02			08:02	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08		13:48 (9)
	16:25			17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50	18	14:06 (9)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09		13:49 (9)
	16:27			17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51	17	14:06 (9)
18	08:59			07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09		13:49 (9)
	16:29			17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51	18	14:07 (9)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10		13:49 (9)
	16:31			17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51	18	14:07 (9)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		13:50 (9)
	16:33			17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51	18	14:08 (9)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12		13:50 (9)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	19	14:09 (9)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12		13:50 (9)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52	19	14:09 (9)
23	08:52			07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13		13:51 (9)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53	19	14:10 (9)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		13:52 (9)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53	18	14:10 (9)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		13:52 (9)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54	18	14:10 (9)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14		13:53 (9)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55	17	14:10 (9)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		13:53 (9)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55	17	14:10 (9)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		13:54 (9)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56	17	14:11 (9)
29	08:42				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14		13:55 (9)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57	16	14:11 (9)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		13:56 (9)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58	16	14:12 (9)
31	08:38				07:08		04:50		05:28	06:31		07:41		09:14		13:56 (9)
	16:58				20:10		22:14		21:52	20:36		16:54		15:59	15	14:11 (9)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		56													399	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.67													0.67	
Total reduction		0.17													0.14	
Total, real		10													57	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IC - Ventaskrasti H

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09
	16:27	17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	08:59	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: ID - Ventaskrasti I

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February	March	April	May	June	July	August	September	October	November	December		
1	09:14		13:59 (9)	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:35	07:43	08:47		
	16:01	15	14:14 (9)	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51	15:58		
2	09:13		14:00 (9)	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48		
	16:02	14	14:14 (9)	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57		
3	09:13		14:01 (9)	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50		
	16:03	13	14:14 (9)	17:04	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:56		
4	09:13		14:02 (9)	08:30	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		
	16:05	12	14:14 (9)	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55		
5	09:12		14:03 (9)	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53		
	16:06	10	14:13 (9)	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55		
6	09:11		14:05 (9)	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		13:51 (9)
	16:08	7	14:12 (9)	17:11	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	15:54	7	13:58 (9)
7	09:11			08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56		13:51 (9)
	16:09			17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:53	9	14:00 (9)
8	09:10			08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58		13:49 (9)
	16:11			17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53	12	14:01 (9)
9	09:09			08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59		13:50 (9)
	16:13			17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52	12	14:02 (9)
10	09:08			08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:01		13:50 (9)
	16:14			17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52	14	14:04 (9)
11	09:08			08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		13:49 (9)
	16:16			17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:51	15	14:04 (9)
12	09:07			08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:08	09:03		13:49 (9)
	16:18			17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51	16	14:05 (9)
13	09:06			08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:04		13:50 (9)
	16:20			17:28	18:31	20:37	21:41	22:30	22:22	21:22	20:01	18:39	16:26	15:51	16	14:06 (9)
14	09:04			08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06		13:50 (9)
	16:21			17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51	17	14:07 (9)
15	09:03			08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		13:50 (9)
	16:23			17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50	18	14:08 (9)
16	09:02			08:02	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08		13:50 (9)
	16:25			17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:50	18	14:08 (9)
17	09:01			08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18	09:09		13:50 (9)
	16:27			17:37	18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51	19	14:09 (9)
18	08:59			07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09		13:51 (9)
	16:29			17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51	19	14:10 (9)
19	08:58			07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23	09:10		13:51 (9)
	16:31			17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51	18	14:09 (9)
20	08:57			07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		13:51 (9)
	16:33			17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51	19	14:10 (9)
21	08:55			07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12		13:52 (9)
	16:36			17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	19	14:11 (9)
22	08:54			07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12		13:52 (9)
	16:38			17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52	19	14:11 (9)
23	08:52			07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13		13:53 (9)
	16:40			17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53	19	14:12 (9)
24	08:50			07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		13:53 (9)
	16:42			17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53	19	14:12 (9)
25	08:49			07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13		13:54 (9)
	16:44			17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54	18	14:12 (9)
26	08:47			07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14		13:54 (9)
	16:46			17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55	19	14:13 (9)
27	08:45			07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		13:55 (9)
	16:49			18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55	18	14:13 (9)
28	08:43			07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		13:56 (9)
	16:51			18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56	17	14:13 (9)
29	08:42				07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14		13:56 (9)
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57	18	14:14 (9)
30	08:40				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14		13:57 (9)
	16:55				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58	17	14:14 (9)
31	08:38				07:08		04:50		05:28	06:31		07:41		09:14		13:58 (9)
	16:58				20:10		22:14		21:52	20:36		16:54		15:59	16	14:14 (9)
Potential sun hours	231			264	366	428	512	534	534	472	385	322	244	211		
Total, worst case		71													428	
Sun reduction		0.28													0.23	
Oper. time red.		0.94													0.94	
Wind dir. red.		0.67													0.67	
Total reduction		0.17													0.14	
Total, real		12													61	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IE - Vetiecirknis

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:14	08:36	07:30	07:06	05:47	04:49	04:42	05:30	06:34	07:36	07:43	08:47		
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58		
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48		
	16:02	17:02	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:08	16:49	15:57		
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:48	08:50		
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56		
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52		
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56		
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:54		
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55		
6	09:12	08:26	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55		
	16:08	17:12	18:15	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:40	15:54		
7	09:11	08:23	07:14	06:49	05:34	04:42	04:48	05:42	06:46	07:48	07:57	08:57		
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53		
8	09:10	08:21	07:11	06:47	05:31	04:42	04:49	05:44	06:48	07:50	07:59	08:58		
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53		
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00		
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52		
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01		
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	15:52		
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02		
	16:16	17:23	18:26	20:33	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:51		
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	09:03		12:23 (1)
	16:18	17:25	18:29	20:35	21:40	22:29	22:23	21:25	20:04	18:41	16:28	15:51	5	12:28 (1)
13	09:06	08:10	06:58	06:33	05:21	04:38	04:56	05:54	06:58	08:01	08:10	09:05		12:23 (1)
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51	8	12:31 (1)
14	09:05	08:07	06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03	08:12	09:06		12:22 (1)
	16:22	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	15:51	10	12:32 (1)
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07		12:22 (1)
	16:24	17:32	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51	11	12:33 (1)
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:05	08:08	08:16	09:08		12:22 (1)
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:51	12	12:34 (1)
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:07	08:10	08:19	09:09		12:22 (1)
	16:27	17:37	18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	15:51	13	12:35 (1)
18	09:00	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:10		12:22 (1)
	16:29	17:39	18:42	20:48	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51	14	12:36 (1)
19	08:58	07:55	06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10		12:23 (1)
	16:31	17:42	18:44	20:51	21:53	22:33	22:14	21:08	19:44	18:23	16:15	15:51	14	12:37 (1)
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11		12:22 (1)
	16:34	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51	14	12:36 (1)
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12		12:23 (1)
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	14	12:37 (1)
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12		12:23 (1)
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52	14	12:37 (1)
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13		12:24 (1)
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53	14	12:38 (1)
24	08:51	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13		12:25 (1)
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:53	13	12:38 (1)
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:14		12:25 (1)
	16:44	17:55	18:57	21:04	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54	14	12:39 (1)
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14		12:26 (1)
	16:46	17:58	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55	13	12:39 (1)
27	08:45	07:35	06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14		12:26 (1)
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56	13	12:39 (1)
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14		12:27 (1)
	16:51	18:02	19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	15:56	12	12:39 (1)
29	08:42		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14		12:29 (1)
	16:53		20:05	21:12	22:11	22:34	21:56	20:42	19:17	16:58	16:01	15:57	10	12:39 (1)
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:34	07:39	08:45	09:14		12:30 (1)
	16:55		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58	9	12:39 (1)
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14		12:32 (1)
	16:58		20:10		22:14		21:52	20:36		16:54		16:00	6	12:38 (1)
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211		
Total, worst case													233	
Sun reduction													0.23	
Oper. time red.													0.94	
Wind dir. red.													0.66	
Total reduction													0.14	
Total, real													33	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IF - Vesmas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:41	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:49	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:07	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:45	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:17	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:53
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:36	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:04	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:37	08:43	09:14
	16:54		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IG - Vetras

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:28	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:46	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:19	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:14	20:21	21:25	22:21	22:30	21:41	20:23	19:01	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58	16:41	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22	20:29	21:34	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15	07:04	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23	18:27	20:34	21:38	22:28	22:25	21:27	20:07	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26	18:29	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08	06:55	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05	06:53	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33	18:35	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:17	09:08
	16:26	17:35	18:38	20:44	21:48	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:50	22:33	22:17	21:13	19:50	18:29	16:19	15:51
18	09:00	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:10
	16:30	17:40	18:42	20:49	21:52	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:56	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:54	22:33	22:14	21:08	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:17	08:25	09:11
	16:34	17:44	18:46	20:53	21:56	22:34	22:12	21:05	19:42	18:21	16:14	15:52
21	08:55	07:51	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:19	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:11	21:03	19:39	18:18	16:12	15:52
22	08:54	07:48	06:34	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:51	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:46	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:51	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:02	22:03	22:34	22:05	20:55	19:31	18:11	16:07	15:54
25	08:49	07:40	06:25	06:03	04:59	04:39	05:17	06:19	07:23	07:28	08:35	09:14
	16:45	17:56	18:57	21:04	22:05	22:34	22:04	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:23	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:02	20:50	19:25	17:06	16:05	15:55
27	08:46	07:35	06:20	05:58	04:56	04:40	05:20	06:24	07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33	06:17	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02	19:04	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:54		20:06	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12	05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IH - Vilni š i A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April	May	June	July	August	September		October		November	December
1	09:14	08:36		07:30		07:06	05:48	04:49	04:42	05:30	06:34		07:36	08:05 (42)	07:43	08:47
	16:01	17:00		18:05		20:12	21:17	22:16	22:33	21:50	20:34		19:11 17	08:22 (42)	16:52	15:59
2	09:14	08:34		07:27		07:03	05:45	04:48	04:43	05:32	06:36		07:38	08:07 (42)	07:45	08:49
	16:03	17:03		18:07		20:14	21:19	22:17	22:32	21:48	20:31		19:09 14	08:21 (42)	16:49	15:58
3	09:13	08:32		07:25		07:01	05:43	04:47	04:44	05:34	06:38		07:40	08:09 (42)	07:48	08:50
	16:04	17:05		18:09		20:16	21:21	22:19	22:32	21:45	20:28		19:06 10	08:19 (42)	16:47	15:57
4	09:13	08:30		07:22		06:58	05:41	04:46	04:45	05:36	06:40		07:42	08:11 (42)	07:50	08:52
	16:05	17:07		18:11		20:18	21:23	22:20	22:31	21:43	20:26		19:03 5	08:16 (42)	16:45	15:56
5	09:12	08:28		07:20		06:55	05:38	04:45	04:46	05:38	06:42		07:44		07:52	08:54
	16:07	17:09		18:13		20:21	21:25	22:21	22:30	21:41	20:23		19:00		16:43	15:55
6	09:12	08:26		07:17		06:52	05:36	04:44	04:47	05:40	06:44		07:46		07:54	08:55
	16:08	17:12		18:16		20:23	21:27	22:23	22:30	21:39	20:20		18:58		16:40	15:54
7	09:11	08:24		07:14		06:50	05:34	04:43	04:48	05:42	06:46		07:48		07:57	08:57
	16:10	17:14		18:18		20:25	21:29	22:24	22:29	21:37	20:17		18:55		16:38	15:54
8	09:10	08:21		07:12		06:47	05:32	04:42	04:50	05:44	06:48		07:51		07:59	08:58
	16:11	17:16		18:20		20:27	21:31	22:25	22:28	21:34	20:15		18:52		16:36	15:53
9	09:10	08:19		07:09	07:35 (42)	06:44	05:29	04:41	04:51	05:46	06:50		07:53		08:01	09:00
	16:13	17:19		18:22 2	07:37 (42)	20:29	21:33	22:26	22:27	21:32	20:12		18:50		16:34	15:53
10	09:09	08:17		07:06	07:32 (42)	06:42	05:27	04:40	04:52	05:48	06:52		07:55		08:03	09:01
	16:15	17:21		18:25 8	07:40 (42)	20:31	21:36	22:27	22:26	21:30	20:09		18:47		16:32	15:52
11	09:08	08:15		07:04	07:30 (42)	06:39	05:25	04:40	04:54	05:50	06:55		07:57		08:06	09:02
	16:16	17:23		18:27 12	07:42 (42)	20:34	21:38	22:28	22:25	21:27	20:06		18:44		16:30	15:52
12	09:07	08:12		07:01	07:27 (42)	06:36	05:23	04:39	04:55	05:52	06:57		07:59		08:08	09:04
	16:18	17:26		18:29 16	07:43 (42)	20:36	21:40	22:29	22:24	21:25	20:04		18:42		16:28	15:51
13	09:06	08:10		06:58	07:24 (42)	06:34	05:21	04:39	04:56	05:54	06:59		08:01		08:10	09:05
	16:20	17:28		18:31 19	07:43 (42)	20:38	21:42	22:30	22:22	21:23	20:01		18:39		16:26	15:51
14	09:05	08:08	08:36 (41)	06:55	07:23 (42)	06:31	05:19	04:38	04:58	05:57	07:01		08:03	09:04 (41)	08:12	09:06
	16:22	17:30 7	08:43 (41)	18:33 20	07:43 (42)	20:40	21:44	22:31	22:21	21:20	19:58		18:36 11	09:15 (41)	16:24	15:51
15	09:04	08:05	08:34 (41)	06:53	07:22 (42)	06:28	05:17	04:38	04:59	05:59	07:03		08:06	09:02 (41)	08:14	09:07
	16:24	17:33 12	08:46 (41)	18:35 20	07:42 (42)	20:42	21:46	22:31	22:20	21:18	19:55		18:34 15	09:17 (41)	16:22	15:51
16	09:02	08:03	08:31 (41)	06:50	07:22 (42)	06:26	05:15	04:38	05:01	06:01	07:05		08:08	09:01 (41)	08:17	09:08
	16:26	17:35 16	08:47 (41)	18:38 21	07:43 (42)	20:44	21:48	22:32	22:18	21:15	19:53		18:31 17	09:18 (41)	16:20	15:51
17	09:01	08:00	08:29 (41)	06:47	07:22 (42)	06:23	05:13	04:38	05:03	06:03	07:07		08:10	08:59 (41)	08:19	09:09
	16:28	17:37 19	08:48 (41)	18:40 20	07:42 (42)	20:46	21:50	22:32	22:17	21:13	19:50		18:29 20	09:19 (41)	16:19	15:51
18	09:00	07:58	08:28 (41)	06:44	07:22 (42)	06:20	05:11	04:38	05:04	06:05	07:09		08:12	08:59 (41)	08:21	09:10
	16:30	17:40 20	08:48 (41)	18:42 19	07:41 (42)	20:49	21:52	22:33	22:15	21:10	19:47		18:26 21	09:20 (41)	16:17	15:51
19	08:58	07:56	08:28 (41)	06:42	07:23 (42)	06:18	05:09	04:38	05:06	06:07	07:11		08:14	08:58 (41)	08:23	09:10
	16:32	17:42 21	08:49 (41)	18:44 16	07:39 (42)	20:51	21:54	22:33	22:14	21:08	19:44		18:23 22	09:20 (41)	16:15	15:51
20	08:57	07:53	08:27 (41)	06:39	07:25 (42)	06:15	05:07	04:38	05:08	06:09	07:13		08:16	08:57 (41)	08:25	09:11
	16:34	17:44 22	08:49 (41)	18:46 13	07:38 (42)	20:53	21:55	22:34	22:12	21:05	19:42		18:21 23	09:20 (41)	16:14	15:52
21	08:55	07:51	08:26 (41)	06:36	07:26 (42)	06:13	05:05	04:38	05:09	06:11	07:15		08:19	08:58 (41)	08:27	09:12
	16:36	17:46 23	08:49 (41)	18:48 10	07:36 (42)	20:55	21:57	22:34	22:11	21:03	19:39		18:18 22	09:20 (41)	16:12	15:52
22	08:54	07:48	08:27 (41)	06:33		06:10	05:04	04:38	05:11	06:13	07:17	08:12 (42)	08:21	08:57 (41)	08:29	09:12
	16:38	17:49 22	08:49 (41)	18:51		20:57	21:59	22:34	22:09	21:00	19:36 7	08:19 (42)	18:16 23	09:20 (41)	16:10	15:52
23	08:52	07:46	08:27 (41)	06:31		06:08	05:02	04:38	05:13	06:15	07:19	08:09 (42)	08:23	08:57 (41)	08:31	09:13
	16:40	17:51 22	08:49 (41)	18:53		20:59	22:01	22:34	22:07	20:57	19:33 13	08:22 (42)	18:13 22	09:19 (41)	16:09	15:53
24	08:51	07:43	08:27 (41)	06:28		06:05	05:00	04:38	05:15	06:17	07:21	08:07 (42)	08:25	08:58 (41)	08:33	09:13
	16:42	17:53 21	08:48 (41)	18:55		21:02	22:03	22:34	22:05	20:55	19:31 16	08:23 (42)	18:11 21	09:19 (41)	16:07	15:54
25	08:49	07:40	08:28 (41)	06:25		06:03	04:59	04:39	05:17	06:19	07:23	08:05 (42)	07:28	07:59 (41)	08:35	09:14
	16:45	17:56 19	08:47 (41)	18:57		21:04	22:05	22:34	22:04	20:52	19:28 18	08:23 (42)	17:08 18	08:17 (41)	16:06	15:54
26	08:47	07:38	08:29 (41)	06:23		06:00	04:57	04:39	05:18	06:21	07:25	08:04 (42)	07:30	08:02 (41)	08:37	09:14
	16:47	17:58 17	08:46 (41)	18:59		21:06	22:06	22:34	22:02	20:50	19:25 20	08:24 (42)	17:06 15	08:17 (41)	16:05	15:55
27	08:45	07:35	08:30 (41)	06:20		05:58	04:56	04:40	05:20	06:24	07:27	08:03 (42)	07:32	08:04 (41)	08:39	09:14
	16:49	18:00 14	08:44 (41)	19:01		21:08	22:08	22:34	22:00	20:47	19:22 21	08:24 (42)	17:04 11	08:15 (41)	16:03	15:56
28	08:44	07:33	08:33 (41)	06:17		05:55	04:54	04:40	05:22	06:26	07:30	08:04 (42)	07:34	08:06 (41)	08:41	09:14
	16:51	18:02 8	08:41 (41)	19:03		21:10	22:10	22:34	21:58	20:44	19:20 20	08:24 (42)	17:01 6	08:12 (41)	16:02	15:57
29	08:42			07:14		05:53	04:53	04:41	05:24	06:28	07:32	08:03 (42)	07:36		08:43	09:14
	16:53			20:06		21:12	22:11	22:34	21:56	20:42	19:17 21	08:24 (42)	16:59		16:01	15:58
30	08:40			07:12		05:50	04:51	04:42	05:26	06:30	07:34	08:03 (42)	07:39		08:45	09:14
	16:56			20:08		21:14	22:13	22:33	21:54	20:39	19:14 20	08:23 (42)	16:56		16:00	15:59
31	08:38			07:09			04:50		05:28	06:32			07:41			09:14
	16:58			20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264		366		428	512	534	534	472	385		322		244	211
Total, worst case			263		196							156		313		
Sun reduction			0.33		0.46							0.50		0.42		
Oper. time red.			0.94		0.94							0.94		0.94		
Wind dir. red.			0.60		0.61							0.61		0.60		
Total reduction			0.19		0.26							0.28		0.24		
Total, real			49		51							44		75		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: II - Virši

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:02 (41)	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05 23	08:25 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:02 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07 22	08:24 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:02 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09 23	08:25 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	08:02 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11 22	08:24 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	08:02 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44 08:43 (41)	07:52	08:54
	16:07	17:10	18:13 21	08:23 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00 11 08:54 (41)	16:43	15:55
6	09:12	08:26	07:17	08:03 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46 08:41 (41)	07:54	08:55
	16:08	17:12	18:16 19	08:22 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58 15 08:56 (41)	16:41	15:54
7	09:11	08:24	07:14	08:04 (41)	06:50	05:34	04:43	04:49	05:42	06:46	07:48 08:39 (41)	07:57	08:57
	16:10	17:14	18:18 17	08:21 (41)	20:25	21:29	22:24	22:29	21:37	20:17	18:55 18 08:57 (41)	16:38	15:54
8	09:10	08:21	07:12	08:05 (41)	06:47	05:32	04:42	04:50	05:44	06:48	07:51 08:38 (41)	07:59	08:58
	16:11	17:16	18:20 14	08:19 (41)	20:27	21:31	22:25	22:28	21:34	20:15	18:52 20 08:58 (41)	16:36	15:53
9	09:10	08:19	07:09	08:08 (41)	06:44	05:29	04:41	04:51	05:46	06:50	07:53 08:37 (41)	08:01	09:00
	16:13	17:19	18:22 7	08:15 (41)	20:29	21:33	22:26	22:27	21:32	20:12	18:50 21 08:58 (41)	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55 08:36 (41)	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47 22 08:58 (41)	16:32	15:52
11	09:08	08:15	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57 08:36 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44 23 08:59 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59 08:36 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42 22 08:58 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01 08:35 (41)	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39 23 08:58 (41)	16:26	15:51
14	09:05	08:08	06:55		06:31	05:19	04:38	04:58	05:57	07:01 07:55 (42)	08:03 08:35 (41)	08:12	09:06
	16:22	17:30	18:33		20:40	21:44	22:31	22:21	21:20	19:58 7 08:02 (42)	18:36 22 08:57 (41)	16:24	15:51
15	09:04	08:05	06:53		06:28	05:17	04:38	04:59	05:59	07:03 07:52 (42)	08:06 08:37 (41)	08:14	09:07
	16:24	17:33	18:35		20:42	21:46	22:31	22:20	21:18	19:55 12 08:04 (42)	18:34 19 08:56 (41)	16:22	15:51
16	09:02	08:03	06:50		06:26	05:15	04:38	05:01	06:01	07:05 07:50 (42)	08:08 08:38 (41)	08:17	09:08
	16:26	17:35	18:38		20:44	21:48	22:32	22:18	21:15	19:53 15 08:05 (42)	18:31 17 08:55 (41)	16:20	15:51
17	09:01	08:00	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07 07:48 (42)	08:10 08:40 (41)	08:19	09:09
	16:28	17:37	18:40 1	07:14 (42)	20:46	21:50	22:32	22:17	21:13	19:50 18 08:06 (42)	18:29 13 08:53 (41)	16:19	15:51
18	09:00	07:58	06:44	07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09 07:47 (42)	08:12 08:43 (41)	08:21	09:10
	16:30	17:40	18:42 7	07:17 (42)	20:49	21:52	22:33	22:15	21:10	19:47 19 08:06 (42)	18:26 9 08:52 (41)	16:17	15:51
19	08:58	07:56	06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11 07:46 (42)	08:14	08:23	09:10
	16:32	17:42	18:44 11	07:18 (42)	20:51	21:54	22:33	22:14	21:08	19:44 20 08:06 (42)	18:23	16:15	15:51
20	08:57	07:53	06:39	07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13 07:46 (42)	08:16	08:25	09:11
	16:34	17:44	18:46 15	07:20 (42)	20:53	21:55	22:34	22:12	21:05	19:42 20 08:06 (42)	18:21	16:14	15:52
21	08:55	07:51	06:36	07:02 (42)	06:13	05:05	04:38	05:09	06:11	07:15 07:46 (42)	08:19	08:27	09:12
	16:36	17:46	18:48 18	07:20 (42)	20:55	21:57	22:34	22:11	21:03	19:39 19 08:05 (42)	18:18	16:12	15:52
22	08:54	07:48	06:34	07:00 (42)	06:10	05:04	04:38	05:11	06:13	07:17 07:46 (42)	08:21	08:29	09:12
	16:38	17:49	18:51 20	07:20 (42)	20:57	21:59	22:34	22:09	21:00	19:36 19 08:05 (42)	18:16	16:10	15:53
23	08:52	07:46 08:13 (41)	06:31	06:59 (42)	06:08	05:02	04:38	05:13	06:15	07:19 07:48 (42)	08:23	08:31	09:13
	16:40	17:51 5 08:18 (41)	18:53 20	07:19 (42)	20:59	22:01	22:34	22:07	20:57	19:33 16 08:04 (42)	18:13	16:09	15:53
24	08:51	07:43 08:10 (41)	06:28	07:00 (42)	06:05	05:00	04:38	05:15	06:17	07:21 07:50 (42)	08:25	08:33	09:13
	16:42	17:53 10 08:20 (41)	18:55 20	07:20 (42)	21:02	22:03	22:34	22:05	20:55	19:31 12 08:02 (42)	18:11	16:07	15:54
25	08:49	07:40 08:08 (41)	06:25	07:00 (42)	06:03	04:59	04:39	05:17	06:19	07:23 07:52 (42)	07:28	08:35	09:14
	16:45	17:56 15 08:23 (41)	18:57 19	07:19 (42)	21:04	22:05	22:34	22:04	20:52	19:28 8 08:00 (42)	17:08	16:06	15:54
26	08:47	07:38 08:05 (41)	06:23	07:00 (42)	06:00	04:57	04:39	05:18	06:21	07:25 07:54 (42)	07:30	08:37	09:14
	16:47	17:58 18 08:23 (41)	18:59 18	07:18 (42)	21:06	22:06	22:34	22:02	20:50	19:25 3 07:57 (42)	17:06	16:05	15:55
27	08:45	07:35 08:03 (41)	06:20	07:00 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:32	08:39	09:14
	16:49	18:00 21 08:24 (41)	19:01 16	07:16 (42)	21:08	22:08	22:34	22:00	20:47	19:22	17:04	16:03	15:56
28	08:44	07:33 08:03 (41)	06:17	07:02 (42)	05:55	04:54	04:40	05:22	06:26	07:30	07:34	08:41	09:14
	16:51	18:02 22 08:25 (41)	19:03 13	07:15 (42)	21:10	22:10	22:34	21:58	20:44	19:20	17:01	16:02	15:57
29	08:42		07:14	08:04 (42)	05:53	04:53	04:41	05:24	06:28	07:32	07:36	08:43	09:14
	16:53		20:06 8	08:12 (42)	21:12	22:11	22:34	21:56	20:42	19:17	16:59	16:01	15:58
30	08:40		07:12		05:50	04:51	04:42	05:26	06:30	07:34	07:39	08:45	09:14
	16:56		20:08		21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09			04:50		05:28	06:32		07:41		09:14
	16:58		20:10			22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366		428	512	534	534	472	385	322	244	211
Total, worst case		91	354							188	255		
Sun reduction		0.33	0.46							0.50	0.42		
Oper. time red.		0.94	0.94							0.94	0.94		
Wind dir. red.		0.60	0.61							0.63	0.60		
Total reduction		0.19	0.26							0.29	0.24		
Total, real		17	93							55	61		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IJ - Vizuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:14		11:16 (8)	08:36		15:31 (43)	07:30	07:06	05:47	04:49	04:42	05:30	06:34	07:36	07:43			08:47		11:35 (7)
	16:01	84	15:16 (2)	17:00	23	15:54 (43)	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51			15:58	82	15:10 (2)
2	09:13		11:43 (7)	08:34		15:32 (43)	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45			08:48		11:34 (7)
	16:02	83	15:17 (2)	17:02	22	15:54 (43)	18:07	20:14	21:19	22:17	22:32	21:47	20:31	19:08	16:49			15:57	87	15:11 (2)
3	09:13		11:45 (7)	08:32		15:33 (43)	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47			08:50		11:34 (7)
	16:04	85	15:20 (2)	17:05	20	15:53 (43)	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47			15:56	86	15:11 (2)
4	09:13		11:45 (7)	08:30		15:35 (43)	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50			08:52		11:34 (7)
	16:05	86	15:21 (2)	17:07	17	15:52 (43)	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45			15:56	87	15:11 (2)
5	09:12		11:46 (7)	08:28		15:36 (43)	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52		15:08 (43)	08:53		11:32 (7)
	16:06	86	15:22 (2)	17:09	14	15:50 (43)	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	11	15:19 (43)	15:55	87	15:10 (2)
6	09:12		11:46 (7)	08:25		15:38 (43)	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54		15:06 (43)	08:55		11:33 (7)
	16:08	89	15:24 (2)	17:12	11	15:49 (43)	18:15	20:23	21:27	22:23	22:29	21:39	20:20	18:58	16:40	15	15:21 (43)	15:54	87	15:10 (2)
7	09:11		11:47 (7)	08:23			07:14	06:49	05:34	04:42	04:48	05:42	06:46	07:48	07:56		15:04 (43)	08:57		11:33 (7)
	16:09	87	15:25 (2)	17:14			18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	18	15:22 (43)	15:53	87	15:10 (2)
8	09:10		11:48 (7)	08:21			07:11	06:47	05:31	04:42	04:49	05:44	06:48	07:50	07:59		15:04 (43)	08:58		11:33 (7)
	16:11	87	15:26 (2)	17:16			18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	20	15:24 (43)	15:53	86	15:09 (2)
9	09:09		11:50 (7)	08:19			07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01		15:02 (43)	08:59		11:33 (7)
	16:13	86	15:27 (2)	17:18			18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	22	15:24 (43)	15:52	85	15:08 (2)
10	09:09		11:51 (7)	08:17			07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03		15:02 (43)	09:01		11:33 (7)
	16:14	85	15:27 (2)	17:21			18:24	20:31	21:35	22:27	22:26	21:30	20:09	18:47	16:32	24	15:26 (43)	15:52	84	15:08 (2)
11	09:08		11:53 (7)	08:14			07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:05		12:34 (1)	09:02		11:33 (7)
	16:16	82	15:28 (2)	17:23			18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30	36	15:26 (43)	15:51	84	15:07 (2)
12	09:07		11:55 (7)	08:12			07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08		12:31 (1)	09:03		11:04 (8)
	16:18	81	15:29 (2)	17:25			18:29	20:35	21:40	22:29	22:23	21:25	20:03	18:41	16:28	43	15:27 (43)	15:51	87	15:06 (2)
13	09:06		11:56 (7)	08:10			06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10		12:28 (1)	09:05		11:04 (8)
	16:20	76	15:29 (2)	17:28			18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	49	15:27 (43)	15:51	88	15:06 (2)
14	09:05		12:02 (7)	08:07			06:55	06:31	05:18	04:38	04:58	05:56	07:00	08:03	08:12		12:27 (1)	09:06		11:03 (8)
	16:22	75	15:41 (43)	17:30			18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	60	15:27 (43)	15:51	90	15:06 (2)
15	09:03		12:42 (1)	08:05			06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14		12:25 (1)	09:07		11:03 (8)
	16:24	77	15:42 (43)	17:32			18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:34	16:22	68	15:27 (43)	15:51	89	15:05 (2)
16	09:02		12:43 (1)	08:03			06:50	06:25	05:14	04:38	05:01	06:00	07:05	08:08	08:16		12:24 (1)	09:08		11:03 (8)
	16:25	79	15:45 (43)	17:35			18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	72	15:27 (43)	15:51	89	15:05 (2)
17	09:01		12:43 (1)	08:00			06:47	06:23	05:13	04:37	05:02	06:02	07:07	08:10	08:19		12:24 (1)	09:09		11:03 (8)
	16:27	82	15:47 (43)	17:37			18:40	20:46	21:50	22:32	22:17	21:13	19:50	18:28	16:18	74	15:27 (43)	15:51	88	15:05 (2)
18	09:00		12:43 (1)	07:58			06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21		12:22 (1)	09:10		11:04 (8)
	16:29	83	15:48 (43)	17:39			18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	77	15:27 (43)	15:51	88	15:05 (2)
19	08:58		12:45 (1)	07:55			06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23		12:22 (1)	09:10		11:04 (8)
	16:32	82	15:50 (43)	17:42			18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15	79	15:27 (43)	15:51	90	15:06 (2)
20	08:57		12:45 (1)	07:53			06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		12:22 (1)	09:11		11:04 (8)
	16:34	83	15:51 (43)	17:44			18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	80	15:27 (43)	15:51	88	15:05 (2)
21	08:55		12:46 (1)	07:50			06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		12:22 (1)	09:12		11:05 (8)
	16:36	81	15:51 (43)	17:46			18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	81	15:27 (43)	15:52	87	15:06 (2)
22	08:54		12:47 (1)	07:48			06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29		12:21 (1)	09:12		11:05 (8)
	16:38	80	15:52 (43)	17:48			18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	83	15:27 (43)	15:52	87	15:06 (2)
23	08:52		12:47 (1)	07:45			06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31		12:21 (1)	09:13		11:06 (8)
	16:40	79	15:52 (43)	17:51			18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	82	15:26 (43)	15:53	88	15:07 (2)
24	08:50		12:48 (1)	07:43			06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		12:21 (1)	09:13		11:06 (8)
	16:42	77	15:53 (43)	17:53			18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	83	15:26 (43)	15:53	89	15:08 (2)
25	08:49		12:50 (1)	07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		12:21 (1)	09:13		11:07 (8)
	16:44	74	15:53 (43)	17:55			18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	82	15:25 (43)	15:54	89	15:08 (2)
26	08:47		12:51 (1)	07:38			06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:30	08:37		12:21 (1)	09:14		11:07 (8)
	16:46	72	15:54 (43)	17:58			18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	79	15:23 (43)	15:55	88	15:09 (2)
27	08:45		12:52 (1)	07:35			06:20	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39		12:21 (1)	09:14		11:08 (8)
	16:49	68	15:54 (43)	18:00			19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	78	15:22 (43)	15:56	90	15:10 (2)
28	08:43		12:54 (1)	07:33			06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41		12:21 (1)	09:14		11:09 (8)
	16:51	60	15:55 (43)	18:02			19:03	21:10	22:10	22:34	21:58	20:44	19:19	17:01	16:02	74	15:20 (43)	15:56	89	15:11 (2)
29	08:42		12:56 (1)				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43		11:38 (7)	09:14		11:10 (8)
	16:53	49	15:55 (43)				20:05	21:12	22:11	22:34	21:56	20:41	19:17	16:58	16:01	75	15:10 (2)	15:57	89	15:12 (2)
30	08:40		12:59 (1)				07:11	05:50	04:51	04:41	05:26	06:29	07:34	07:39	08:45		11:36 (7)	09:14		11:11 (8)
	16:55	43	15:55 (43)				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	81	15:10 (2)	15:58	90	15:14 (2)
31	08:38		13:03 (1)				07:09		04:50		05:28	06:32		07:41				09:14		11:12 (8)
	16:58	35	15:55 (43)				20:10		22:14		21:52	20:36		16:54				16:00	88	15:14 (2)
Potential sun hours	231			264			366	428	512	534	534	472	385	322	244			211		
Total, worst case		2376			107											1546			2713	
Sun reduction		0.28			0.33											0.23			0.23	
Oper. time red.		0.94			0.94											0.94			0.94	
Wind dir. red.		0.67			0.68											0.67			0.65	
Total reduction		0.17			0.21											0.15			0.14	
Total, real		409			23											224			376	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IK - Vitoli A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	20:12	21:17	22:16	22:33	21:50	20:34	19:11 21 08:28 (42)	16:52	15:59
2	09:14	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38 08:07 (42)	07:45	08:49
	16:03	17:03	18:07	20:14	21:19	22:17	22:32	21:48	20:31	19:09 20 08:27 (42)	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43	04:47	04:44	05:34	06:38	07:40 08:09 (42)	07:48	08:50
	16:04	17:05	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06 17 08:26 (42)	16:47	15:57
4	09:13	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42 08:11 (42)	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:26	19:03 14 08:25 (42)	16:45	15:56
5	09:12	08:28	07:20	06:55	05:38	04:45	04:46	05:38	06:42	07:44 08:13 (42)	07:52	08:54
	16:07	17:09	18:13	20:21	21:25	22:21	22:30	21:41	20:23	19:00 9 08:22 (42)	16:43	15:55
6	09:12	08:26	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46 08:16 (42)	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:23	22:30	21:39	20:20	18:58 4 08:20 (42)	16:40	15:54
7	09:11	08:24	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:57	08:57
	16:10	17:14	18:18	20:25	21:29	22:24	22:29	21:37	20:17	18:55	16:38	15:54
8	09:10	08:21	07:12 07:38 (42)	06:47	05:32	04:42	04:50	05:44	06:48	07:51	07:59	08:58
	16:11	17:16	18:20 7 07:45 (42)	20:27	21:31	22:25	22:28	21:34	20:15	18:52	16:36	15:53
9	09:10	08:19	07:09 07:35 (42)	06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:01	09:00
	16:13	17:19	18:22 12 07:47 (42)	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:09	08:17	07:06 07:32 (42)	06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:25 16 07:48 (42)	20:31	21:36	22:27	22:26	21:30	20:09	18:47	16:32	15:52
11	09:08	08:15 08:44 (41)	07:03 07:30 (42)	06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:06	09:02
	16:16	17:23 9 08:53 (41)	18:27 19 07:49 (42)	20:34	21:38	22:28	22:25	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12 08:41 (41)	07:01 07:29 (42)	06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:08	09:04
	16:18	17:26 14 08:55 (41)	18:29 20 07:49 (42)	20:36	21:40	22:29	22:24	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10 08:39 (41)	06:58 07:28 (42)	06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:10	09:05
	16:20	17:28 17 08:56 (41)	18:31 21 07:49 (42)	20:38	21:42	22:30	22:22	21:23	20:01	18:39	16:26	15:51
14	09:05	08:08 08:37 (41)	06:55 07:27 (42)	06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:12	09:06
	16:22	17:30 20 08:57 (41)	18:33 22 07:49 (42)	20:40	21:44	22:31	22:21	21:20	19:58	18:36	16:24	15:51
15	09:04	08:05 08:37 (41)	06:53 07:27 (42)	06:28	05:17	04:38	04:59	05:59	07:03	08:06	08:14	09:07
	16:24	17:33 21 08:58 (41)	18:35 21 07:48 (42)	20:42	21:46	22:31	22:20	21:18	19:55	18:34	16:22	15:51
16	09:02	08:03 08:36 (41)	06:50 07:28 (42)	06:26	05:15	04:38	05:01	06:01	07:05	08:08 09:13 (41)	08:17	09:08
	16:26	17:35 22 08:58 (41)	18:38 20 07:48 (42)	20:44	21:48	22:32	22:18	21:15	19:53	18:31 11 09:24 (41)	16:20	15:51
17	09:01	08:00 08:36 (41)	06:47 07:28 (42)	06:23	05:13	04:38	05:03	06:03	07:07	08:10 09:10 (41)	08:19	09:09
	16:28	17:37 23 08:59 (41)	18:40 19 07:47 (42)	20:46	21:50	22:32	22:17	21:13	19:50	18:29 15 09:25 (41)	16:19	15:51
18	09:00	07:58 08:35 (41)	06:44 07:28 (42)	06:20	05:11	04:38	05:04	06:05	07:09	08:12 09:09 (41)	08:21	09:10
	16:30	17:40 24 08:59 (41)	18:42 17 07:45 (42)	20:49	21:52	22:33	22:15	21:10	19:47	18:26 18 09:27 (41)	16:17	15:51
19	08:58	07:56 08:36 (41)	06:42 07:29 (42)	06:18	05:09	04:37	05:06	06:07	07:11	08:14 09:08 (41)	08:23	09:10
	16:32	17:42 24 09:00 (41)	18:44 14 07:43 (42)	20:51	21:54	22:33	22:14	21:08	19:44	18:23 20 09:28 (41)	16:15	15:51
20	08:57	07:53 08:36 (41)	06:39 07:32 (42)	06:15	05:07	04:38	05:08	06:09	07:13	08:16 09:07 (41)	08:25	09:11
	16:34	17:44 23 08:59 (41)	18:46 10 07:42 (42)	20:53	21:55	22:34	22:12	21:05	19:42	18:21 21 09:28 (41)	16:14	15:52
21	08:55	07:51 08:36 (41)	06:36 06:13	05:05	04:38	05:09	06:11	07:15	08:19 09:07 (41)	08:27	09:12
	16:36	17:46 22 08:58 (41)	18:48 20:55	21:57	22:34	22:11	21:03	19:39	18:18 22 09:29 (41)	16:12	15:52
22	08:54	07:48 08:37 (41)	06:33 06:10	05:04	04:38	05:11	06:13	07:17	08:21 09:06 (41)	08:29	09:12
	16:38	17:49 21 08:58 (41)	18:51 20:57	21:59	22:34	22:09	21:00	19:36	18:16 23 09:29 (41)	16:10	15:52
23	08:52	07:46 08:37 (41)	06:31 06:08	05:02	04:38	05:13	06:15	07:19 08:16 (42)	08:23 09:05 (41)	08:31	09:13
	16:40	17:51 20 08:57 (41)	18:53 20:59	22:01	22:34	22:07	20:57	19:33 8 08:24 (42)	18:13 24 09:29 (41)	16:09	15:53
24	08:51	07:43 08:38 (41)	06:28 06:05	05:00	04:38	05:15	06:17	07:21 08:13 (42)	08:25 09:06 (41)	08:33	09:13
	16:42	17:53 17 08:55 (41)	18:55 21:02	22:03	22:34	22:05	20:55	19:31 14 08:27 (42)	18:11 23 09:29 (41)	16:07	15:54
25	08:49	07:40 08:40 (41)	06:25 06:02	04:59	04:39	05:17	06:19	07:23 08:11 (42)	07:28 08:05 (41)	08:35	09:14
	16:45	17:56 14 08:54 (41)	18:57 21:04	22:05	22:34	22:04	20:52	19:28 17 08:28 (42)	17:08 24 08:29 (41)	16:06	15:54
26	08:47	07:38 08:43 (41)	06:23 06:00	04:57	04:39	05:18	06:21	07:25 08:10 (42)	07:30 08:06 (41)	08:37	09:14
	16:47	17:58 7 08:50 (41)	18:59 21:06	22:06	22:34	22:02	20:50	19:25 19 08:29 (42)	17:06 23 08:29 (41)	16:05	15:55
27	08:45	07:35 06:20	05:58	04:56	04:40	05:20	06:24	07:27 08:09 (42)	07:32 08:06 (41)	08:39	09:14
	16:49	18:00 19:01	21:08	22:08	22:34	22:00	20:47	19:22 20 08:29 (42)	17:03 22 08:28 (41)	16:03	15:56
28	08:44	07:33 06:17	05:55	04:54	04:40	05:22	06:26	07:30 08:09 (42)	07:34 08:07 (41)	08:41	09:14
	16:51	18:02 19:03	21:10	22:10	22:34	21:58	20:44	19:20 21 08:30 (42)	17:01 19 08:26 (41)	16:02	15:57
29	08:42	07:14	05:53	04:53	04:41	05:24	06:28	07:32 08:08 (42)	07:36 08:09 (41)	08:43	09:14
	16:53	20:06	21:12	22:11	22:34	21:56	20:42	19:17 22 08:30 (42)	16:59 17 08:26 (41)	16:01	15:58
30	08:40	07:12	05:50	04:51	04:42	05:26	06:30	07:34 08:08 (42)	07:39 08:11 (41)	08:45	09:14
	16:56	20:08	21:14	22:13	22:33	21:54	20:39	19:14 21 08:29 (42)	16:56 13 08:24 (41)	16:00	15:59
31	08:38	07:09		04:50		05:28	06:32		07:41 08:14 (41)		09:14
	16:58	20:10		22:14		21:52	20:36		16:54 8 08:22 (41)		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case		298	218						142	388		
Sun reduction		0.33	0.46						0.50	0.42		
Oper. time red.		0.94	0.94						0.94	0.94		
Wind dir. red.		0.60	0.60						0.60	0.60		
Total reduction		0.19	0.26						0.28	0.24		
Total, real		56	56						40	92		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IL - Zaki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:35	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:43	08:46
	16:01	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13	08:33	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49	15:57
3	09:13	08:31	07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47	08:50
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46	15:56
4	09:12	08:29	07:22	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:20	22:30	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42	15:54
6	09:11	08:25	07:16	06:52	05:35	04:43	04:47	05:39	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40	15:54
7	09:10	08:23	07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56	08:56
	16:09	17:13	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38	15:53
8	09:10	08:21	07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58	08:58
	16:11	17:16	18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:52
9	09:09	08:18	07:08	06:44	05:29	04:40	04:50	05:46	06:50	07:52	08:01	08:59
	16:12	17:18	18:22	20:29	21:33	22:25	22:26	21:31	20:11	18:49	16:33	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:00
	16:14	17:20	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:46	16:31	15:51
11	09:07	08:14	07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29	15:51
12	09:06	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07	09:03
	16:18	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27	15:51
13	09:05	08:09	06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09	09:04
	16:19	17:27	18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25	15:50
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05
	16:21	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:58	18:36	16:23	15:50
15	09:03	08:05	06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14	09:06
	16:23	17:32	18:35	20:41	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50
16	09:02	08:02	06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16	09:07
	16:25	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:50
17	09:00	08:00	06:47	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08
	16:27	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:50
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20	09:09
	16:29	17:39	18:41	20:48	21:51	22:32	22:15	21:10	19:47	18:25	16:16	15:50
19	08:58	07:55	06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22	09:10
	16:31	17:41	18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25	09:11
	16:33	17:43	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27	09:11
	16:35	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	15:51
22	08:53	07:47	06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29	09:12
	16:37	17:48	18:50	20:57	21:59	22:34	22:08	20:59	19:35	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:01	04:37	05:12	06:15	07:19	08:22	08:31	09:12
	16:40	17:50	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:08	15:52
24	08:50	07:42	06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	15:54
26	08:47	07:37	06:22	05:59	04:56	04:38	05:18	06:21	07:25	07:29	08:37	09:13
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	15:54
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39	09:13
	16:48	17:59	19:01	21:07	22:07	22:34	21:59	20:46	19:22	17:03	16:03	15:55
28	08:43	07:32	06:16	05:54	04:53	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	15:56
29	08:41		07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57
30	08:39		07:11	05:50	04:51	04:41	05:25	06:29	07:33	07:38	08:44	09:14
	16:55		20:07	21:14	22:12	22:33	21:53	20:38	19:13	16:56	15:59	15:58
31	08:37		07:08		04:49		05:27	06:31		07:40		09:13
	16:57		20:09		22:14		21:51	20:36		16:53		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IM - Zeltini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:14		13:30 (10)	08:36		09:27 (35)	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43		09:09 (35)	08:46		
	16:01	16	13:46 (10)	17:00	54	15:55 (9)	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51	13	15:17 (9)	15:58		
2	09:13		13:31 (10)	08:34		09:28 (35)	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45		09:04 (35)	08:48		
	16:02	14	13:45 (10)	17:02	52	15:55 (9)	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	27	15:19 (9)	15:57		
3	09:13		13:32 (10)	08:32		09:29 (35)	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47		09:03 (35)	08:50		
	16:04	12	13:44 (10)	17:04	51	15:55 (9)	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	34	15:21 (9)	15:56		
4	09:12		13:34 (10)	08:30		09:29 (35)	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:50		09:01 (35)	08:52		
	16:05	10	13:44 (10)	17:07	49	15:54 (9)	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	40	15:22 (9)	15:55		
5	09:12		13:35 (10)	08:27		09:30 (35)	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52		09:01 (35)	08:53		
	16:06	8	13:43 (10)	17:09	47	15:54 (9)	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:42	44	15:24 (9)	15:55		
6	09:11		13:38 (10)	08:25		09:31 (35)	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54		08:59 (35)	08:55		13:25 (10)
	16:08	3	13:41 (10)	17:11	43	15:54 (9)	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:57	16:40	47	15:24 (9)	15:54	2	13:27 (10)
7	09:11			08:23		09:32 (35)	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56		08:59 (35)	08:56		13:23 (10)
	16:09			17:14	39	15:52 (9)	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	50	15:25 (9)	15:53	7	13:30 (10)
8	09:10			08:21		09:34 (35)	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59		08:59 (35)	08:58		13:21 (10)
	16:11			17:16	33	15:51 (9)	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	51	15:25 (9)	15:53	10	13:31 (10)
9	09:09			08:19		09:35 (35)	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01		08:59 (35)	08:59		13:21 (10)
	16:13			17:18	25	15:49 (9)	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34	53	15:26 (9)	15:52	12	13:33 (10)
10	09:08			08:16		15:38 (9)	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03		08:58 (35)	09:01		13:20 (10)
	16:14			17:21	8	15:46 (9)	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	53	15:26 (9)	15:52	14	13:34 (10)
11	09:07			08:14			07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05		08:59 (35)	09:02		13:20 (10)
	16:16			17:23			18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	54	15:27 (9)	15:51	16	13:36 (10)
12	09:07			08:12			07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:07		08:59 (35)	09:03		13:20 (10)
	16:18			17:25			18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	53	15:26 (9)	15:51	16	13:36 (10)
13	09:05			08:10			06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10		08:59 (35)	09:04		13:20 (10)
	16:20			17:28			18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	54	15:27 (9)	15:51	17	13:37 (10)
14	09:04			08:07			06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12		08:59 (35)	09:05		13:21 (10)
	16:22			17:30			18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	53	15:26 (9)	15:51	17	13:38 (10)
15	09:03			08:05			06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14		09:00 (35)	09:07		13:21 (10)
	16:23			17:32			18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	52	15:27 (9)	15:50	18	13:39 (10)
16	09:02		15:35 (9)	08:02			06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16		09:01 (35)	09:08		13:21 (10)
	16:25	3	15:38 (9)	17:35			18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	49	15:26 (9)	15:50	19	13:40 (10)
17	09:01		15:33 (9)	08:00			06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:18		09:02 (35)	09:08		13:21 (10)
	16:27	9	15:42 (9)	17:37			18:39	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	46	15:26 (9)	15:51	19	13:40 (10)
18	08:59		15:31 (9)	07:58			06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:21		09:02 (35)	09:09		13:22 (10)
	16:29	13	15:44 (9)	17:39			18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	45	15:26 (9)	15:51	19	13:41 (10)
19	08:58		09:35 (35)	07:55			06:41	06:17	05:09	04:37	05:05	06:06	07:11	08:14	08:23		09:04 (35)	09:10		13:21 (10)
	16:31	21	15:46 (9)	17:41			18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	42	15:26 (9)	15:51	20	13:41 (10)
20	08:57		09:33 (35)	07:53			06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25		09:05 (35)	09:11		13:22 (10)
	16:33	29	15:48 (9)	17:44			18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:20	16:13	38	15:25 (9)	15:51	20	13:42 (10)
21	08:55		09:31 (35)	07:50			06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27		09:06 (35)	09:11		13:23 (10)
	16:36	35	15:49 (9)	17:46			18:48	20:55	21:57	22:34	22:10	21:02	19:38	18:18	16:12	35	15:24 (9)	15:52	20	13:43 (10)
22	08:54		09:30 (35)	07:48			06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29		09:09 (35)	09:12		13:23 (10)
	16:38	38	15:50 (9)	17:48			18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	29	15:24 (9)	15:52	20	13:43 (10)
23	08:52		09:29 (35)	07:45			06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31		09:12 (35)	09:12		13:23 (10)
	16:40	42	15:51 (9)	17:51			18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	21	15:23 (9)	15:53	20	13:43 (10)
24	08:50		09:28 (35)	07:43			06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33		15:08 (9)	09:13		13:24 (10)
	16:42	45	15:52 (9)	17:53			18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	13	15:21 (9)	15:53	20	13:44 (10)
25	08:49		09:28 (35)	07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		15:11 (9)	09:13		13:24 (10)
	16:44	47	15:53 (9)	17:55			18:57	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	10	15:21 (9)	15:54	20	13:44 (10)
26	08:47		09:28 (35)	07:38			06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37		15:14 (9)	09:14		13:25 (10)
	16:46	49	15:53 (9)	17:57			18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	3	15:17 (9)	15:55	19	13:44 (10)
27	08:45		09:27 (35)	07:35			06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39			09:14		13:26 (10)
	16:49	52	15:54 (9)	18:00			19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03			15:55	19	13:45 (10)
28	08:43		09:27 (35)	07:32			06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41			09:14		13:26 (10)
	16:51	53	15:54 (9)	18:02			19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02			15:56	19	13:45 (10)
29	08:41		09:27 (35)				07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43			09:14		13:27 (10)
	16:53	53	15:55 (9)				20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00			15:57	18	13:45 (10)
30	08:40		09:28 (35)				07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45			09:14		13:28 (10)
	16:55	53	15:55 (9)				20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59			15:58	18	13:46 (10)
31	08:38		09:27 (35)				07:08		04:50		05:28	06:31		07:41				09:14		13:28 (10)
	16:58	54	15:55 (9)				20:10		22:14		21:51	20:36		16:54				15:59	17	13:45 (10)
Potential sun hours	231			264			366	428	512	534	534	472	385	322	244			211		
Total, worst case		659			401											1009			436	
Sun reduction		0.28			0.33											0.23			0.23	
Oper. time red.		0.94			0.94											0.94			0.94	
Wind dir. red.		0.63			0.63											0.63			0.66	
Total reduction		0.16			0.20											0.14			0.14	
Total, real		108			79											137			61	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IN - Ziemelbrie ž i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April			May			June	July			August			September	October	November	December
1	09:13	08:36	07:30	07:06			05:48		06:17 (29)	04:49	04:43			05:30		06:27 (29)	06:34	07:36	07:43	08:46
	16:02	17:01	18:05	20:12			21:16	20	06:37 (29)	22:15	22:32			21:49	21	06:48 (29)	20:34	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03			05:46		06:16 (29)	04:48	04:44			05:32		06:26 (29)	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14			21:18	22	06:38 (29)	22:17	22:32			21:47	22	06:48 (29)	20:31	19:09	16:50	15:58
3	09:13	08:32	07:25	07:01			05:43		06:16 (29)	04:47	04:45			05:34		06:26 (29)	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16			21:21	23	06:39 (29)	22:18	22:31			21:45	23	06:49 (29)	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58			05:41		06:16 (29)	04:46	04:46			05:36		06:25 (29)	06:40	07:42	07:50	08:52
	16:06	17:08	18:11	20:18			21:23	23	06:39 (29)	22:20	22:31			21:43	23	06:48 (29)	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	06:55			05:39		06:15 (29)	04:45	04:47			05:38		06:25 (29)	06:42	07:44	07:52	08:53
	16:07	17:10	18:14	20:21			21:25	24	06:39 (29)	22:21	22:30			21:41	24	06:49 (29)	20:23	19:01	16:43	15:56
6	09:11	08:25	07:17	06:53			05:36		06:15 (29)	04:44	04:48			05:40		06:25 (29)	06:44	07:46	07:54	08:55
	16:09	17:12	18:16	20:23			21:27	24	06:39 (29)	22:22	22:29			21:39	24	06:49 (29)	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50			05:34		06:15 (29)	04:43	04:49			05:42		06:25 (29)	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25			21:29	24	06:39 (29)	22:23	22:28			21:36	24	06:49 (29)	20:17	18:55	16:39	15:54
8	09:10	08:21	07:12	06:47			05:32		06:15 (29)	04:42	04:50			05:45		06:25 (29)	06:49	07:51	07:59	08:58
	16:12	17:17	18:20	20:27			21:31	24	06:39 (29)	22:25	22:27			21:34	24	06:49 (29)	20:15	18:53	16:37	15:54
9	09:09	08:19	07:09	06:45			05:30		06:16 (29)	04:42	04:52			05:47		06:25 (29)	06:51	07:53	08:01	08:59
	16:14	17:19	18:22	20:29			21:33	23	06:39 (29)	22:26	22:26			21:32	23	06:48 (29)	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42			05:28		06:16 (29)	04:41	04:53			05:49		06:26 (29)	06:53	07:55	08:03	09:01
	16:15	17:21	18:25	20:31			21:35	22	06:38 (29)	22:27	22:25			21:29	22	06:48 (29)	20:09	18:47	16:32	15:53
11	09:07	08:14	07:04	06:39			05:25		06:16 (29)	04:40	04:54			05:51		06:26 (29)	06:55	07:57	08:05	09:02
	16:17	17:24	18:27	20:33			21:37	22	06:38 (29)	22:28	22:24			21:27	21	06:47 (29)	20:06	18:45	16:30	15:52
12	09:06	08:12	07:01	06:36			05:23		06:17 (29)	04:40	04:56			05:53		06:26 (29)	06:57	07:59	08:08	09:03
	16:19	17:26	18:29	20:36			21:39	20	06:37 (29)	22:28	22:23			21:25	20	06:46 (29)	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34			05:21		06:17 (29)	04:39	04:57			05:55		06:27 (29)	06:59	08:01	08:10	09:04
	16:21	17:28	18:31	20:38			21:41	19	06:36 (29)	22:29	22:22			21:22	18	06:45 (29)	20:01	18:39	16:26	15:52
14	09:04	08:07	06:55	06:31			05:19		06:18 (29)	04:39	04:58			05:57		06:29 (29)	07:01	08:03	08:12	09:05
	16:22	17:31	18:33	20:40			21:43	17	06:35 (29)	22:30	22:21			21:20	14	06:43 (29)	19:58	18:37	16:25	15:52
15	09:03	08:05	06:53	06:29			05:17		06:19 (29)	04:39	05:00			05:59		06:31 (29)	07:03	08:06	08:14	09:06
	16:24	17:33	18:36	20:42			21:45	15	06:34 (29)	22:31	22:19			21:17	10	06:41 (29)	19:55	18:34	16:23	15:51
16	09:02	08:03	06:50	06:26			05:15		06:21 (29)	04:38	05:02			06:01		06:34 (29)	07:05	08:08	08:16	09:07
	16:26	17:35	18:38	20:44			21:47	12	06:33 (29)	22:31	22:18			21:15	3	06:37 (29)	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23			05:13		06:23 (29)	04:38	05:03			06:03			07:07	08:10	08:18	09:08
	16:28	17:38	18:40	20:46			21:49	8	06:31 (29)	22:32	22:16			21:13			19:50	18:29	16:19	15:52
18	08:59	07:58	06:45	06:21			05:11			04:38	05:05			06:05			07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48			21:51			22:32	22:15			21:10			19:47	18:26	16:17	15:52
19	08:58	07:55	06:42	06:18			05:10			04:38	05:06			06:07			07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51			21:53			22:33	22:13			21:07			19:44	18:24	16:16	15:52
20	08:57	07:53	06:39	06:15			05:08			04:38	05:08			06:09			07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53			21:55			22:33	22:12			21:05			19:42	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13			05:06			04:38	05:10			06:11			07:15	08:19	08:27	09:11
	16:36	17:47	18:48	20:55			21:57			22:33	22:10			21:02			19:39	18:19	16:12	15:53
22	08:54	07:48	06:34	06:10			05:04			04:38	05:12			06:13			07:17	08:21	08:29	09:12
	16:39	17:49	18:51	20:57			21:59			22:34	22:09			21:00			19:36	18:16	16:11	15:53
23	08:52	07:45	06:31	06:08			05:02			04:39	05:13			06:15			07:19	08:23	08:31	09:12
	16:41	17:51	18:53	20:59			22:01			22:34	22:07			20:57			19:33	18:14	16:09	15:54
24	08:50	07:43	06:28	06:05			05:01			04:39	05:15			06:18			07:21	08:25	08:33	09:13
	16:43	17:53	18:55	21:01			22:02			22:34	22:05			20:55			19:31	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03			04:59			04:39	05:17			06:20			07:23	07:27	08:35	09:13
	16:45	17:56	18:57	21:03			22:04			22:34	22:03			20:52			19:28	17:09	16:06	15:55
26	08:47	07:38	06:23	06:00			04:58			04:40	05:19		06:35 (29)	06:22			07:25	07:30	08:37	09:13
	16:47	17:58	18:59	21:06			22:06			22:34	22:01	3	06:38 (29)	20:49			19:25	17:06	16:05	15:56
27	08:45	07:35	06:20	05:58		06:26 (29)	04:56			04:40	05:21		06:32 (29)	06:24			07:28	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	6	06:32 (29)	22:08			22:34	21:59	10	06:42 (29)	20:47			19:22	17:04	16:04	15:56
28	08:43	07:33	06:17	05:55		06:23 (29)	04:55			04:41	05:23		06:31 (29)	06:26			07:30	07:34	08:41	09:14
	16:52	18:02	19:03	21:10	11	06:34 (29)	22:09			22:33	21:58	13	06:44 (29)	20:44			19:20	17:01	16:03	15:57
29	08:42		07:14	05:53		06:21 (29)	04:53			04:42	05:25		06:30 (29)	06:28			07:32	07:36	08:43	09:14
	16:54		20:06	21:12	15	06:36 (29)	22:11			22:33	21:56	15	06:45 (29)	20:42			19:17	16:59	16:01	15:58
30	08:40		07:12	05:51		06:19 (29)	04:52			04:42	05:27		06:28 (29)	06:30			07:34	07:39	08:45	09:14
	16:56		20:08	21:14	18	06:37 (29)	22:12			22:33	21:54	18	06:46 (29)	20:39			19:14	16:57	16:00	15:59
31	08:38		07:09				04:51				05:28		06:27 (29)	06:32				07:41		09:14
	16:58		20:10				22:14				21:52	20	06:47 (29)	20:36				16:54		16:00
Potential sun hours	231	264	366	428			511			534	534			472			385	322	244	212
Total, worst case					50			342				79			316					
Sun reduction					0.55			0.61				0.60			0.59					
Oper. time red.					0.94			0.94				0.94			0.94					
Wind dir. red.					0.66			0.66				0.66			0.66					
Total reduction					0.34			0.38				0.37			0.37					
Total, real					17			131				30			115					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IO - Ziru skola A

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March			April			May	June	July	August			September			October	November	December
1	09:14	08:36	07:30			07:06		07:32 (41)	05:48	04:49	04:43	05:30			06:34		07:24 (41)	07:36	07:43	08:47
	16:01	17:00	18:05			20:12	11	07:43 (41)	21:17	22:16	22:33	21:50			20:34	15	07:39 (41)	19:11	16:52	15:59
2	09:14	08:34	07:27			07:03		07:29 (41)	05:45	04:48	04:43	05:32			06:36		07:23 (41)	07:38	07:45	08:49
	16:03	17:03	18:07			20:14	15	07:44 (41)	21:19	22:17	22:32	21:48			20:31	17	07:40 (41)	19:09	16:49	15:58
3	09:13	08:32	07:25			07:01		07:26 (41)	05:43	04:47	04:44	05:34			06:38		07:21 (41)	07:40	07:48	08:50
	16:04	17:05	18:09			20:16	18	07:44 (41)	21:21	22:19	22:32	21:45			20:28	19	07:40 (41)	19:06	16:47	15:57
4	09:13	08:30	07:22			06:58		07:25 (41)	05:41	04:46	04:45	05:36			06:40		07:21 (41)	07:42	07:50	08:52
	16:05	17:07	18:11			20:18	20	07:45 (41)	21:23	22:20	22:31	21:43			20:26	19	07:40 (41)	19:03	16:45	15:56
5	09:12	08:28	07:20			06:55		07:24 (41)	05:38	04:45	04:46	05:38			06:42		07:20 (41)	07:44	07:52	08:54
	16:07	17:10	18:14			20:21	21	07:45 (41)	21:25	22:21	22:30	21:41			20:23	21	07:41 (41)	19:00	16:43	15:55
6	09:12	08:26	07:17			06:52		07:23 (41)	05:36	04:44	04:47	05:40			06:44		07:19 (41)	07:46	07:54	08:55
	16:08	17:12	18:16			20:23	21	07:44 (41)	21:27	22:23	22:30	21:39			20:20	21	07:40 (41)	18:58	16:41	15:54
7	09:11	08:23	07:14			06:50		07:24 (41)	05:34	04:43	04:49	05:42			06:46		07:19 (41)	07:48	07:57	08:57
	16:10	17:14	18:18			20:25	20	07:44 (41)	21:29	22:24	22:29	21:37			20:17	21	07:40 (41)	18:55	16:38	15:54
8	09:10	08:21	07:12			06:47		07:23 (41)	05:32	04:42	04:50	05:44			06:48		07:19 (41)	07:51	07:59	08:58
	16:11	17:17	18:20			20:27	20	07:43 (41)	21:31	22:25	22:28	21:34			20:15	20	07:39 (41)	18:52	16:36	15:53
9	09:10	08:19	07:09			06:44		07:23 (41)	05:29	04:41	04:51	05:46			06:50		07:20 (41)	07:53	08:01	09:00
	16:13	17:19	18:22			20:29	19	07:42 (41)	21:33	22:26	22:27	21:32			20:12	18	07:38 (41)	18:50	16:34	15:53
10	09:09	08:17	07:06			06:42		07:25 (41)	05:27	04:41	04:52	05:48			06:52		07:22 (41)	07:55	08:03	09:01
	16:15	17:21	18:25			20:31	17	07:42 (41)	21:36	22:27	22:26	21:30			20:09	15	07:37 (41)	18:47	16:32	15:52
11	09:08	08:15	07:04			06:39		07:25 (41)	05:25	04:40	04:54	05:50			06:55		07:24 (41)	07:57	08:06	09:02
	16:17	17:23	18:27			20:34	15	07:40 (41)	21:38	22:28	22:25	21:27			20:06	11	07:35 (41)	18:44	16:30	15:52
12	09:07	08:12	07:01			06:36		07:26 (41)	05:23	04:39	04:55	05:52			06:57		07:26 (41)	07:59	08:08	09:03
	16:18	17:26	18:29			20:36	11	07:37 (41)	21:40	22:29	22:23	21:25			20:04	7	07:33 (41)	18:42	16:28	15:52
13	09:06	08:10	06:58			06:34			05:21	04:39	04:57	05:55			06:59			08:01	08:10	09:05
	16:20	17:28	18:31			20:38			21:42	22:30	22:22	21:23			20:01			18:39	16:26	15:51
14	09:05	08:08	06:55			06:31			05:19	04:39	04:58	05:57			07:01			08:03	08:12	09:06
	16:22	17:30	18:33			20:40			21:44	22:31	22:21	21:20			19:58			18:36	16:24	15:51
15	09:04	08:05	06:53			06:28			05:17	04:38	05:00	05:59			07:03			08:06	08:14	09:07
	16:24	17:33	18:35			20:42			21:46	22:31	22:20	21:18			19:55			18:34	16:22	15:51
16	09:02	08:03	06:50			06:26			05:15	04:38	05:01	06:01			07:05			08:08	08:17	09:08
	16:26	17:35	18:38			20:44			21:48	22:32	22:18	21:15			19:53			18:31	16:21	15:51
17	09:01	08:00	06:47			06:23			05:13	04:38	05:03	06:03			07:07			08:10	08:19	09:09
	16:28	17:37	18:40			20:46			21:50	22:32	22:17	21:13			19:50			18:29	16:19	15:51
18	09:00	07:58	06:44			06:20			05:11	04:38	05:04	06:05			07:09			08:12	08:21	09:10
	16:30	17:40	18:42			20:49			21:52	22:33	22:15	21:10			19:47			18:26	16:17	15:51
19	08:58	07:56	06:42			06:18			05:09	04:38	05:06	06:07			07:11			08:14	08:23	09:10
	16:32	17:42	18:44			20:51			21:54	22:33	22:14	21:08			19:44			18:23	16:15	15:51
20	08:57	07:53	06:39			06:15			05:07	04:38	05:08	06:09			07:13			08:16	08:25	09:11
	16:34	17:44	18:46			20:53			21:55	22:34	22:12	21:05			19:42			18:21	16:14	15:52
21	08:55	07:51	06:36			06:13			05:06	04:38	05:09	06:11			07:15			08:19	08:27	09:12
	16:36	17:46	18:48			20:55			21:57	22:34	22:11	21:03			19:39			18:18	16:12	15:52
22	08:54	07:48	06:34			06:10			05:04	04:38	05:11	06:13			07:17			08:21	08:29	09:12
	16:38	17:49	18:51			20:57			21:59	22:34	22:09	21:00			19:36			18:16	16:10	15:53
23	08:52	07:46	06:31			06:08			05:02	04:38	05:13	06:15			07:19			08:23	08:31	09:13
	16:40	17:51	18:53			20:59			22:01	22:34	22:07	20:57			19:33			18:13	16:09	15:53
24	08:51	07:43	06:28			06:05			05:00	04:38	05:15	06:17			07:21			08:25	08:33	09:13
	16:42	17:53	18:55			21:02			22:03	22:34	22:05	20:55			19:31			18:11	16:07	15:54
25	08:49	07:40	06:25			06:03			04:59	04:39	05:17	06:19			07:23			07:28	08:35	09:14
	16:45	17:56	18:57			21:04			22:05	22:34	22:04	20:52			19:28			17:08	16:06	15:54
26	08:47	07:38	06:23			06:00			04:57	04:39	05:19	06:22			07:25			07:30	08:37	09:14
	16:47	17:58	18:59			21:06			22:06	22:34	22:02	20:50			19:25			17:06	16:05	15:55
27	08:45	07:35	06:20			05:58			04:56	04:40	05:20	06:24			07:28			07:32	08:39	09:14
	16:49	18:00	19:01			21:08			22:08	22:34	22:00	20:47			19:22			17:04	16:03	15:56
28	08:44	07:33	06:17			05:55			04:54	04:40	05:22	06:26			07:30			07:34	08:41	09:14
	16:51	18:02	19:03			21:10			22:10	22:34	21:58	20:44			19:20			17:01	16:02	15:57
29	08:42		07:14			05:53			04:53	04:41	05:24	06:28			07:32			07:36	08:43	09:14
	16:54		20:06			21:12			22:11	22:34	21:56	20:42			19:17			16:59	16:01	15:58
30	08:40		07:12			05:50			04:52	04:42	05:26	06:30			07:34			07:39	08:45	09:14
	16:56		20:08			21:14			22:13	22:33	21:54	20:39			19:14			16:56	16:00	15:59
31	08:38		07:09		07:34 (41)				04:50		05:28	06:32		07:26 (41)				07:41		09:14
	16:58		20:10	6	07:40 (41)				22:14		21:52	20:36	11	07:37 (41)				16:54		16:00
Potential sun hours	231	264	366			428			512	534	534	472			385			322	244	211
Total, worst case				6			208						11			204				
Sun reduction				0.46			0.55						0.59			0.50				
Oper. time red.				0.94			0.94						0.94			0.94				
Wind dir. red.				0.64			0.64						0.64			0.64				
Total reduction				0.28			0.33						0.35			0.30				
Total, real				2			68						4			61				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IP - Ziru skola B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March		April		May	June
1	09:14	08:36		07:30		07:58 (3)	07:06	07:32 (41)	05:48	04:49
	16:01	17:00		18:05	19	08:17 (3)	20:12	2 07:34 (41)	21:17	22:16
2	09:14	08:34		07:27		07:57 (3)	07:03	07:29 (41)	05:45	04:48
	16:03	17:03		18:07	21	08:18 (3)	20:14	8 07:37 (41)	21:19	22:17
3	09:13	08:32		07:25		07:57 (3)	07:01	07:26 (41)	05:43	04:47
	16:04	17:05		18:09	21	08:18 (3)	20:16	12 07:38 (41)	21:21	22:19
4	09:13	08:30		07:22		07:56 (3)	06:58	07:24 (41)	05:41	04:46
	16:05	17:07		18:11	22	08:18 (3)	20:18	16 07:40 (41)	21:23	22:20
5	09:12	08:28		07:20		07:56 (3)	06:55	07:21 (41)	05:38	04:45
	16:07	17:10		18:14	22	08:18 (3)	20:21	19 07:40 (41)	21:25	22:21
6	09:12	08:26		07:17		07:56 (3)	06:52	07:20 (41)	05:36	04:44
	16:08	17:12		18:16	21	08:17 (3)	20:23	20 07:40 (41)	21:27	22:23
7	09:11	08:23		07:14		07:57 (3)	06:50	07:20 (41)	05:34	04:43
	16:10	17:14		18:18	20	08:17 (3)	20:25	21 07:41 (41)	21:29	22:24
8	09:10	08:21		07:12		07:57 (3)	06:47	07:19 (41)	05:32	04:42
	16:11	17:17		18:20	19	08:16 (3)	20:27	21 07:40 (41)	21:31	22:25
9	09:10	08:19		07:09		07:58 (3)	06:44	07:19 (41)	05:29	04:41
	16:13	17:19		18:22	16	08:14 (3)	20:29	20 07:39 (41)	21:33	22:26
10	09:09	08:17		07:06		07:59 (3)	06:42	07:19 (41)	05:27	04:41
	16:15	17:21		18:25	13	08:12 (3)	20:31	20 07:39 (41)	21:36	22:27
11	09:08	08:15		07:04		08:03 (3)	06:39	07:19 (41)	05:25	04:40
	16:17	17:23		18:27	6	08:09 (3)	20:34	19 07:38 (41)	21:38	22:28
12	09:07	08:12		07:01			06:36	07:19 (41)	05:23	04:39
	16:18	17:26		18:29			20:36	17 07:36 (41)	21:40	22:29
13	09:06	08:10		06:58			06:34	07:21 (41)	05:21	04:39
	16:20	17:28		18:31			20:38	14 07:35 (41)	21:42	22:30
14	09:05	08:08		06:55			06:31	07:22 (41)	05:19	04:39
	16:22	17:30		18:33			20:40	10 07:32 (41)	21:44	22:30
15	09:04	08:05		06:53			06:28		05:17	04:38
	16:24	17:33		18:35			20:42		21:46	22:31
16	09:02	08:03		06:50			06:26		05:15	04:38
	16:26	17:35		18:38			20:44		21:48	22:32
17	09:01	08:00		06:47			06:23		05:13	04:38
	16:28	17:37		18:40			20:46		21:50	22:32
18	09:00	07:58		06:44			06:20		05:11	04:38
	16:30	17:40		18:42			20:49		21:52	22:33
19	08:58	07:56		06:42			06:18		05:09	04:38
	16:32	17:42		18:44			20:51		21:54	22:33
20	08:57	07:53		06:39			06:15		05:07	04:38
	16:34	17:44		18:46			20:53		21:55	22:34
21	08:55	07:51		06:36			06:13		05:06	04:38
	16:36	17:46		18:48			20:55		21:57	22:34
22	08:54	07:48		06:34			06:10		05:04	04:38
	16:38	17:49		18:51			20:57		21:59	22:34
23	08:52	07:46		06:31			06:08		05:02	04:38
	16:40	17:51		18:53			20:59		22:01	22:34
24	08:51	07:43		06:28			06:05		05:00	04:38
	16:42	17:53		18:55			21:02		22:03	22:34
25	08:49	07:40		06:25			06:03		04:59	04:39
	16:45	17:56		18:57			21:04		22:05	22:34
26	08:47	07:38	08:05 (3)	06:23			06:00		04:57	04:39
	16:47	17:58	8 08:13 (3)	18:59			21:06		22:06	22:34
27	08:45	07:35	08:02 (3)	06:20			05:58		04:56	04:40
	16:49	18:00	13 08:15 (3)	19:01			21:08		22:08	22:34
28	08:44	07:33	08:00 (3)	06:17			05:55		04:54	04:40
	16:51	18:02	17 08:17 (3)	19:03			21:10		22:10	22:34
29	08:42			07:14			05:53		04:53	04:41
	16:54			20:06			21:12		22:11	22:34
30	08:40			07:12			05:50		04:52	04:42
	16:56			20:08			21:14		22:13	22:33
31	08:38			07:09					04:50	
	16:58			20:10					22:14	
Potential sun hours	231	264		366			428		512	534
Total, worst case			38		200			219		
Sun reduction			0.33		0.46			0.55		
Oper. time red.			0.94		0.94			0.94		
Wind dir. red.			0.60		0.60			0.64		
Total reduction			0.19		0.26			0.33		
Total, real			7		51			72		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IP - Ziru skola B

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August			September			October			November	December
1	04:43	05:30			06:34		07:18 (41)	07:36			07:43	08:47
	22:33	21:50			20:34	19	07:37 (41)	19:11			16:52	15:59
2	04:43	05:32			06:36		07:17 (41)	07:38			07:45	08:49
	22:32	21:48			20:31	20	07:37 (41)	19:09			16:49	15:58
3	04:44	05:34			06:38		07:17 (41)	07:40		08:38 (3)	07:48	08:50
	22:32	21:45			20:28	20	07:37 (41)	19:06	11	08:49 (3)	16:47	15:57
4	04:45	05:36			06:40		07:16 (41)	07:42		08:36 (3)	07:50	08:52
	22:31	21:43			20:26	21	07:37 (41)	19:03	14	08:50 (3)	16:45	15:56
5	04:46	05:38			06:42		07:16 (41)	07:44		08:34 (3)	07:52	08:54
	22:30	21:41			20:23	21	07:37 (41)	19:00	17	08:51 (3)	16:43	15:55
6	04:47	05:40			06:44		07:16 (41)	07:46		08:33 (3)	07:54	08:55
	22:30	21:39			20:20	20	07:36 (41)	18:58	20	08:53 (3)	16:41	15:54
7	04:49	05:42			06:46		07:16 (41)	07:48		08:32 (3)	07:57	08:57
	22:29	21:37			20:17	19	07:35 (41)	18:55	21	08:53 (3)	16:38	15:54
8	04:50	05:44			06:48		07:18 (41)	07:51		08:31 (3)	07:59	08:58
	22:28	21:34			20:15	16	07:34 (41)	18:52	22	08:53 (3)	16:36	15:53
9	04:51	05:46			06:50		07:20 (41)	07:53		08:31 (3)	08:01	09:00
	22:27	21:32			20:12	13	07:33 (41)	18:50	22	08:53 (3)	16:34	15:53
10	04:52	05:48			06:52		07:22 (41)	07:55		08:30 (3)	08:03	09:01
	22:26	21:30			20:09	9	07:31 (41)	18:47	22	08:52 (3)	16:32	15:52
11	04:54	05:50			06:55		07:24 (41)	07:57		08:31 (3)	08:06	09:02
	22:25	21:27			20:06	3	07:27 (41)	18:44	21	08:52 (3)	16:30	15:52
12	04:55	05:52			06:57			07:59		08:31 (3)	08:08	09:03
	22:23	21:25			20:04			18:42	20	08:51 (3)	16:28	15:52
13	04:57	05:55			06:59			08:01		08:31 (3)	08:10	09:05
	22:22	21:23			20:01			18:39	19	08:50 (3)	16:26	15:51
14	04:58	05:57			07:01			08:03		08:33 (3)	08:12	09:06
	22:21	21:20			19:58			18:36	15	08:48 (3)	16:24	15:51
15	05:00	05:59			07:03			08:06		08:36 (3)	08:14	09:07
	22:20	21:18			19:55			18:34	11	08:47 (3)	16:22	15:51
16	05:01	06:01			07:05			08:08		08:38 (3)	08:17	09:08
	22:18	21:15			19:53			18:31	6	08:44 (3)	16:21	15:51
17	05:03	06:03			07:07			08:10			08:19	09:09
	22:17	21:13			19:50			18:29			16:19	15:51
18	05:04	06:05			07:09			08:12			08:21	09:10
	22:15	21:10			19:47			18:26			16:17	15:51
19	05:06	06:07			07:11			08:14			08:23	09:10
	22:14	21:08			19:44			18:23			16:15	15:51
20	05:08	06:09			07:13			08:16			08:25	09:11
	22:12	21:05			19:42			18:21			16:14	15:52
21	05:09	06:11			07:15			08:19			08:27	09:12
	22:11	21:03			19:39			18:18			16:12	15:52
22	05:11	06:13			07:17			08:21			08:29	09:12
	22:09	21:00			19:36			18:16			16:10	15:53
23	05:13	06:15			07:19			08:23			08:31	09:13
	22:07	20:57			19:33			18:13			16:09	15:53
24	05:15	06:17			07:21			08:25			08:33	09:13
	22:05	20:55			19:31			18:11			16:07	15:54
25	05:17	06:19			07:23			07:28			08:35	09:14
	22:04	20:52			19:28			17:08			16:06	15:54
26	05:19	06:22			07:25			07:30			08:37	09:14
	22:02	20:50			19:25			17:06			16:05	15:55
27	05:20	06:24			07:28			07:32			08:39	09:14
	22:00	20:47			19:22			17:04			16:03	15:56
28	05:22	06:26			07:30			07:34			08:41	09:14
	21:58	20:44			19:20			17:01			16:02	15:57
29	05:24	06:28		07:23 (41)	07:32			07:36			08:43	09:14
	21:56	20:42	10	07:33 (41)	19:17			16:59			16:01	15:58
30	05:26	06:30		07:21 (41)	07:34			07:39			08:45	09:14
	21:54	20:39	14	07:35 (41)	19:14			16:56			16:00	15:59
31	05:28	06:32		07:19 (41)				07:41				09:14
	21:52	20:36	17	07:36 (41)				16:54				16:00
Potential sun hours	534	472			385			322			244	211
Total, worst case			41			181			241			
Sun reduction			0.59			0.50			0.42			
Oper. time red.			0.94			0.94			0.94			
Wind dir. red.			0.64			0.64			0.60			
Total reduction			0.35			0.30			0.24			
Total, real			15			54			57			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IQ - Ziles

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:47	04:48	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:50	20:33	19:11	16:51	15:58
2	09:13	08:34	07:27	07:03	05:45	04:47	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:57
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:03	17:04	18:09	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:56
4	09:13	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:44	15:55
5	09:12	08:28	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:12	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:23	22:29	21:39	20:20	18:57	16:40	15:54
7	09:11	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:57
	16:09	17:14	18:18	20:25	21:29	22:24	22:29	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:47	05:31	04:41	04:49	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59
	16:13	17:18	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34	15:52
10	09:09	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:14	17:21	18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25	04:39	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:25	21:27	20:06	18:44	16:30	15:51
12	09:07	08:12	07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:59	08:08	09:03
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:06	08:10	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:10	09:05
	16:20	17:28	18:31	20:38	21:42	22:30	22:22	21:22	20:01	18:39	16:26	15:51
14	09:05	08:07	06:55	06:31	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:06
	16:21	17:30	18:33	20:40	21:44	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:23	17:32	18:35	20:42	21:46	22:31	22:20	21:17	19:55	18:33	16:22	15:50
16	09:02	08:03	06:50	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:08
	16:25	17:35	18:37	20:44	21:48	22:32	22:18	21:15	19:52	18:31	16:20	15:50
17	09:01	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:10	08:19	09:09
	16:27	17:37	18:39	20:46	21:50	22:32	22:17	21:12	19:50	18:28	16:18	15:51
18	09:00	07:58	06:44	06:20	05:10	04:37	05:04	06:04	07:09	08:12	08:21	09:09
	16:29	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:16	15:51
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:07	07:11	08:14	08:23	09:10
	16:31	17:41	18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:33	17:44	18:46	20:53	21:55	22:34	22:12	21:05	19:41	18:21	16:13	15:51
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:12
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:15	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:08	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:10	16:07	15:53
25	08:49	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14
	16:46	17:57	18:59	21:06	22:06	22:34	22:02	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:55
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:56
29	08:42		07:14	05:52	04:52	04:40	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:16	16:58	16:00	15:57
30	08:40		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:45	09:14
	16:55		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	15:59	15:58
31	08:38		07:08		04:50		05:28	06:31		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		15:59
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IR - Zilites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	08:09 (41)	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:47
	16:01	17:00	18:05	24 08:33 (41)	20:12	21:17	22:16	22:33	21:50	20:34	19:11	16:52	15:59
2	09:14	08:34	07:27	08:09 (41)	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:49
	16:03	17:03	18:07	23 08:32 (41)	20:14	21:19	22:17	22:32	21:48	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	08:10 (41)	07:01	05:43	04:47	04:44	05:34	06:38	07:40	07:48	08:50
	16:04	17:05	18:09	22 08:32 (41)	20:16	21:21	22:19	22:32	21:45	20:28	19:06	16:47	15:57
4	09:13	08:30	07:22	08:11 (41)	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20 08:31 (41)	20:18	21:23	22:20	22:31	21:43	20:26	19:03	16:45	15:56
5	09:12	08:28	07:20	08:11 (41)	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:54
	16:07	17:10	18:13	18 08:29 (41)	20:21	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:12	08:26	07:17	08:13 (41)	06:52	05:36	04:44	04:47	05:40	06:44	07:46	08:56 (41)	07:54	08:55
	16:08	17:12	18:16	14 08:27 (41)	20:23	21:27	22:23	22:30	21:39	20:20	18:58	1 08:57 (41)	16:40	15:54
7	09:11	08:24	07:14	08:16 (41)	06:50	05:34	04:43	04:48	05:42	06:46	07:48	08:50 (41)	07:57	08:57
	16:10	17:14	18:18	8 08:24 (41)	20:25	21:29	22:24	22:29	21:37	20:17	18:55	12 09:02 (41)	16:38	15:54
8	09:10	08:21	07:12		06:47	05:32	04:42	04:50	05:44	06:48	07:51	08:47 (41)	07:59	08:58
	16:11	17:16	18:20		20:27	21:31	22:25	22:28	21:34	20:15	18:52	16 09:03 (41)	16:36	15:53
9	09:10	08:19	07:09		06:44	05:29	04:41	04:51	05:46	06:50	07:53	08:46 (41)	08:01	09:00
	16:13	17:19	18:22		20:29	21:33	22:26	22:27	21:32	20:12	18:50	18 09:04 (41)	16:34	15:53
10	09:09	08:17	07:06		06:42	05:27	04:40	04:52	05:48	06:52	07:55	08:44 (41)	08:03	09:01
	16:15	17:21	18:25		20:31	21:36	22:27	22:26	21:30	20:09	18:47	21 09:05 (41)	16:32	15:52
11	09:08	08:15	07:04		06:39	05:25	04:40	04:54	05:50	06:55	07:57	08:44 (41)	08:06	09:02
	16:16	17:23	18:27		20:34	21:38	22:28	22:25	21:27	20:06	18:44	22 09:06 (41)	16:30	15:52
12	09:07	08:12	07:01		06:36	05:23	04:39	04:55	05:52	06:57	07:59	08:43 (41)	08:08	09:04
	16:18	17:26	18:29		20:36	21:40	22:29	22:24	21:25	20:04	18:42	23 09:06 (41)	16:28	15:51
13	09:06	08:10	06:58		06:34	05:21	04:39	04:56	05:54	06:59	08:01	08:42 (41)	08:10	09:05
	16:20	17:28	18:31		20:38	21:42	22:30	22:22	21:23	20:01	18:39	24 09:06 (41)	16:26	15:51
14	09:05	08:08	06:55		06:31	05:19	04:38	04:58	05:57	07:01	08:03	08:42 (41)	08:12	09:06
	16:22	17:30	18:33		20:40	21:44	22:31	22:21	21:20	19:58	18:36	23 09:05 (41)	16:24	15:51
15	09:04	08:05	06:53		06:28	05:17	04:38	04:59	05:59	07:03	07:58 (42)	08:06	08:42 (41)	08:14	09:07
	16:24	17:33	18:35		20:42	21:46	22:31	22:20	21:18	19:55	8 08:06 (42)	18:34	24 09:06 (41)	16:22	15:51
16	09:02	08:03	06:50	07:16 (42)	06:26	05:15	04:38	05:01	06:01	07:05	07:55 (42)	08:08	08:42 (41)	08:17	09:08
	16:26	17:35	18:38	5 07:21 (42)	20:44	21:48	22:32	22:18	21:15	19:53	13 08:08 (42)	18:31	23 09:05 (41)	16:20	15:51
17	09:01	08:00	06:47	07:13 (42)	06:23	05:13	04:38	05:03	06:03	07:07	07:53 (42)	08:10	08:42 (41)	08:19	09:09
	16:28	17:37	18:40	10 07:23 (42)	20:46	21:50	22:32	22:17	21:13	19:50	17 08:10 (42)	18:29	22 09:04 (41)	16:19	15:51
18	09:00	07:58	06:44	07:10 (42)	06:20	05:11	04:38	05:04	06:05	07:09	07:52 (42)	08:12	08:44 (41)	08:21	09:10
	16:30	17:40	18:42	14 07:24 (42)	20:49	21:52	22:33	22:15	21:10	19:47	18 08:10 (42)	18:26	19 09:03 (41)	16:17	15:51
19	08:58	07:56	06:42	07:07 (42)	06:18	05:09	04:38	05:06	06:07	07:11	07:51 (42)	08:14	08:45 (41)	08:23	09:10
	16:32	17:42	18:44	17 07:24 (42)	20:51	21:54	22:33	22:14	21:08	19:44	20 08:11 (42)	18:23	17 09:02 (41)	16:15	15:51
20	08:57	07:53	06:39	07:05 (42)	06:15	05:07	04:38	05:08	06:09	07:13	07:50 (42)	08:16	08:47 (41)	08:25	09:11
	16:34	17:44	18:46	20 07:25 (42)	20:53	21:55	22:34	22:12	21:05	19:42	21 08:11 (42)	18:21	13 09:00 (41)	16:14	15:52
21	08:55	07:51	06:36	07:04 (42)	06:13	05:05	04:38	05:09	06:11	07:15	07:49 (42)	08:19	08:50 (41)	08:27	09:12
	16:36	17:46 9 08:27 (41)	18:48	21 07:25 (42)	20:55	21:57	22:34	22:11	21:03	19:39	21 08:10 (42)	18:18	8 08:58 (41)	16:12	15:52
22	08:54	07:48 08:16 (41)	06:33	07:04 (42)	06:10	05:04	04:38	05:11	06:13	07:17	07:49 (42)	08:21		08:29	09:12
	16:38	17:49 14 08:30 (41)	18:51	21 07:25 (42)	20:57	21:59	22:34	22:09	21:00	19:36	21 08:10 (42)	18:16		16:10	15:52
23	08:52	07:46 08:13 (41)	06:31	07:03 (42)	06:08	05:02	04:38	05:13	06:15	07:19	07:49 (42)	08:23		08:31	09:13
	16:40	17:51 18 08:31 (41)	18:53	21 07:24 (42)	20:59	22:01	22:34	22:07	20:57	19:33	20 08:09 (42)	18:13		16:09	15:53
24	08:51	07:43 08:11 (41)	06:28	07:04 (42)	06:05	05:00	04:38	05:15	06:17	07:21	07:50 (42)	08:25		08:33	09:13
	16:42	17:53 21 08:32 (41)	18:55	20 07:24 (42)	21:02	22:03	22:34	22:05	20:55	19:31	18 08:08 (42)	18:11		16:07	15:54
25	08:49	07:40 08:11 (41)	06:25	07:04 (42)	06:03	04:59	04:39	05:17	06:19	07:23	07:52 (42)	07:28		08:35	09:14
	16:45	17:56 22 08:33 (41)	18:57	19 07:23 (42)	21:04	22:05	22:34	22:04	20:52	19:28	15 08:07 (42)	17:08		16:06	15:54
26	08:47	07:38 08:10 (41)	06:23	07:05 (42)	06:00	04:57	04:39	05:18	06:21	07:25	07:54 (42)	07:30		08:37	09:14
	16:47	17:58 23 08:33 (41)	18:59	16 07:21 (42)	21:06	22:06	22:34	22:02	20:50	19:25	11 08:05 (42)	17:06		16:05	15:55
27	08:45	07:35 08:09 (41)	06:20	07:05 (42)	05:58	04:56	04:40	05:20	06:24	07:27	07:56 (42)	07:32		08:39	09:14
	16:49	18:00 24 08:33 (41)	19:01	14 07:19 (42)	21:08	22:08	22:34	22:00	20:47	19:22	7 08:03 (42)	17:04		16:03	15:56
28	08:44	07:33 08:10 (41)	06:17	07:08 (42)	05:55	04:54	04:40	05:22	06:26	07:30		07:34		08:41	09:14
	16:51	18:02 23 08:33 (41)	19:03	9 07:17 (42)	21:10	22:10	22:34	21:58	20:44	19:20		17:01		16:02	15:57
29	08:42		07:14		05:53	04:53	04:41	05:24	06:28	07:32		07:36		08:43	09:14
	16:53		20:06		21:12	22:11	22:34	21:56	20:42	19:17		16:59		16:01	15:58
30	08:40		07:12		05:50	04:51	04:42	05:26	06:30	07:34		07:39		08:45	09:14
	16:56		20:08		21:14	22:13	22:33	21:54	20:39	19:14		16:56		16:00	15:59
31	08:38		07:09			04:50		05:28	06:32			07:41			09:14
	16:58		20:10			22:14		21:52	20:36			16:54			16:00
Potential sun hours	231	264	366		428	512	534	534	472	385		322		244	211
Total, worst case		154		336						210		286			
Sun reduction		0.33		0.46						0.50		0.42			
Oper. time red.		0.94		0.94						0.94		0.94			
Wind dir. red.		0.60		0.61						0.62		0.60			
Total reduction		0.19		0.26						0.29		0.24			
Total, real		29		89						61		68			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar

Shadow receptor: IS - Zu š i

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

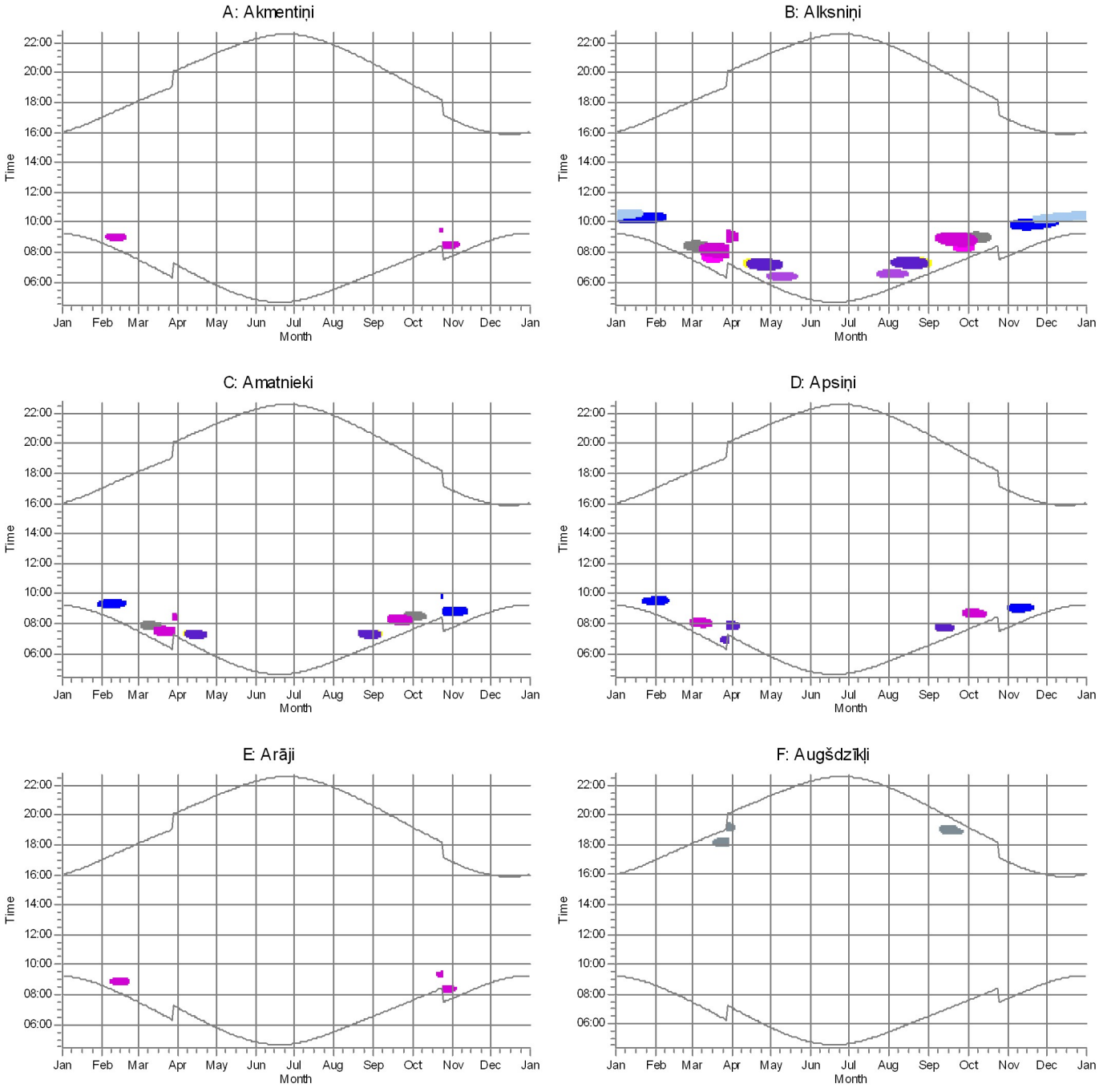
	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:13		14:40 (38)	08:35		14:59 (38)	07:29	07:05	05:47	04:48	04:42	05:29	06:33	07:35	07:42			08:46		14:24 (38)
	16:01	30	15:10 (38)	17:00	29	15:47 (39)	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51			15:58	46	15:16 (39)
2	09:13		14:41 (38)	08:33		15:03 (38)	07:27	07:03	05:45	04:47	04:43	05:31	06:35	07:37	07:45			08:48		14:25 (38)
	16:02	30	15:11 (38)	17:02	16	15:45 (39)	18:06	20:13	21:18	22:17	22:32	21:47	20:30	19:08	16:49			15:57	42	15:14 (39)
3	09:12		14:41 (38)	08:31			07:24	07:00	05:42	04:46	04:44	05:33	06:37	07:39	07:47			08:50		14:25 (38)
	16:03	30	15:11 (38)	17:04			18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:46			15:56	40	15:13 (39)
4	09:12		14:41 (38)	08:29			07:21	06:57	05:40	04:45	04:45	05:35	06:39	07:41	07:49			08:51		14:26 (38)
	16:05	31	15:12 (38)	17:06			18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:02	16:44			15:55	37	15:12 (39)
5	09:12		14:42 (38)	08:27			07:19	06:54	05:38	04:44	04:46	05:37	06:41	07:44	07:51			08:53		14:27 (38)
	16:06	31	15:13 (38)	17:09			18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42			15:54	34	15:11 (39)
6	09:11		14:42 (38)	08:25			07:16	06:52	05:35	04:43	04:47	05:39	06:44	07:46	07:54			08:54		14:28 (38)
	16:08	32	15:14 (38)	17:11			18:15	20:22	21:26	22:22	22:29	21:38	20:19	18:57	16:40			15:54	32	15:00 (38)
7	09:10		14:42 (38)	08:23			07:14	06:49	05:33	04:42	04:48	05:41	06:46	07:48	07:56			08:56		14:28 (38)
	16:09	33	15:26 (39)	17:13			18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:54	16:38			15:53	31	14:59 (38)
8	09:10		14:42 (38)	08:21			07:11	06:46	05:31	04:41	04:49	05:43	06:48	07:50	07:58			08:57		14:29 (38)
	16:11	37	15:28 (39)	17:16			18:19	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:36			15:52	31	15:00 (38)
9	09:09		14:42 (38)	08:18			07:08	06:44	05:29	04:40	04:50	05:46	06:50	07:52	08:00		14:32 (38)	08:59		14:29 (38)
	16:12	40	15:30 (39)	17:18			18:22	20:28	21:33	22:25	22:26	21:31	20:11	18:49	16:33	19	15:15 (39)	15:52	31	15:00 (38)
10	09:08		14:42 (38)	08:16			07:05	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03		14:29 (38)	09:00		14:30 (38)
	16:14	42	15:31 (39)	17:20			18:24	20:31	21:35	22:26	22:25	21:29	20:08	18:46	16:31	31	15:18 (39)	15:51	30	15:00 (38)
11	09:07		14:42 (38)	08:14			07:03	06:38	05:24	04:39	04:53	05:50	06:54	07:56	08:05		14:27 (38)	09:02		14:30 (38)
	16:16	44	15:33 (39)	17:23			18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:29	37	15:19 (39)	15:51	30	15:00 (38)
12	09:06		14:43 (38)	08:12			07:00	06:36	05:22	04:39	04:54	05:52	06:56	07:58	08:07		14:26 (38)	09:03		14:31 (38)
	16:18	47	15:36 (39)	17:25			18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:27	42	15:20 (39)	15:51	30	15:01 (38)
13	09:05		14:42 (38)	08:09			06:57	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09		14:24 (38)	09:04		14:32 (38)
	16:19	50	15:37 (39)	17:27			18:30	20:37	21:41	22:29	22:22	21:22	20:00	18:38	16:25	47	15:21 (39)	15:51	29	15:01 (38)
14	09:04		14:43 (38)	08:07			06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:11		14:24 (38)	09:05		14:32 (38)
	16:21	52	15:40 (39)	17:30			18:33	20:39	21:43	22:30	22:20	21:19	19:57	18:36	16:23	50	15:22 (39)	15:50	29	15:01 (38)
15	09:03		14:44 (38)	08:04			06:52	06:28	05:16	04:37	04:59	05:58	07:02	08:05	08:14		14:23 (38)	09:06		14:33 (38)
	16:23	55	15:43 (39)	17:32			18:35	20:41	21:45	22:30	22:19	21:17	19:55	18:33	16:22	52	15:22 (39)	15:50	28	15:01 (38)
16	09:02		14:44 (38)	08:02			06:49	06:25	05:14	04:37	05:00	06:00	07:04	08:07	08:16		14:23 (38)	09:07		14:33 (38)
	16:25	56	15:44 (39)	17:34			18:37	20:44	21:47	22:31	22:18	21:14	19:52	18:30	16:20	56	15:24 (39)	15:50	28	15:01 (38)
17	09:00		14:44 (38)	08:00			06:46	06:22	05:12	04:37	05:02	06:02	07:06	08:09	08:18		14:22 (38)	09:08		14:34 (38)
	16:27	59	15:46 (39)	17:37			18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	57	15:24 (39)	15:50	28	15:02 (38)
18	08:59		14:45 (38)	07:57			06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:11	08:20		14:22 (38)	09:09		14:35 (38)
	16:29	61	15:49 (39)	17:39			18:41	20:48	21:51	22:32	22:15	21:09	19:46	18:25	16:16	59	15:25 (39)	15:50	27	15:02 (38)
19	08:58		14:45 (38)	07:55			06:41	06:17	05:08	04:37	05:05	06:06	07:10	08:14	08:22		14:21 (38)	09:10		14:35 (38)
	16:31	61	15:49 (39)	17:41			18:43	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	60	15:25 (39)	15:51	28	15:03 (38)
20	08:56		14:45 (38)	07:52			06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:24		14:22 (38)	09:10		14:36 (38)
	16:33	61	15:49 (39)	17:43			18:46	20:52	21:55	22:33	22:11	21:04	19:41	18:20	16:13	59	15:25 (39)	15:51	28	15:04 (38)
21	08:55		14:45 (38)	07:50			06:36	06:12	05:05	04:37	05:09	06:10	07:14	08:18	08:27		14:21 (38)	09:11		14:36 (38)
	16:35	61	15:49 (39)	17:46			18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	61	15:25 (39)	15:51	27	15:03 (38)
22	08:53		14:47 (38)	07:47			06:33	06:09	05:03	04:37	05:10	06:12	07:16	08:20	08:29		14:21 (38)	09:12		14:37 (38)
	16:37	59	15:50 (39)	17:48			18:50	20:56	21:58	22:33	22:08	20:59	19:35	18:15	16:10	61	15:25 (39)	15:52	27	15:04 (38)
23	08:52		14:47 (38)	07:45			06:30	06:07	05:01	04:37	05:12	06:15	07:18	08:22	08:31		14:22 (38)	09:12		14:37 (38)
	16:40	60	15:51 (39)	17:50			18:52	20:59	22:00	22:34	22:06	20:57	19:33	18:13	16:08	61	15:26 (39)	15:52	28	15:05 (38)
24	08:50		14:48 (38)	07:42			06:27	06:04	05:00	04:38	05:14	06:17	07:21	08:25	08:33		14:22 (38)	09:12		14:37 (38)
	16:42	59	15:51 (39)	17:53			18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	61	15:26 (39)	15:53	28	15:05 (38)
25	08:48		14:49 (38)	07:40			06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35		14:22 (38)	09:13		14:39 (38)
	16:44	57	15:51 (39)	17:55			18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:05	59	15:24 (39)	15:54	27	15:06 (38)
26	08:46		14:50 (38)	07:37			06:22	05:59	04:56	04:39	05:18	06:21	07:25	07:29	08:37		14:22 (38)	09:13		14:39 (38)
	16:46	56	15:51 (39)	17:57			18:58	21:05	22:06	22:34	22:01	20:49	19:24	17:05	16:04	57	15:23 (39)	15:54	28	15:07 (38)
27	08:45		14:51 (38)	07:35			06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39		14:23 (38)	09:13		14:39 (38)
	16:48	53	15:51 (39)	17:59			19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	55	15:22 (39)	15:55	28	15:07 (38)
28	08:43		14:52 (38)	07:32			06:16	05:54	04:54	04:40	05:22	06:25	07:29	07:33	08:41		14:23 (38)	09:13		14:40 (38)
	16:51	50	15:50 (39)	18:02			19:03	21:09	22:09	22:33	21:57	20:44	19:19	17:00	16:01	52	15:20 (39)	15:56	28	15:08 (38)
29	08:41		14:52 (38)				07:14	05:52	04:52	04:40	05:23	06:27	07:31	07:36	08:42		14:23 (38)	09:13		14:39 (38)
	16:53	47	15:49 (39)				20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	51	15:19 (39)	15:57	29	15:08 (38)
30	08:39		14:54 (38)				07:11	05:49	04:51	04:41	05:25	06:29	07:33	07:38	08:44		14:24 (38)	09:13		14:40 (38)
	16:55	42	15:48 (39)				20:07	21:14	22:12	22:32	21:53	20:38	19:13	16:56	15:59	47	15:17 (39)	15:58	29	15:09 (38)
31	08:37		14:56 (38)				07:08		04:49		05:27	06:31		07:40				09:13		14:40 (38)
	16:57	37	15:48 (39)				20:09		22:14		21:51	20:36		16:53				15:59	30	15:10 (38)
Potential sun hours	231			264			366	428	512	534	534	472	385	322	244			211		
Total, worst case		1463			45											1134			948	
Sun reduction		0.28			0.33											0.23			0.23	
Oper. time red.		0.94			0.94											0.94			0.94	
Wind dir. red.		0.68			0.68											0.68			0.69	
Total reduction		0.18			0.21											0.15			0.15	
Total, real		259			10											167			138	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

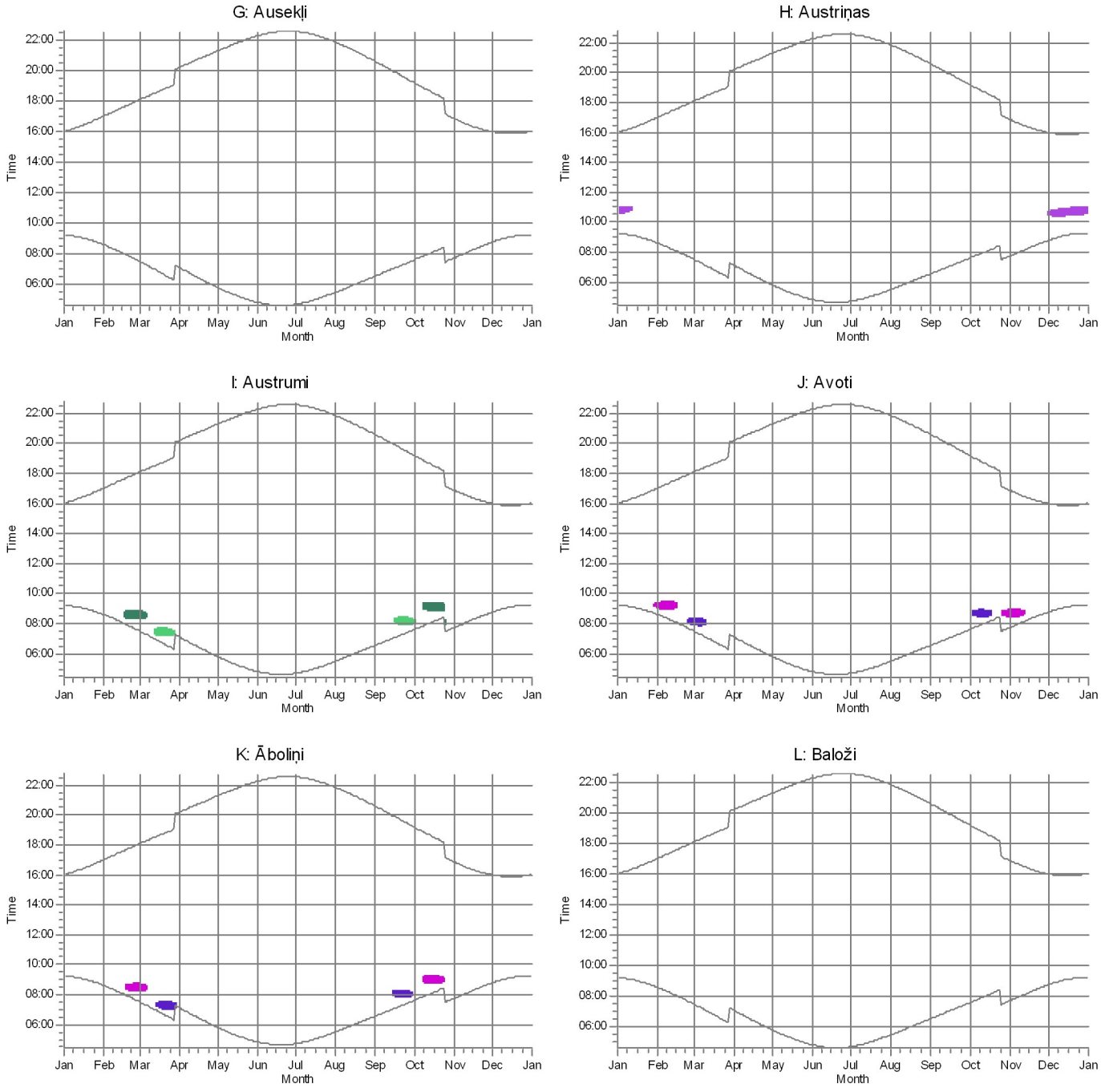


WTGs

2: V-2_3 (Ventspils-2)	4: V-2_7 (Ventspils-2)	15: V-2_20 (Ventspils-2)	41: T92 (Envirsus)	43: T94 (Envirsus)
3: V-2_6 (Ventspils-2)	5: V-2_8 (Ventspils-2)	38: V-2_91 (Ventspils-2)	42: T93 (Envirsus)	

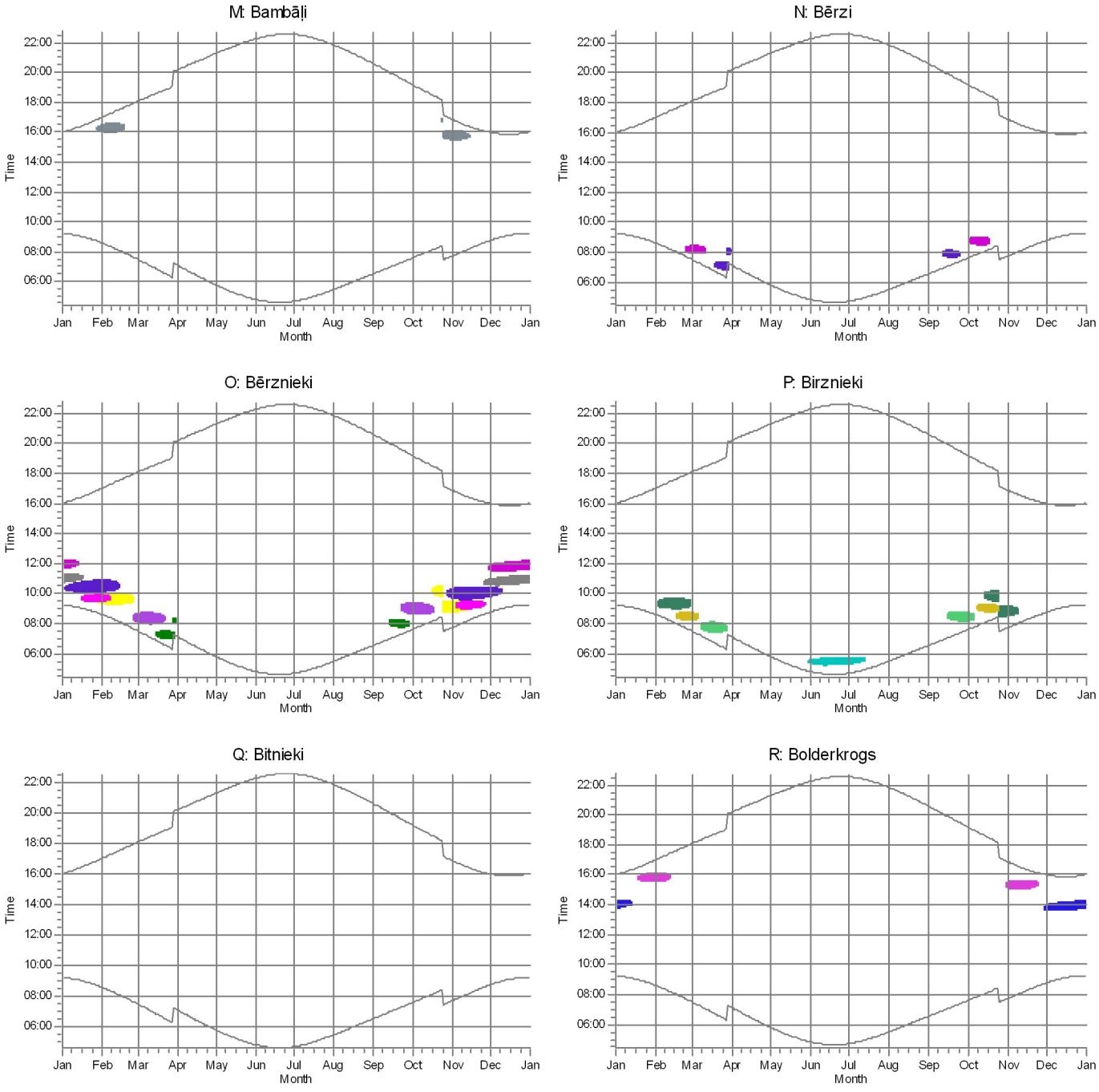
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

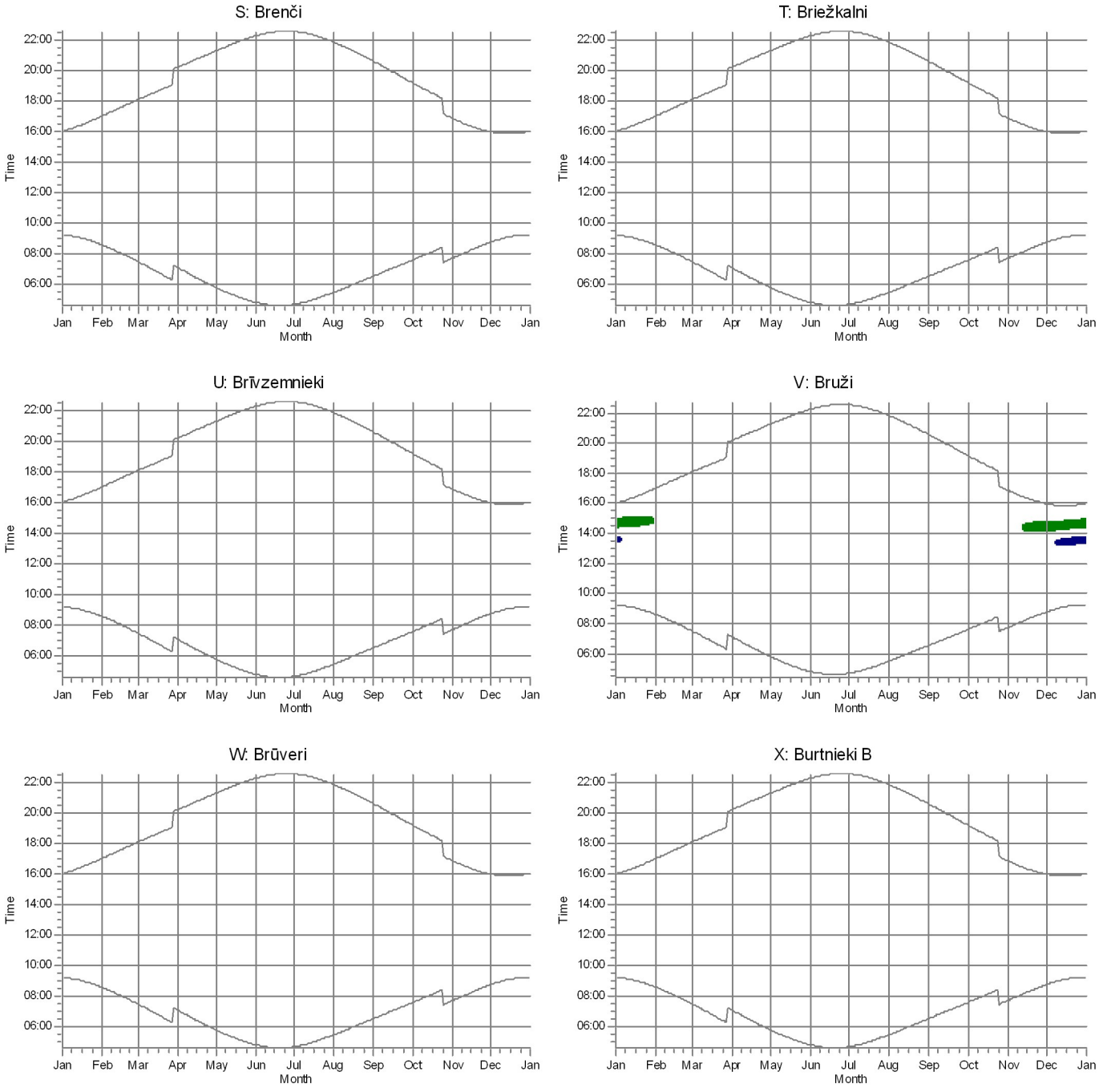


WTGs

1: V-2_1 (Ventspils-2)	5: V-2_8 (Ventspils-2)	29: V-2_41 (Ventspils-2)	36: V-2_87 (Ventspils-2)	42: T93 (Envirsus)
2: V-2_3 (Ventspils-2)	21: V-2_30 (Ventspils-2)	30: V-2_42 (Ventspils-2)	38: V-2_91 (Ventspils-2)	43: T94 (Envirsus)
4: V-2_7 (Ventspils-2)	28: V-2_40 (Ventspils-2)	35: V-2_86 (Ventspils-2)	41: T92 (Envirsus)	

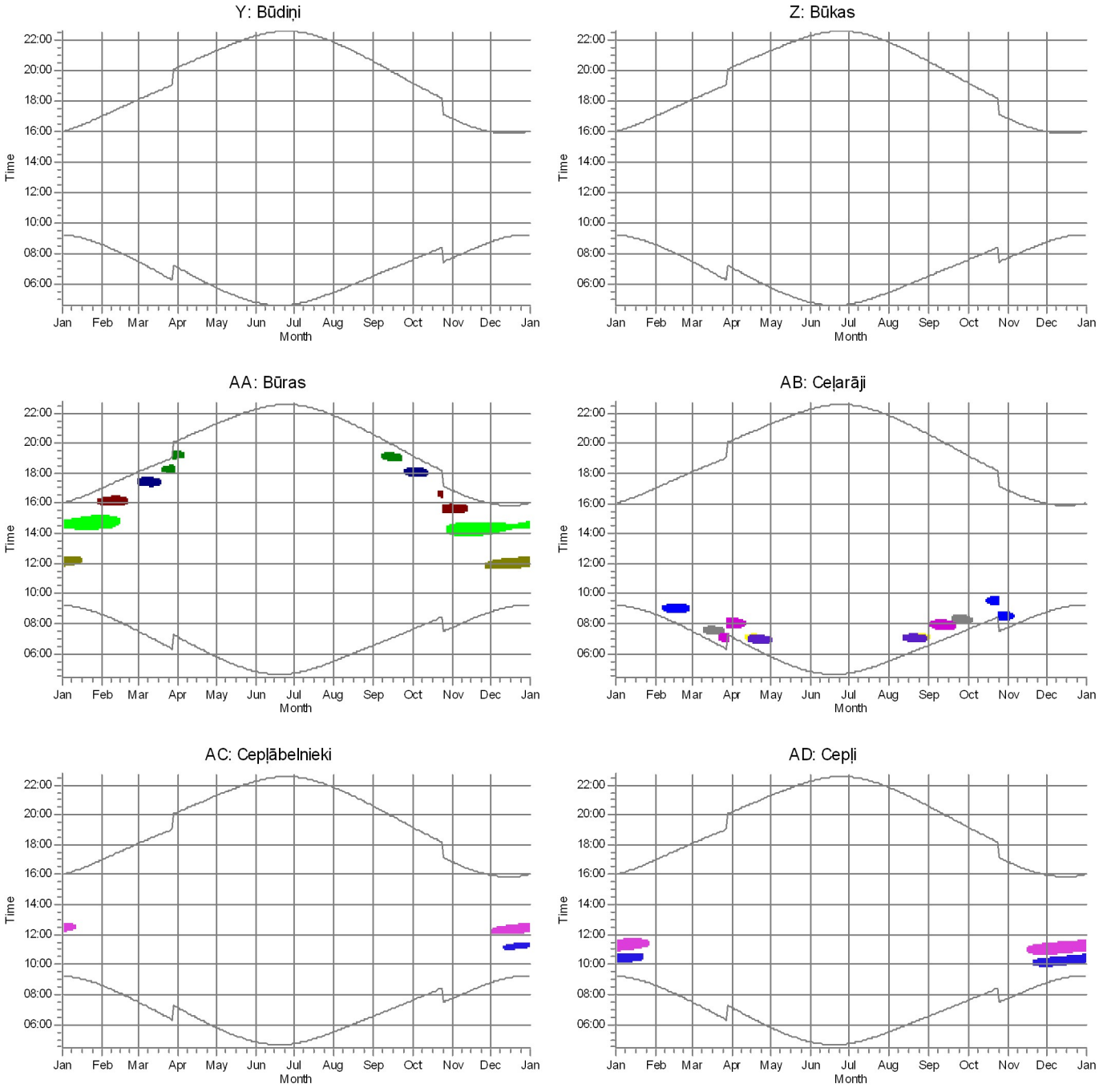
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

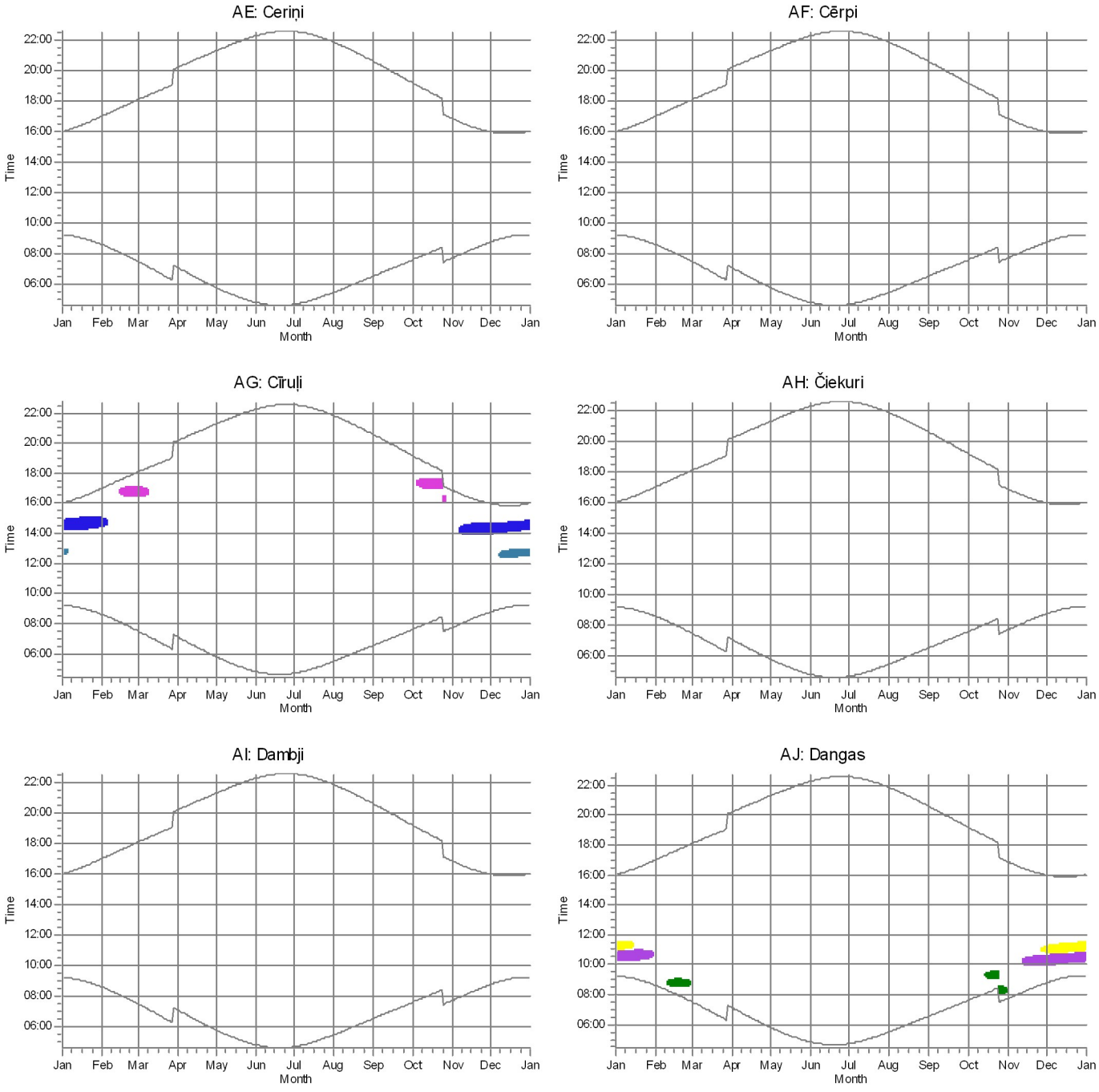


WTGs

1: V-2_1 (Ventspils-2)	4: V-2_7 (Ventspils-2)	9: V-2_12 (Ventspils-2)	36: V-2_87 (Ventspils-2)
2: V-2_3 (Ventspils-2)	7: V-2_10 (Ventspils-2)	10: V-2_13 (Ventspils-2)	41: T92 (Envirsus)
3: V-2_6 (Ventspils-2)	8: V-2_11 (Ventspils-2)	35: V-2_86 (Ventspils-2)	42: T93 (Envirsus)

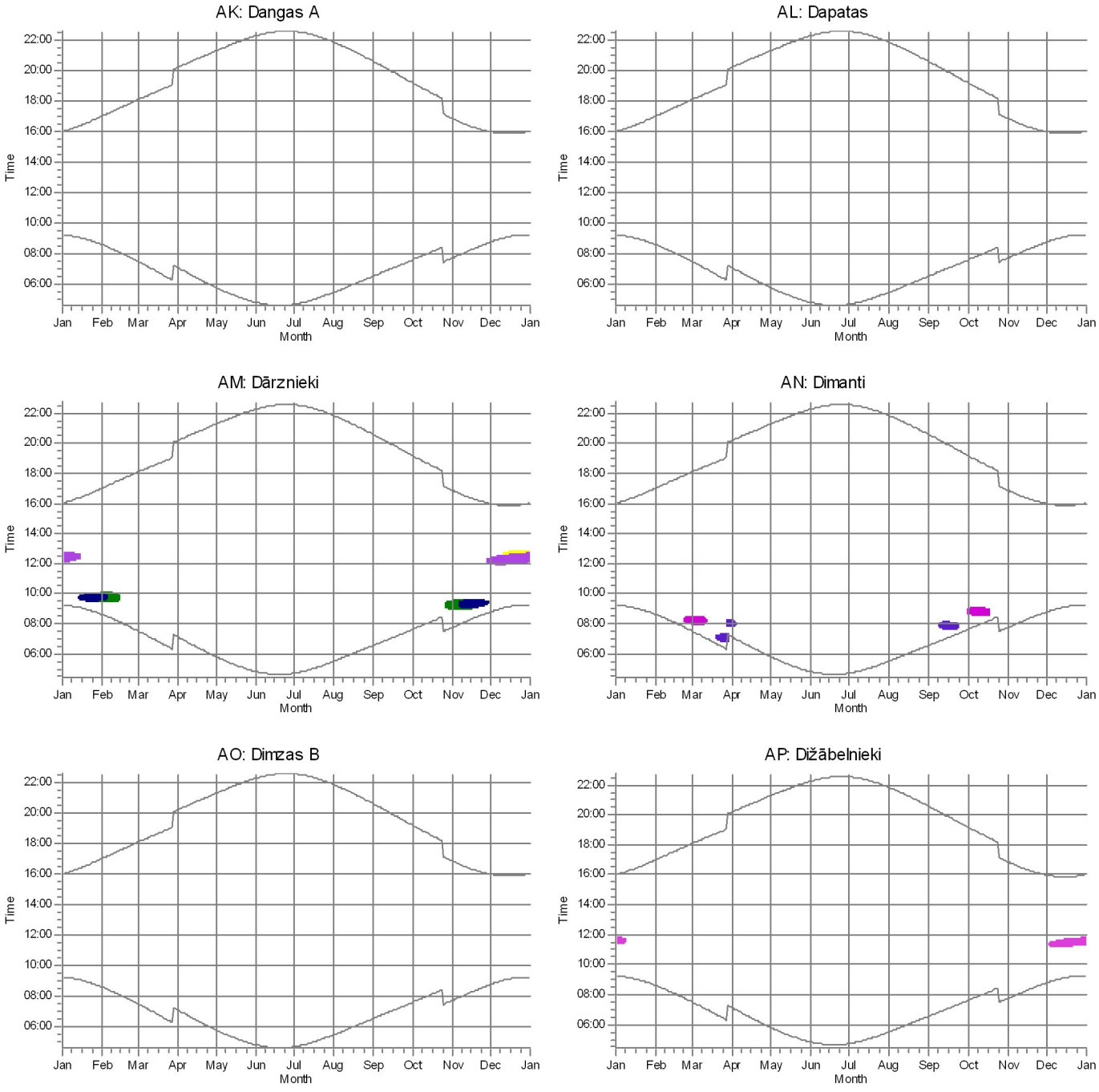
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



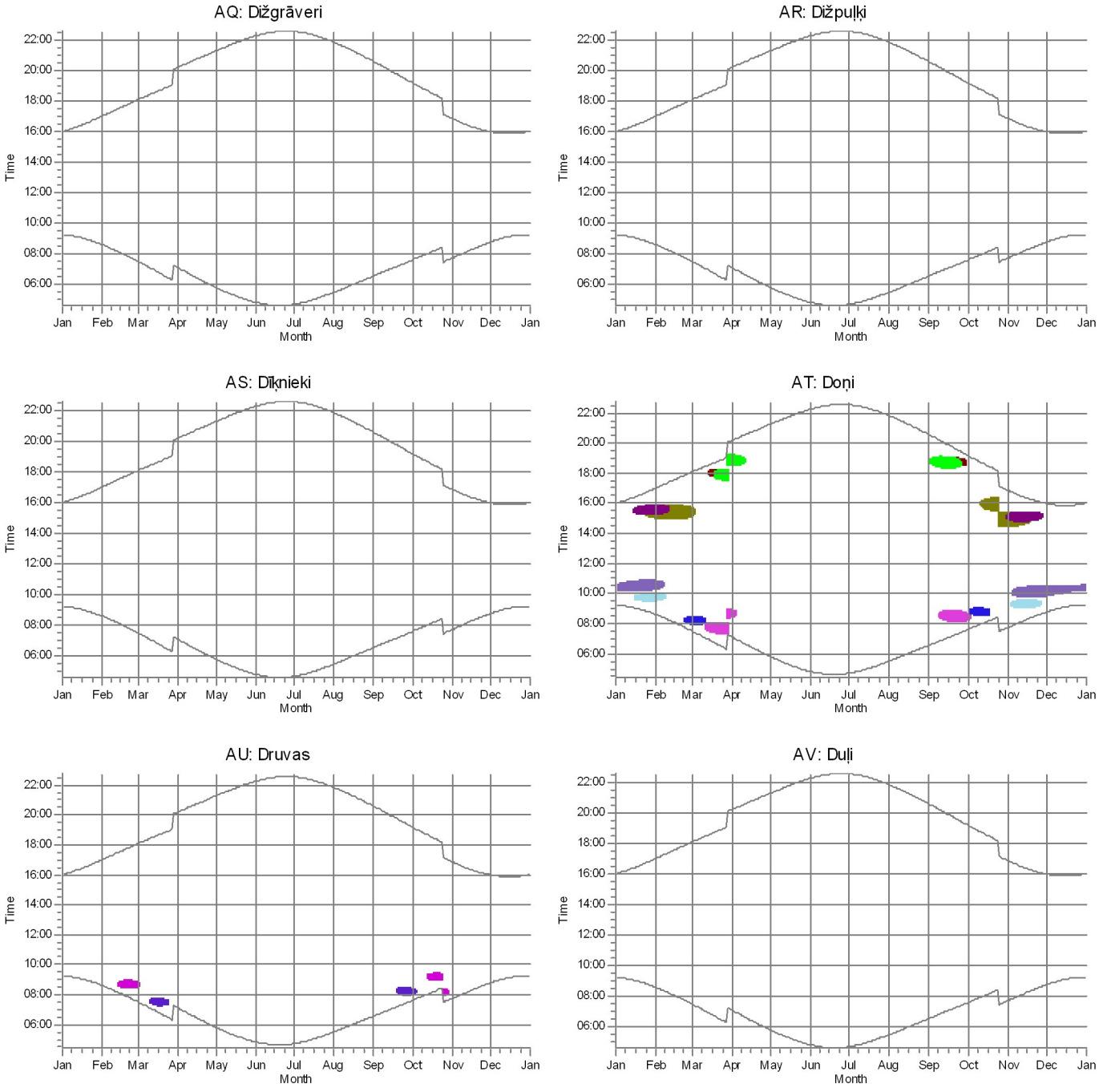
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

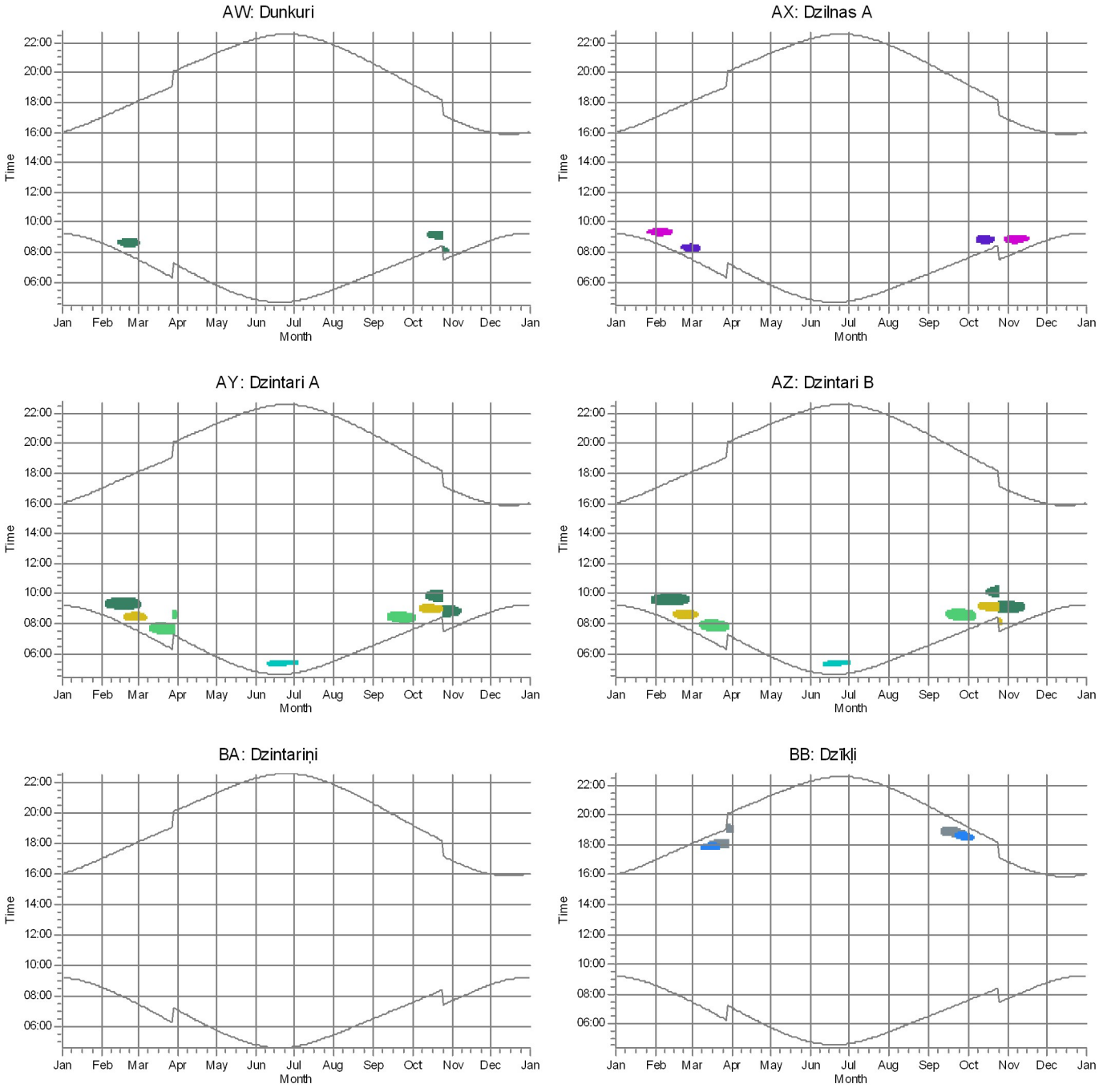


WTGs

8: V-2_11 (Ventspils-2)	10: V-2_13 (Ventspils-2)	33: V-2_84 (Ventspils-2)	35: V-2_86 (Ventspils-2)	41: T92 (Envirsus)
9: V-2_12 (Ventspils-2)	11: V-2_14 (Ventspils-2)	34: V-2_85 (Ventspils-2)	36: V-2_87 (Ventspils-2)	42: T93 (Envirsus)

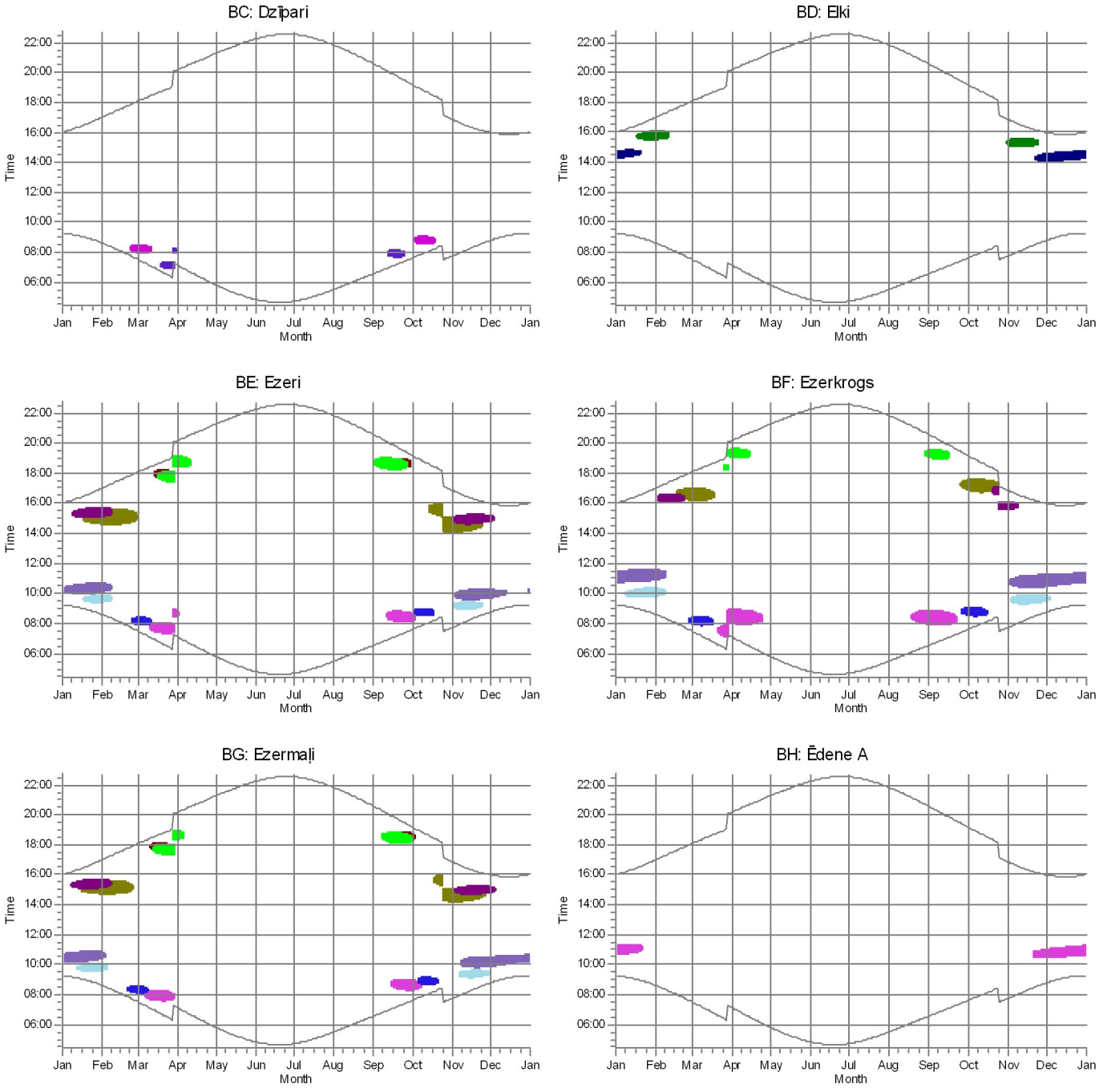
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

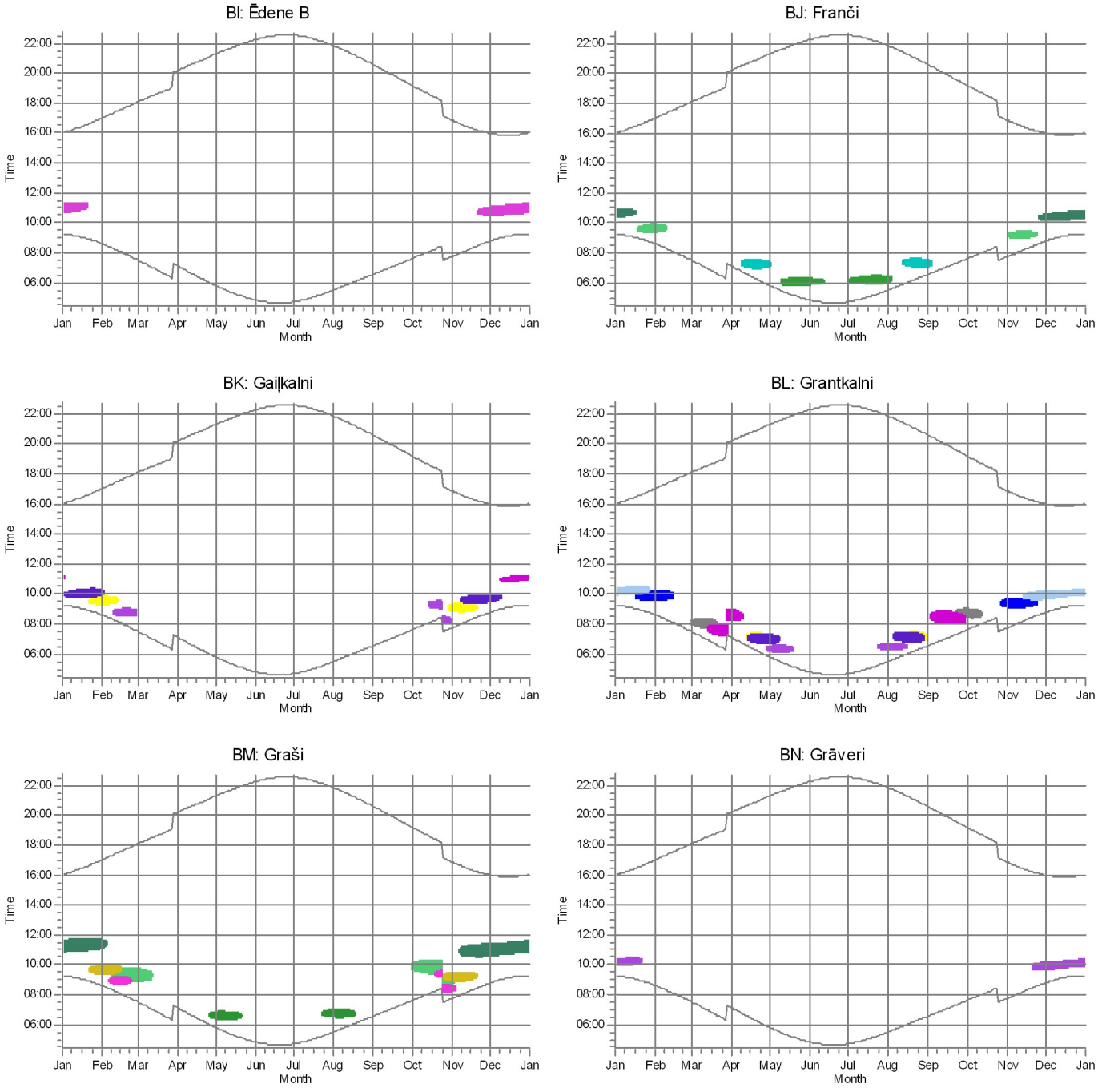


WTGs

1: V-2_1 (Ventspils-2)	9: V-2_12 (Ventspils-2)	33: V-2_84 (Ventspils-2)	36: V-2_87 (Ventspils-2)
7: V-2_10 (Ventspils-2)	10: V-2_13 (Ventspils-2)	34: V-2_85 (Ventspils-2)	41: T92 (Envirsus)
8: V-2_11 (Ventspils-2)	11: V-2_14 (Ventspils-2)	35: V-2_86 (Ventspils-2)	42: T93 (Envirsus)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

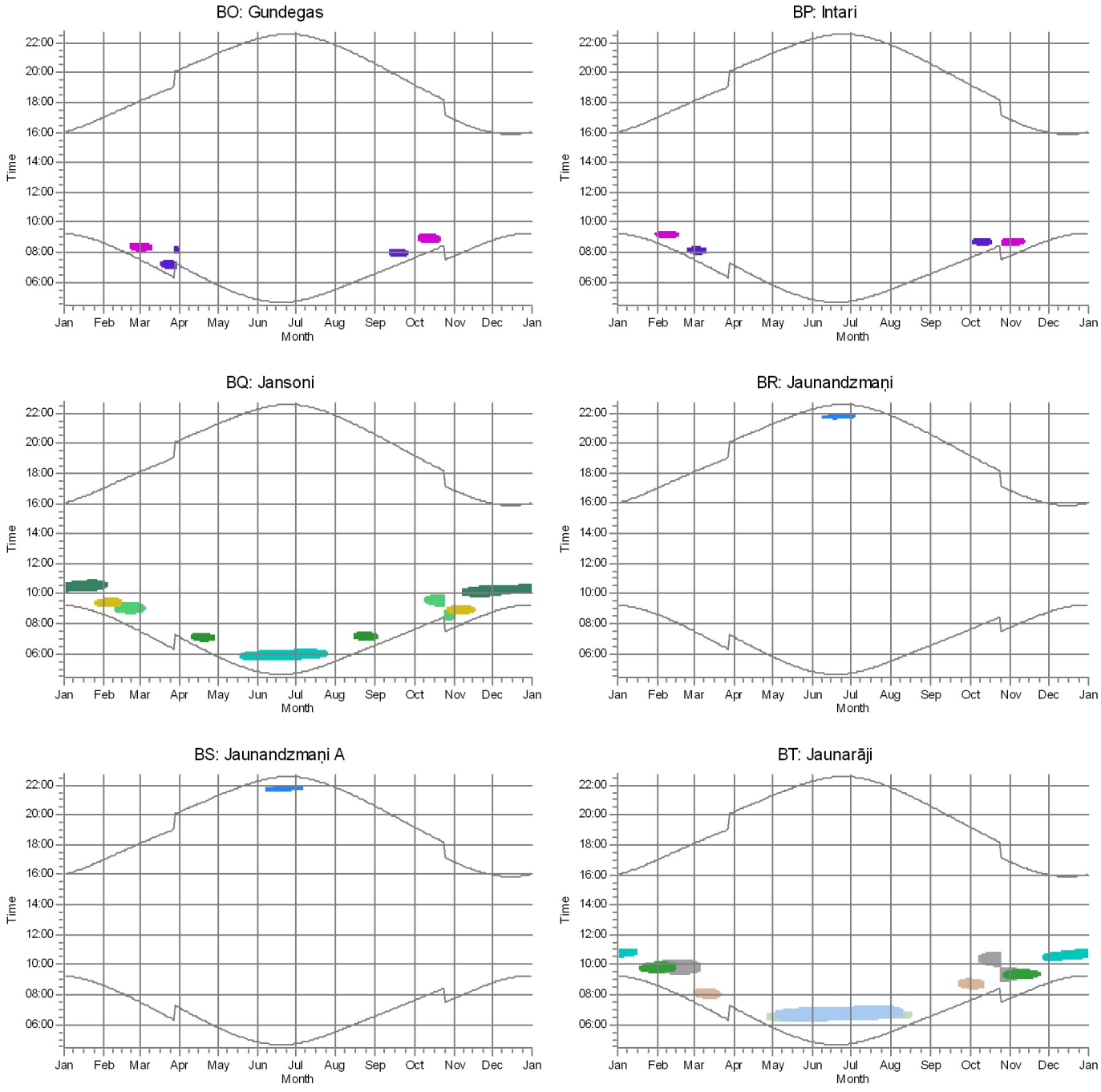


WTGs

2: V-2_3 (Ventspils-2)	15: V-2_20 (Ventspils-2)	27: V-2_37 (Ventspils-2)	30: V-2_42 (Ventspils-2)	41: T92 (Envirsus)
3: V-2_6 (Ventspils-2)	20: V-2_27 (Ventspils-2)	28: V-2_40 (Ventspils-2)	31: V-2_43 (Ventspils-2)	42: T93 (Envirsus)
4: V-2_7 (Ventspils-2)	21: V-2_30 (Ventspils-2)	29: V-2_41 (Ventspils-2)	35: V-2_86 (Ventspils-2)	43: T94 (Envirsus)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

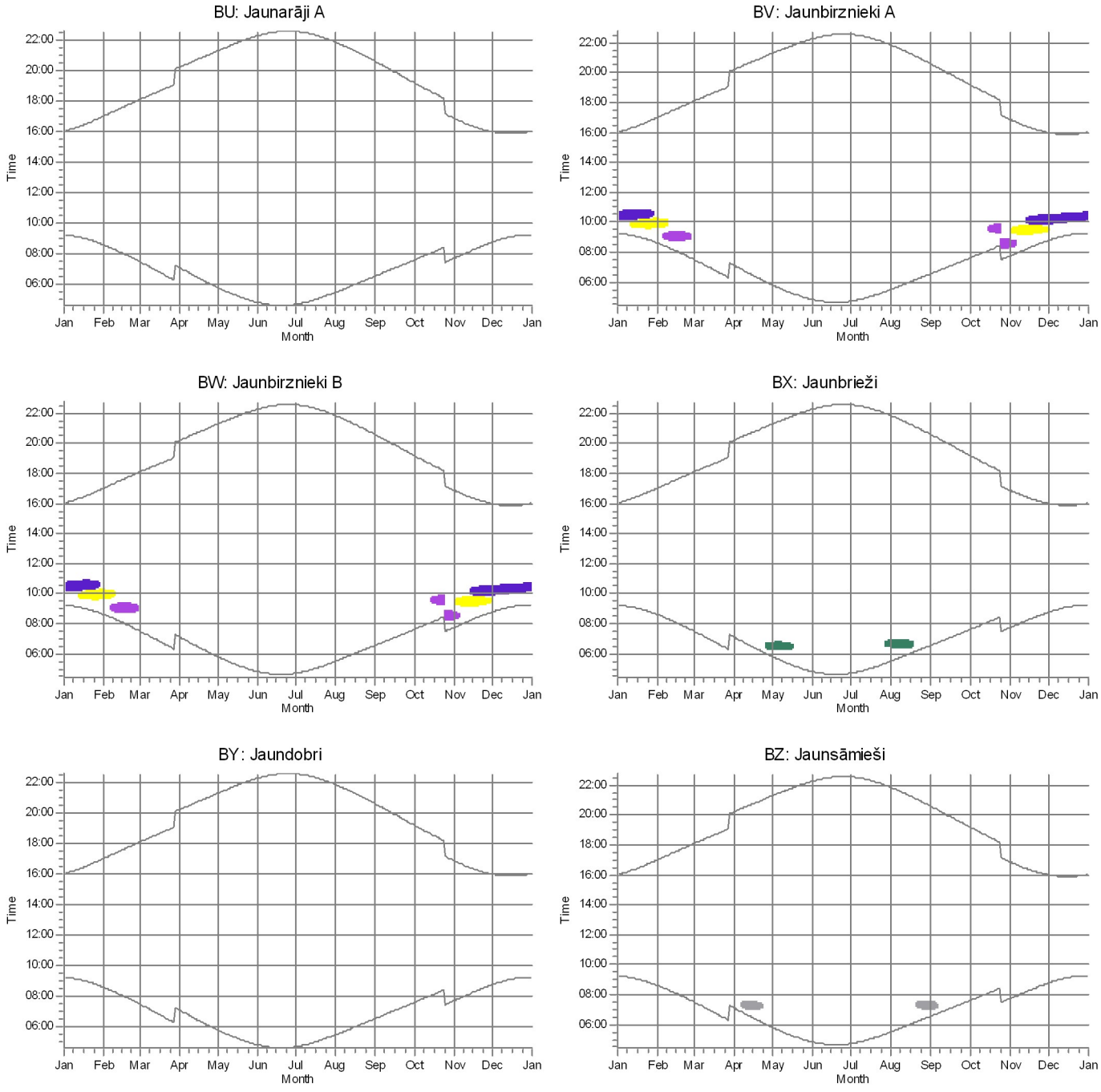


WTGs

14: V-2_19 (Ventspils-2)	17: V-2_22 (Ventspils-2)	27: V-2_37 (Ventspils-2)	30: V-2_42 (Ventspils-2)	42: T93 (Envirsus)
15: V-2_20 (Ventspils-2)	20: V-2_27 (Ventspils-2)	28: V-2_40 (Ventspils-2)	39: V-2_92 (Ventspils-2)	
16: V-2_21 (Ventspils-2)	21: V-2_30 (Ventspils-2)	29: V-2_41 (Ventspils-2)	41: T92 (Envirsus)	

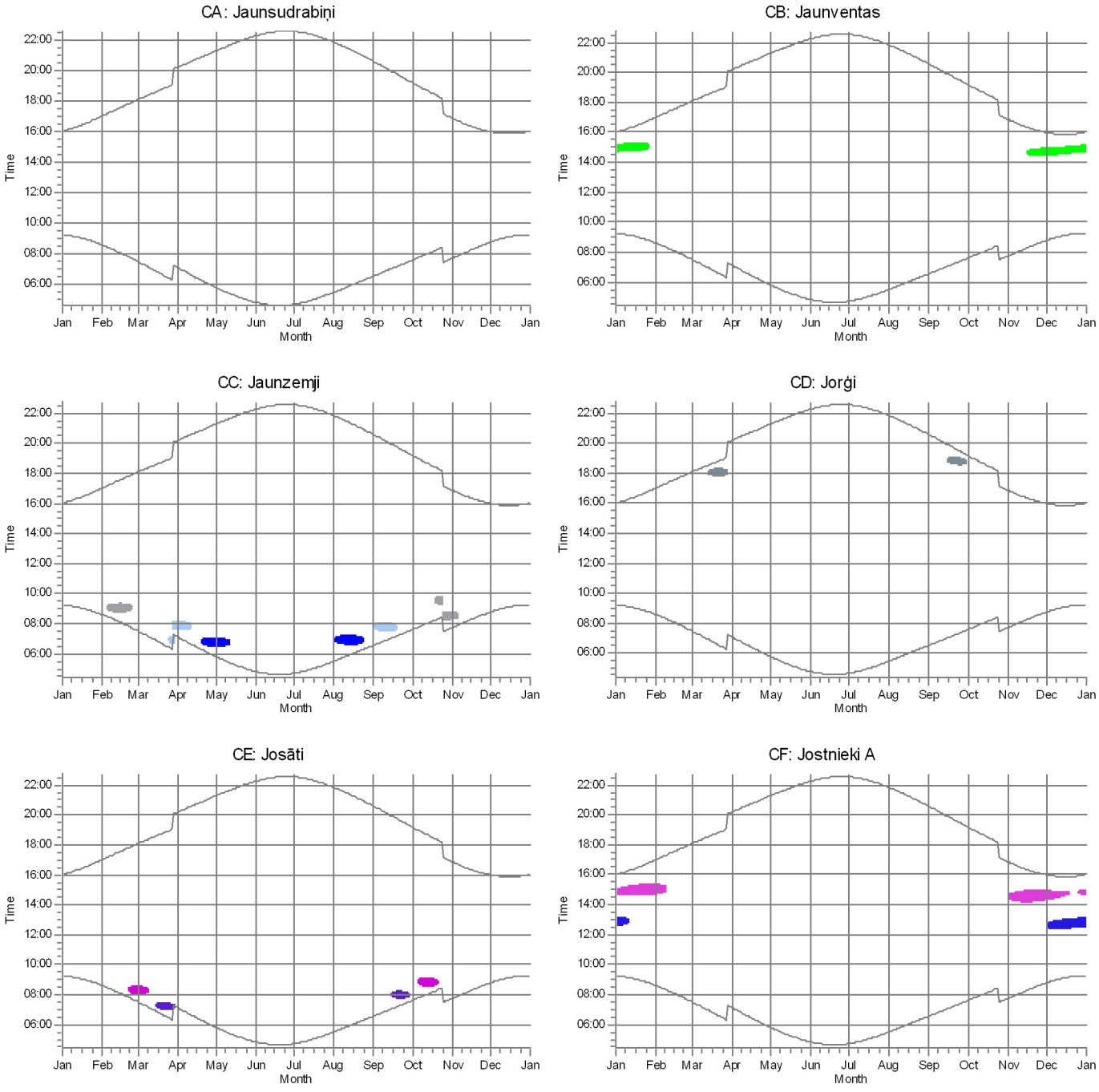
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



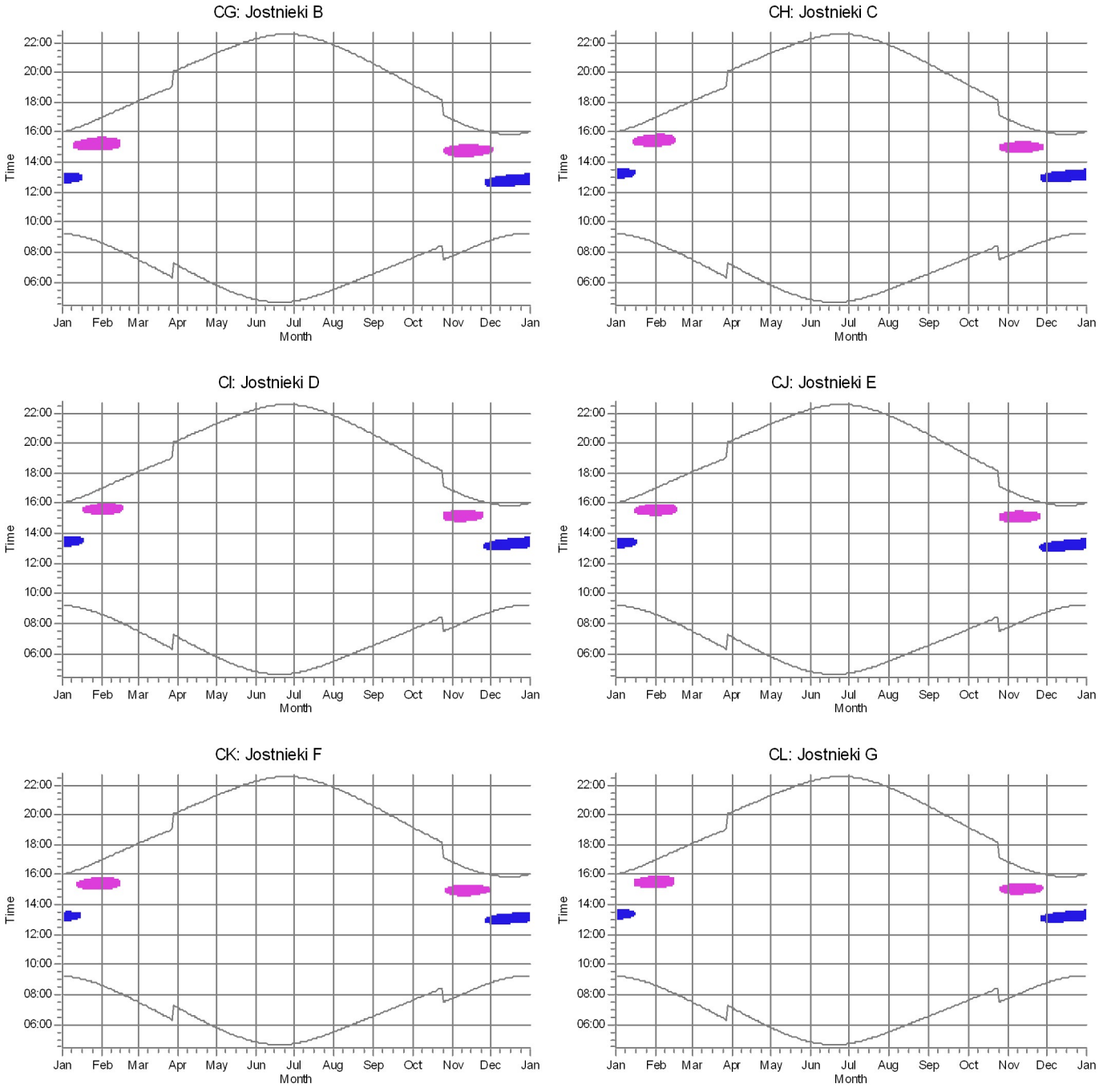
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



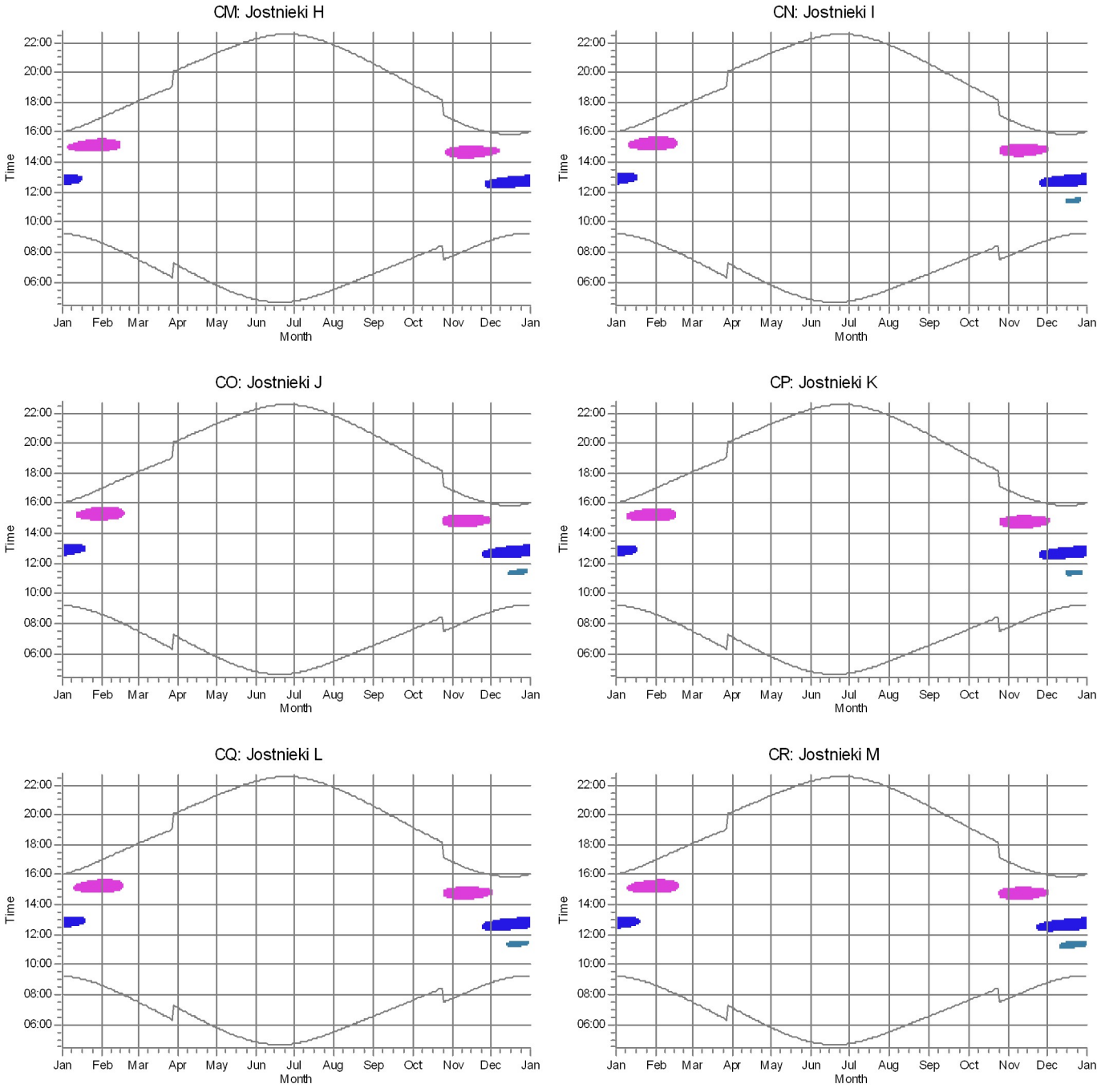
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



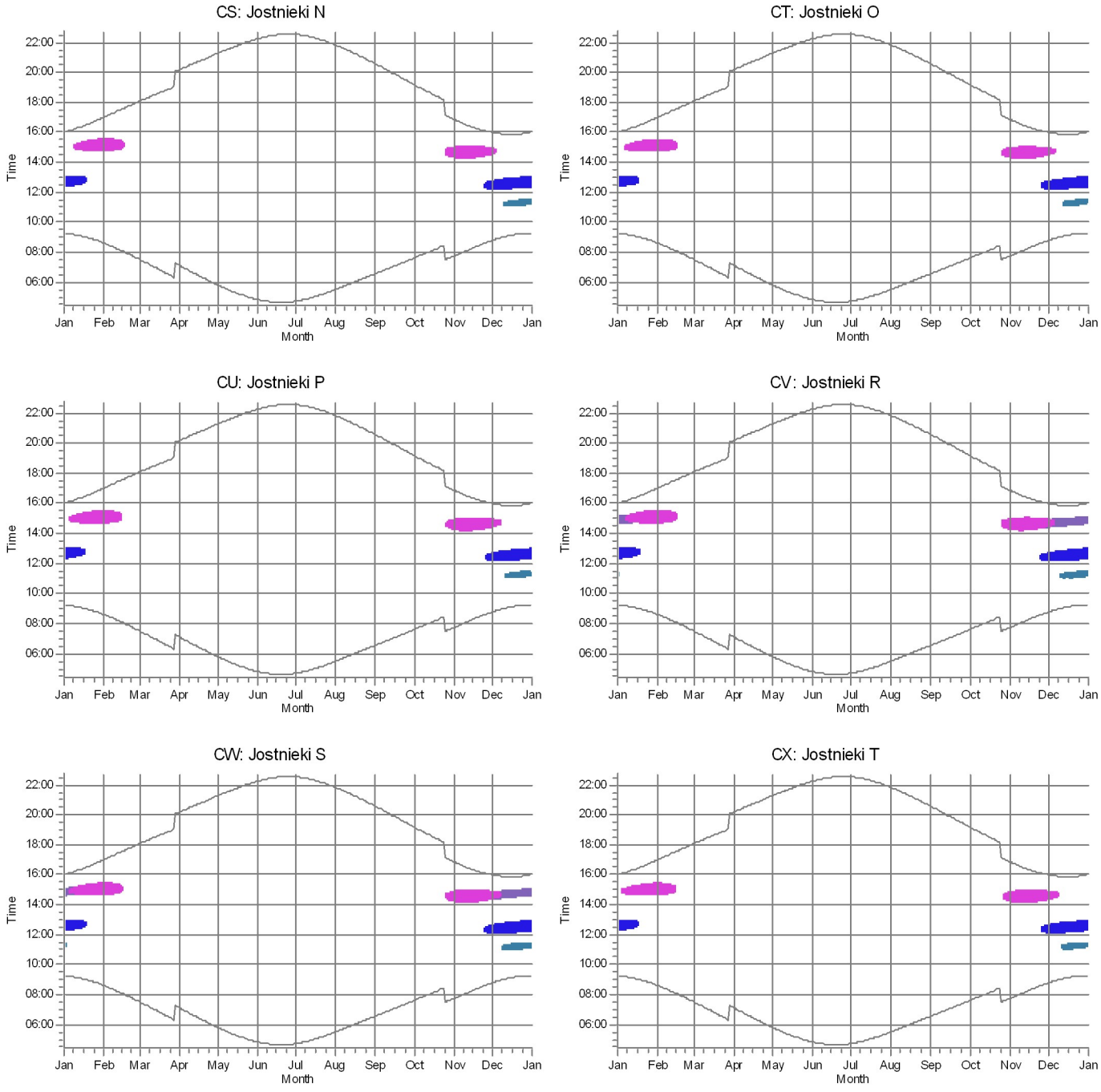
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



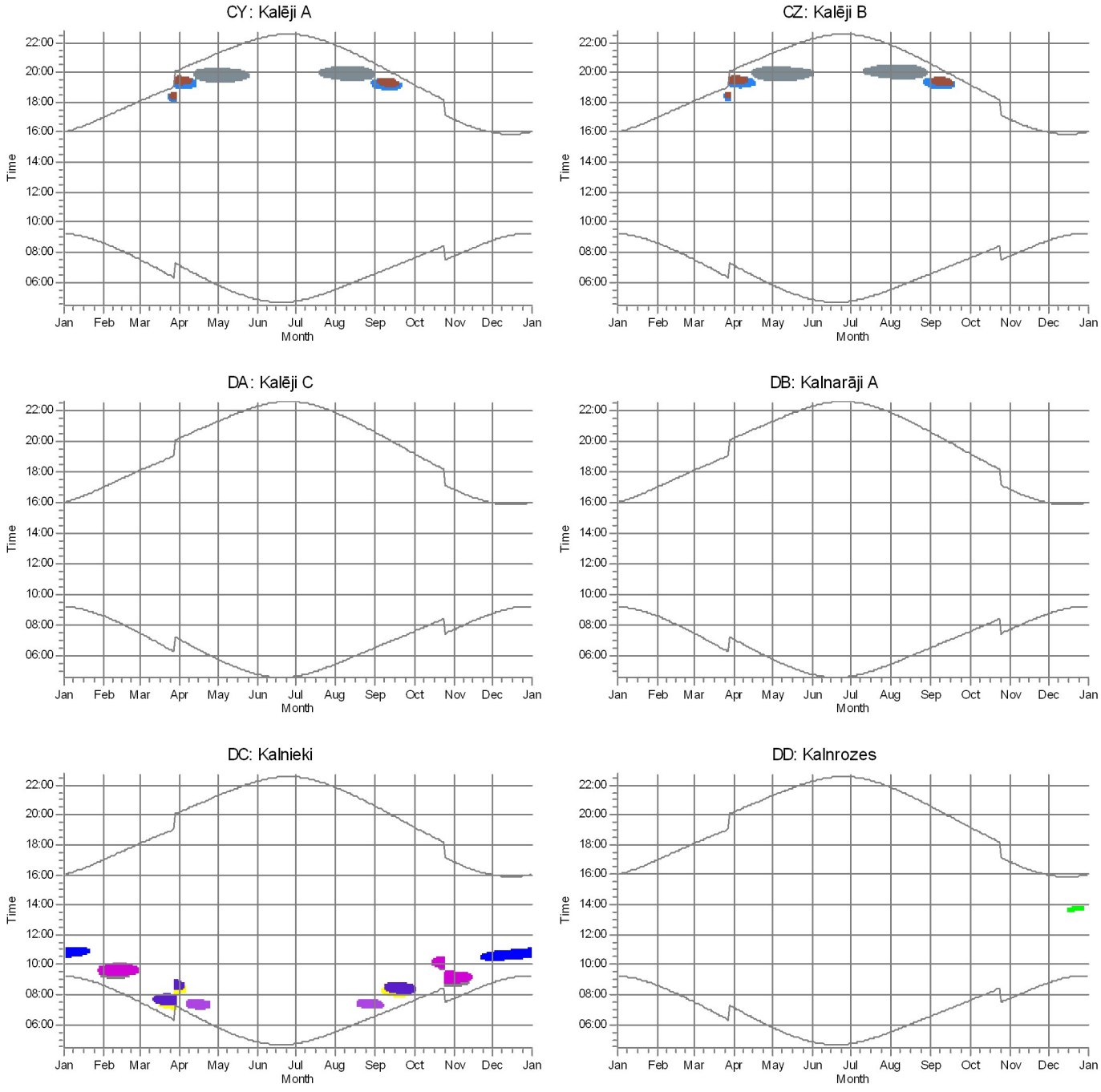
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



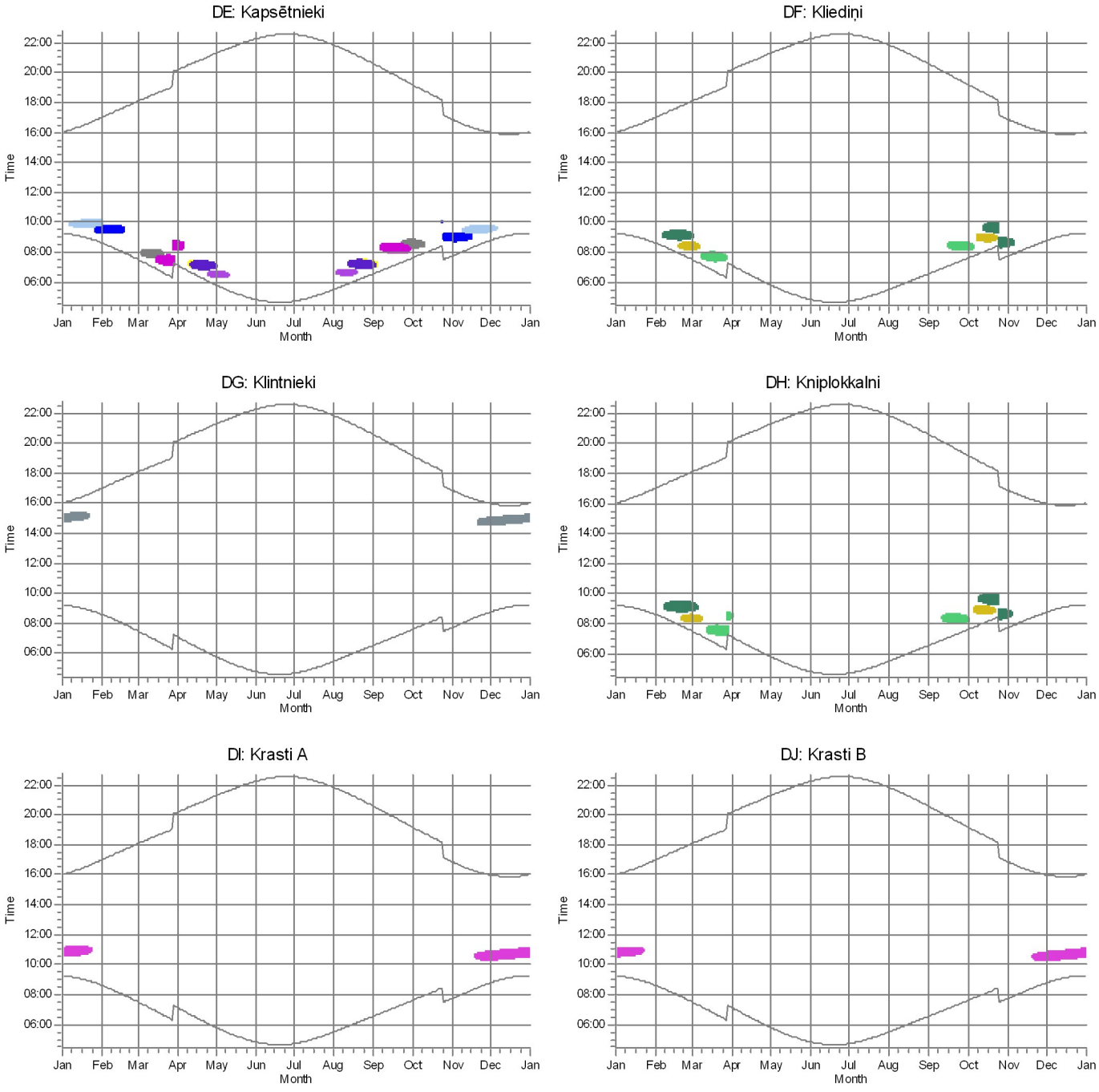
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



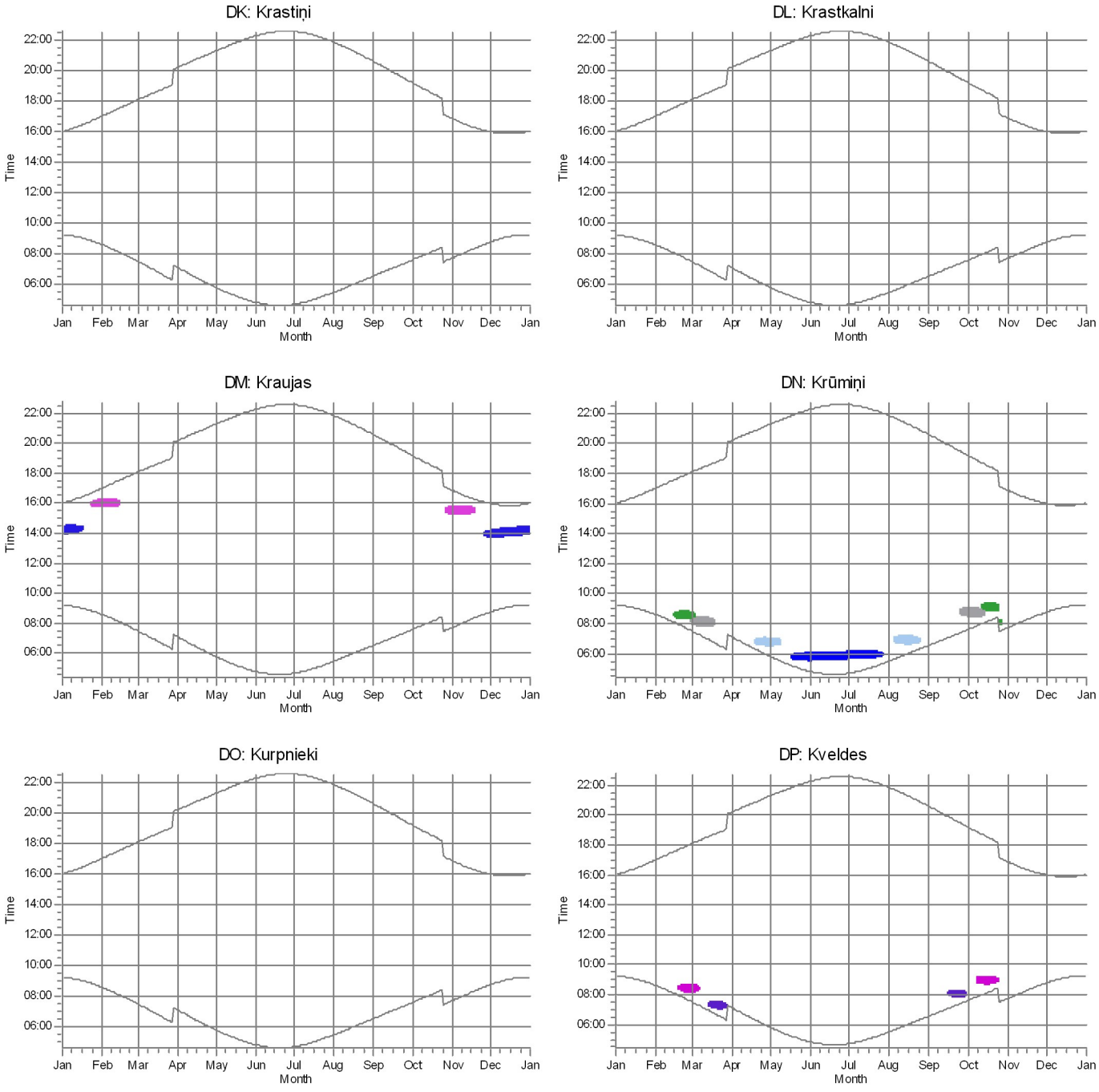
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



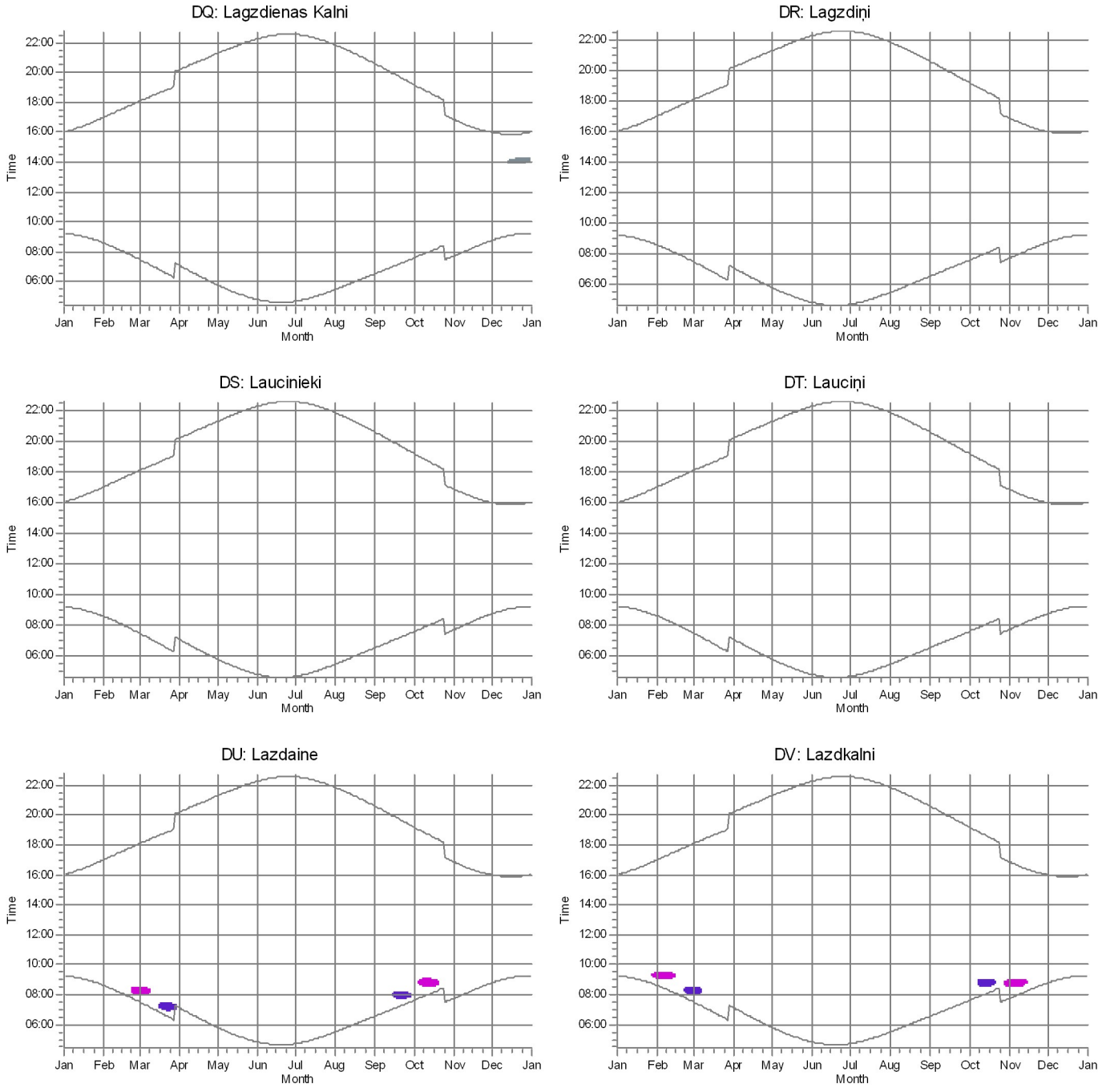
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



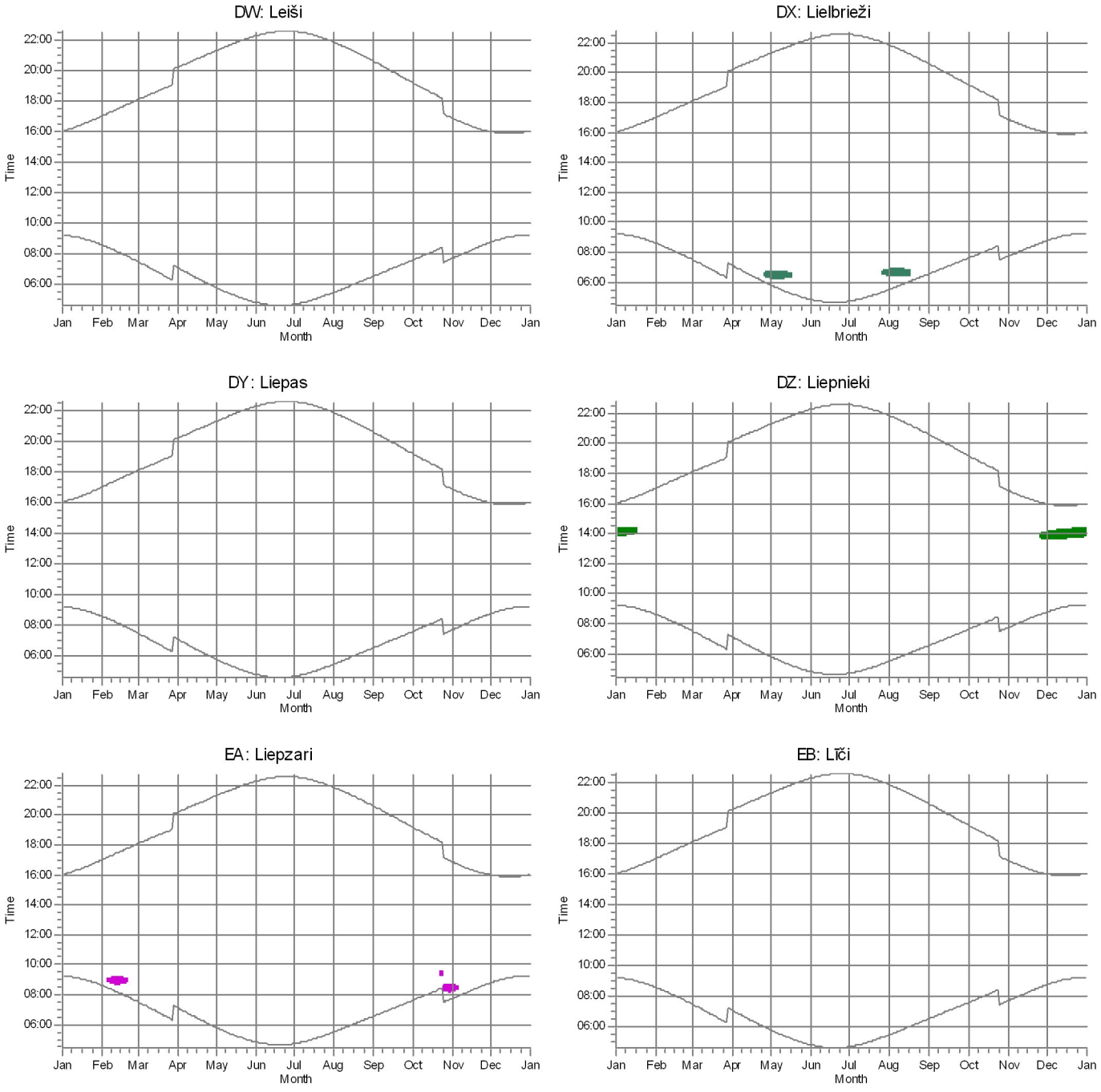
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



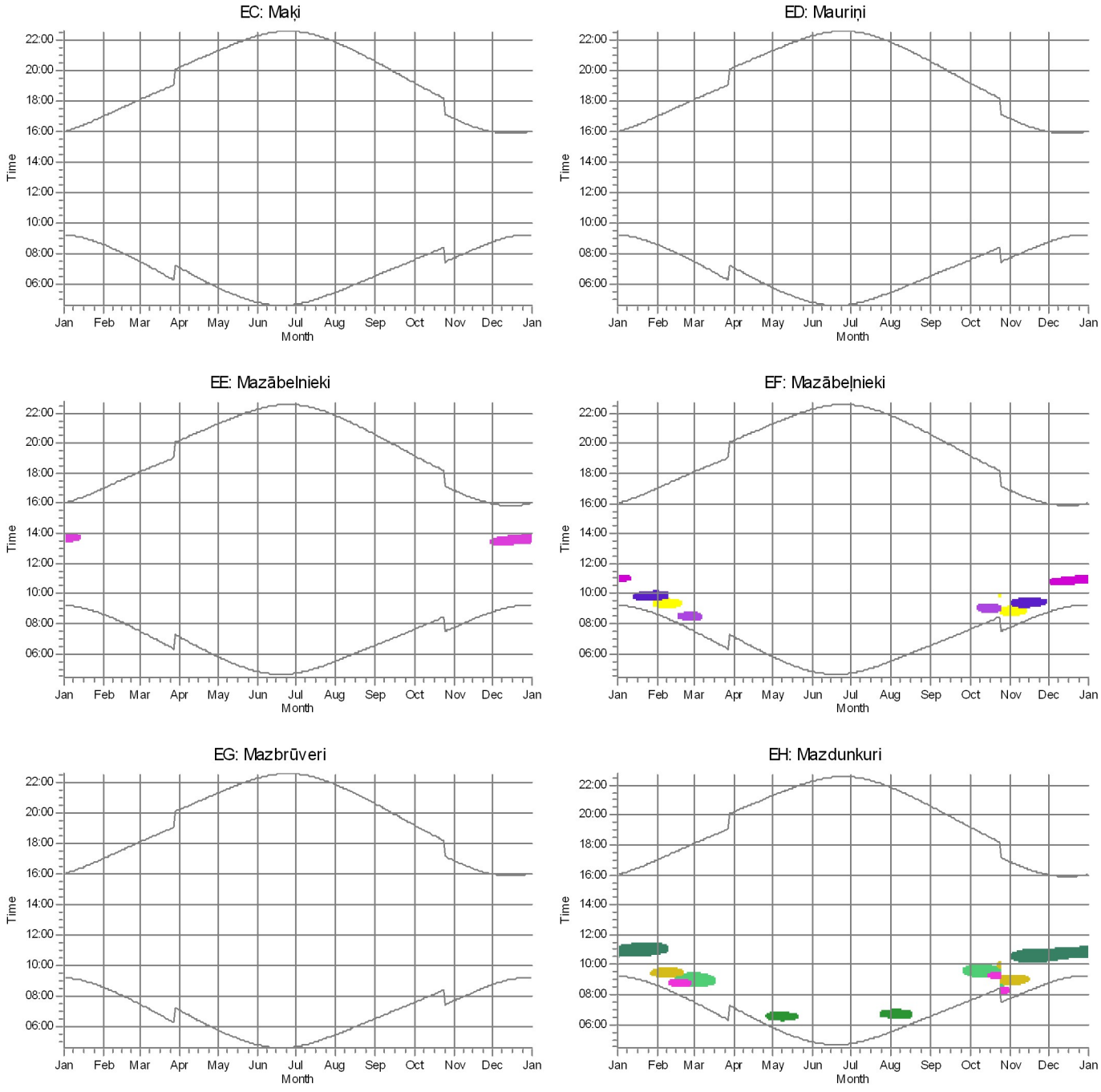
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

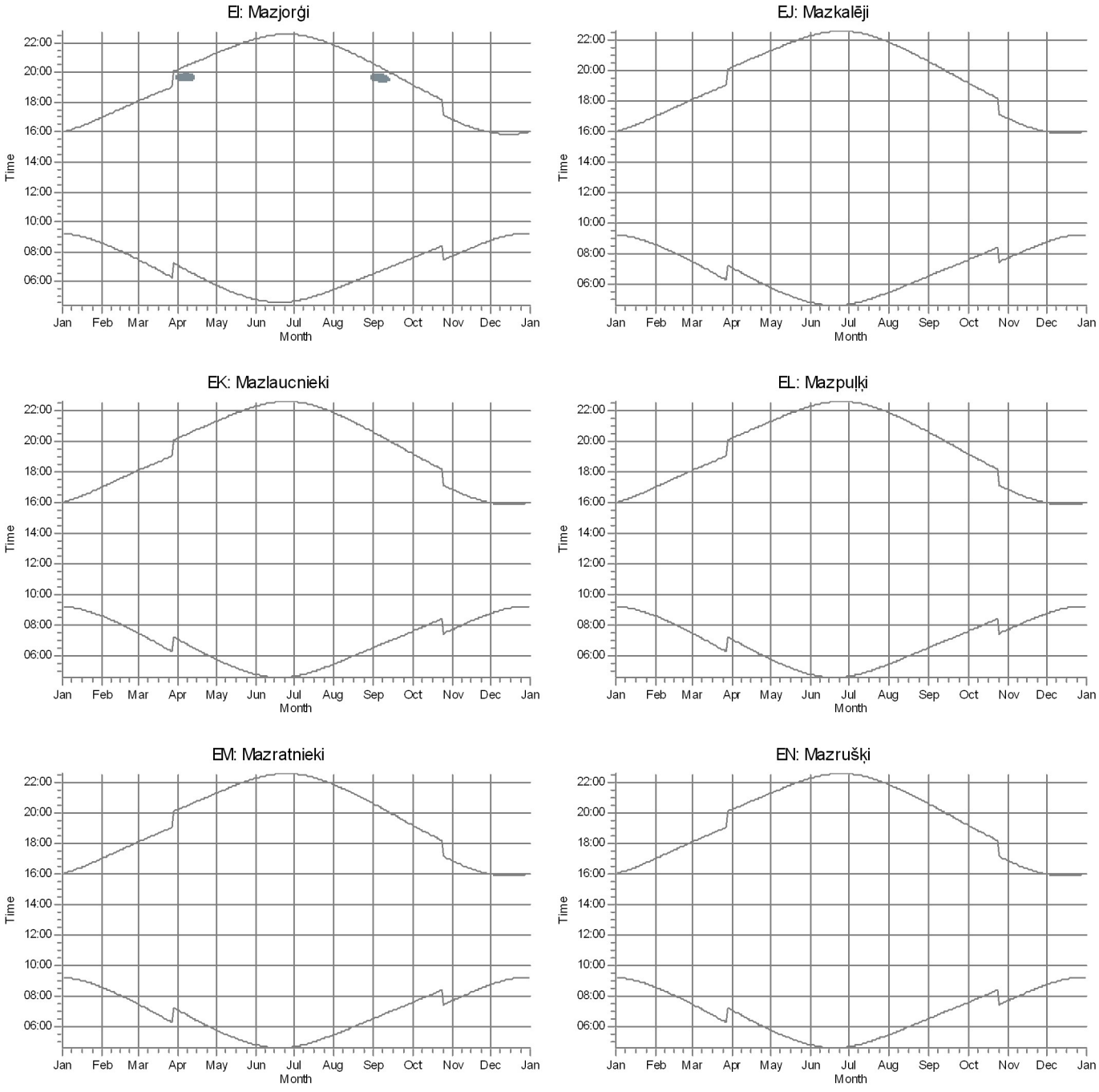


WTGs

2: V-2_3 (Ventspils-2)	28: V-2_40 (Ventspils-2)	30: V-2_42 (Ventspils-2)	35: V-2_86 (Ventspils-2)	42: T93 (Envirsus)
27: V-2_37 (Ventspils-2)	29: V-2_41 (Ventspils-2)	31: V-2_43 (Ventspils-2)	41: T92 (Envirsus)	43: T94 (Envirsus)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

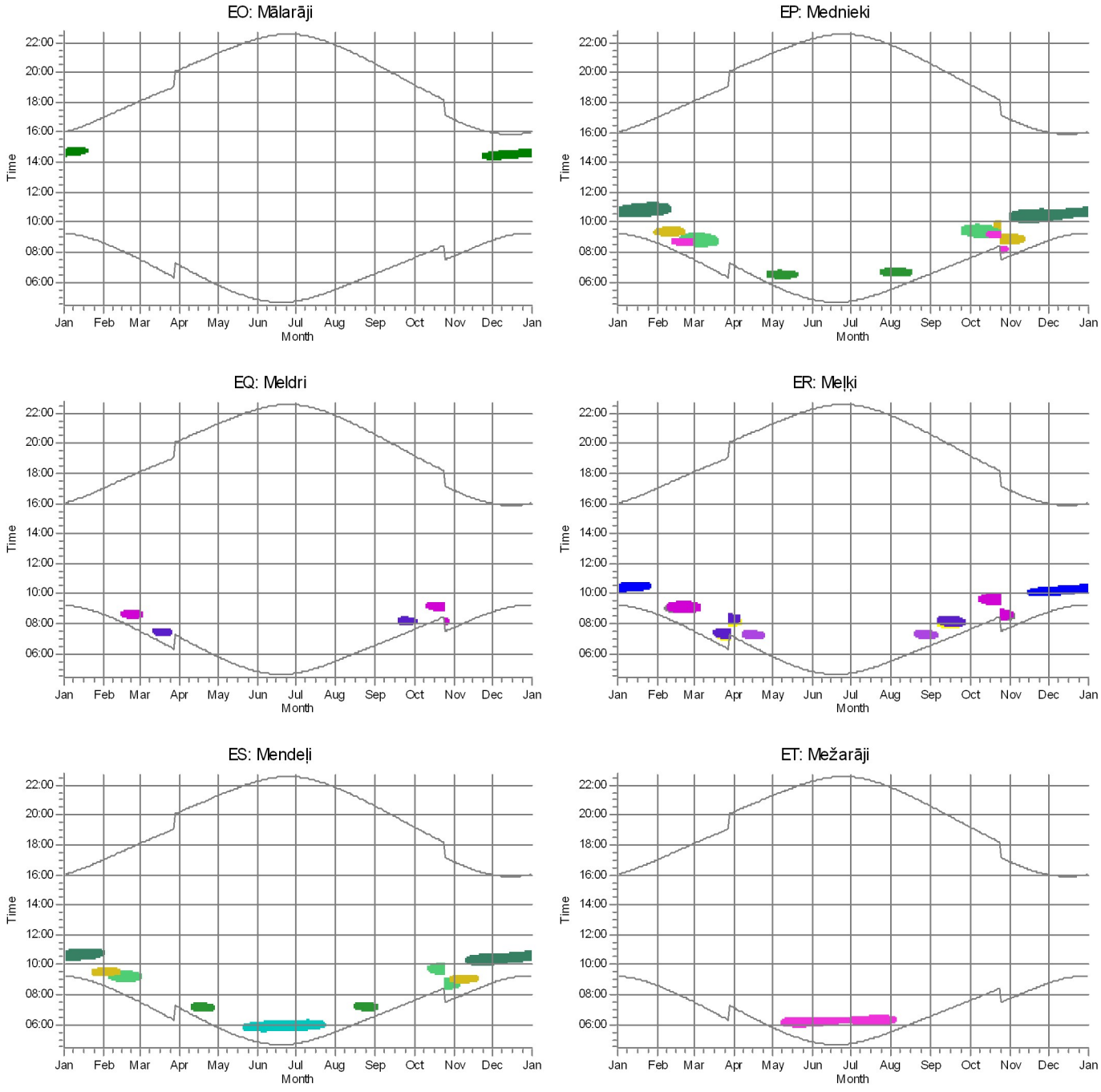


WTGs

38: V-2_91 (Ventspils-2)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



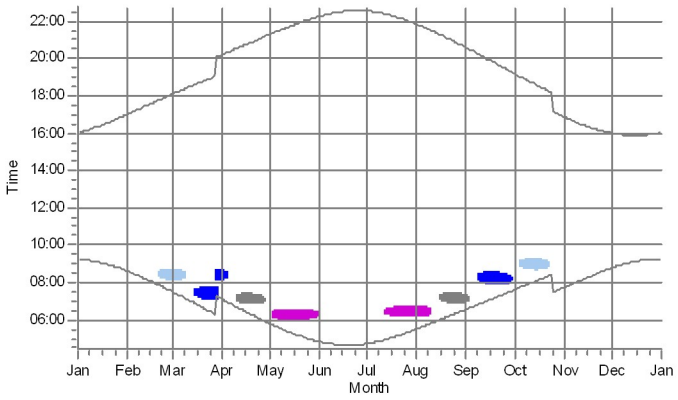
WTGs

1: V-2_1 (Ventspils-2)	4: V-2_7 (Ventspils-2)	28: V-2_40 (Ventspils-2)	31: V-2_43 (Ventspils-2)	43: T94 (Envirsus)
2: V-2_3 (Ventspils-2)	21: V-2_30 (Ventspils-2)	29: V-2_41 (Ventspils-2)	41: T92 (Envirsus)	
3: V-2_6 (Ventspils-2)	27: V-2_37 (Ventspils-2)	30: V-2_42 (Ventspils-2)	42: T93 (Envirsus)	

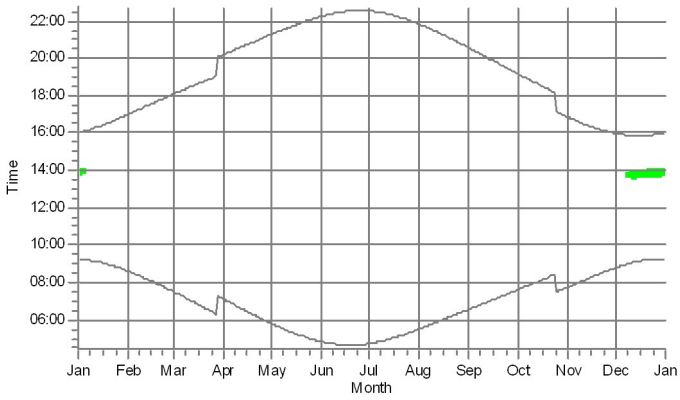
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

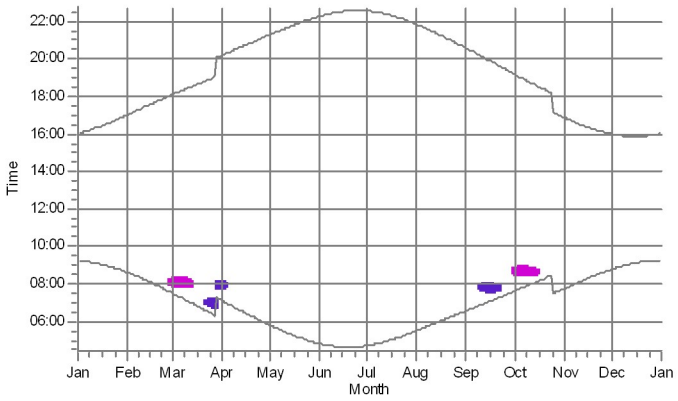
EU: Mežgaļi



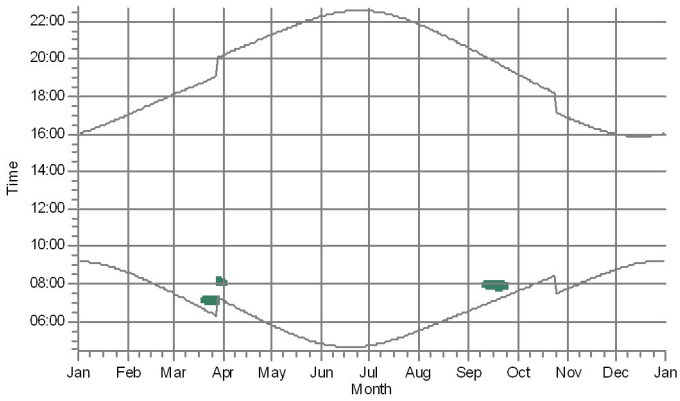
EV: Mežrozes



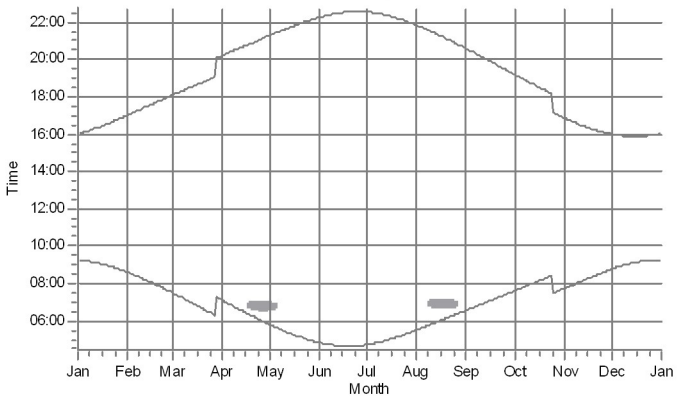
EW: Mētras



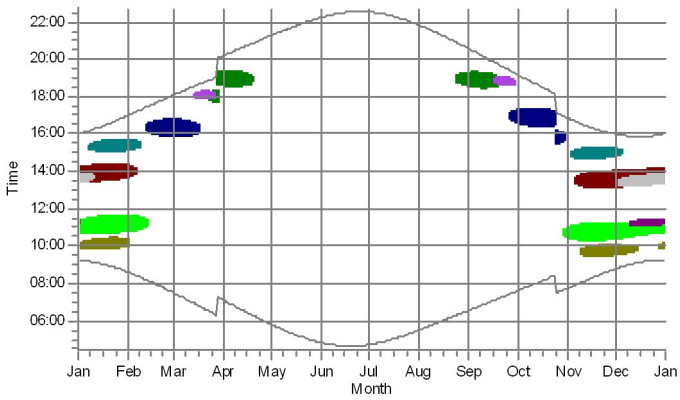
EX: Mucenieki



EY: Muižarāji



EZ: Nikas

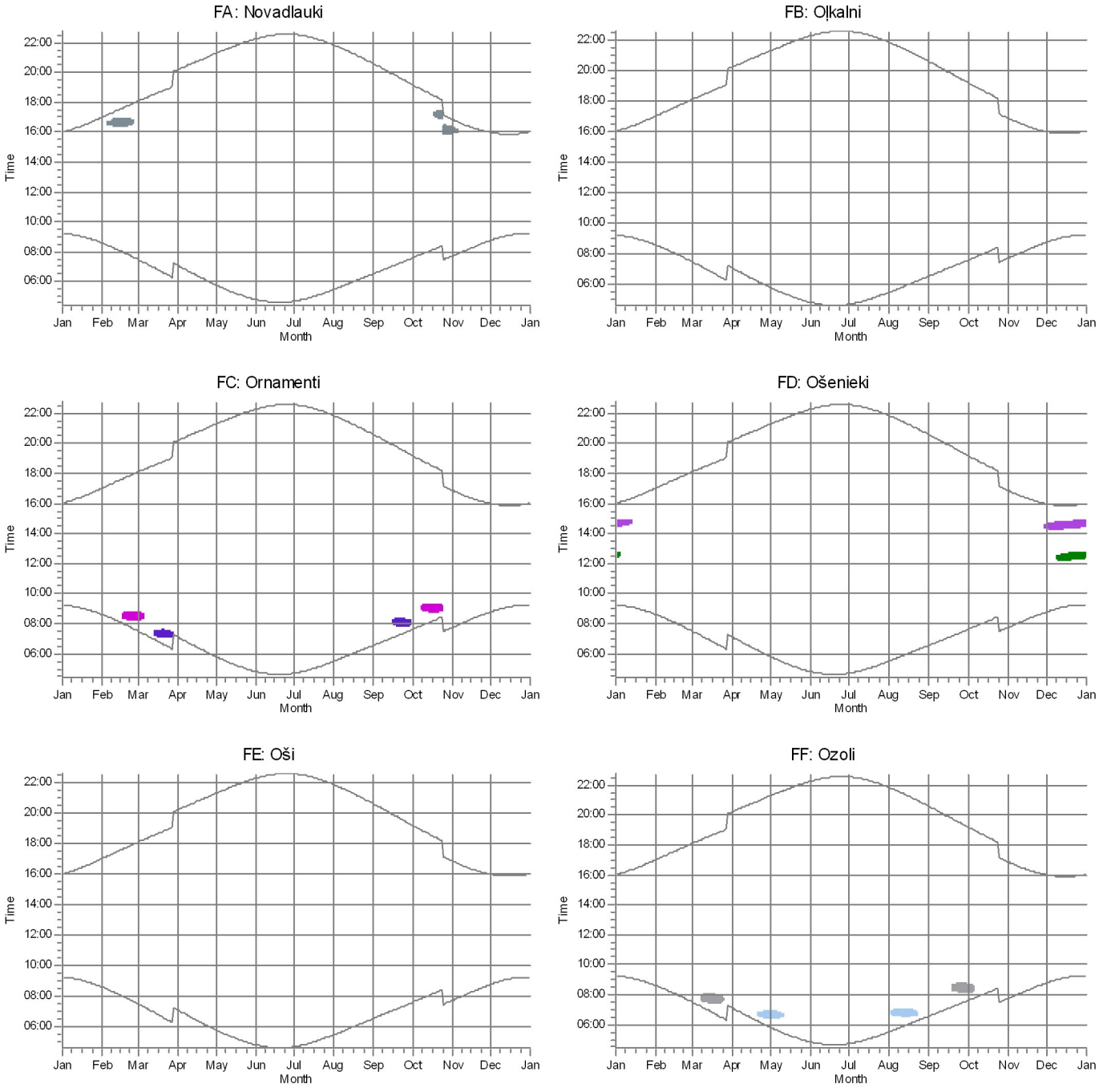


WTGs

1: V-2_1 (Ventspils-2)	7: V-2_10 (Ventspils-2)	11: V-2_14 (Ventspils-2)	29: V-2_41 (Ventspils-2)
3: V-2_6 (Ventspils-2)	8: V-2_11 (Ventspils-2)	12: V-2_15 (Ventspils-2)	41: T92 (Envirsus)
4: V-2_7 (Ventspils-2)	9: V-2_12 (Ventspils-2)	15: V-2_20 (Ventspils-2)	42: T93 (Envirsus)
6: V-2_9 (Ventspils-2)	10: V-2_13 (Ventspils-2)	16: V-2_21 (Ventspils-2)	43: T94 (Envirsus)

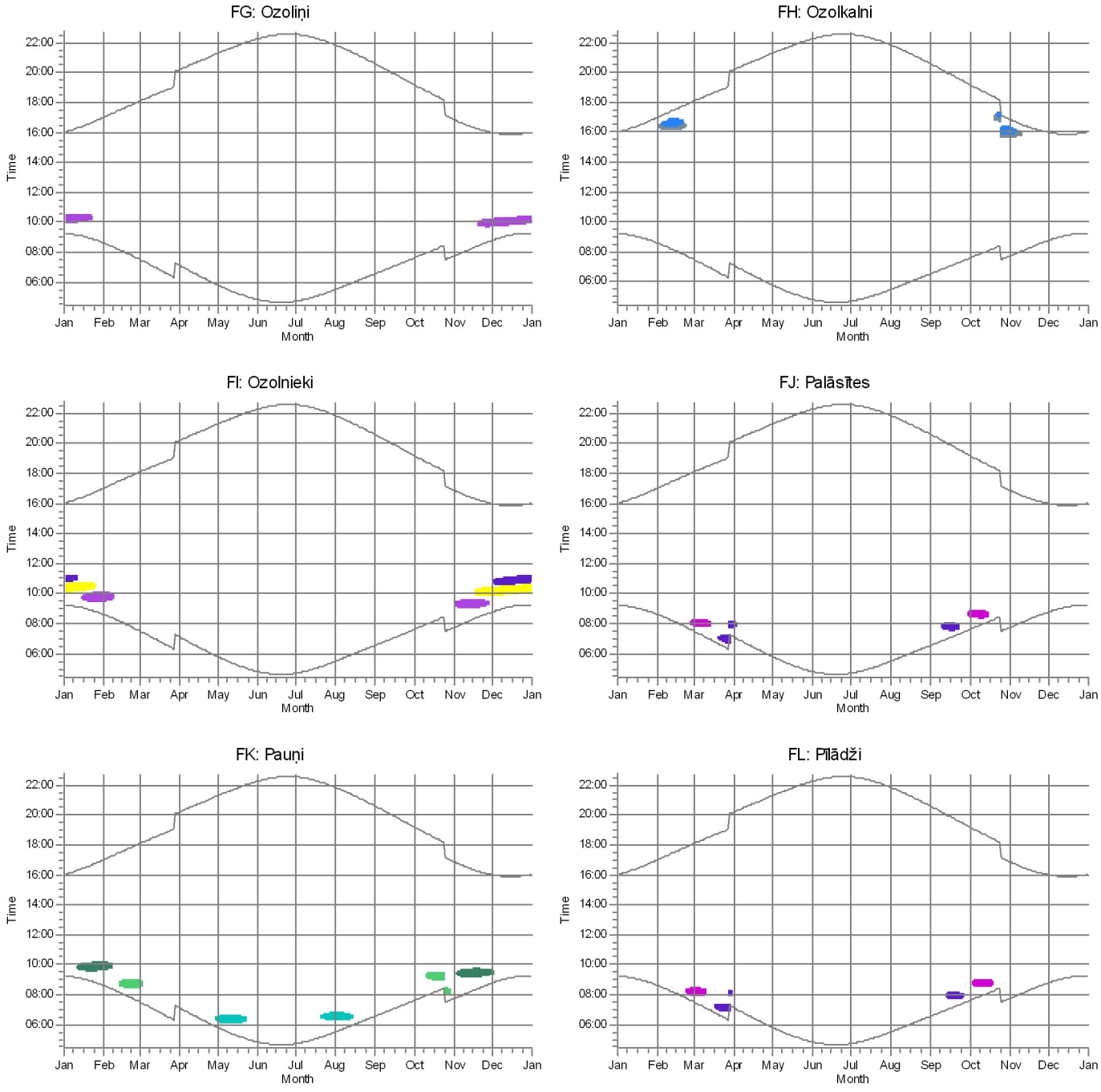
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

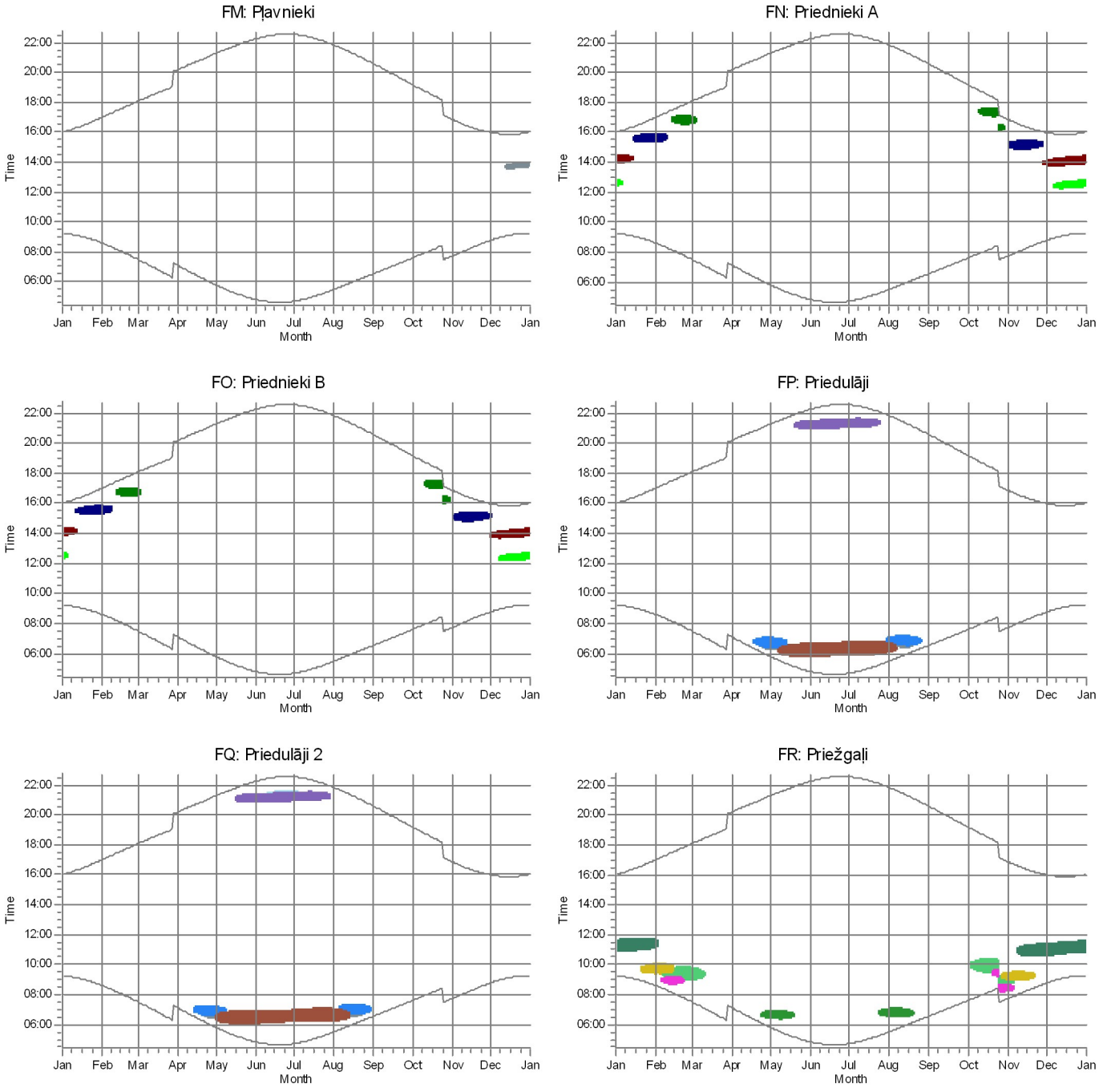


WTGs

- 2: V-2_3 (Ventspils-2)
- 21: V-2_30 (Ventspils-2)
- 28: V-2_40 (Ventspils-2)
- 29: V-2_41 (Ventspils-2)
- 38: V-2_91 (Ventspils-2)
- 39: V-2_92 (Ventspils-2)
- 41: T92 (Envirsus)
- 42: T93 (Envirsus)
- 43: T94 (Envirsus)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

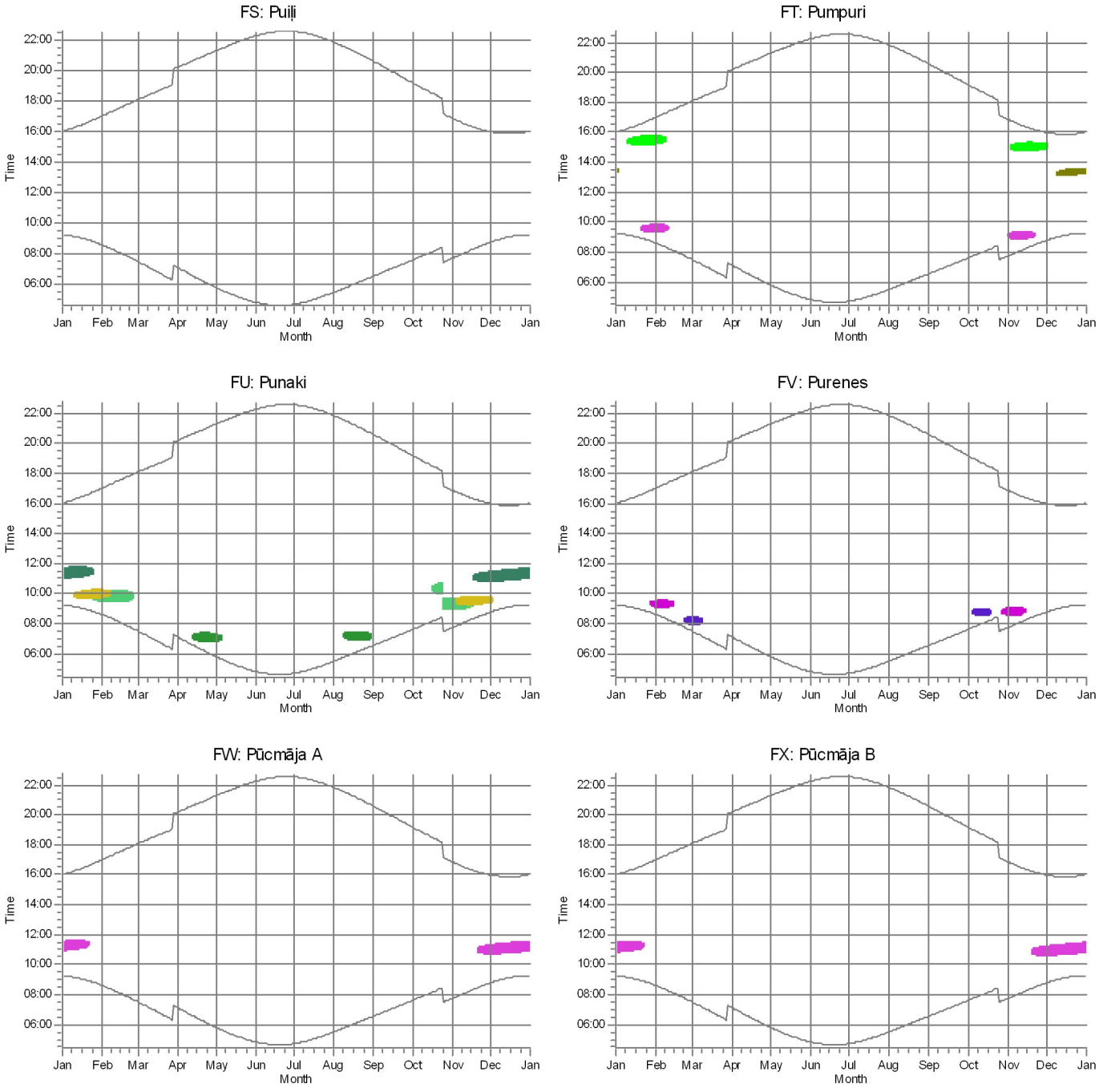


WTGs

1: V-2_1 (Ventspils-2)	9: V-2_12 (Ventspils-2)	29: V-2_41 (Ventspils-2)	33: V-2_84 (Ventspils-2)	39: V-2_92 (Ventspils-2)
7: V-2_10 (Ventspils-2)	27: V-2_37 (Ventspils-2)	30: V-2_42 (Ventspils-2)	34: V-2_85 (Ventspils-2)	40: V-2_93 (Ventspils-2)
8: V-2_11 (Ventspils-2)	28: V-2_40 (Ventspils-2)	31: V-2_43 (Ventspils-2)	38: V-2_91 (Ventspils-2)	

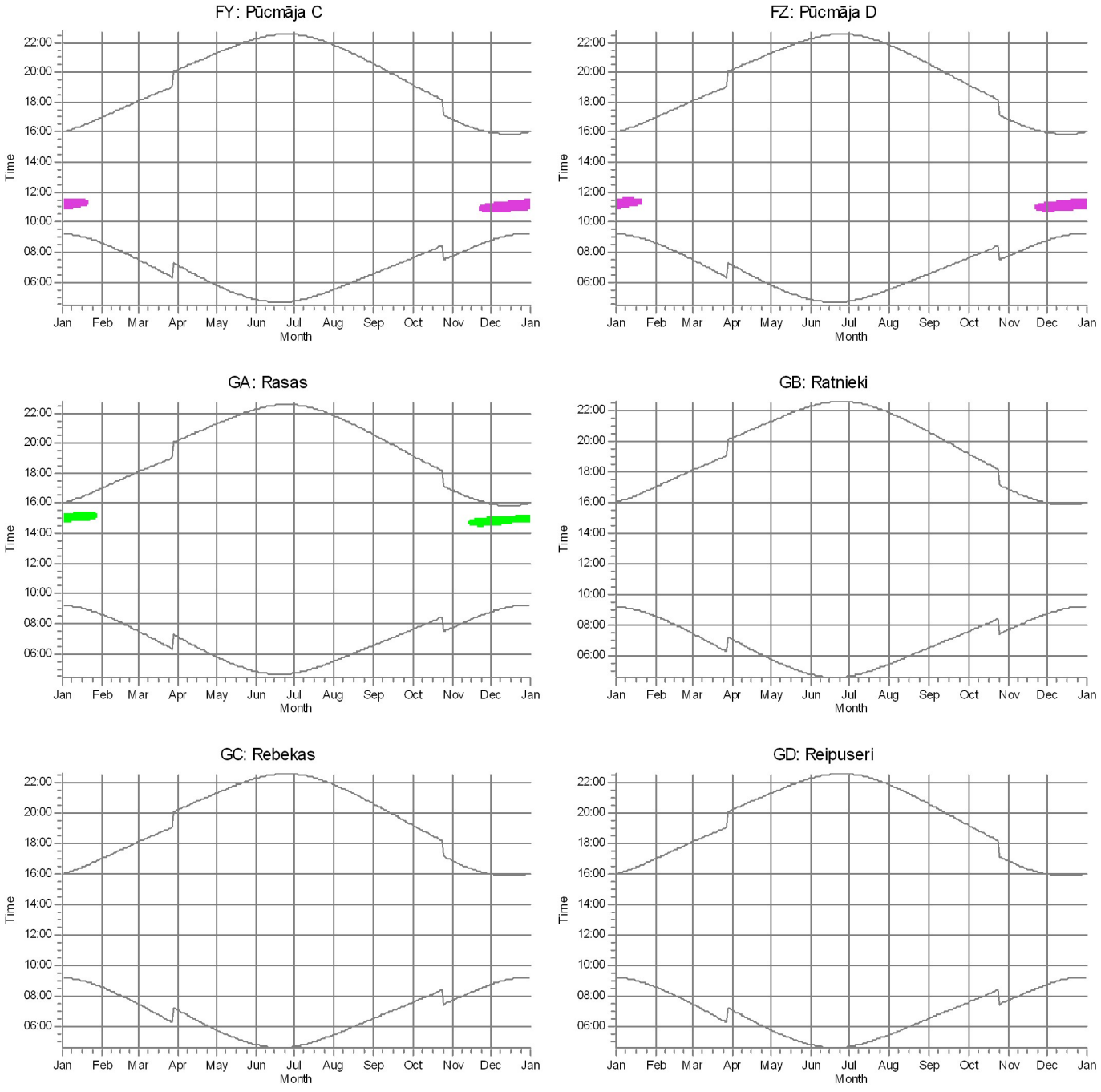
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



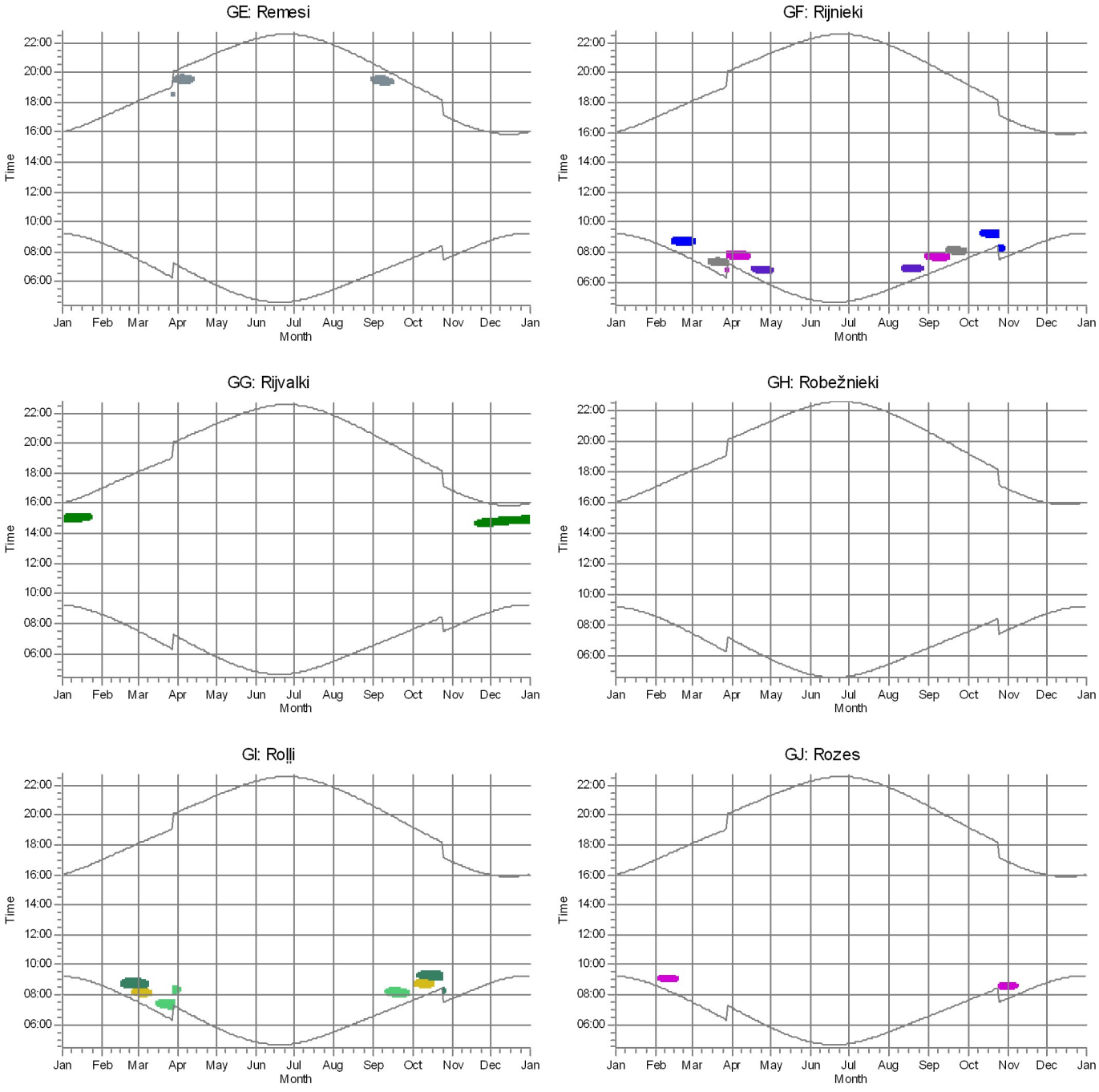
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



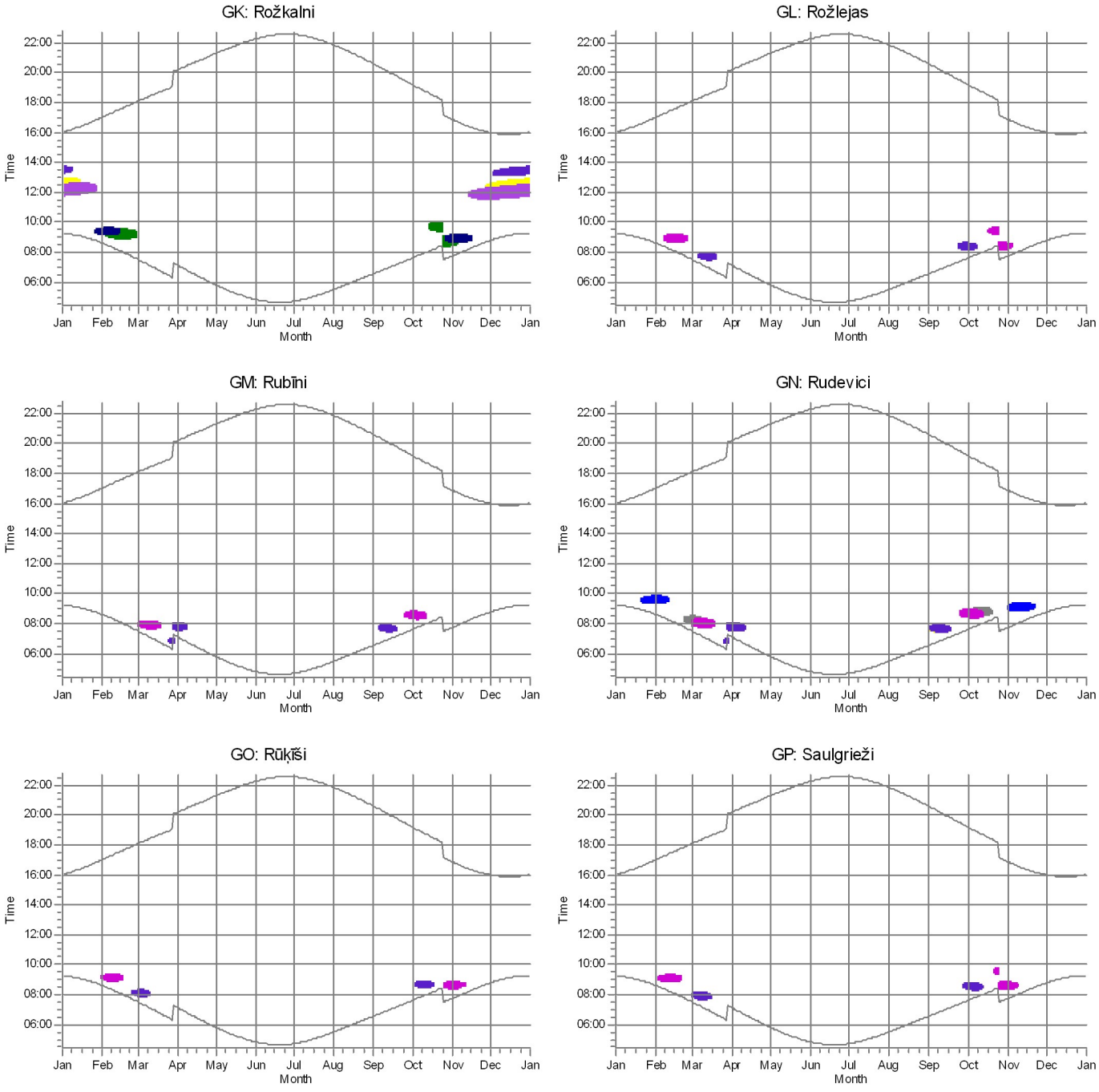
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



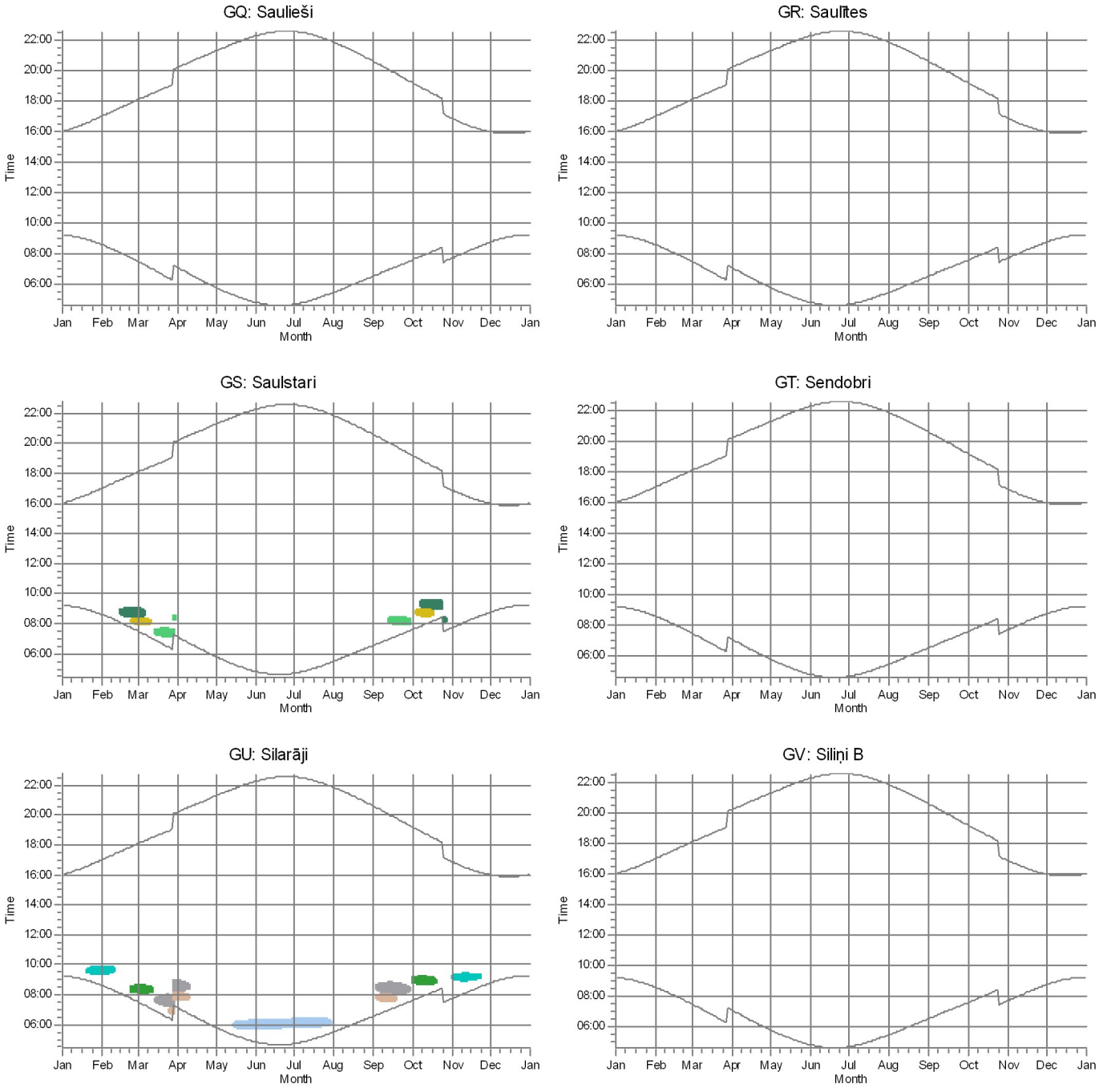
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

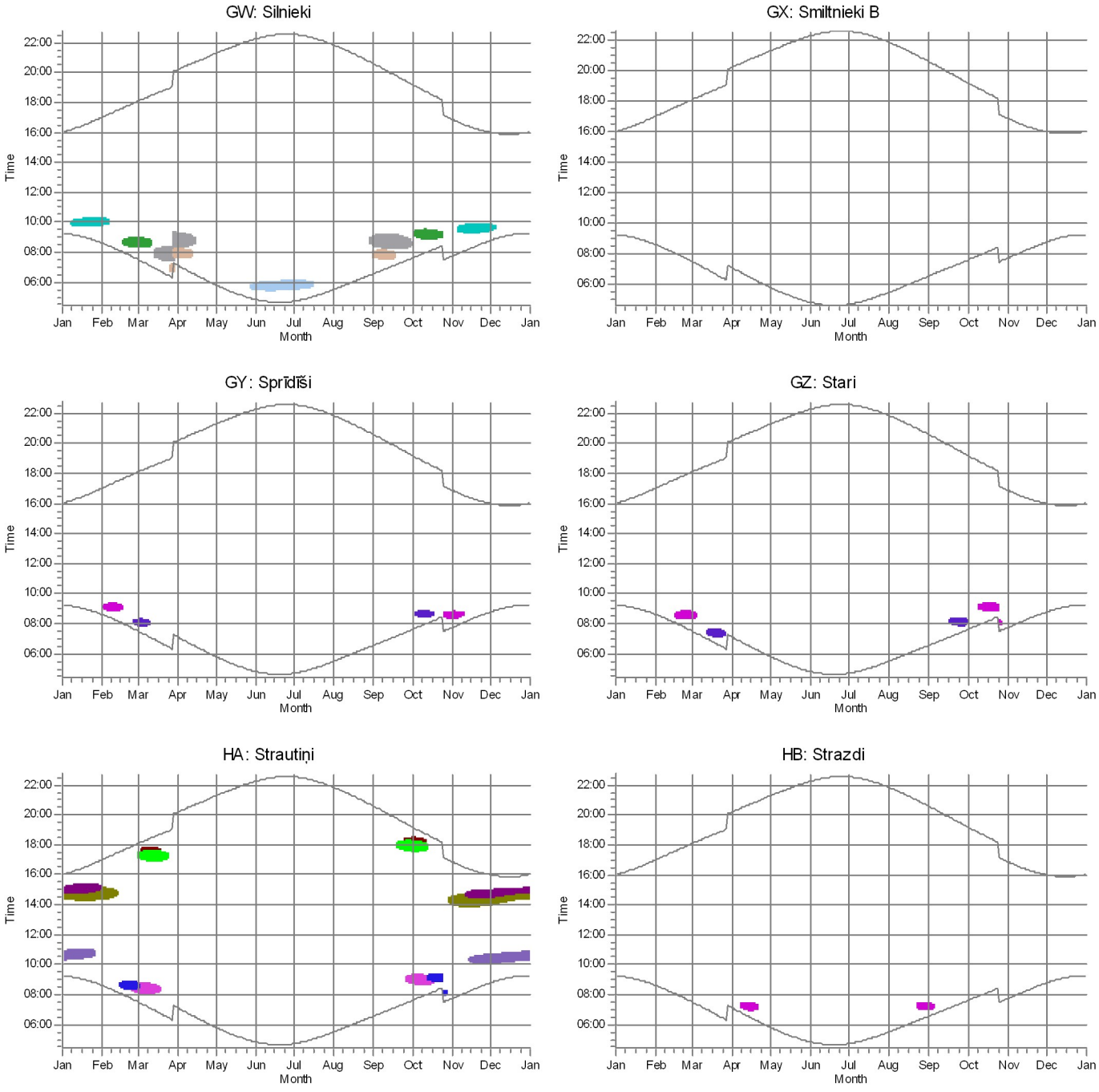


WTGs

15: V-2_20 (Ventspils-2)
16: V-2_21 (Ventspils-2)
17: V-2_22 (Ventspils-2)
20: V-2_27 (Ventspils-2)
21: V-2_30 (Ventspils-2)
28: V-2_40 (Ventspils-2)
29: V-2_41 (Ventspils-2)
30: V-2_42 (Ventspils-2)

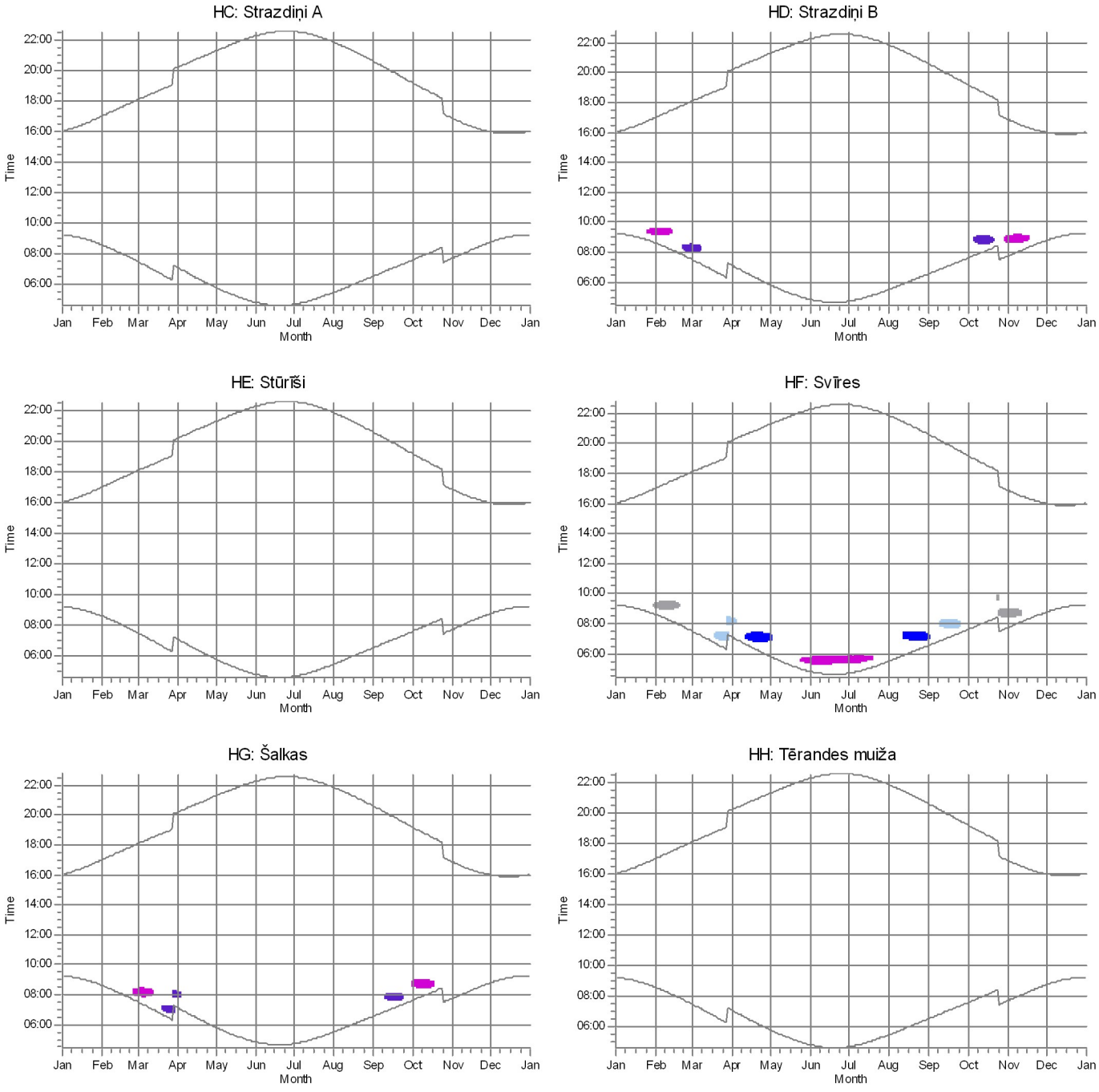
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



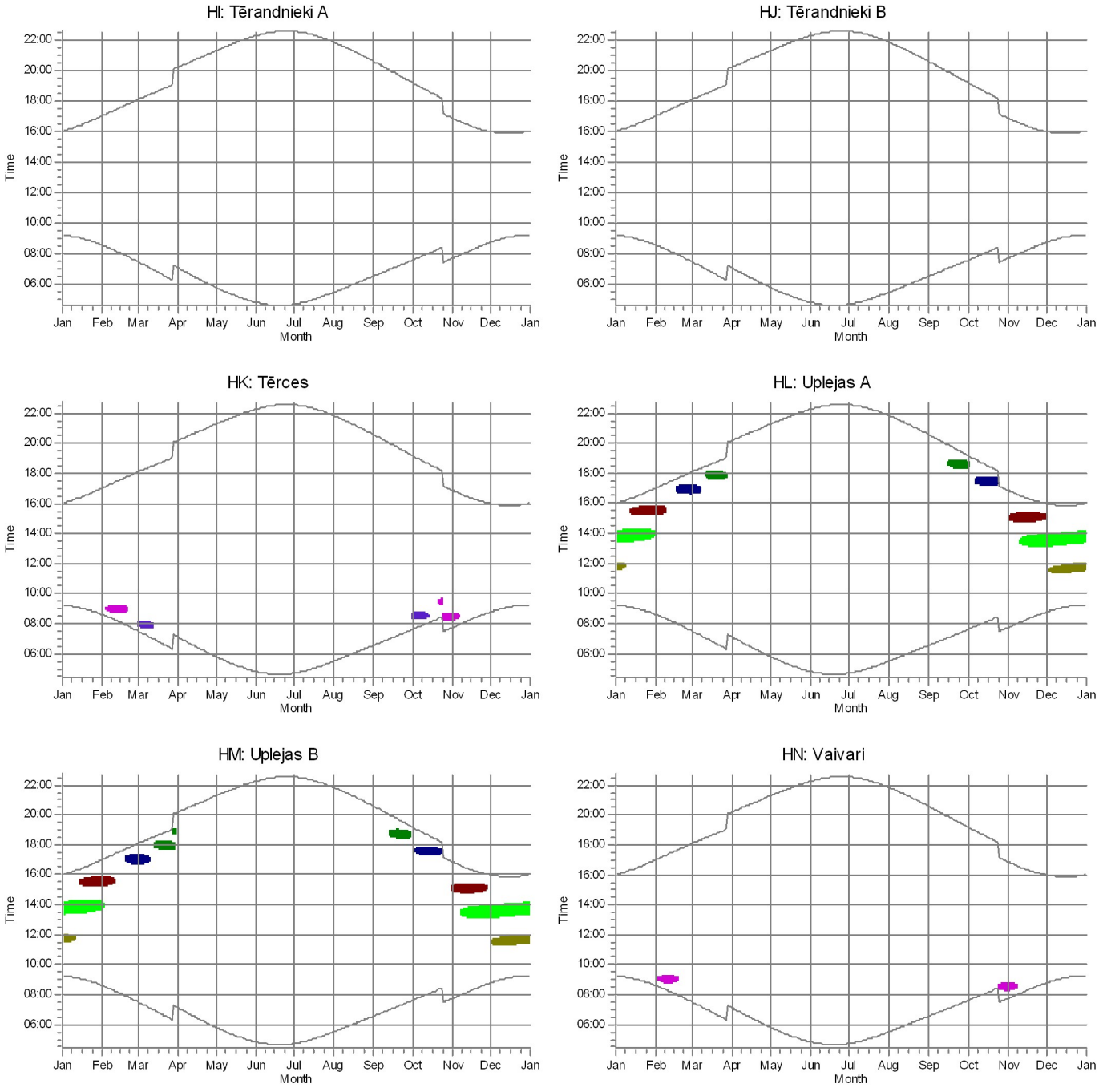
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



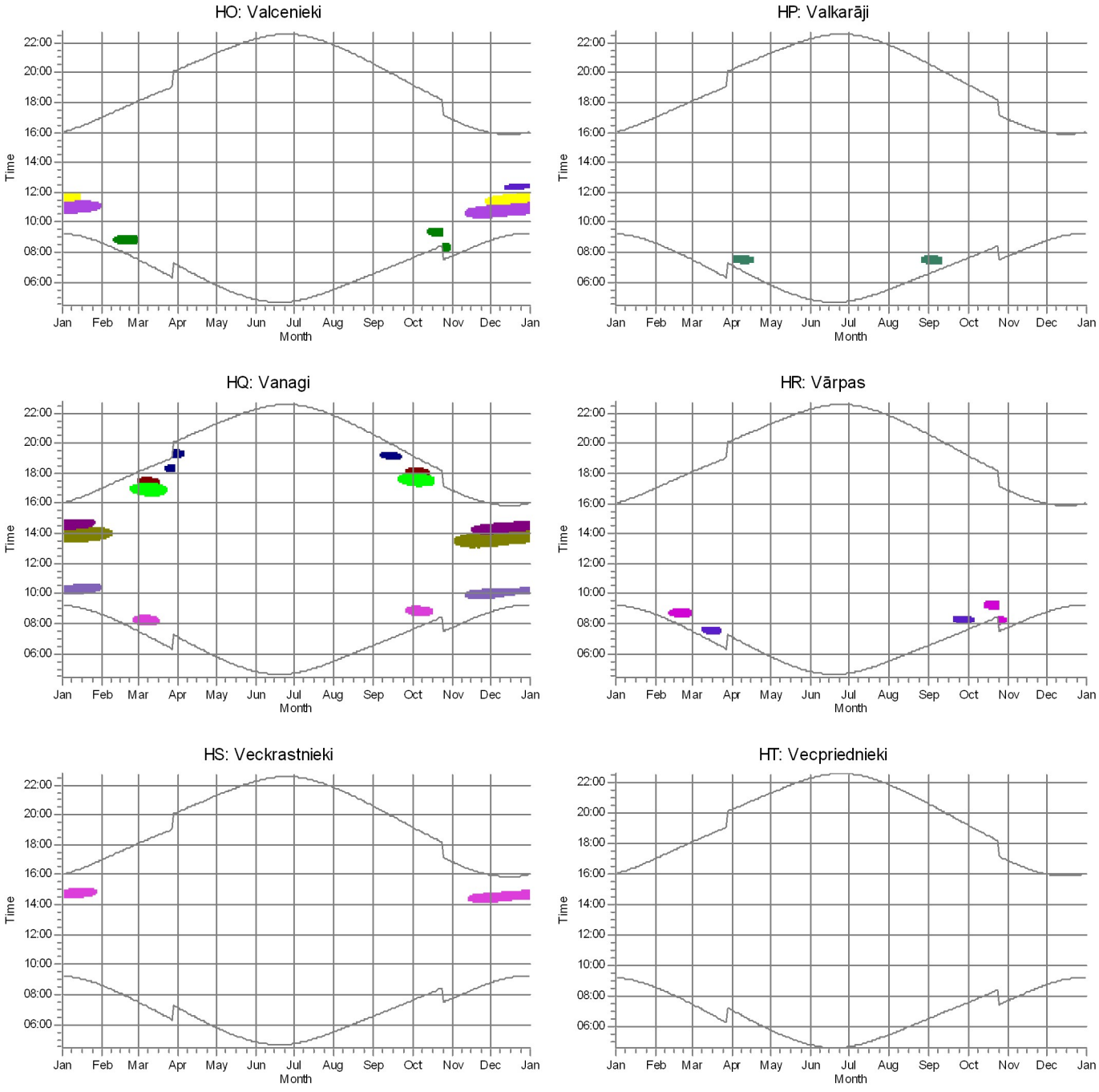
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



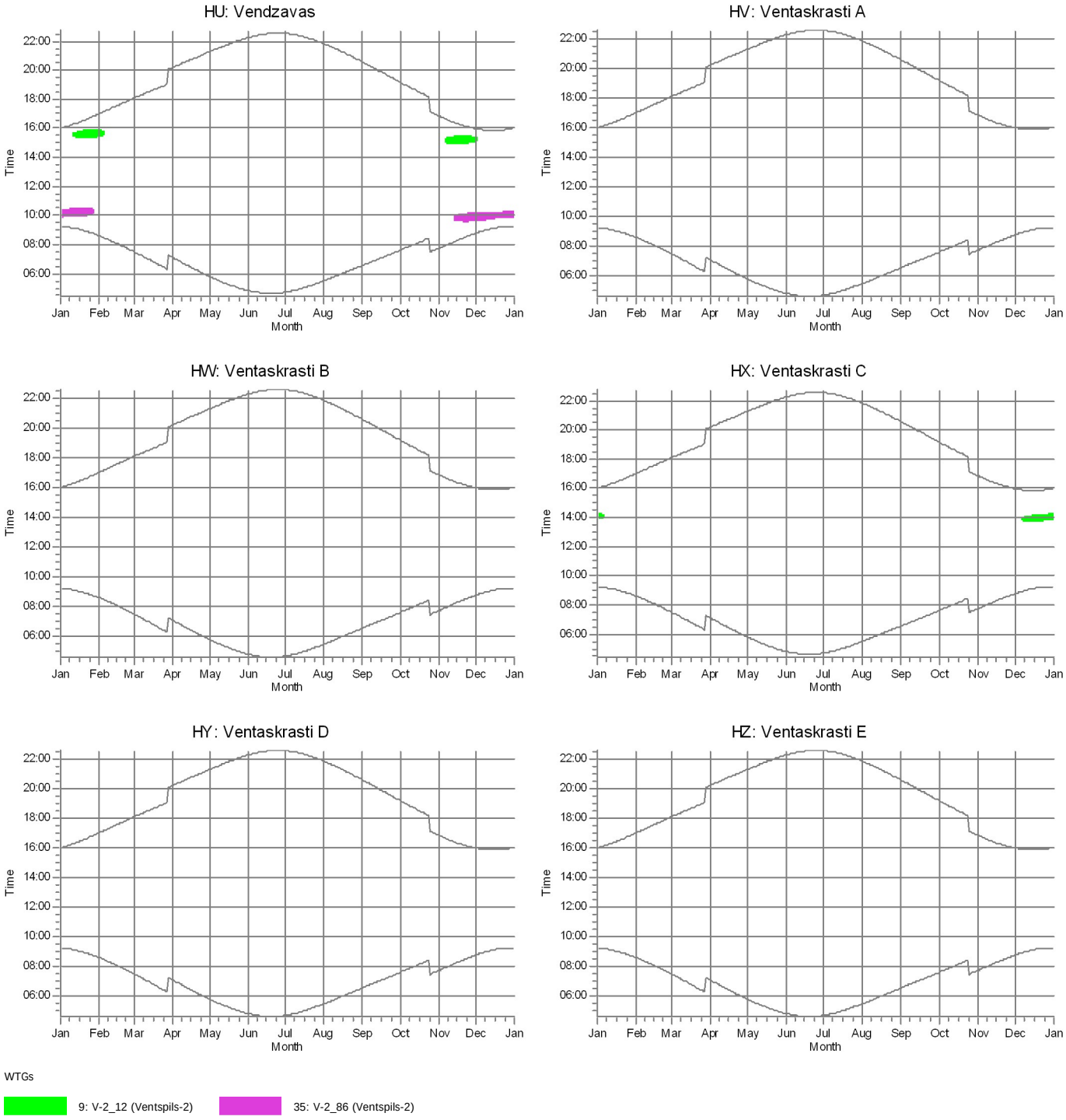
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



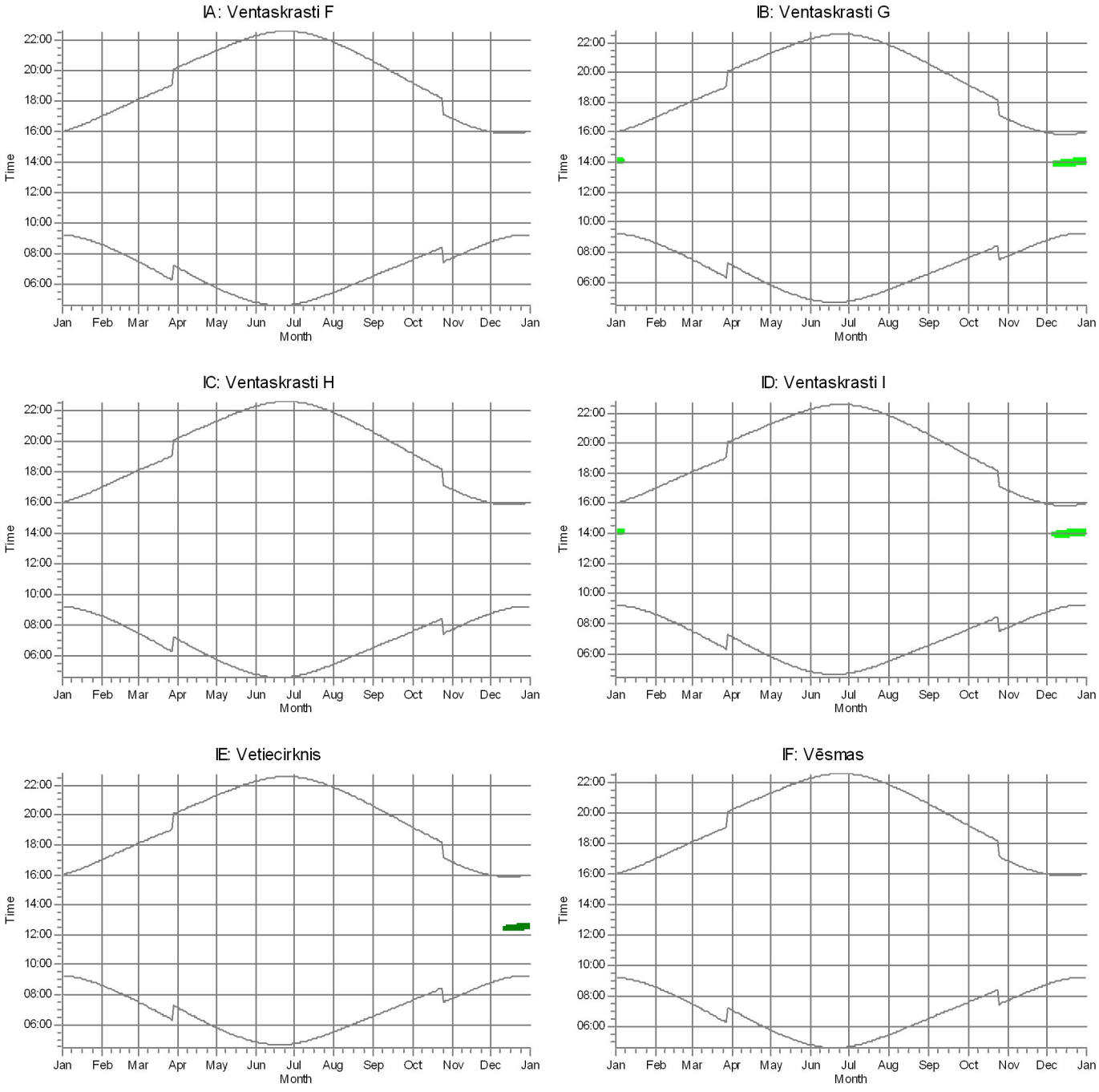
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



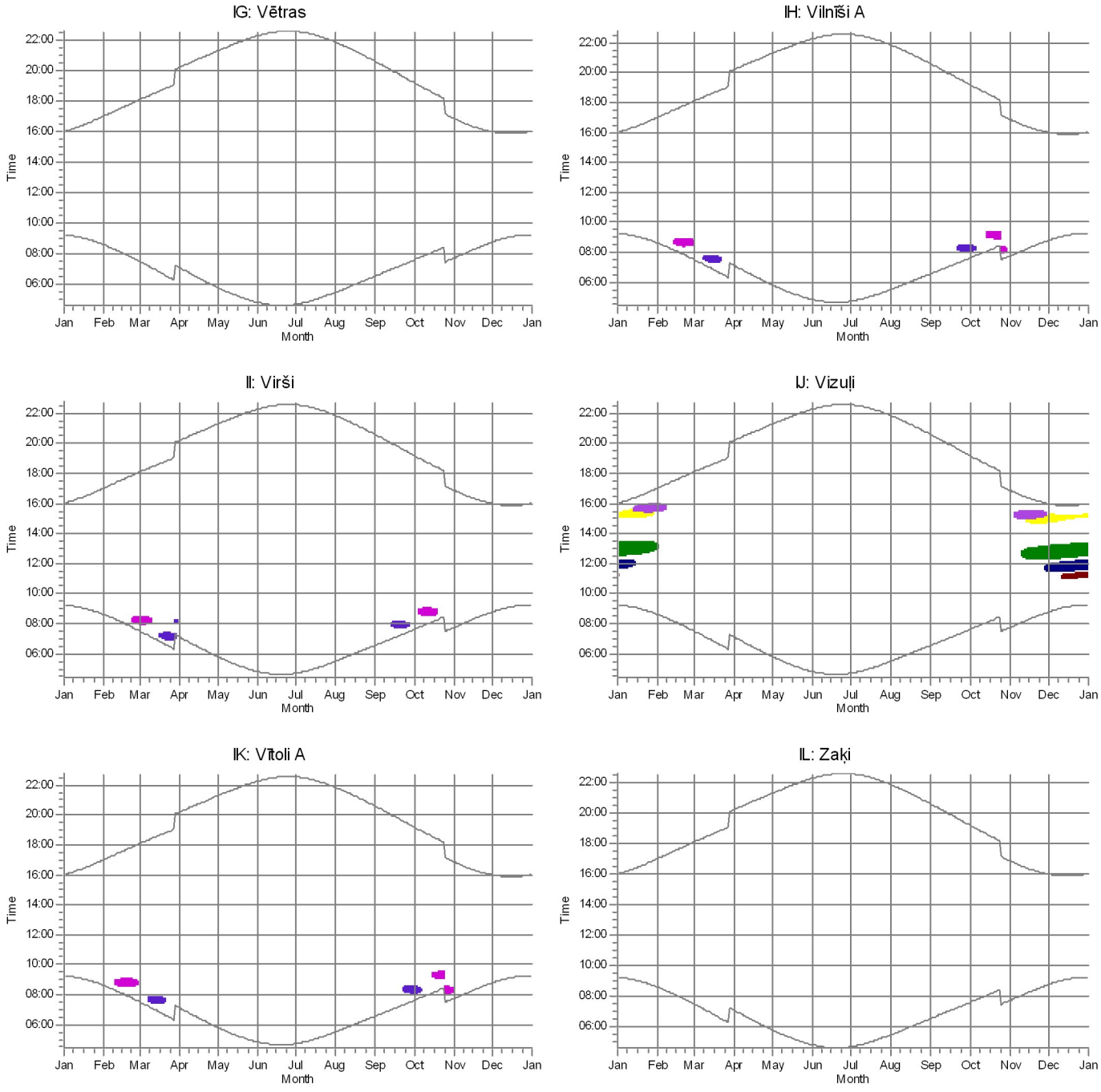
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical

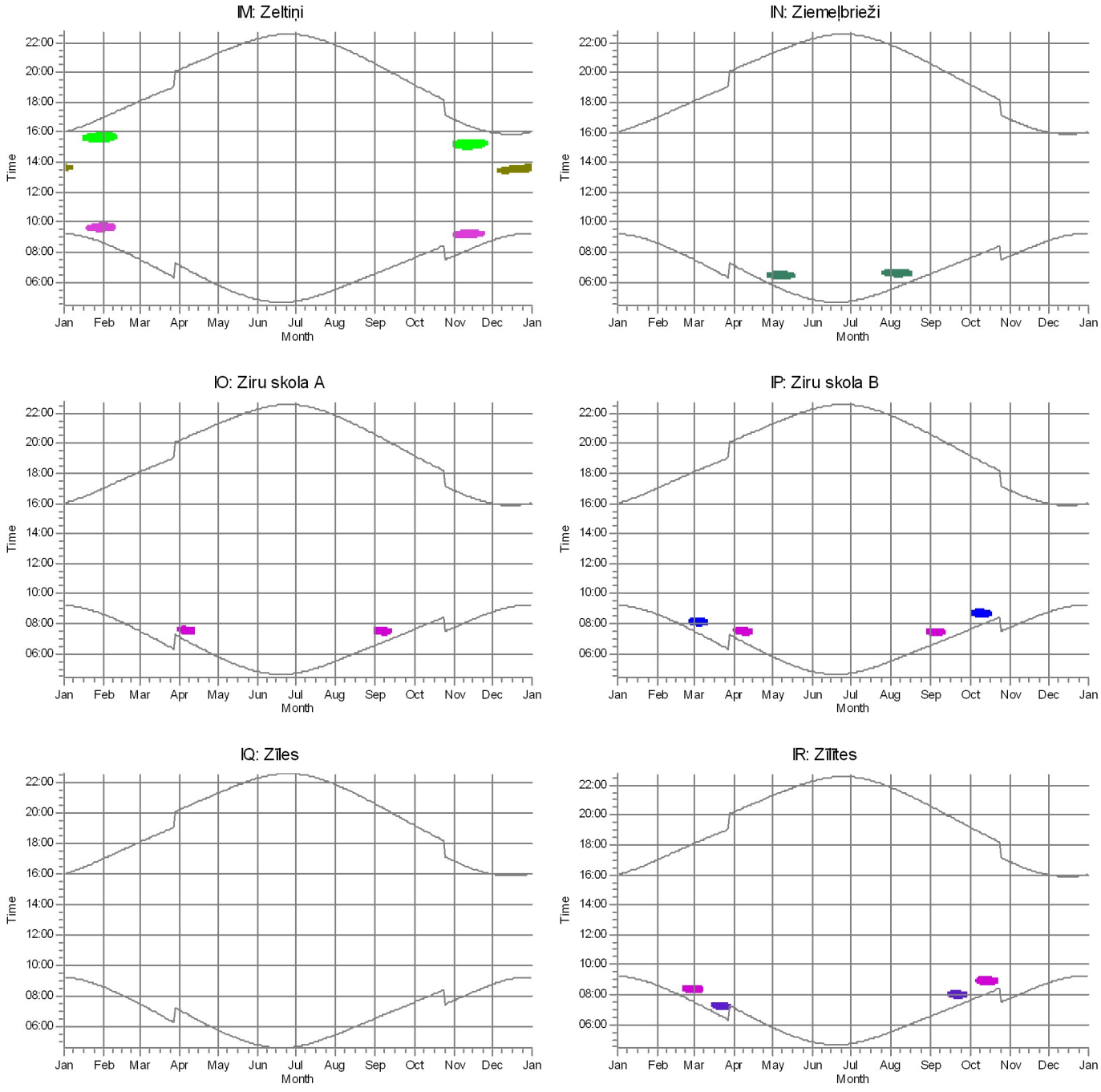


WTGs

1: V-2_1 (Ventspils-2)
2: V-2_3 (Ventspils-2)
7: V-2_10 (Ventspils-2)
8: V-2_11 (Ventspils-2)
41: T92 (Envirsus)
42: T93 (Envirsus)
43: T94 (Envirsus)

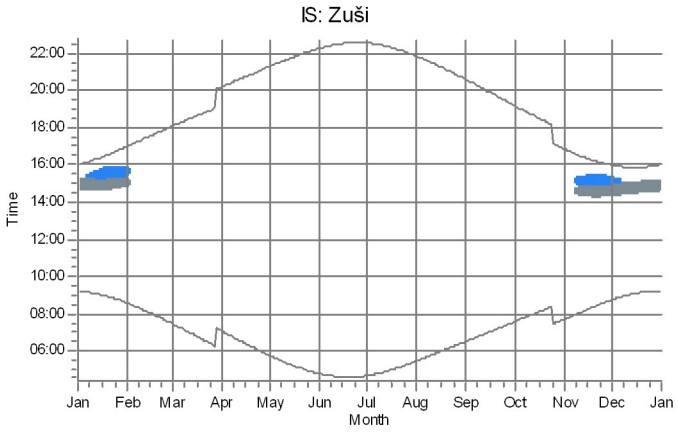
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar, graphical



WTGs

38: V-2_91 (Ventspils-2)

39: V-2_92 (Ventspils-2)

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 1 - V-2_1 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 12:29-13:21/52 13:53-14:20/27	08:36 15:33-16:01/28	07:30 16:37-16:59/22	07:06 18:39-19:23/44	05:48	04:49
	16:01 14:27-15:09/42	17:00 09:29-09:59/30	18:04	20:12	21:16	22:16
2	09:13 12:30-13:21/51 13:53-14:20/27	08:34 15:34-16:01/27	07:27 16:39-16:57/18	07:03 18:39-19:22/43	05:45	04:47
	16:02 14:27-15:09/42	17:02 09:28-09:58/30	18:07	20:14	21:18	22:17
3	09:13 12:33-13:22/49 13:54-14:21/27	08:32 15:35-16:01/26	07:25 16:43-16:54/11	07:00 18:38-19:20/42	05:43	04:46
	16:04 14:28-15:10/42	17:05 09:28-09:59/31	18:09	20:16	21:21	22:19
4	09:13 12:37-13:22/45 13:55-14:21/26	08:30 15:35-16:01/26	07:22	06:58 18:38-19:20/42	05:40	04:45
	16:05 14:28-15:10/42	17:07 09:29-09:59/30	18:11	20:18	21:23	22:20
5	09:12 12:37-13:22/45 13:55-14:21/26	08:28 09:08-09:14/6 09:28-09:59/31	07:19	06:55 18:38-19:20/42	05:38	04:44
	16:07 14:28-15:11/43	17:09 15:35-16:00/25	18:13	20:20	21:25	22:21
6	09:12 12:37-13:23/46 13:56-14:21/25	08:25 09:05-09:19/14 09:29-09:59/30	07:17	06:52 18:37-19:19/42	05:36	04:43
	16:08 14:28-15:11/43	17:12 15:37-16:00/23	18:15	20:23	21:27	22:22
7	09:11 12:38-13:23/45 13:56-14:21/25	08:23 09:03-09:21/18 09:30-09:59/29	07:14	06:50 18:37-19:19/42	05:34	04:42
	16:10 14:28-15:12/44	17:14 15:37-15:59/22	18:18	20:25	21:29	22:24
8	09:10 12:38-13:23/45 13:57-14:21/24	08:21 09:01-09:22/21 09:30-09:58/28	07:11	06:47 18:38-19:19/41	05:31	04:42
	16:11 14:29-15:12/43	17:16 15:39-15:58/19	18:20	20:27	21:31	22:25
9	09:09 12:39-13:24/45 13:58-14:21/23	08:19 09:00-09:24/24 09:31-09:58/27	07:09	06:44 18:37-19:18/41	05:29	04:41
	16:13 14:29-15:13/44	17:19 15:41-15:57/16	18:22	20:29	21:33	22:26
10	09:09 12:39-13:24/45 13:59-14:21/22	08:17 08:58-09:25/27 09:31-09:56/25	07:06	06:41 18:37-19:16/39	05:27	04:40
	16:14 14:30-15:13/43	17:21 15:43-15:54/11	18:24	20:31	21:35	22:27
11	09:08 12:40-13:25/45 14:00-14:21/21	08:14 08:44-08:51/7 09:33-09:56/23	07:03	06:39 18:38-19:16/38	05:25	04:40
	16:16 14:30-15:14/44	17:23 08:58-09:26/28	18:26	20:33	21:37	22:28
12	09:07 12:41-13:26/45 14:02-14:21/19	08:12 08:41-08:55/14 09:34-09:54/20	07:01 17:50-17:59/9	06:36 18:38-19:15/37	05:23	04:39
	16:18 14:30-15:13/43	17:25 08:57-09:26/29	18:29	20:35	21:39	22:29
13	09:06 12:41-13:25/44 14:02-14:20/18	08:10 08:39-09:28/49 09:36-09:52/16	06:58 17:47-18:02/15	06:33 18:39-19:13/34	05:21	04:39
	16:20 14:30-15:14/44	17:28 16:41-16:53/12	18:31	20:38	21:42	22:30
14	09:05 12:42-13:26/44 14:04-14:20/16	08:07 08:37-09:28/51 09:39-09:49/10	06:55 17:45-18:03/18	06:31 18:40-19:12/32	05:19	04:38
	16:22 14:31-15:15/44	17:30 16:38-16:55/17	18:33	20:40	21:44	22:30
15	09:03 12:42-13:26/44 14:06-14:18/12	08:05 08:36-09:28/52	06:52 17:43-18:06/23	06:28 18:41-19:10/29	05:17	04:38
	16:24 14:31-15:14/43	17:32 16:37-16:58/21	18:35	20:42	21:46	22:31
16	09:02 12:43-13:26/43 14:09-14:17/8	08:03 08:35-09:28/53	06:50 17:42-18:08/26	06:25 18:43-19:09/26	05:15	04:38
	16:26 14:32-15:15/43	17:35 16:35-16:59/24	18:37 07:16-07:21/5	20:44	21:48	22:32
17	09:01 12:43-13:26/43	08:00 08:35-09:29/54	06:47 17:42-18:10/28	06:23 18:44-19:06/22	05:13	04:37
	16:28 14:32-15:14/42	17:37 16:34-17:00/26	18:40 07:13-07:24/11	20:46	21:49	22:32
18	09:00 12:43-13:26/43 15:42-15:45/3	07:58 08:35-09:28/53	06:44 17:41-18:10/29	06:20 18:48-19:04/16	05:11	04:37
	16:30 14:32-15:14/42	17:39 16:34-17:02/28	18:42 07:10-07:25/15	20:48	21:51	22:33
19	08:58 12:45-13:26/41 15:39-15:50/11	07:55 08:35-09:27/52	06:41 17:40-18:10/30	06:18 18:52-18:58/6	05:09	04:37
	16:32 14:34-15:14/40	17:42 16:33-17:02/29	18:44 07:07-07:26/19	20:51	21:53	22:33
20	08:57 12:45-13:26/41 15:38-15:52/14	07:53 08:35-09:28/53	06:39 17:40-18:10/30	06:15	05:07	04:37
	16:34 14:34-15:14/40	17:44 16:33-17:03/30	18:46 07:07-07:27/20	20:53	21:55	22:34
21	08:55 12:46-13:26/40 15:36-15:53/17	07:50 08:35-09:27/52	06:36 17:40-18:11/31 07:05-07:27/22	06:12	05:05	04:37
	16:36 14:34-15:13/39 09:36-09:45/9	17:46 16:32-17:03/31	18:48 18:14-18:20/6	20:55	21:57	22:34
22	08:54 12:47-13:25/38 15:35-15:54/19	07:48 08:36-09:26/50	06:33 17:40-18:22/42	06:10	05:03	04:38
	16:38 14:35-15:11/36 09:34-09:48/14	17:48 16:32-17:03/31	18:50 07:05-07:27/22	20:57	21:59	22:34
23	08:52 12:47-13:25/38 15:35-15:56/21	07:45 08:36-09:25/49	06:31 17:41-18:24/43	06:07	05:02	04:38
	16:40 14:36-15:09/33 09:32-09:49/17	17:51 16:32-17:03/31	18:53 07:04-07:26/22	20:59	22:01	22:34
24	08:50 12:48-13:24/36 09:31-09:51/20	07:43 08:36-09:23/47	06:28 17:41-18:26/45	06:05	05:00	04:38
	16:42 15:34-15:57/23 14:37-15:02/25	17:53 16:32-17:03/31	18:55 07:03-07:26/23	21:01	22:03	22:34
25	08:49 12:50-13:24/34 09:30-09:52/22	07:40 08:37-09:00/23 16:32-17:02/30	06:25 17:42-18:26/44	06:02	04:58	04:38
	16:44 15:34-15:58/24 14:38-15:02/24	17:55 09:01-09:22/21	18:57 07:04-07:26/22	21:03	22:04	22:34
26	08:47 12:51-13:23/32 09:30-09:54/24	07:38 08:38-08:58/20 16:33-17:02/29	06:22 17:44-18:27/43	06:00	04:57	04:39
	16:47 15:33-15:58/25 14:39-15:01/22	17:58 09:02-09:20/18	18:59 07:04-07:25/21	21:06	22:06	22:34
27	08:45 12:52-13:22/30 09:29-09:55/26	07:35 08:39-08:56/17 16:34-17:01/27	06:20 17:46-18:27/41	05:57	04:55	04:39
	16:49 15:33-15:59/26 14:41-15:00/19	18:00 09:04-09:16/12	19:01 07:05-07:23/18	21:08	22:08	22:34
28	08:43 12:54-13:21/27 09:29-09:56/27	07:32 08:42-08:54/12	06:17 17:44-18:26/42	05:55	04:54	04:40
	16:51 15:33-16:00/27 14:43-14:59/16	18:02 16:35-17:00/25	19:03 07:05-07:21/16	21:10	22:09	22:34
29	08:42 12:56-13:19/23 09:29-09:56/27		07:14 18:43-19:26/43	05:52	04:53	04:41
	16:53 15:33-16:00/27 14:46-14:57/11		20:05 08:08-08:20/12	21:12	22:11	22:33
30	08:40 12:59-13:17/18 09:29-09:57/28		07:11 18:42-19:26/44	05:50	04:51	04:41
	16:56 15:34-16:01/27		20:08 08:12-08:14/2	21:14	22:13	22:33
31	08:38 13:03-13:14/11 09:29-09:58/29		07:09 18:40-19:25/45		04:50	
	16:58 15:34-16:01/27		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	3186	1931	978	658	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 1 - V-2_1 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42 22:33	05:30 21:50	06:34 18:37-19:15/38 20:33	07:36 18:28-18:40/12 19:11	07:43 08:28-08:54/26 09:01-09:26/25 16:51 15:12-15:24/12	08:47 12:22-13:07/45 13:43-14:03/20 15:58 14:12-14:56/44
2	04:43 22:32	05:32 21:47	06:36 18:36-19:15/39 20:31	07:38 19:08	07:45 08:30-08:54/24 09:01-09:27/26 16:49 15:10-15:27/17	08:48 12:22-13:08/46 13:42-14:04/22 15:57 14:13-14:56/43
3	04:44 22:32	05:34 21:45	06:38 18:35-19:16/41 20:28	07:40 19:06	07:47 08:31-08:52/21 08:59-09:28/29 16:47 15:08-15:28/20	08:50 12:23-13:08/45 13:42-14:05/23 15:57 14:13-14:57/44
4	04:45 22:31	05:36 21:43	06:40 18:35-19:16/41 20:25	07:42 19:03	07:50 08:33-08:51/18 09:00-09:29/29 16:45 15:08-15:29/21	08:52 12:23-13:09/46 13:42-14:06/24 15:56 14:14-14:57/43
5	04:46 22:30	05:38 21:41	06:42 18:34-19:16/42 20:23	07:44 19:00	07:52 08:35-08:48/13 08:59-09:28/29 16:42 15:06-15:30/24	08:53 12:23-13:08/45 13:41-14:06/25 15:55 14:14-14:57/43
6	04:47 22:29	05:40 21:39	06:44 18:33-19:15/42 20:20	07:46 18:58	07:54 08:40-08:44/4 08:59-09:29/30 16:40 15:06-15:31/25	08:55 12:24-13:09/45 13:42-14:07/25 15:54 14:14-14:57/43
7	04:48 22:29	05:42 21:36	06:46 18:33-19:15/42 20:17	07:48 18:55	07:56 15:05-15:31/26 16:38 08:59-09:29/30	08:57 12:24-13:09/45 13:42-14:08/26 15:53 14:15-14:58/43
8	04:49 22:28	05:44 21:34	06:48 18:33-19:15/42 20:14	07:50 18:52	07:59 15:05-15:32/27 16:36 08:59-09:30/31	08:58 12:25-13:10/45 13:43-14:09/26 15:53 14:16-14:59/43
9	04:51 22:27	05:46 21:32	06:50 18:32-19:14/42 20:12	07:52 18:49	08:01 15:05-15:32/27 16:34 08:59-09:29/30	08:59 12:22-13:10/48 13:42-14:09/27 15:52 14:16-14:58/42
10	04:52 22:26	05:48 21:29	06:52 18:32-19:16/44 20:09	07:55 17:19-17:26/7 18:47	08:03 15:05-15:33/28 16:32 09:00-09:30/30	09:01 12:21-13:11/50 13:43-14:10/27 15:52 14:17-14:59/42
11	04:53 22:24	05:50 21:27	06:54 18:32-19:16/44 20:06	07:57 17:14-17:29/15 18:44	08:05 12:34-12:45/11 08:59-09:29/30 16:30 15:05-15:32/27	09:02 12:19-13:11/52 13:43-14:10/27 15:51 14:17-14:59/42
12	04:55 22:23	05:52 21:25	06:56 18:33-19:17/44 20:03	07:59 17:12-17:32/20 18:41	08:08 12:31-12:49/18 09:00-09:29/29 16:28 15:05-15:33/28	09:03 12:19-13:11/52 13:43-14:11/28 15:51 14:17-14:59/42
13	04:56 22:22	05:54 21:22	06:58 18:33-19:17/44 20:01	08:01 09:16-09:24/8 18:39 17:09-17:33/24	08:10 12:28-12:51/23 09:01-09:28/27 16:26 15:05-15:32/27 14:17-14:29/12	09:05 12:19-13:12/53 13:44-14:12/28 15:51 14:18-15:00/42
14	04:58 22:21	05:56 21:20	07:00 18:33-19:17/44 19:58 07:59-08:09/10	08:03 09:13-09:27/14 17:07-17:33/26 18:36 09:40-09:45/5	08:12 12:27-12:54/27 09:02-09:28/26 16:24 15:05-15:32/27 14:16-14:32/16	09:06 12:19-13:12/53 13:44-14:12/28 15:51 14:19-15:00/41
15	04:59 22:19	05:58 21:17	07:02 18:34-19:17/43 19:55 07:56-08:11/15	08:05 09:11-09:30/19 17:05-17:33/28 18:34 09:36-09:51/15	08:14 12:25-12:55/30 09:02-09:27/25 16:22 15:06-15:32/26 14:14-14:33/19	09:07 12:19-13:12/53 13:44-14:13/29 15:51 14:19-15:00/41
16	05:01 22:18	06:00 21:15	07:05 18:35-19:16/41 19:52 07:54-08:12/18	08:08 09:10-09:30/20 17:05-17:34/29 18:31 09:33-09:53/20	08:16 12:24-12:56/32 09:04-09:27/23 16:20 15:06-15:31/25 14:12-14:34/22	09:08 12:19-13:13/54 13:45-14:13/28 15:51 14:19-15:01/42
17	05:02 22:17	06:03 21:12	07:07 18:33-19:15/42 19:50 07:53-08:13/20	08:10 09:08-09:54/46 18:28 17:04-17:34/30	08:19 12:24-12:58/34 09:04-09:26/22 16:18 15:08-15:31/23 14:12-14:36/24	09:09 12:19-13:13/54 13:45-14:14/29 15:51 14:20-15:01/41
18	05:04 22:15	06:05 21:10	07:09 18:31-19:15/44 19:47 07:52-08:13/21	08:12 09:08-09:56/48 18:26 17:03-17:34/31	08:21 12:22-12:58/36 09:05-09:25/20 16:17 15:08-15:31/23 14:11-14:36/25	09:09 12:19-13:14/55 13:46-14:14/28 15:51 14:21-15:02/41
19	05:06 22:14	06:07 21:07	07:11 18:29-19:13/44 19:44 07:51-08:13/22	08:14 09:07-09:56/49 18:23 17:03-17:35/32	08:23 12:22-13:00/38 15:10-15:31/21 16:15 14:11-14:44/33 09:07-09:24/17	09:10 12:20-13:15/55 13:46-14:15/29 15:51 14:21-15:02/41
20	05:07 22:12	06:09 21:05	07:13 18:27-19:11/44 19:41 07:51-08:13/22	08:16 09:06-09:57/51 18:21 17:03-17:34/31	08:25 12:22-13:00/38 15:10-15:30/20 16:13 14:10-14:46/36 09:09-09:23/14	09:11 12:20-13:14/54 13:46-14:15/29 15:51 14:21-15:02/41
21	05:09 22:10	06:11 21:02	07:15 18:26-19:08/42 19:39 07:50-08:13/23	08:18 09:06-09:58/52 18:18 17:02-17:33/31	08:27 12:22-13:02/40 15:11-15:28/17 16:12 14:11-14:49/38 09:12-09:21/9	09:12 12:21-13:15/54 13:47-14:16/29 15:52 14:22-15:03/41
22	05:11 22:09	06:13 21:00	07:17 18:25-18:56/31 07:50-08:12/22 19:36 18:58-19:05/7	08:21 09:05-09:58/53 18:16 17:03-17:33/30	08:29 12:21-13:02/41 15:14-15:28/14 16:10 14:10-14:50/40	09:12 12:21-13:15/54 13:47-14:16/29 15:52 14:22-15:03/41
23	05:13 22:07	06:15 20:57	07:19 18:24-18:55/31 19:33 07:50-08:11/21	08:23 09:05-09:58/53 18:13 17:03-17:32/29	08:31 12:21-13:02/41 15:15-15:26/11 16:09 14:10-14:50/40	09:13 12:22-13:16/54 13:48-14:17/29 15:53 14:23-15:04/41
24	05:14 22:05	06:17 18:55-19:03/8 20:55	07:21 18:24-18:54/30 19:30 07:50-08:10/20	08:25 09:05-09:58/53 18:11 17:04-17:32/28	08:33 12:21-13:04/43 15:20-15:24/4 16:07 14:10-14:52/42	09:13 12:22-13:16/54 13:48-14:17/29 15:53 14:23-15:04/41
25	05:16 22:03	06:19 18:50-19:07/17 20:52	07:23 18:24-18:53/29 19:28 07:52-08:08/16	08:27 08:05-08:58/53 17:08 16:04-16:30/26	08:35 12:21-13:04/43 16:06 14:10-14:53/43	09:13 12:22-13:17/55 13:49-14:17/28 15:54 14:23-15:04/41
26	05:18 22:01	06:21 18:47-19:09/22 20:49	07:25 18:23-18:52/29 19:25 07:54-08:06/12	08:30 08:06-08:58/52 17:06 16:05-16:28/23	08:37 12:21-13:04/43 13:47-13:55/8 16:04 14:10-14:53/43	09:14 12:23-13:17/54 13:49-14:17/28 15:55 14:24-15:05/41
27	05:20 22:00	06:23 18:45-19:11/26 20:47	07:27 18:24-18:50/26 19:22 07:56-08:03/7	08:32 08:06-08:58/52 17:03 16:07-16:27/20	08:39 12:21-13:05/44 13:45-13:57/12 16:03 14:10-14:53/43	09:14 12:24-13:18/54 13:50-14:18/28 15:56 14:24-15:05/41
28	05:22 21:58	06:25 18:43-19:12/29 20:44	07:29 18:24-18:48/24 19:19	07:34 08:06-08:57/51 09:07-09:19/12 17:01 16:08-16:23/15	08:41 12:21-13:05/44 13:44-13:59/15 16:02 14:10-14:54/44	09:14 12:24-13:18/54 13:50-14:18/28 15:57 14:25-15:06/41
29	05:24 21:56	06:27 18:41-19:13/32 20:41	07:31 18:25-18:44/19 19:17	07:36 08:09-08:57/48 09:05-09:22/17 16:58 16:11-16:21/10	08:43 12:22-13:06/44 13:44-14:01/17 16:01 14:12-14:55/43	09:14 12:25-13:19/54 13:51-14:19/28 15:57 14:25-15:07/42
30	05:26 21:54	06:30 18:40-19:14/34 20:39	07:34 18:26-18:42/16 19:14	07:38 08:11-08:24/13 09:03-09:24/21 16:56 08:26-08:56/30	08:45 12:22-13:07/45 13:43-14:02/19 16:00 14:12-14:56/44	09:14 12:27-13:20/53 13:52-14:20/28 15:59 14:26-15:08/42
31	05:28 21:52	06:32 18:38-19:15/37 20:36		07:41 08:28-08:56/28 09:02-09:25/23 16:54 15:17-15:20/3 08:14-08:20/6		09:14 12:28-13:20/52 13:52-14:19/27 16:00 14:26-15:08/42
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	205	1380	1412	2550	3724

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 2 - V-2_3 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 15:06-15:16/10 12:22-12:51/29	08:36 09:11-10:11/60	07:30	07:06 07:34-08:35/61	05:48 06:57-07:20/23	04:49
	16:01 11:01-11:52/51 10:09-10:34/25	17:00	18:04	20:12	21:16	22:16
2	09:13 15:06-15:17/11 12:23-12:51/28	08:34 09:09-10:10/61	07:27	07:03 07:34-08:33/59	05:45 07:00-07:17/17	04:48
	16:03 11:02-11:52/50 10:09-10:34/25	17:02	18:07	20:14	21:19	22:17
3	09:13 15:06-15:20/14 12:24-12:52/28	08:32 09:09-10:10/61	07:25	07:00 07:33-07:55/22	05:43	04:46
	16:04 11:03-11:53/50 10:10-10:35/25	17:05	18:09	20:16 07:57-08:30/33	21:21	22:19
4	09:13 15:06-15:21/15 12:25-12:51/26	08:30 09:09-10:10/61	07:22	06:58 07:33-07:55/22	05:41	04:45
	16:05 11:03-11:52/49 10:10-10:36/26	17:07	18:11	20:18 07:58-08:28/30	21:23	22:20
5	09:12 15:06-15:22/16 12:25-12:51/26	08:28 09:08-10:08/60	07:19	06:55 07:33-07:54/21	05:38	04:44
	16:07 11:04-11:52/48 10:10-10:36/26	17:09	18:13	20:20 08:00-08:24/24	21:25	22:21
6	09:12 15:06-15:24/18 12:26-12:51/25	08:26 09:08-10:08/60	07:17	06:52 07:33-07:53/20 07:18-07:25/7	05:36	04:43
	16:08 11:05-11:52/47 10:10-10:36/26	17:12	18:16	20:23 08:02-08:12/10	21:27	22:22
7	09:11 15:06-15:25/19 12:27-12:51/24	08:23 09:08-10:07/59	07:14	06:50 07:34-07:53/19	05:34	04:43
	16:10 11:06-11:52/46 10:12-10:38/26	17:14	18:18	20:25 07:16-07:28/12	21:29	22:24
8	09:10 15:06-15:26/20 12:28-12:51/23 11:07-11:27/20	08:21 09:07-10:04/57	07:11	06:47 07:35-07:51/16	05:31	04:42
	16:11 11:29-11:52/23 10:11-10:37/26	17:16	18:20	20:27 07:13-07:29/16	21:31	22:25
9	09:09 15:06-15:27/21 12:29-12:50/21 11:08-11:27/19	08:19 09:08-10:01/53	07:09	06:44 07:36-07:48/12	05:29	04:41
	16:13 11:30-11:52/22 10:12-10:38/26	17:19	18:22	20:29 07:10-07:29/19	21:33	22:26
10	09:09 15:06-15:27/21 12:31-12:50/19 11:09-11:27/18	08:17 09:07-09:58/51	07:06	06:41 07:39-07:46/7	05:27	04:40
	16:15 11:31-11:52/21 10:12-10:38/26	17:21	18:24	20:31 07:08-07:30/22	21:35	22:27
11	09:08 15:07-15:28/21 12:32-12:50/18 11:11-11:27/16	08:14 09:08-09:58/50	07:03	06:39 07:05-07:30/25	05:25	04:40
	16:16 11:33-11:51/18 10:13-10:39/26	17:23	18:27	20:33	21:37	22:28
12	09:07 15:07-15:29/22 12:35-12:49/14 09:50-09:53/3	08:12 09:08-09:58/50	07:01	06:36 07:02-07:30/28	05:23	04:39
	16:18 11:35-11:51/16 10:14-10:40/26 11:12-11:26/14	17:26	18:29	20:36	21:40	22:29
13	09:06 15:07-15:29/22 12:36-12:47/11 09:46-09:56/10	08:10 09:09-09:58/49	06:58	06:33 07:00-07:30/30	05:21	04:39
	16:20 11:36-11:49/13 10:13-10:39/26 11:14-11:24/10	17:28	18:31	20:38	21:42	22:30
14	09:05 15:07-15:30/23 12:41-12:44/3 09:45-09:58/13	08:07 09:10-09:58/48	06:55	06:31 06:57-07:29/32	05:19	04:38
	16:22 11:39-11:48/9 10:14-10:40/26 11:17-11:23/6	17:30	18:33	20:40	21:44	22:30
15	09:03 15:07-15:30/23 09:44-10:00/16	08:05 09:11-09:58/47	06:52	06:28 06:55-07:29/34	05:17	04:38
	16:24 10:14-10:39/25	17:33	18:35	20:42	21:46	22:31
16	09:02 15:08-15:31/23 09:44-10:02/18	08:03 09:12-09:57/45	06:50	06:26 06:53-07:29/36	05:15	04:38
	16:26 10:16-10:40/24	17:35	18:37	20:44	21:48	22:32
17	09:01 15:08-15:31/23 09:43-10:03/20	08:00 09:15-09:57/42	06:47 07:19-07:33/14	06:23 06:52-07:30/38	05:13	04:38
	16:28 10:16-10:40/24	17:37	18:40	20:46	21:50	22:32
18	09:00 15:08-15:31/23 09:42-10:03/21	07:58 09:19-09:56/37	06:44 07:16-07:35/19	06:20 06:51-07:30/39	05:11	04:37
	16:30 10:17-10:40/23	17:39	18:42	20:48	21:51	22:33
19	08:58 15:09-15:32/23 09:42-10:05/23	07:55 09:22-09:55/33	06:42 07:14-07:36/22	06:18 06:52-07:30/38	05:09	04:37
	16:32 10:18-10:40/22	17:42	18:44	20:51	21:53	22:33
20	08:57 15:09-15:32/23 09:42-10:06/24	07:53 09:24-09:54/30	06:39 07:09-07:38/29	06:15 06:51-07:30/39	05:07	04:37
	16:34 10:19-10:39/20	17:44	18:46	20:53	21:55	22:34
21	08:55 15:10-15:32/22 09:41-10:07/26	07:50 09:24-09:52/28	06:36 07:05-07:39/34	06:13 06:51-07:30/39	05:05	04:38
	16:36 10:20-10:38/18	17:46	18:48	20:55	21:57	22:34
22	08:54 15:10-15:32/22 09:41-10:07/26	07:48 09:27-09:51/24	06:33 07:02-07:39/37	06:10 06:51-07:29/38	05:04	04:38
	16:38 10:21-10:37/16 09:28-09:34/6	17:49	18:50	20:57	21:59	22:34
23	08:52 15:11-15:31/20 09:40-10:08/28	07:45 09:28-09:49/21	06:31 07:00-07:39/39	06:07 06:52-07:29/37	05:02	04:38
	16:40 10:23-10:36/13 09:26-09:37/11	17:51	18:53	20:59	22:01	22:34
24	08:50 15:12-15:31/19 09:25-10:08/43	07:43 09:30-09:45/15	06:28 07:00-07:40/40	06:05 06:52-07:28/36	05:00	04:38
	16:42 10:26-10:35/9	17:53	18:55	21:01	22:03	22:34
25	08:49 15:13-15:30/17	07:40	06:25 06:58-07:40/42	06:02 06:52-07:28/36	04:59	04:39
	16:44 09:24-10:10/46	17:55	18:57	21:04	22:04	22:34
26	08:47 15:14-15:29/15	07:38	06:22 06:57-07:39/42	06:00 06:53-07:27/34	04:57	04:39
	16:47 09:23-10:09/46	17:58	18:59	21:06	22:06	22:34
27	08:45 15:16-15:28/12	07:35	06:20 06:45-06:48/3	05:57 06:53-07:26/33	04:56	04:40
	16:49 09:22-10:10/48	18:00	19:01 06:56-07:38/42	21:08	22:08	22:34
28	08:43 15:19-15:26/7	07:33	06:17 06:43-06:53/10	05:55 06:54-07:25/31	04:54	04:40
	16:51 09:21-10:10/49	18:02	19:03 06:57-07:39/42	21:10	22:09	22:34
29	08:42 09:15-10:11/56		07:14 07:40-07:54/14	05:52 06:55-07:24/29	04:53	04:41
	16:53		20:05 07:56-08:38/42	21:12	22:11	22:33
30	08:40 09:13-10:11/58		07:11 07:37-07:55/18	05:50 06:55-07:21/26	04:51	04:42
	16:56		20:08 07:56-08:37/41	21:14	22:13	22:33
31	08:38 09:12-10:11/59		07:09 07:35-08:35/60		04:50	
	16:58		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	2591	1102	590	1110	40	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 2 - V-2_3 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:34 07:04-07:29/25	07:36	07:43 08:37-09:27/50	08:47 14:49-15:10/21 12:15-12:32/17 10:53-11:09/16
	22:33	21:50	20:34	19:11	16:52	15:59 11:15-11:33/18 09:55-10:21/26
2	04:43	05:32	06:36 07:37-07:44/7	07:38	07:45 08:37-09:32/55	08:48 14:49-15:11/22 12:14-12:33/19 10:52-11:10/18
	22:32	21:47	20:31 07:06-07:28/22	19:08	16:49	15:58 11:15-11:35/20 09:55-10:21/26
3	04:44	05:34	06:38 07:34-07:46/12	07:40	07:48 08:37-09:34/57	08:50 14:50-15:11/21 12:13-12:35/22 10:52-11:11/19
	22:32	21:45	20:28 07:08-07:27/19	19:06	16:47	15:57 11:14-11:36/22 09:56-10:22/26
4	04:45	05:36	06:40 07:32-07:48/16	07:42	07:50 08:38-09:37/59	08:52 14:51-15:11/20 12:13-12:36/23 10:52-11:13/21
	22:31	21:43	20:25 07:10-07:26/16	19:03	16:45	15:56 11:14-11:37/23 09:56-10:22/26
5	04:46	05:38	06:42 07:30-07:49/19	07:44	07:52 08:37-09:38/61	08:53 14:51-15:10/19 12:12-12:36/24
	22:30	21:41	20:23 07:12-07:24/12	19:00	16:43	15:55 10:52-11:38/46 09:57-10:23/26
6	04:47	05:40	06:44 07:29-07:49/20 07:14-07:21/7	07:46	07:54 08:38-09:39/61	08:55 14:52-15:10/18 12:12-12:37/25
	22:29	21:39	20:20 07:58-08:08/10	18:58	16:40	15:54 10:51-11:38/47 09:56-10:22/26
7	04:48	05:42	06:46 07:28-07:50/22	07:48	07:57 08:38-09:40/62	08:57 14:53-15:10/17 12:12-12:38/26
	22:29	21:36	20:17 07:55-08:19/24	18:55	16:38	15:54 10:51-11:39/48 09:57-10:23/26
8	04:50	05:44	06:48 07:27-07:50/23	07:50	07:59 08:40-09:41/61	08:58 14:54-15:09/15 12:13-12:39/26
	22:28	21:34	20:15 07:53-08:22/29	18:52	16:36	15:53 10:52-11:40/48 09:58-10:24/26
9	04:51	05:46	06:50 07:27-07:49/22	07:53	08:01 08:40-09:41/61	08:59 14:54-15:08/14 12:12-12:40/28
	22:27	21:32	20:12 07:51-08:24/33	18:50	16:34	15:52 10:51-11:41/50 09:58-10:23/25
10	04:52	05:48 07:20-07:21/1	06:52 07:27-07:49/22	07:55	08:03 08:42-09:42/60	09:01 14:56-15:08/12 12:13-12:41/28
	22:26	21:30	20:09 07:50-08:26/36	18:47	16:32	15:52 10:52-11:42/50 09:59-10:24/25
11	04:53	05:50 07:08-07:26/18	06:54 07:27-07:48/21	07:57	08:05 08:43-09:42/59	09:02 14:56-15:07/11 12:13-12:41/28
	22:25	21:27	20:06 07:49-08:27/38	18:44	16:30	15:52 10:52-11:42/50 09:59-10:24/25
12	04:55	05:52 07:05-07:29/24	06:56 07:27-07:47/20	07:59	08:08 08:45-09:43/58	09:03 14:57-15:06/9 12:12-12:41/29
	22:23	21:25	20:04 07:48-08:27/39	18:42	16:28	15:51 10:53-11:43/50 10:00-10:25/25
13	04:56	05:54 07:04-07:30/26	06:58 07:28-07:46/18	08:01	08:10 08:47-09:43/56	09:05 14:59-15:06/7 12:13-12:43/30
	22:22	21:22	20:01 07:47-08:28/41	18:39	16:26	15:51 10:53-11:44/51 10:01-10:25/24
14	04:58	05:56 07:02-07:31/29	07:01 07:30-07:45/15	08:03	08:12 14:51-14:59/8	09:06 14:59-15:06/7 12:13-12:43/30
	22:21	21:20	19:58 07:46-08:28/42	18:36	16:24 08:54-09:43/49	15:51 10:53-11:44/51 10:01-10:25/24
15	04:59	05:58 07:01-07:32/31	07:03 07:32-07:42/10	08:05	08:14 14:49-15:01/12	09:07 15:00-15:05/5 12:14-12:44/30
	22:20	21:17	19:55 07:46-08:28/42	18:34	16:22 08:54-09:43/49	15:51 10:53-11:44/51 10:01-10:26/25
16	05:01	06:01 07:00-07:33/33	07:05 07:34-07:39/5	08:08	08:16 14:47-15:02/15	09:08 15:01-15:05/4 12:14-12:44/30
	22:18	21:15	19:53 07:46-08:28/42	18:31	16:20 08:56-09:43/47	15:51 10:53-11:45/52 10:02-10:26/24
17	05:02	06:03 06:59-07:34/35	07:07 07:46-08:28/42	08:10 10:05-10:13/8	08:19 14:47-15:04/17	09:09 15:02-15:05/3 12:14-12:45/31
	22:17	21:13	19:50	18:28	16:19 08:57-09:43/46	15:51 10:54-11:46/52 10:03-10:26/23
18	05:04	06:05 06:59-07:34/35	07:09 07:46-08:27/41	08:12 10:01-10:18/17	08:21 14:46-15:05/19 09:14-09:42/28	09:09 15:03-15:05/2 12:15-12:46/31
	22:15	21:10	19:47	18:26	16:17 09:59-10:08/9 08:58-09:13/15	15:51 10:54-11:46/52 10:03-10:27/24
19	05:06	06:07 06:58-07:35/37	07:11 07:46-08:27/41	08:14 09:58-10:20/22	08:23 14:46-15:06/20 09:15-09:43/28	09:10 15:04-15:06/2 12:16-12:46/30
	22:14	21:08	19:44	18:23	16:15 09:58-10:11/13 09:01-09:12/11	15:51 10:55-11:47/52 10:04-10:27/23
20	05:07	06:09 06:57-07:35/38	07:13 07:47-08:26/39	08:16 09:56-10:22/26	08:25 14:45-15:07/22 09:16-09:42/26	09:11 15:04-15:05/1 12:15-12:46/31
	22:12	21:05	19:41	18:21	16:13 09:56-10:12/16 09:03-09:09/6	15:52 10:55-11:47/52 10:04-10:27/23
21	05:09	06:11 06:57-07:35/38	07:15 07:48-08:25/37	08:19 09:55-10:24/29	08:27 14:46-15:08/22 09:17-09:43/26	09:12 15:05-15:06/1 12:16-12:47/31
	22:10	21:02	19:39	18:18	16:12 09:56-10:14/18	15:52 10:56-11:48/52 10:05-10:28/23
22	05:11	06:13 06:56-07:35/39	07:17 07:49-08:24/35	08:21 09:54-10:25/31	08:29 14:45-15:08/23 09:18-09:42/24	09:12 15:05-15:06/1 12:16-12:47/31
	22:09	21:00	19:36	18:16	16:10 09:55-10:15/20	15:52 10:56-11:48/52 10:05-10:28/23
23	05:13	06:15 06:55-07:33/38	07:19 07:51-08:22/31	08:23 09:52-10:25/33	08:31 14:45-15:08/23 09:18-09:41/23	09:13 15:06-15:07/1 12:17-12:48/31
	22:07	20:57	19:33	18:13	16:09 09:54-10:16/22	15:53 10:57-11:49/52 10:06-10:29/23
24	05:15	06:17 06:54-07:33/39	07:21 07:57-08:21/24	08:25 09:47-10:26/39	08:33 14:46-15:09/23 09:20-09:42/22	09:13 15:06-15:08/2 12:17-12:48/31
	22:05	20:55	19:30	18:11	16:07 09:55-10:17/22	15:53 10:57-11:49/52 10:06-10:29/23
25	05:16	06:19 06:54-07:32/38	07:23 07:58-08:18/20	07:27 08:44-09:27/43	08:35 14:46-15:09/23 09:21-09:41/20	09:13 15:06-15:08/2 12:18-12:48/30
	22:03	20:52	19:28	17:08	16:06 09:54-10:18/24	15:54 10:57-11:49/52 10:06-10:30/24
26	05:18	06:21 06:54-07:32/38	07:25 08:00-08:16/16	07:30 08:42-09:28/46	08:37 14:46-15:09/23 09:22-09:40/18	09:14 15:06-15:09/3 12:18-12:49/31
	22:02	20:49	19:25	17:06	16:05 09:54-10:18/24	15:55 10:57-11:49/52 10:06-10:30/24
27	05:20	06:23 06:55-07:31/36	07:27 08:04-08:11/7	07:32 08:40-09:27/47	08:39 14:46-15:09/23 09:23-09:39/16	09:14 15:06-15:10/4 12:19-12:49/30
	22:00	20:47	19:22	17:03	16:03 09:54-10:18/24	15:56 10:58-11:50/52 10:07-10:31/24
28	05:22	06:25 06:56-07:30/34	07:29	07:34 08:39-09:27/48	08:41 14:46-15:09/23 12:22-12:23/1 09:25-09:39/14	09:14 15:06-15:11/5 12:19-12:50/31
	21:58	20:44	19:19	17:01	16:02 11:19-11:28/9 09:55-10:20/25 10:57-11:02/5	15:57 10:59-11:50/51 10:07-10:31/24
29	05:24	06:28 06:58-07:30/32	07:31	07:36 08:39-09:28/49	08:43 14:48-15:10/22 12:17-12:28/11 09:27-09:37/10	09:14 15:06-15:12/6 12:20-12:50/30
	21:56	20:42	19:17	16:59	16:01 11:17-11:30/13 09:55-10:20/25 10:55-11:05/10	15:58 10:59-11:51/52 10:08-10:32/24
30	05:26	06:30 07:00-07:30/30	07:34	07:39 08:38-09:27/49	08:45 14:48-15:10/22 12:16-12:30/14 09:31-09:34/3	09:14 15:06-15:14/8 12:21-12:51/30
	21:54	20:39	19:14	16:56	16:00 11:16-11:32/16 09:55-10:21/26 10:54-11:07/13	15:59 11:00-11:51/51 10:08-10:33/25
31	05:28	06:32 07:02-07:30/28		07:41 08:38-09:28/50		09:14 15:06-15:14/8 12:22-12:51/29
	21:52	20:36		16:54		16:00 11:01-11:52/51 10:09-10:34/25
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	697	1062	537	1941	3432

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 3 - V-2_6 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 10:09-11:01/52 16:01	08:36 09:11-10:34/83 17:00	07:30 07:58-08:17/19 18:04 08:34-08:51/17	07:06 08:13-08:34/21 20:12	05:48 07:01-07:08/7 21:16 06:34-07:00/26	04:49 05:36-06:01/25 22:16
2	09:13 10:09-11:01/52 16:03	08:34 09:09-10:33/84 17:03	07:27 07:57-08:18/21 18:07 08:36-08:48/12	07:03 08:15-08:32/17 20:14	05:45 06:34-07:00/26 21:19	04:48 05:37-06:02/25 22:17
3	09:13 10:07-11:02/55 16:04	08:32 09:08-10:32/84 17:05	07:25 07:57-08:18/21 18:09	07:01 08:17-08:28/11 20:16	05:43 06:35-07:00/25 21:21	04:47 05:37-06:02/25 22:19
4	09:13 10:05-11:02/57 16:05	08:30 09:08-10:32/84 17:07	07:22 07:56-08:18/22 18:11	06:58 20:18	05:41 06:35-06:59/24 21:23	04:46 05:37-06:02/25 22:20
5	09:12 10:04-11:02/58 16:07	08:28 09:07-10:30/83 17:09	07:19 07:56-08:18/22 18:13	06:55 20:20	05:38 06:36-06:59/23 21:25	04:45 05:37-06:02/25 22:21
6	09:12 10:03-11:02/59 16:08	08:25 09:07-10:09/62 17:12 10:11-10:28/17	07:17 07:56-08:17/21 18:16	06:52 20:23	05:36 06:36-06:58/22 21:27	04:44 05:36-06:02/26 22:22
7	09:11 10:03-11:02/59 16:10	08:23 09:07-10:09/62 10:14-10:26/12 17:14 08:58-09:04/6	07:14 07:57-08:17/20 18:18	06:50 20:25	05:34 06:36-06:56/20 21:29	04:43 05:37-06:03/26 22:24
8	09:10 10:02-11:03/61 16:11	08:21 08:54-10:07/73 17:16	07:11 07:57-08:16/19 18:20	06:47 20:27	05:32 06:38-06:55/17 21:31	04:42 05:37-06:02/25 22:25
9	09:09 10:02-11:03/61 16:13	08:19 08:52-10:07/75 17:19	07:09 07:58-08:14/16 18:22	06:44 20:29	05:29 06:39-06:53/14 21:33	04:41 05:37-06:02/25 22:26
10	09:09 10:02-10:38/36 16:15 10:39-11:03/24	08:17 08:50-10:06/76 17:21	07:06 07:59-08:12/13 18:24	06:42 20:31	05:27 06:41-06:51/10 21:35	04:40 05:38-06:03/25 22:27
11	09:08 10:02-10:39/37 16:16 10:40-11:03/23	08:14 08:50-10:05/75 17:23	07:03 08:03-08:09/6 18:27	06:39 20:33	05:25 21:37	04:40 05:38-06:03/25 22:28
12	09:07 10:02-10:40/38 16:18 10:41-11:04/23	08:12 08:49-09:43/54 17:26 09:44-10:03/19	07:01 18:29	06:36 07:07-07:10/3 20:36	05:23 21:39	04:39 05:38-06:03/25 22:29
13	09:06 10:01-10:39/38 16:20 10:41-11:03/22	08:10 08:48-09:43/55 17:28 09:46-10:01/15	06:58 18:31	06:34 07:03-07:15/12 20:38	05:21 21:42	04:39 05:39-06:03/24 22:30
14	09:05 10:01-10:40/39 16:22 10:42-11:03/21	08:07 08:38-09:41/63 17:30 09:50-09:56/6	06:55 18:33	06:31 07:00-07:17/17 20:40	05:19 21:44	04:38 05:39-06:04/25 22:30
15	09:03 10:00-10:40/40 16:24 10:43-11:02/19	08:05 08:36-09:41/65 17:33	06:53 18:35	06:28 06:59-07:19/20 20:42	05:17 21:46	04:38 05:39-06:03/24 22:31
16	09:02 10:01-10:40/39 16:26 10:45-11:02/17	08:03 08:34-09:38/64 17:35	06:50 07:23-07:34/11 18:38	06:26 06:57-07:19/22 20:44	05:15 21:48	04:38 05:39-06:03/24 22:32
17	09:01 10:00-10:40/40 16:28 10:46-11:01/15	08:00 08:34-09:36/62 17:37	06:47 07:20-07:37/17 18:40	06:23 06:56-07:20/24 20:46	05:13 21:49	04:38 05:39-06:03/24 22:32
18	09:00 10:00-10:40/40 09:46-09:52/6 16:30 10:48-10:59/11	07:58 08:32-09:14/42 17:40 09:16-09:23/7	06:44 07:17-07:38/21 18:42	06:20 06:55-07:20/25 20:48	05:11 05:44-05:51/7 21:51	04:38 05:40-06:04/24 22:33
19	08:58 10:00-10:40/40 09:44-09:56/12 16:32 10:51-10:58/7	07:55 08:32-09:14/42 17:42	06:42 07:15-07:39/24 18:44	06:18 06:55-07:21/26 20:51	05:09 05:41-05:53/12 21:53	04:38 05:40-06:04/24 22:33
20	08:57 10:00-10:40/40 16:34 09:42-09:58/16	07:53 08:31-09:13/42 17:44	06:39 07:15-07:41/26 18:46	06:15 06:54-07:20/26 20:53 06:45-06:53/8	05:07 05:40-05:55/15 21:55	04:38 05:40-06:04/24 22:33
21	08:55 09:30-09:36/6 09:40-09:59/19 16:36 10:00-10:39/39	07:50 08:30-09:12/42 17:46	06:36 07:13-07:41/28 18:48	06:13 06:42-07:21/39 20:55	05:05 05:39-05:56/17 21:57	04:38 05:41-06:05/24 22:34
22	08:54 09:28-10:39/71 16:38	07:48 08:31-09:12/41 17:49	06:33 07:12-07:41/29 18:50	06:10 06:40-07:20/40 20:57	05:04 05:38-05:57/19 21:59	04:38 05:41-06:05/24 22:34
23	08:52 09:26-10:38/72 16:40	07:45 08:30-09:10/40 17:51	06:31 07:11-07:41/30 18:53	06:07 06:39-07:20/41 20:59	05:02 05:37-05:57/20 22:01	04:38 05:41-06:05/24 22:34
24	08:50 09:24-10:37/73 16:42	07:43 08:30-09:07/37 17:53	06:28 07:11-07:42/31 18:55	06:05 06:37-07:19/42 21:01	05:00 05:37-05:58/21 22:03	04:38 05:41-06:05/24 22:34
25	08:49 09:23-10:35/72 16:45	07:40 08:31-09:05/34 17:55	06:25 07:11-07:41/30 18:57	06:02 06:36-07:18/42 21:03	04:59 05:37-05:59/22 22:04	04:39 05:42-06:06/24 22:34
26	08:47 09:20-10:34/74 16:47	07:38 08:05-08:13/8 17:58 08:31-08:55/24	06:22 07:10-07:41/31 18:59	06:00 06:36-07:18/42 21:06	04:57 05:36-05:59/23 22:06	04:39 05:41-06:05/24 22:34
27	08:45 09:20-10:34/74 16:49	07:35 08:02-08:15/13 18:00 08:32-08:53/21	06:20 07:10-07:40/30 19:01	05:57 06:35-07:16/41 21:08	04:56 05:36-06:00/24 22:08	04:40 05:42-06:06/24 22:34
28	08:43 09:19-10:34/75 16:51	07:33 08:00-08:17/17 18:02 08:33-08:53/20	06:17 07:11-07:40/29 19:03	05:55 06:35-07:15/40 21:10	04:54 05:36-06:00/24 22:09	04:40 05:41-06:06/25 22:34
29	08:42 09:19-10:34/75 16:53		07:14 08:11-08:38/27 20:05	05:53 06:34-07:14/40 21:12	04:53 05:36-06:01/25 22:11	04:41 05:42-06:06/24 22:33
30	08:40 09:14-10:34/80 16:56		07:11 08:11-08:37/26 20:08	05:50 06:35-07:12/37 21:14	04:51 05:36-06:01/25 22:13	04:42 05:42-06:07/25 22:33
31	08:38 09:12-10:34/82 16:58		07:09 08:12-08:35/23 20:10		04:50 05:35-06:01/26 22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	1969	1709	642	636	494	737

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 3 - V-2_6 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:43 05:43-06:08/25 22:33	05:30 21:50	06:34 20:34	07:36 19:11	07:43 08:20-09:35/75 16:52	08:47 09:44-10:21/37 15:59 10:22-10:45/23
2	04:43 05:42-06:07/25 22:32	05:32 06:55-06:59/4 21:47	06:36 20:31	07:38 19:09	07:45 08:22-09:37/75 16:49	08:48 09:45-10:21/36 15:58 10:22-10:46/24
3	04:44 05:42-06:07/25 22:31	05:34 06:50-07:02/12 21:45	06:38 20:28	07:40 08:38-08:49/11 19:06	07:48 08:24-09:37/73 16:47	08:50 09:46-10:47/61 15:57
4	04:45 05:43-06:08/25 22:31	05:36 06:49-07:04/15 21:43	06:40 20:25	07:42 08:36-08:50/14 19:03	07:50 08:36-09:38/62 09:43-09:56/13 16:45 08:28-08:33/5	08:52 09:47-10:48/61 15:56
5	04:46 05:43-06:08/25 22:30	05:38 06:47-07:05/18 21:41	06:42 20:23	07:44 08:34-08:51/17 19:00	07:52 08:36-09:38/62 16:43 09:40-09:58/18	08:53 09:48-10:47/59 15:55
6	04:47 05:43-06:08/25 22:29	05:40 06:46-07:07/21 21:39	06:44 20:20	07:46 08:33-08:53/20 18:58	07:54 08:37-10:01/84 16:40	08:55 09:49-10:48/59 15:54
7	04:49 05:43-06:08/25 22:29	05:42 06:46-07:08/22 21:36	06:46 20:17	07:48 08:32-08:53/21 18:55	07:56 08:38-10:01/83 16:38	08:57 09:51-10:49/58 15:54
8	04:50 05:43-06:09/26 22:28	05:44 06:45-07:08/23 21:34	06:48 20:15	07:50 08:31-08:53/22 18:52	07:59 08:39-10:03/84 16:36	08:58 09:53-10:50/57 15:53
9	04:51 05:43-06:09/26 22:27	05:46 06:44-07:09/25 21:32	06:50 08:11-08:22/11 20:12	07:53 08:31-08:53/22 18:50	08:01 08:40-10:04/84 16:34	08:59 09:55-10:50/55 15:53
10	04:52 05:44-06:10/26 22:26	05:48 06:43-07:08/25 21:30	06:52 08:08-08:25/17 20:09	07:55 08:30-08:52/22 18:47	08:03 08:42-10:05/83 16:32	09:01 09:59-10:51/52 15:52
11	04:54 05:44-06:09/25 22:24	05:50 06:42-07:09/27 21:27	06:54 08:06-08:26/20 20:06	07:57 08:31-08:52/21 18:44 09:13-09:20/7	08:05 08:43-10:05/82 16:30	09:02 09:59-10:51/52 15:52
12	04:55 05:44-06:09/25 22:23	05:52 06:42-07:17/35 21:25	06:56 08:04-08:27/23 20:04	07:59 08:31-08:51/20 18:42 09:09-09:23/14	08:08 08:46-10:06/80 16:28	09:03 09:59-10:51/52 15:51
13	04:56 05:44-06:09/25 22:22	05:54 06:42-07:20/38 21:22	06:59 08:03-08:28/25 20:01	08:01 08:31-08:50/19 18:39 09:07-09:24/17	08:10 08:51-10:06/75 16:26	09:04 10:01-10:52/51 15:51
14	04:58 05:45-06:10/25 22:21	05:56 06:42-07:22/40 21:20	07:01 08:01-08:29/28 19:58	08:03 08:33-08:48/15 18:36 09:05-09:25/20	08:12 08:52-10:07/75 16:24	09:06 10:01-10:53/52 15:51
15	04:59 05:45-06:09/24 22:19	05:59 06:42-07:23/41 21:17	07:03 08:00-08:29/29 19:55	08:05 08:36-08:47/11 18:34 09:04-09:27/23	08:14 08:53-10:07/74 16:22	09:07 10:02-10:53/51 15:51
16	05:01 05:45-06:09/24 22:18	06:01 06:42-07:24/42 21:15	07:05 08:00-08:29/29 19:53	08:08 08:38-08:44/6 09:31-09:33/2 18:31 09:03-09:27/24	08:16 08:54-10:08/74 16:20	09:08 10:02-10:25/23 15:51 10:26-10:53/27
17	05:03 05:46-06:09/23 22:17	06:03 06:43-07:24/41 21:13	07:07 07:59-08:29/30 19:50	08:10 09:02-09:37/35 18:29	08:19 08:56-10:09/73 16:19	09:09 10:03-10:54/51 15:51
18	05:04 05:46-06:08/22 22:15	06:05 06:43-07:25/42 21:10	07:09 07:58-08:29/31 19:47	08:12 09:02-09:40/38 18:26	08:21 08:58-10:11/73 16:17	09:09 10:03-10:26/23 15:51 10:27-10:54/27
19	05:06 05:47-06:08/21 22:14	06:07 06:44-07:25/41 21:08	07:11 07:58-08:28/30 19:44	08:14 09:01-09:41/40 18:23	08:23 09:01-10:13/72 16:15	09:10 10:04-10:27/23 15:51 10:28-10:55/27
20	05:08 05:47-06:07/20 22:12	06:09 06:45-07:25/40 21:05	07:13 07:58-08:28/30 19:42	08:16 09:01-09:42/41 18:21	08:25 09:03-10:14/71 16:14	09:11 10:04-10:55/51 15:52
21	05:09 05:48-06:07/19 22:10	06:11 06:46-07:25/39 21:02	07:15 07:58-08:27/29 19:39	08:19 09:02-09:43/41 18:18	08:27 09:06-09:12/6 09:16-09:35/19 16:12 09:36-10:15/39	09:12 10:05-10:56/51 15:52
22	05:11 05:49-06:07/18 22:09	06:13 06:48-07:25/37 21:00	07:17 07:58-08:26/28 19:36	08:21 09:02-09:44/42 18:16	08:29 09:36-10:16/40 16:10 09:18-09:34/16	09:12 10:05-10:56/51 15:52
23	05:13 05:49-06:06/17 22:07	06:15 06:58-07:25/27 20:57 06:51-06:57/6	07:19 07:58-08:25/27 19:33	08:23 09:02-09:43/41 18:13	08:31 09:37-10:16/39 09:20-09:32/12 16:09 10:27-10:34/7	09:13 10:06-10:57/51 15:53
24	05:15 05:51-06:05/14 22:05	06:17 06:57-07:23/26 20:55	07:21 07:59-08:23/24 19:30	08:25 09:03-09:44/41 09:45-09:54/9 18:11 09:59-10:02/3	08:33 09:38-10:18/40 09:23-09:30/7 16:07 10:26-10:37/11	09:13 10:06-10:29/23 15:54 10:30-10:57/27
25	05:17 05:53-06:03/10 22:03	06:19 06:58-07:23/25 20:52	07:23 08:00-08:22/22 19:28	08:27 08:03-09:06/63 17:08	08:35 09:38-10:18/40 16:06 10:24-10:39/15	09:13 10:06-10:29/23 15:54 10:30-10:57/27
26	05:18 05:56-06:00/4 22:01	06:21 06:58-07:22/24 20:49	07:25 08:01-08:20/19 19:25	08:30 08:05-09:09/64 17:06	08:37 09:39-10:19/40 16:05 10:23-10:40/17	09:14 10:07-10:58/51 15:55
27	05:20 22:00	06:23 06:59-07:21/22 20:47	07:27 08:03-08:17/14 19:22	08:32 08:06-09:10/64 17:03	08:39 09:39-10:19/40 16:03 10:22-10:41/19	09:14 10:07-10:30/23 15:56 10:31-10:58/27
28	05:22 21:58	06:26 07:00-07:19/19 20:44	07:29 08:10-08:11/1 19:19	08:34 08:09-09:11/62 17:01 09:18-09:27/9	08:41 09:41-10:20/39 16:02 10:23-10:43/20	09:14 10:07-10:59/52 15:57
29	05:24 21:56	06:28 07:01-07:18/17 20:42	07:32 19:17	08:36 08:18-09:13/55 16:59 09:15-09:31/16	08:43 09:42-10:20/38 16:01 10:22-10:44/22	09:14 10:08-10:59/51 15:58
30	05:26 21:54	06:30 07:03-07:15/12 20:39	07:34 19:14	08:39 08:18-09:32/74 16:56	08:45 09:43-10:21/38 16:00 10:22-10:45/23	09:14 10:09-10:32/23 15:59 10:33-11:00/27
31	05:28 21:52	06:32 07:07-07:10/3 20:36		08:41 08:20-09:35/75 16:54		09:14 10:09-11:01/52 16:00
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	569	809	467	1161	2137	1651

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 4 - V-2_7 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 10:46-11:12/26	08:36 09:13-09:29/16	07:30 08:04-08:39/35	07:06	05:48	04:49
	16:01	17:00	18:04	20:12	21:16	22:16
2	09:13 10:46-11:12/26	08:34 09:11-09:30/19	07:27 08:00-08:40/40	07:03	05:45	04:48
	16:03	17:02	18:07	20:14	21:19	22:17
3	09:13 10:48-11:13/25	08:32 09:10-09:32/22	07:25 07:57-08:40/43	07:00	05:43	04:47
	16:04	17:05	18:09	20:16	21:21	22:19
4	09:13 10:48-11:13/25	08:30 09:10-09:33/23	07:22 07:49-08:40/51	06:58	05:41	04:45
	16:05	17:07	18:11	20:18	21:23	22:20
5	09:12 10:48-11:13/25	08:28 09:08-09:34/26	07:19 07:46-08:40/54	06:55	05:38	04:44
	16:07	17:09	18:13	20:20	21:25	22:21
6	09:12 10:49-11:13/24	08:25 09:08-09:35/27	07:17 07:44-08:40/56	06:52	05:36	04:44
	16:08	17:12	18:16	20:23	21:27	22:22
7	09:11 10:50-11:13/23	08:23 08:59-09:02/3	07:14 07:44-08:39/55	06:50	05:34	04:43
	16:10	17:14 09:08-09:36/28	18:18	20:25	21:29	22:24
8	09:10 10:50-11:13/23	08:21 08:54-09:06/12	07:11 07:42-08:39/57	06:47	05:32	04:42
	16:11	17:16 09:07-09:36/29	18:20	20:27	21:31	22:25
9	09:09 10:51-11:13/22	08:19 08:52-09:36/44	07:09 07:41-08:38/57	06:44	05:29	04:41
	16:13	17:19	18:22	20:29	21:33	22:26
10	09:09 10:52-11:13/21	08:17 08:50-09:36/46	07:06 07:41-08:37/56	06:42	05:27	04:40
	16:15	17:21	18:24	20:31	21:35	22:27
11	09:08 10:54-11:13/19	08:14 08:49-09:37/48	07:03 07:30-08:36/66	06:39 07:05-07:14/9	05:25	04:40
	16:16	17:23	18:27	20:33	21:37	22:28
12	09:07 10:55-11:13/18	08:12 08:48-09:36/48	07:01 07:27-08:35/68	06:36 07:02-07:16/14	05:23	04:39
	16:18	17:26	18:29	20:36	21:39	22:29
13	09:06 10:56-11:12/16	08:10 08:48-09:36/48	06:58 07:25-08:33/68	06:34 07:01-07:18/17	05:21	04:39
	16:20	17:28	18:31	20:38	21:42	22:30
14	09:05 10:58-11:12/14	08:07 08:47-09:35/48	06:55 07:24-08:31/67	06:31 06:59-07:18/19	05:19	04:38
	16:22	17:30	18:33	20:40	21:44	22:30
15	09:03 10:59-11:10/11	08:05 08:47-09:35/48	06:53 07:18-08:28/70	06:28 06:58-07:20/22	05:17	04:38
	16:24	17:33	18:35	20:42	21:46	22:31
16	09:02 11:03-11:08/5	08:03 08:46-09:34/48	06:50 07:16-08:15/59	06:26 06:57-07:19/22	05:15	04:38
	16:26	17:35	18:37 08:19-08:23/4	20:44	21:48	22:32
17	09:01	08:00 08:47-09:34/47	06:47 07:13-08:14/61	06:23 06:57-07:20/23	05:13	04:38
	16:28	17:37	18:40	20:46	21:50	22:32
18	09:00	07:58 08:46-09:32/46	06:44 07:11-08:12/61	06:20 06:56-07:19/23	05:11	04:38
	16:30	17:39	18:42	20:48	21:51	22:33
19	08:58	07:55 08:47-09:31/44	06:42 07:10-08:09/59	06:18 06:56-07:20/24	05:09	04:37
	16:32	17:42	18:44	20:51	21:53	22:33
20	08:57	07:53 08:47-09:13/26	06:39 07:10-07:44/34 07:57-08:06/9	06:15 06:56-07:19/23	05:07	04:37
	16:34	17:44 09:15-09:28/13	18:46 07:48-07:56/8	20:53	21:55	22:33
21	08:55	07:50 08:47-09:12/25	06:36 07:09-07:43/34	06:13 06:56-07:19/23	05:05	04:38
	16:36	17:46	18:48	20:55	21:57	22:34
22	08:54	07:48 08:49-09:11/22	06:33 07:09-07:41/32	06:10 06:56-07:17/21	05:04	04:38
	16:38	17:49	18:50	20:57	21:59	22:34
23	08:52	07:45 08:13-08:21/8	06:31 07:08-07:39/31	06:07 06:57-07:17/20	05:02	04:38
	16:40	17:51 08:49-09:10/21	18:53	20:59	22:01	22:34
24	08:50	07:43 08:10-08:31/21	06:28 07:09-07:38/29	06:05 06:57-07:15/18	05:00	04:38
	16:42	17:53 08:50-09:08/18	18:55	21:01	22:03	22:34
25	08:49	07:40 08:08-08:35/27	06:25 07:09-07:33/24	06:02 06:59-07:14/15	04:59	04:39
	16:45	17:55 08:53-09:06/13	18:57	21:03	22:04	22:34
26	08:47	07:38 08:06-08:36/30	06:22 07:10-07:28/18	06:00 07:01-07:12/11	04:57	04:39
	16:47	17:58 08:58-09:00/2	18:59	21:06	22:06	22:34
27	08:45	07:35 08:05-08:37/32	06:20 07:10-07:26/16	05:57 07:04-07:07/3	04:56	04:40
	16:49	18:00	19:01	21:08	22:08	22:34
28	08:43	07:33 08:05-08:39/34	06:17 07:13-07:24/11	05:55	04:54	04:40
	16:51	18:02	19:03	21:10	22:09	22:34
29	08:42		07:14	05:53	04:53	04:41
	16:53		20:05	21:12	22:11	22:33
30	08:40		07:11	05:50	04:51	04:42
	16:56		20:08	21:14	22:13	22:33
31	08:38 09:15-09:26/11		07:09		04:50	
	16:58		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	334	1012	1333	307	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 4 - V-2_7 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August		September		October		November		December	
1	04:42	05:30		06:34	07:04-07:13/9	07:36	08:06-09:14/68	07:43	08:20-09:06/46	08:47	10:36-10:55/19
	22:33	21:50		20:34		19:11		16:52		15:59	
2	04:43	05:32		06:36		07:38	08:07-09:15/68	07:45	08:22-09:06/44	08:48	10:36-10:56/20
	22:32	21:47		20:31		19:08		16:49		15:58	
3	04:44	05:34		06:38		07:40	08:19-09:15/56	07:48	08:24-08:35/11	08:50	10:36-10:57/21
	22:32	21:45		20:28		19:06	08:10-08:16/6	16:47	08:37-09:05/28	15:57	
4	04:45	05:36		06:40		07:42	08:18-09:15/57	07:50	08:38-09:05/27	08:52	10:36-10:58/22
	22:31	21:43		20:25		19:03		16:45		15:56	
5	04:46	05:38		06:42		07:44	08:18-09:15/57	07:52	08:38-09:04/26	08:53	10:36-10:59/23
	22:30	21:41		20:23		19:00		16:43		15:55	
6	04:47	05:40		06:44		07:46	08:19-09:16/57	07:54	08:39-09:04/25	08:55	10:35-10:59/24
	22:29	21:39		20:20		18:58		16:40		15:54	
7	04:48	05:42		06:46		07:48	08:20-09:16/56	07:56	08:40-09:03/23	08:57	10:35-11:00/25
	22:29	21:36		20:17		18:55		16:38		15:54	
8	04:50	05:44		06:48		07:50	08:21-09:16/55	07:59	08:41-09:02/21	08:58	10:36-11:01/25
	22:28	21:34		20:15		18:52		16:36		15:53	
9	04:51	05:46		06:50		07:53	08:22-09:15/53	08:01	08:42-09:01/19	08:59	10:36-11:01/25
	22:27	21:32		20:12		18:50		16:34		15:53	
10	04:52	05:48		06:52		07:55	08:24-09:14/50	08:03	08:44-09:00/16	09:01	10:36-11:02/26
	22:26	21:29		20:09		18:47		16:32		15:52	
11	04:54	05:50		06:54		07:57	08:33-09:14/41	08:05	08:46-08:57/11	09:02	10:36-11:02/26
	22:24	21:27		20:06		18:44		16:30		15:52	
12	04:55	05:52		06:56		07:59	08:37-09:13/36	08:08		09:03	10:36-11:03/27
	22:23	21:25		20:04		18:42		16:28		15:51	
13	04:56	05:54		06:58		08:01	08:37-09:12/35	08:10		09:05	10:37-11:04/27
	22:22	21:22		20:01		18:39		16:26		15:51	
14	04:58	05:56		07:01		08:03	08:37-09:10/33	08:12		09:06	10:37-11:04/27
	22:21	21:20		19:58		18:36		16:24		15:51	
15	04:59	05:59		07:03	08:03-08:13/10	08:05	08:38-09:10/32	08:14		09:07	10:38-11:05/27
	22:19	21:17		19:55		18:34		16:22		15:51	
16	05:01	06:01	07:10-07:16/6	07:05	08:00-08:15/15	08:08	08:39-09:08/29	08:16		09:08	10:38-11:05/27
	22:18	21:15		19:53		18:31	09:27-09:35/8	16:20		15:51	
17	05:03	06:03	07:07-07:19/12	07:07	07:58-08:16/18	08:10	08:40-09:05/25	08:19		09:09	10:39-11:06/27
	22:17	21:13		19:50		18:28	09:23-09:38/15	16:19		15:51	
18	05:04	06:05	07:05-07:21/16	07:09	07:57-08:17/20	08:12	08:43-09:02/19	08:21		09:09	10:39-11:06/27
	22:15	21:10		19:47		18:26	09:22-09:40/18	16:17		15:51	
19	05:06	06:07	07:03-07:22/19	07:11	07:56-08:24/28	08:14	08:45-08:51/6	08:23		09:10	10:40-11:07/27
	22:14	21:08		19:44		18:23	09:20-09:41/21	16:15		15:51	
20	05:08	06:09	07:02-07:23/21	07:13	07:55-08:26/31	08:16	09:19-09:42/23	08:25		09:11	10:40-11:07/27
	22:12	21:05		19:41		18:21		16:13		15:52	
21	05:09	06:11	07:01-07:23/22	07:15	07:54-08:27/33	08:19	09:18-09:43/25	08:27		09:12	10:41-11:08/27
	22:10	21:02		19:39		18:18	09:49-09:56/7	16:12		15:52	
22	05:11	06:13	07:01-07:23/22	07:17	07:54-08:27/33	08:21	09:17-09:43/26	08:29		09:12	10:40-11:08/28
	22:09	21:00		19:36		18:16	09:45-09:59/14	16:10		15:52	
23	05:13	06:15	07:00-07:24/24	07:19	07:54-08:28/34 08:42-08:48/6	08:23	09:16-10:01/45	08:31		09:13	10:42-11:09/27
	22:07	20:57		19:33	08:34-08:37/3	18:13		16:09		15:53	
24	05:15	06:17	06:59-07:22/23	07:21	07:54-08:28/34	08:25	09:17-10:03/46	08:33		09:13	10:42-11:09/27
	22:05	20:55		19:30	08:29-08:52/23	18:11		16:07		15:54	
25	05:16	06:19	06:59-07:22/23	07:23	07:54-08:54/60	07:27	08:16-09:03/47	08:35		09:13	10:42-11:09/27
	22:03	20:52		19:28		17:08		16:06		15:54	
26	05:18	06:21	06:59-07:22/23	07:25	07:54-08:55/61	07:30	08:17-09:05/48	08:37	10:41-10:46/5	09:14	10:42-11:09/27
	22:02	20:49		19:25		17:06		16:05		15:55	
27	05:20	06:23	06:59-07:21/22	07:27	07:56-08:56/60	07:32	08:16-09:05/49	08:39	10:38-10:49/11	09:14	10:43-11:10/27
	22:00	20:47		19:22		17:03		16:03		15:56	
28	05:22	06:26	06:59-07:20/21	07:29	07:59-09:08/69	07:34	08:16-09:05/49	08:41	10:38-10:52/14	09:14	10:43-11:10/27
	21:58	20:44		19:19		17:01		16:02		15:57	
29	05:24	06:28	07:00-07:19/19	07:32	08:04-09:11/67	07:36	08:17-09:06/49	08:43	10:37-10:53/16	09:14	10:44-11:11/27
	21:56	20:42		19:17		16:59		16:01		15:58	
30	05:26	06:30	07:01-07:18/17	07:34	08:05-09:13/68	07:39	08:18-09:06/48	08:45	10:36-10:54/18	09:14	10:45-11:12/27
	21:54	20:39		19:14		16:56		16:00		15:59	
31	05:28	06:32	07:02-07:16/14			07:41	08:19-09:06/47			09:14	10:46-11:12/26
	21:52	20:36				16:54				16:00	
Potential sun hours	534	472		385		322		244		211	
Sum of minutes with flicker	0	304		682		1424		361		796	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 5 - V-2_8 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May	June
1	09:14		08:36	09:33-09:53/20	07:30		07:06	05:48	04:49
	16:01		17:00		18:04		20:12	21:16	22:16
2	09:13		08:34	09:33-09:52/19	07:27		07:03	05:45	04:48
	16:03		17:02		18:07		20:14	21:18	22:17
3	09:13		08:32	09:34-09:52/18	07:25		07:00	05:43	04:46
	16:04		17:05		18:09		20:16	21:21	22:19
4	09:13		08:30	09:36-09:51/15	07:22		06:58	05:41	04:45
	16:05		17:07		18:11		20:18	21:23	22:20
5	09:12		08:28	09:37-09:49/12	07:19		06:55	05:38	04:44
	16:07		17:09		18:13		20:20	21:25	22:21
6	09:11		08:25	09:40-09:46/6	07:17		06:52	05:36	04:43
	16:08		17:12		18:16		20:23	21:27	22:22
7	09:11		08:23		07:14		06:50	05:34	04:43
	16:10		17:14		18:18		20:25	21:29	22:24
8	09:10		08:21		07:11		06:47	05:31	04:42
	16:11		17:16		18:20		20:27	21:31	22:25
9	09:09		08:19		07:09		06:44	05:29	04:41
	16:13		17:19		18:22		20:29	21:33	22:26
10	09:09		08:17		07:06	07:32-07:40/8	06:41	05:27	04:40
	16:15		17:21		18:24		20:31	21:35	22:27
11	09:08		08:14		07:03	07:29-07:42/13	06:39	05:25	04:40
	16:16		17:23		18:27		20:33	21:37	22:28
12	09:07		08:12		07:01	07:27-07:44/17	06:36	05:23	04:39
	16:18		17:26		18:29		20:35	21:39	22:29
13	09:06		08:10		06:58	07:25-07:44/19	06:33	05:21	04:39
	16:20		17:28		18:31		20:38	21:41	22:30
14	09:04		08:07		06:55	07:24-07:45/21	06:31	05:19	04:38
	16:22		17:30		18:33		20:40	21:44	22:30
15	09:03		08:05		06:52	07:23-07:44/21	06:28	05:17	04:38
	16:24		17:32		18:35		20:42	21:46	22:31
16	09:02	09:39-09:40/1	08:03		06:50	07:23-07:45/22	06:26	05:15	04:38
	16:26		17:35		18:37		20:44	21:47	22:32
17	09:01	09:37-09:43/6	08:00		06:47	07:23-07:45/22	06:23	05:13	04:38
	16:28		17:37		18:40		20:46	21:49	22:32
18	09:00	09:35-09:45/10	07:58		06:44	07:22-07:44/22	06:20	05:11	04:37
	16:30		17:39		18:42		20:48	21:51	22:33
19	08:58	09:34-09:47/13	07:55		06:42	07:22-07:43/21	06:18	05:09	04:37
	16:32		17:42		18:44		20:51	21:53	22:33
20	08:57	09:32-09:48/16	07:53		06:39	07:24-07:42/18	06:15	05:07	04:37
	16:34		17:44		18:46		20:53	21:55	22:33
21	08:55	09:31-09:49/18	07:50		06:36	07:24-07:40/16	06:13	05:05	04:38
	16:36		17:46		18:48		20:55	21:57	22:34
22	08:54	09:30-09:50/20	07:48		06:33	07:26-07:38/12	06:10	05:04	04:38
	16:38		17:49		18:50		20:57	21:59	22:34
23	08:52	09:30-09:50/20	07:45		06:31	07:29-07:34/5	06:07	05:02	04:38
	16:40		17:51		18:53		20:59	22:01	22:34
24	08:50	09:30-09:51/21	07:43		06:28		06:05	05:00	04:38
	16:42		17:53		18:55		21:01	22:03	22:34
25	08:49	09:30-09:52/22	07:40		06:25		06:02	04:59	04:39
	16:44		17:55		18:57		21:03	22:04	22:34
26	08:47	09:30-09:52/22	07:38		06:22		06:00	04:57	04:39
	16:47		17:58		18:59		21:06	22:06	22:34
27	08:45	09:30-09:53/23	07:35		06:20		05:57	04:56	04:40
	16:49		18:00		19:01		21:08	22:08	22:34
28	08:43	09:30-09:53/23	07:33		06:17		05:55	04:54	04:40
	16:51		18:02		19:03		21:10	22:09	22:34
29	08:42	09:30-09:53/23			07:14		05:52	04:53	04:41
	16:53				20:05		21:12	22:11	22:33
30	08:40	09:31-09:53/22			07:11		05:50	04:51	04:42
	16:56				20:08		21:14	22:13	22:33
31	08:38	09:32-09:53/21			07:09			04:50	
	16:58				20:10			22:14	
Potential sun hours	231		264		366		428	512	534
Sum of minutes with flicker	281		90		237		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 5 - V-2_8 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September		October		November		December
1	04:42	05:30	06:34		07:36	08:05-08:23/18	07:43		08:47
	22:33	21:50	20:33		19:11		16:52		15:59
2	04:43	05:32	06:36		07:38	08:07-08:22/15	07:45		08:48
	22:32	21:47	20:31		19:08		16:49		15:58
3	04:44	05:34	06:38		07:40	08:09-08:19/10	07:47		08:50
	22:31	21:45	20:28		19:06		16:47		15:57
4	04:45	05:36	06:40		07:42	08:11-08:15/4	07:50		08:52
	22:31	21:43	20:25		19:03		16:45		15:56
5	04:46	05:38	06:42		07:44		07:52	09:09-09:16/7	08:53
	22:30	21:41	20:23		19:00		16:43		15:55
6	04:47	05:40	06:44		07:46		07:54	09:07-09:20/13	08:55
	22:29	21:39	20:20		18:58		16:40		15:54
7	04:48	05:42	06:46		07:48		07:56	09:05-09:21/16	08:56
	22:28	21:36	20:17		18:55		16:38		15:54
8	04:50	05:44	06:48		07:50		07:59	09:05-09:23/18	08:58
	22:28	21:34	20:14		18:52		16:36		15:53
9	04:51	05:46	06:50		07:53		08:01	09:03-09:23/20	08:59
	22:27	21:32	20:12		18:50		16:34		15:52
10	04:52	05:48	06:52		07:55		08:03	09:03-09:24/21	09:01
	22:26	21:29	20:09		18:47		16:32		15:52
11	04:53	05:50	06:54		07:57		08:05	09:03-09:24/21	09:02
	22:24	21:27	20:06		18:44		16:30		15:52
12	04:55	05:52	06:56		07:59		08:08	09:03-09:25/22	09:03
	22:23	21:25	20:04		18:42		16:28		15:51
13	04:56	05:54	06:58		08:01		08:10	09:02-09:25/23	09:04
	22:22	21:22	20:01		18:39		16:26		15:51
14	04:58	05:56	07:00		08:03		08:12	09:03-09:26/23	09:06
	22:21	21:20	19:58		18:36		16:24		15:51
15	04:59	05:58	07:03		08:05		08:14	09:03-09:26/23	09:07
	22:19	21:17	19:55		18:34		16:22		15:51
16	05:01	06:01	07:05		08:08		08:16	09:04-09:26/22	09:08
	22:18	21:15	19:52		18:31		16:20		15:51
17	05:02	06:03	07:07		08:10		08:19	09:04-09:26/22	09:09
	22:17	21:12	19:50		18:28		16:19		15:51
18	05:04	06:05	07:09		08:12		08:21	09:04-09:25/21	09:09
	22:15	21:10	19:47		18:26		16:17		15:51
19	05:06	06:07	07:11		08:14		08:23	09:05-09:25/20	09:10
	22:14	21:07	19:44		18:23		16:15		15:51
20	05:07	06:09	07:13		08:16		08:25	09:05-09:25/20	09:11
	22:12	21:05	19:41		18:21		16:13		15:52
21	05:09	06:11	07:15	08:12-08:23/11	08:18		08:27	09:07-09:25/18	09:12
	22:10	21:02	19:39		18:18		16:12		15:52
22	05:11	06:13	07:17	08:09-08:25/16	08:21		08:29	09:08-09:24/16	09:12
	22:09	21:00	19:36		18:16		16:10		15:52
23	05:13	06:15	07:19	08:08-08:26/18	08:23		08:31	09:10-09:23/13	09:13
	22:07	20:57	19:33		18:13		16:09		15:53
24	05:15	06:17	07:21	08:06-08:26/20	08:25		08:33	09:13-09:23/10	09:13
	22:05	20:55	19:30		18:11		16:07		15:53
25	05:16	06:19	07:23	08:05-08:26/21	07:27		08:35	09:15-09:21/6	09:13
	22:03	20:52	19:28		17:08		16:06		15:54
26	05:18	06:21	07:25	08:05-08:26/21	07:30		08:37	09:17-09:18/1	09:14
	22:01	20:49	19:25		17:06		16:05		15:55
27	05:20	06:23	07:27	08:04-08:26/22	07:32		08:39		09:14
	22:00	20:47	19:22		17:03		16:03		15:56
28	05:22	06:25	07:29	08:04-08:25/21	07:34		08:41		09:14
	21:58	20:44	19:19		17:01		16:02		15:57
29	05:24	06:28	07:31	08:05-08:26/21	07:36		08:43		09:14
	21:56	20:41	19:17		16:59		16:01		15:58
30	05:26	06:30	07:34	08:05-08:25/20	07:38		08:45		09:14
	21:54	20:39	19:14		16:56		16:00		15:59
31	05:28	06:32			07:41				09:14
	21:52	20:36			16:54				16:00
Potential sun hours	534	472	385		322		244		211
Sum of minutes with flicker	0	0	191		47		376		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 6 - V-2_9 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June	July	August	September	October	November		December	
1	09:14		08:36	15:12-15:39/27	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43		08:47	14:54-15:10/16
	16:01		17:00		18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:51		15:59	
2	09:13		08:34	15:13-15:39/26	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45		08:48	14:55-15:09/14
	16:02		17:02		18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49		15:58	
3	09:13		08:32	15:14-15:38/24	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47		08:50	14:57-15:08/11
	16:04		17:05		18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47		15:57	
4	09:13		08:30	15:15-15:37/22	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	14:51-15:01/10	08:52	14:59-15:06/7
	16:05		17:07		18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45		15:56	
5	09:12		08:28	15:17-15:36/19	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	14:48-15:04/16	08:53	
	16:07		17:09		18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42		15:55	
6	09:11		08:25	15:19-15:34/15	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	14:46-15:06/20	08:55	
	16:08		17:12		18:15	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:40		15:54	
7	09:11		08:23	15:21-15:31/10	07:14	06:50	05:34	04:43	04:48	05:42	06:46	07:48	07:56	14:45-15:08/23	08:56	
	16:10		17:14		18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38		15:54	
8	09:10	15:15-15:21/6	08:21		07:11	06:47	05:31	04:42	04:50	05:44	06:48	07:50	07:59	14:44-15:08/24	08:58	
	16:11		17:16		18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36		15:53	
9	09:09	15:13-15:24/11	08:19		07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	14:44-15:10/26	08:59	
	16:13		17:19		18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:49	16:34		15:52	
10	09:08	15:12-15:26/14	08:17		07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	14:42-15:10/28	09:01	
	16:15		17:21		18:24	20:31	21:35	22:27	22:26	21:29	20:09	18:47	16:32		15:52	
11	09:08	15:12-15:28/16	08:14		07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:05	14:43-15:11/28	09:02	
	16:16		17:23		18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30		15:52	
12	09:07	15:11-15:29/18	08:12		07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:08	14:42-15:11/29	09:03	
	16:18		17:26		18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28		15:51	
13	09:06	15:10-15:30/20	08:10		06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	14:42-15:12/30	09:04	
	16:20		17:28		18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26		15:51	
14	09:04	15:10-15:32/22	08:07		06:55	06:31	05:19	04:38	04:58	05:56	07:00	08:03	08:12	14:42-15:12/30	09:06	
	16:22		17:30		18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24		15:51	
15	09:03	15:10-15:32/22	08:05		06:52	06:28	05:17	04:38	04:59	05:58	07:03	08:05	08:14	14:42-15:13/31	09:07	
	16:24		17:32		18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22		15:51	
16	09:02	15:10-15:34/24	08:03		06:50	06:25	05:15	04:38	05:01	06:00	07:05	08:08	08:16	14:42-15:12/30	09:08	
	16:26		17:35		18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20		15:51	
17	09:01	15:09-15:35/26	08:00		06:47	06:23	05:13	04:38	05:02	06:03	07:07	08:10	08:18	14:43-15:13/30	09:09	
	16:28		17:37		18:40	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18		15:51	
18	08:59	15:09-15:35/26	07:58		06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	14:42-15:13/31	09:09	
	16:30		17:39		18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17		15:51	
19	08:58	15:09-15:37/28	07:55		06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	14:43-15:13/30	09:10	
	16:32		17:42		18:44	20:50	21:53	22:33	22:14	21:07	19:44	18:23	16:15		15:51	
20	08:57	15:09-15:37/28	07:53		06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	14:43-15:13/30	09:11	
	16:34		17:44		18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:13		15:51	
21	08:55	15:09-15:38/29	07:50		06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	14:44-15:13/29	09:11	
	16:36		17:46		18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12		15:52	
22	08:54	15:08-15:38/30	07:48		06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29	14:45-15:13/28	09:12	
	16:38		17:49		18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10		15:52	
23	08:52	15:08-15:38/30	07:45		06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	14:45-15:13/28	09:13	
	16:40		17:51		18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09		15:53	
24	08:50	15:08-15:39/31	07:43		06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	14:46-15:12/26	09:13	
	16:42		17:53		18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07		15:53	
25	08:49	15:09-15:39/30	07:40		06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:27	08:35	14:47-15:13/26	09:13	
	16:44		17:55		18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06		15:54	
26	08:47	15:09-15:39/30	07:38		06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	14:48-15:12/24	09:14	
	16:47		17:58		18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04		15:55	
27	08:45	15:09-15:40/31	07:35		06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39	14:49-15:12/23	09:14	
	16:49		18:00		19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03		15:56	
28	08:43	15:10-15:40/30	07:32		06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	14:49-15:11/22	09:14	
	16:51		18:02		19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02		15:57	
29	08:42	15:10-15:40/30			07:14	05:52	04:53	04:41	05:24	06:27	07:31	07:36	08:43	14:50-15:10/20	09:14	
	16:53				20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:59	16:01		15:58	
30	08:40	15:11-15:40/29			07:11	05:50	04:51	04:42	05:26	06:30	07:33	07:38	08:45	14:53-15:11/18	09:14	
	16:56				20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00		15:59	
31	08:38	15:12-15:40/28			07:09		04:50		05:28	06:32		07:41			09:14	
	16:58				20:10		22:14		21:52	20:36		16:54			16:00	
Potential sun hours	231		264		366	428	512	534	534	472	385	322	244		211	
Sum of minutes with flicker	589		143		0	0	0	0	0	0	0	0	690		48	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 7 - V-2_10 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 11:43-12:11/28 13:28-13:41/13	08:36 09:13-09:34/21 09:38-09:56/18	07:30 15:54-17:16/82	07:06 19:08-19:28/20	05:48	04:49
	16:01 14:19-14:44/25	17:00 15:21-15:53/32	18:04 17:25-17:32/7	20:12	21:16	22:16
2	09:13 11:43-12:10/27 13:29-13:40/11	08:34 09:12-09:34/22 09:38-09:55/17	07:27 15:54-17:15/81	07:03 19:09-19:27/18	05:45	04:47
	16:02 14:19-14:44/25	17:02 15:22-15:53/31	18:07 17:21-17:35/14	20:14	21:18	22:17
3	09:13 11:45-12:11/26 13:31-13:40/9	08:32 09:12-09:35/23 09:40-09:54/14	07:25 16:44-17:15/31 17:18-17:36/18	07:00 19:10-19:26/16	05:43	04:46
	16:04 14:20-14:45/25	17:05 15:23-15:53/30	18:09 15:54-16:43/49	20:16	21:21	22:19
4	09:13 11:45-12:11/26 13:33-13:38/5	08:30 09:12-09:36/24 09:43-09:52/9	07:22 16:45-17:14/29 17:16-17:37/21	06:58 19:11-19:23/12	05:40	04:45
	16:05 14:20-14:45/25	17:07 15:24-15:52/28	18:11 15:54-16:43/49	20:18	21:23	22:20
5	09:12 11:46-12:11/25	08:28 09:11-09:35/24	07:19 16:47-17:13/26 17:16-17:39/23	06:55 19:14-19:19/5	05:38	04:44
	16:07 14:20-14:46/26	17:09 15:25-15:51/26	18:13 15:54-16:43/49	20:20	21:25	22:21
6	09:11 11:46-12:11/25	08:25 09:12-09:36/24	07:17 16:48-17:12/24 17:15-17:39/24	06:52	05:36	04:43
	16:08 14:21-14:46/25	17:12 15:27-15:50/23	18:15 15:54-16:42/48	20:23	21:27	22:22
7	09:11 11:47-12:10/23	08:23 09:12-09:36/24	07:14 16:50-17:10/20 17:14-17:39/25	06:49	05:34	04:42
	16:10 14:21-14:46/25	17:14 15:29-15:48/19	18:18 15:55-16:41/46	20:25	21:29	22:24
8	09:10 11:48-12:10/22	08:21 09:12-09:35/23	07:11 16:51-17:08/17 17:13-17:39/26	06:47	05:31	04:42
	16:11 14:22-14:46/24	17:16 15:33-15:47/14	18:20 15:56-16:41/45	20:27	21:31	22:25
9	09:09 11:50-12:10/20	08:19 09:13-09:35/22	07:09 16:55-17:06/11 17:13-17:40/27	06:44	05:29	04:41
	16:13 14:23-14:47/24	17:19 15:38-15:44/6	18:22 15:56-16:39/43	20:29	21:33	22:26
10	09:08 11:51-12:10/19	08:17 09:13-09:34/21	07:06 15:57-16:38/41	06:41	05:27	04:40
	16:14 14:23-14:47/24	17:21	18:24 17:13-17:39/26	20:31	21:35	22:27
11	09:08 11:53-12:09/16	08:14 09:14-09:34/20	07:03 15:58-16:36/38	06:39	05:25	04:40
	16:16 14:24-14:47/23	17:23	18:26 17:12-17:39/27	20:33	21:37	22:28
12	09:07 11:55-12:09/14 14:25-14:47/22	08:12 09:15-09:32/17	07:01 15:59-16:35/36	06:36	05:23	04:39
	16:18 15:27-15:30/3	17:25	18:29 17:12-17:38/26	20:35	21:39	22:29
13	09:06 11:56-12:06/10 14:26-14:47/21	08:10 09:17-09:31/14	06:58 16:01-16:34/33	06:33	05:21	04:39
	16:20 15:25-15:34/9	17:28 16:13-16:28/15	18:31 17:14-17:37/23	20:38	21:41	22:30
14	09:04 12:02-12:03/1 14:27-14:47/20	08:07 09:19-09:28/9	06:55 16:03-16:31/28	06:31	05:19	04:38
	16:22 15:24-15:36/12 09:42-09:45/3	17:30 16:09-16:31/22	18:33 17:14-17:36/22	20:40	21:43	22:30
15	09:03 15:22-15:38/16 09:40-09:47/7	08:05 16:07-16:34/27	06:52 16:05-16:28/23	06:28	05:17	04:38
	16:24 14:28-14:46/18	17:32	18:35 17:15-17:34/19	20:42	21:45	22:31
16	09:02 15:22-15:41/19 09:39-09:49/10	08:03 16:05-16:36/31	06:50 16:09-16:24/15	06:25	05:15	04:38
	16:26 14:30-14:46/16	17:35	18:37 17:16-17:32/16	20:44	21:47	22:32
17	09:01 15:21-15:43/22 09:37-09:50/13	08:00 16:54-17:00/6	06:47 17:19-17:30/11	06:23	05:13	04:37
	16:28 14:31-14:45/14	17:37 16:03-16:37/34	18:40	20:46	21:49	22:32
18	08:59 15:20-15:44/24 09:35-09:51/16	07:58 16:51-17:04/13	06:44	06:20	05:11	04:37
	16:30 14:32-14:43/11	17:39 16:02-16:39/37	18:42	20:48	21:51	22:33
19	08:58 15:20-15:46/26 09:35-09:53/18	07:55 16:48-17:06/18	06:41	06:18	05:09	04:37
	16:32 14:36-14:42/6	17:42 16:00-16:40/40	18:44	20:50	21:53	22:33
20	08:57 15:20-15:47/27	07:53 16:47-17:09/22	06:39	06:15	05:07	04:37
	16:34 09:34-09:54/20	17:44 16:00-16:41/41	18:46	20:53	21:55	22:33
21	08:55 15:20-15:48/28	07:50 16:46-17:11/25	06:36	06:12	05:05	04:37
	16:36 09:34-09:54/20	17:46 15:58-16:42/44	18:48	20:55	21:57	22:34
22	08:54 15:19-15:49/30	07:48 16:44-17:12/28	06:33	06:10	05:03	04:38
	16:38 09:33-09:55/22	17:48 15:57-16:42/45	18:50	20:57	21:59	22:34
23	08:52 15:19-15:50/31	07:45 16:44-17:14/30	06:31 18:16-18:24/8	06:07	05:02	04:38
	16:40 09:33-09:55/22	17:51 15:57-16:43/46	18:52	20:59	22:01	22:34
24	08:50 15:19-15:50/31	07:43 15:56-17:14/78	06:28 18:13-18:26/13	06:05	05:00	04:38
	16:42 09:33-09:56/23	17:53	18:55	21:01	22:03	22:34
25	08:49 15:19-15:51/32	07:40 15:55-17:15/80	06:25 18:11-18:28/17	06:02	04:58	04:39
	16:44 09:33-09:56/23	17:55	18:57	21:03	22:04	22:34
26	08:47 15:19-15:51/32	07:38 15:55-17:16/81	06:22 18:11-18:30/19	06:00	04:57	04:39
	16:47 09:34-09:56/22	17:58	18:59	21:06	22:06	22:34
27	08:45 09:18-09:26/8 09:34-09:57/23	07:35 15:54-17:16/82	06:20 18:09-18:30/21	05:57	04:55	04:39
	16:49 15:19-15:52/33	18:00	19:01	21:08	22:08	22:34
28	08:43 09:16-09:28/12 09:34-09:57/23	07:32 15:54-17:15/81	06:17 18:08-18:30/22	05:55	04:54	04:40
	16:51 15:20-15:52/32	18:02	19:03	21:10	22:09	22:34
29	08:42 09:14-09:30/16 09:35-09:57/22		07:14 19:08-19:30/22	05:52	04:53	04:41
	16:53 15:20-15:53/33		20:05	21:12	22:11	22:33
30	08:40 09:14-09:32/18 09:36-09:57/21		07:11 19:08-19:30/22	05:50	04:51	04:41
	16:56 15:21-15:53/32		20:08	21:14	22:13	22:33
31	08:38 09:13-09:33/20 09:37-09:57/20		07:09 19:08-19:29/21		04:50	
	16:58 15:21-15:53/32		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	1625	1481	1384	71	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 7 - V-2_10 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:34	07:36 16:40-17:14/34	07:43 08:42-09:04/22	08:47 11:35-11:51/16
	22:33	21:49	20:33	19:11 17:53-18:17/24	16:51	15:58 14:07-14:29/22
2	04:43	05:32	06:36	07:38 16:38-17:15/37	07:45 08:42-09:05/23	08:48 11:34-11:53/19
	22:32	21:47	20:31	19:08 17:52-18:17/25	16:49 15:06-15:14/8	15:57 14:07-14:30/23
3	04:44	05:34	06:38	07:40 16:36-17:16/40	07:47 08:42-09:05/23	08:50 11:34-11:54/20
	22:31	21:45	20:28	19:06 17:51-18:17/26	16:47 15:02-15:17/15	15:57 14:07-14:31/24
4	04:45	05:36	06:40	07:42 17:34-17:41/7 17:50-18:17/27	07:50 08:42-09:06/24	08:52 11:34-11:55/21
	22:31	21:43	20:25	19:03 16:34-17:16/42	16:45 14:58-15:18/20	15:56 14:07-14:31/24
5	04:46	05:38	06:42	07:44 17:30-17:44/14 17:50-18:16/26	07:52 08:41-09:05/24	08:53 11:32-11:55/23
	22:30	21:41	20:23	19:00 16:33-17:17/44	16:42 14:56-15:20/24	15:55 14:06-14:31/25
6	04:47	05:40	06:44	07:46 17:27-17:46/19 17:50-18:16/26	07:54 08:42-09:06/24	08:55 11:33-11:57/24
	22:29	21:39	20:20	18:58 16:31-17:17/46	16:40 14:55-15:21/26	15:54 14:07-14:32/25
7	04:48	05:42	06:46 19:11-19:15/4	07:48 17:25-17:47/22 17:50-18:15/25	07:56 08:42-09:05/23 09:12-09:22/10	08:56 11:33-11:58/25
	22:28	21:36	20:17	18:55 16:31-17:18/47	16:38 14:54-15:22/28	15:53 14:07-14:33/26
8	04:49	05:44	06:48 19:07-19:18/11	07:50 17:23-17:48/25 17:51-18:15/24	07:59 08:42-09:06/24 09:11-09:25/14	08:58 11:33-11:59/26 13:22-13:26/4
	22:28	21:34	20:14	18:52 16:30-17:18/48	16:36 14:53-15:22/29	15:53 14:08-14:34/26
9	04:51	05:46	06:50 19:04-19:20/16	07:52 17:21-17:49/28 17:51-18:13/22	08:01 08:42-09:05/23 09:09-09:26/17	08:59 11:33-11:59/26 13:20-13:28/8
	22:27	21:32	20:12	18:49 16:29-17:18/49	16:34 14:53-15:23/30	15:52 14:08-14:34/26
10	04:52	05:48	06:52 19:03-19:21/18	07:55 17:19-17:49/30 17:52-18:12/20	08:03 08:44-09:05/21 09:09-09:27/18	09:01 11:33-12:00/27 13:19-13:30/11
	22:26	21:29	20:09	18:47 16:28-17:18/50	16:32 14:52-15:23/31	15:52 14:09-14:34/25
11	04:53	05:50	06:54 19:01-19:21/20	07:57 16:27-17:49/82	08:05 08:44-09:04/20 09:08-09:28/20	09:02 11:33-12:01/28 13:19-13:31/12
	22:24	21:27	20:06	18:44 17:53-18:09/16	16:30 14:52-15:24/32	15:51 14:09-14:35/26
12	04:55	05:52	06:56 19:00-19:21/21	07:59 16:28-17:49/81	08:08 08:45-09:04/19 09:08-09:29/21	09:03 11:33-12:01/28 13:18-13:32/14
	22:23	21:25	20:03	18:41 17:56-18:07/11	16:28 14:51-15:24/33	15:51 14:09-14:35/26
13	04:56	05:54	06:58 19:00-19:21/21	08:01 16:27-17:49/82	08:10 08:46-09:02/16 09:07-09:29/22	09:04 11:34-12:02/28 13:19-13:33/14
	22:22	21:22	20:01	18:39	16:26 14:52-15:25/33	15:51 14:10-14:36/26
14	04:58	05:56	07:00 18:59-19:21/22	08:03 16:27-17:48/81	08:12 08:49-09:01/12 09:07-09:30/23	09:06 11:34-12:03/29 13:18-13:34/16
	22:21	21:20	19:58	18:36	16:24 14:51-15:24/33	15:51 14:10-14:36/26
15	04:59	05:58	07:02 18:59-19:21/22	08:05 16:27-17:48/81	08:14 08:51-08:59/8 09:07-09:30/23	09:07 11:34-12:03/29 13:18-13:35/17
	22:19	21:17	19:55	18:34	16:22 14:52-15:25/33	15:51 14:10-14:36/26
16	05:01	06:00	07:05 18:59-19:20/21	08:07 16:27-17:48/81	08:16 14:52-15:24/32	09:08 11:35-12:04/29 13:19-13:35/16
	22:18	21:15	19:52	18:31	16:20 09:08-09:30/22	15:51 14:11-14:37/26
17	05:02	06:03	07:07 18:59-19:19/20	08:10 16:27-17:47/80	08:19 14:53-15:25/32	09:09 11:35-12:04/29 13:19-13:36/17
	22:17	21:12	19:50	18:28	16:18 09:07-09:30/23	15:51 14:11-14:37/26
18	05:04	06:05	07:09 18:59-19:17/18	08:12 17:15-17:45/30	08:21 14:53-15:24/31	09:09 11:35-12:05/30 13:19-13:37/18
	22:15	21:10	19:47	18:26 16:27-17:14/47	16:17 09:07-09:30/23	15:51 14:12-14:38/26
19	05:06	06:07	07:11 19:00-19:14/14	08:14 17:16-17:45/29	08:23 14:54-15:25/31	09:10 11:36-12:06/30 13:20-13:38/18
	22:14	21:07	19:44	18:23 16:28-17:14/46	16:15 09:08-09:30/22	15:51 14:13-14:39/26
20	05:07	06:09	07:13 19:02-19:11/9	08:16 17:16-17:43/27	08:25 14:54-15:24/30	09:11 11:36-12:06/30 13:20-13:38/18
	22:12	21:05	19:41	18:21 16:28-17:13/45	16:13 09:08-09:30/22	15:51 14:12-14:38/26
21	05:09	06:11	07:15 19:06-19:08/2	08:18 17:16-17:40/24	08:27 14:55-15:23/28	09:12 11:37-12:06/29 13:20-13:39/19
	22:10	21:02	19:39	18:18 16:29-17:12/43	16:12 09:10-09:30/20	15:52 14:13-14:39/26
22	05:11	06:13	07:17	08:21 17:18-17:38/20	08:29 14:56-15:23/27	09:12 11:37-12:06/29 13:20-13:38/18
	22:09	21:00	19:36	18:16 16:30-17:11/41	16:10 09:10-09:30/20	15:52 14:13-14:39/26
23	05:13	06:15	07:19	08:23 17:19-17:36/17	08:31 14:57-15:22/25 09:11-09:29/18	09:13 11:38-12:08/30 13:21-13:40/19
	22:07	20:57	19:33	18:13 16:31-17:10/39	16:09 14:12-14:18/6	15:53 14:14-14:40/26
24	05:14	06:17	07:21	08:25 17:21-17:33/12	08:33 14:57-15:21/24 09:13-09:29/16	09:13 11:38-12:08/30 13:22-13:40/18
	22:05	20:55	19:30	18:11 16:32-17:09/37	16:07 14:10-14:21/11	15:53 14:15-14:41/26
25	05:16	06:19	07:23	07:27 15:33-16:07/34	08:35 14:59-15:21/22 09:15-09:28/13	09:13 11:38-12:08/30 13:22-13:40/18
	22:03	20:52	19:28	17:08	16:06 14:09-14:23/14	15:54 14:15-14:41/26
26	05:18	06:21	07:25 18:03-18:10/7	07:29 15:34-16:05/31	08:37 15:00-15:20/20 09:17-09:27/10	09:14 11:39-12:08/29 13:23-13:40/17
	22:01	20:49	19:25	17:06	16:04 14:08-14:24/16	15:55 14:15-14:41/26
27	05:20	06:23	07:27 16:53-17:03/10	07:32 15:37-16:03/26	08:39 15:01-15:17/16 09:19-09:26/7	09:14 11:39-12:09/30 13:23-13:40/17
	22:00	20:47	19:22 17:59-18:13/14	17:03	16:03 14:07-14:25/18	15:56 14:16-14:42/26
28	05:22	06:25	07:29 16:48-17:08/20	07:34 08:48-08:58/10	08:41 15:03-15:16/13 09:22-09:26/4	09:14 11:40-12:09/29 13:24-13:41/17
	21:58	20:44	19:19 17:56-18:15/19	17:01 15:39-16:00/21	16:02 14:06-14:26/20	15:57 14:16-14:42/26
29	05:24	06:27	07:31 16:44-17:10/26	07:36 08:46-09:01/15	08:43 11:38-11:47/9 14:07-14:28/21	09:14 11:41-12:09/28 13:25-13:41/16
	21:56	20:41	19:17 17:54-18:16/22	16:58 15:43-15:57/14	16:01 15:06-15:15/9	15:57 14:17-14:43/26
30	05:26	06:30	07:33 16:41-17:12/31	07:38 08:44-09:02/18	08:45 11:36-11:50/14 14:07-14:29/22	09:14 11:42-12:10/28 13:26-13:41/15
	21:54	20:39	19:14 17:53-18:16/23	16:56	16:00 15:09-15:12/3	15:59 14:18-14:44/26
31	05:28	06:32		07:41 08:44-09:04/20		09:14 11:42-12:10/28 13:26-13:40/14
	21:52	20:36		16:54		16:00 14:17-14:43/26
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	0	411	2068	1563	2000

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 8 - V-2_11 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 11:16-11:17/1	08:36 15:19-15:50/31 15:58-16:17/19	07:30 17:23-17:33/10	07:06	05:48	04:49
	16:01 13:29-14:22/53	17:00 13:45-14:14/29	18:04	20:12	21:16	22:16
2	09:13 13:29-14:22/53	08:34 15:20-15:50/30 15:58-16:19/21	07:27 17:20-17:35/15	07:03	05:45	04:47
	16:02	17:02 13:47-14:13/26	18:07	20:14	21:18	22:17
3	09:13 13:30-14:23/53	08:32 15:21-15:50/29 15:57-16:20/23	07:25 17:18-17:36/18	07:00	05:43	04:46
	16:04	17:05 13:49-14:12/23	18:09	20:16	21:21	22:18
4	09:12 13:30-14:23/53	08:30 15:21-15:49/28 15:56-16:21/25	07:22 17:16-17:41/25	06:58	05:40	04:45
	16:05	17:07 13:51-14:09/18	18:11	20:18	21:23	22:20
5	09:12 13:30-14:23/53	08:28 15:22-15:49/27 15:55-16:22/27	07:19 17:16-17:44/28	06:55	05:38	04:44
	16:07	17:09 13:56-14:05/9	18:13	20:20	21:25	22:21
6	09:11 13:30-14:23/53	08:25 15:24-15:48/24	07:17 17:15-17:46/31	06:52	05:36	04:43
	16:08	17:12 15:55-16:23/28	18:15	20:22	21:27	22:22
7	09:11 13:30-14:22/52	08:23 15:25-15:47/22	07:14 17:14-17:47/33	06:49	05:34	04:42
	16:10	17:14 15:54-16:23/29	18:18	20:25	21:29	22:24
8	09:10 13:30-14:22/52	08:21 15:27-15:46/19	07:11 17:13-17:47/34	06:47	05:31	04:42
	16:11	17:16 15:55-16:23/28	18:20	20:27	21:31	22:25
9	09:09 13:31-14:22/51	08:19 15:29-15:45/16	07:09 17:13-17:48/35	06:44	05:29	04:41
	16:13	17:19 15:55-16:24/29	18:22	20:29	21:33	22:26
10	09:08 13:31-14:22/51	08:17 15:32-15:41/9	07:06 17:13-17:48/35	06:41	05:27	04:40
	16:14	17:21 15:54-16:24/30	18:24	20:31	21:35	22:27
11	09:08 13:32-14:21/49	08:14 15:55-16:24/29	07:03 17:13-17:48/35	06:39	05:25	04:40
	16:16	17:23	18:26 17:54-17:55/1	20:33	21:37	22:28
12	09:07 13:31-14:20/49	08:12 15:55-16:23/28	07:01 17:13-17:47/34	06:36	05:23	04:39
	16:18	17:25	18:29 17:48-17:59/11	20:35	21:39	22:29
13	09:06 15:23-15:32/9	08:10 15:56-16:24/28	06:58 17:14-18:02/48	06:33	05:21	04:39
	16:20 13:32-14:18/46	17:28	18:31	20:38	21:41	22:29
14	09:04 15:22-15:34/12	08:07 15:56-16:23/27	06:55 17:15-18:04/49	06:31	05:19	04:38
	16:22 13:33-14:18/45	17:30	18:33	20:40	21:43	22:30
15	09:03 15:20-15:36/16	08:05 15:57-16:22/25	06:52 17:16-18:06/50	06:28	05:17	04:38
	16:24 13:33-14:17/44	17:32	18:35	20:42	21:45	22:31
16	09:02 15:19-15:37/18	08:03 15:57-16:21/24	06:50 17:18-18:08/50	06:25	05:15	04:38
	16:26 13:33-14:18/45	17:35	18:37	20:44	21:47	22:32
17	09:01 15:19-15:40/21	08:00 15:58-16:19/21	06:47 17:29-17:41/12	06:23	05:13	04:37
	16:28 13:33-14:18/45	17:37	18:40 17:42-18:11/29	20:46	21:49	22:32
18	08:59 15:18-15:41/23	07:58 16:00-16:18/18	06:44 17:32-17:37/5	06:20	05:11	04:37
	16:30 13:33-14:18/45	17:39	18:42 17:41-18:11/30	20:48	21:51	22:33
19	08:58 15:17-15:42/25	07:55 16:02-16:16/14	06:41 17:41-18:12/31	06:18	05:09	04:37
	16:32 13:35-14:19/44	17:42	18:44	20:50	21:53	22:33
20	08:57 15:18-15:44/26	07:53 16:07-16:12/5	06:39 17:40-18:12/32	06:15	05:07	04:37
	16:34 13:35-14:19/44	17:44	18:46	20:53	21:55	22:33
21	08:55 15:17-15:45/28	07:50	06:36 17:40-18:11/31	06:12	05:05	04:37
	16:36 13:35-14:19/44	17:46	18:48	20:55	21:57	22:34
22	08:54 15:17-15:46/29	07:48	06:33 17:42-18:12/30	06:10	05:03	04:38
	16:38 13:36-14:19/43	17:48	18:50	20:57	21:59	22:34
23	08:52 15:17-15:46/29	07:45	06:30 17:42-18:11/29	06:07	05:02	04:38
	16:40 13:36-14:19/43	17:51	18:52	20:59	22:01	22:34
24	08:50 15:17-15:47/30	07:43	06:28 17:43-18:10/27	06:05	05:00	04:38
	16:42 13:37-14:19/42	17:53	18:55	21:01	22:03	22:34
25	08:49 15:17-15:48/31	07:40	06:25 17:45-18:09/24	06:02	04:58	04:39
	16:44 13:37-14:19/42	17:55	18:57	21:03	22:04	22:34
26	08:47 15:17-15:48/31	07:38	06:22 17:46-18:09/23	06:00	04:57	04:39
	16:47 13:38-14:18/40	17:58	18:59	21:06	22:06	22:34
27	08:45 15:17-15:49/32	07:35	06:19 17:47-18:07/20	05:57	04:55	04:39
	16:49 13:39-14:18/39	18:00	19:01	21:08	22:08	22:34
28	08:43 15:17-15:50/33	07:32	06:17 17:49-18:04/15	05:55	04:54	04:40
	16:51 13:40-14:18/38	18:02	19:03	21:10	22:09	22:34
29	08:42 15:18-15:50/32		07:14 18:55-19:00/5	05:52	04:53	04:41
	16:53 13:41-14:17/36		20:05	21:12	22:11	22:33
30	08:40 15:18-15:50/32 16:02-16:14/12		07:11	05:50	04:51	04:41
	16:55 13:42-14:17/35		20:07	21:14	22:13	22:33
31	08:38 15:19-15:51/32 16:01-16:16/15		07:09		04:50	
	16:58 13:44-14:16/32		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	1931	818	885	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 8 - V-2_11 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:34	07:36 17:52-18:39/47	07:43 15:01-15:11/10	08:47 13:14-14:03/49
	22:32	21:49	20:33	19:11	16:51 15:24-15:53/29	15:58
2	04:43	05:32	06:36	07:38 17:52-18:27/35	07:45 14:58-15:14/16	08:48 13:14-14:05/51
	22:32	21:47	20:31	19:08 18:30-18:37/7	16:49 15:24-15:53/29	15:57
3	04:44	05:34	06:38	07:40 17:51-18:26/35	07:47 14:56-15:16/20	08:50 13:15-14:06/51
	22:31	21:45	20:28	19:06	16:47 15:24-15:53/29	15:57
4	04:45	05:36	06:40	07:42 17:51-18:26/35	07:50 14:54-15:17/23	08:52 13:14-14:06/52
	22:31	21:43	20:25	19:03	16:45 15:24-15:52/28	15:56
5	04:46	05:38	06:42	07:44 17:50-18:25/35	07:52 14:54-15:18/24	08:53 13:15-14:08/53
	22:30	21:41	20:23	19:00	16:42 15:25-15:52/27	15:55
6	04:47	05:40	06:44	07:46 17:50-18:23/33	07:54 14:52-15:19/27 15:25-15:51/26	08:55 13:16-14:09/53
	22:29	21:39	20:20	18:57	16:40 13:25-13:36/11	15:54
7	04:48	05:42	06:46	07:48 17:50-18:22/32	07:56 14:51-15:20/29 15:26-15:51/25	08:56 13:17-14:10/53
	22:28	21:36	20:17	18:55	16:38 13:21-13:40/19	15:53
8	04:49	05:44	06:48	07:50 17:51-18:21/30	07:59 14:50-15:20/30 15:27-15:50/23	08:58 13:17-14:10/53
	22:27	21:34	20:14	18:52	16:36 13:18-13:42/24	15:53
9	04:51	05:46	06:50	07:52 17:51-18:18/27	08:01 14:50-15:21/31 15:28-15:50/22	08:59 13:18-14:11/53
	22:27	21:32	20:12	18:49	16:34 13:17-13:44/27	15:52
10	04:52	05:48	06:52	07:55 17:51-18:14/23	08:03 14:49-15:21/32 15:29-15:48/19	09:01 13:18-14:12/54
	22:25	21:29	20:09	18:47	16:32 13:15-13:45/30	15:52
11	04:53	05:50	06:54	07:57 17:52-18:10/18	08:05 14:50-15:21/31 15:32-15:47/15	09:02 13:19-14:12/53
	22:24	21:27	20:06	18:44	16:30 13:15-13:47/32	15:51
12	04:55	05:52	06:56	07:59 17:55-18:08/13	08:08 14:49-15:21/32 15:33-15:44/11	09:03 11:04-11:09/5
	22:23	21:25	20:03	18:41	16:28 13:13-13:48/35	15:51 13:19-14:13/54
13	04:56	05:54	06:58	08:01 17:58-18:04/6	08:10 14:50-15:22/32	09:04 11:04-11:12/8
	22:22	21:22	20:01	18:39	16:26 13:13-13:49/36	15:51 13:21-14:14/53
14	04:58	05:56	07:00 18:47-18:48/1	08:03	08:12 14:49-15:21/32	09:06 11:03-11:13/10
	22:21	21:20	19:58	18:36	16:24 13:12-13:50/38	15:51 13:21-14:14/53
15	04:59	05:58	07:02 18:39-18:53/14	08:05	08:14 14:50-15:22/32	09:07 11:03-11:14/11
	22:19	21:17	19:55	18:34	16:22 13:12-13:51/39	15:51 13:21-14:15/54
16	05:01	06:00	07:05 18:37-18:55/18	08:07	08:16 14:50-15:21/31	09:08 11:03-11:14/11
	22:18	21:15	19:52	18:31	16:20 13:11-13:51/40	15:51 13:22-14:15/53
17	05:02	06:03	07:07 18:35-18:57/22	08:10	08:18 14:51-15:22/31	09:08 11:03-11:15/12
	22:17	21:12	19:50	18:28	16:18 13:11-13:53/42	15:51 13:22-14:16/54
18	05:04	06:05	07:09 18:34-18:58/24	08:12	08:21 14:51-15:21/30	09:09 11:04-11:16/12
	22:15	21:10	19:47	18:26	16:17 13:11-13:53/42	15:51 13:23-14:16/53
19	05:06	06:07	07:11 18:31-18:58/27	08:14	08:23 14:52-15:21/29	09:10 11:04-11:17/13
	22:14	21:07	19:44	18:23	16:15 13:11-13:54/43	15:51 13:23-14:16/53
20	05:07	06:09	07:13 18:29-18:58/29	08:16	08:25 14:52-15:21/29	09:11 11:04-11:17/13
	22:12	21:05	19:41	18:21	16:13 13:11-13:54/43	15:51 13:24-14:17/53
21	05:09	06:11	07:15 18:28-18:58/30	08:18	08:27 14:52-15:20/28	09:11 11:05-11:18/13
	22:10	21:02	19:39	18:18	16:12 13:10-13:54/44	15:52 13:25-14:18/53
22	05:11	06:13	07:17 18:26-18:57/31	08:21 16:36-16:44/8	08:29 14:54-15:20/26	09:12 11:05-11:18/13
	22:09	21:00	19:36	18:16	16:10 13:11-13:55/44	15:52 13:25-14:18/53
23	05:13	06:15	07:19 18:25-18:57/32	08:23 16:32-16:47/15	08:31 14:54-15:19/25	09:13 11:06-11:19/13
	22:07	20:57	19:33	18:13	16:09 13:11-13:55/44	15:53 13:26-14:19/53
24	05:14	06:17	07:21 18:25-18:56/31	08:25 16:29-16:48/19	08:33 14:55-15:18/23	09:13 11:06-11:19/13
	22:05	20:55	19:30	18:11	16:07 13:11-13:55/44	15:53 13:26-14:19/53
25	05:16	06:19	07:23 18:24-18:55/31	07:27 15:28-15:50/22	08:35 14:57-15:18/21	09:13 11:07-11:19/12
	22:03	20:52	19:28	17:08	16:06 13:12-13:56/44	15:54 13:26-14:19/53
26	05:18	06:21	07:25 18:12-18:22/10	07:29 15:27-15:51/24	08:37 14:58-15:16/18	09:14 11:07-11:19/12
	22:01	20:49	19:25 18:24-18:53/29	17:06	16:04 13:12-13:56/44	15:55 13:26-14:20/54
27	05:20	06:23	07:27 18:02-18:51/49	07:32 15:26-15:52/26	08:39 14:59-15:15/16	09:14 11:08-11:19/11
	21:59	20:47	19:22	17:03	16:03 13:12-13:57/45	15:56 13:27-14:20/53
28	05:22	06:25	07:29 17:58-18:48/50	07:34 15:25-15:52/27	08:41 15:01-15:14/13	09:14 11:09-11:20/11
	21:58	20:44	19:19	17:01	16:02 13:12-13:57/45	15:57 13:27-14:21/54
29	05:24	06:27	07:31 17:56-18:45/49	07:36 15:25-15:53/28	08:43 15:03-15:12/9	09:14 11:10-11:20/10
	21:56	20:41	19:17	16:58	16:01 13:12-13:59/47	15:57 13:28-14:21/53
30	05:26	06:30	07:33 17:54-18:42/48	07:38 15:24-15:53/29	08:45 15:08-15:09/1	09:14 11:11-11:20/9
	21:54	20:39	19:14	16:56	16:00 13:13-14:02/49	15:59 13:28-14:22/54
31	05:28	06:32		07:41 15:25-15:54/29		09:14 11:12-11:19/7
	21:52	20:36		16:54		16:00 13:28-14:21/53
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	0	525	603	1965	1860

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 9 - V-2_12 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 13:27-14:14/47 12:25-12:45/20 14:25-14:44/19	08:36 15:17-15:55/38 10:50-11:35/45	07:30 16:42-17:14/32	07:06 18:25-19:34/69	05:47	04:49
	16:01 14:45-15:11/26 10:45-11:20/35	17:00 13:48-14:05/17 14:22-15:06/44	18:04	20:12	21:16	22:16
2	09:13 13:26-14:14/48 12:25-12:44/19 14:24-14:44/20	08:34 15:18-15:55/37 10:51-11:35/44	07:27 16:40-17:25/45	07:03 18:27-19:35/68	05:45	04:47
	16:02 14:45-15:12/27 10:45-11:21/36	17:02 13:53-14:02/9 14:23-15:06/43	18:06	20:14	21:18	22:17
3	09:13 13:27-14:14/47 12:28-12:44/16	08:32 15:19-15:55/36 14:24-15:06/42	07:25 16:39-17:28/49	07:00 18:28-19:35/67	05:43	04:46
	16:04 14:24-15:13/49 10:45-11:22/37	17:05 10:52-11:34/42	18:09	20:16	21:20	22:18
4	09:12 13:27-14:14/47 12:29-12:43/14	08:30 15:19-15:54/35 14:24-15:05/41	07:22 16:38-17:29/51	06:58 18:28-19:34/66	05:40	04:45
	16:05 14:24-15:13/49 10:45-11:23/38	17:07 10:52-11:33/41	18:11	20:18	21:23	22:20
5	09:12 13:28-14:13/45 12:36-12:41/5	08:27 15:21-15:54/33 14:25-15:05/40	07:19 16:38-17:31/53	06:55 18:29-19:34/65	05:38	04:44
	16:06 14:23-15:14/51 10:45-11:23/38	17:09 10:53-11:33/40	18:13	20:20	21:25	22:21
6	09:11 13:28-14:12/44 10:45-11:24/39	08:25 15:23-15:54/31 14:26-15:04/38	07:17 16:37-17:32/55	06:52 18:30-19:34/64	05:36	04:43
	16:08 14:23-15:14/51	17:12 10:55-11:32/37	18:15	20:22	21:27	22:22
7	09:11 13:28-14:10/42 10:45-11:25/40	08:23 15:25-15:52/27 14:27-15:03/36	07:14 16:36-17:33/57	06:49 19:04-19:33/29	05:34	04:42
	16:09 14:23-15:15/52	17:14 10:55-11:30/35	18:18	20:25 18:31-19:03/32	21:29	22:24
8	09:10 13:28-14:10/42 10:45-11:25/40	08:21 15:33-15:51/18 14:28-15:02/34	07:11 16:35-17:33/58	06:47 19:04-19:32/28	05:31	04:42
	16:11 14:22-15:16/54	17:16 10:57-11:29/32	18:20	20:27 18:32-19:00/28	21:31	22:25
9	09:09 13:29-14:11/42 10:45-11:26/41	08:19 15:35-15:49/14 14:30-15:02/32	07:09 16:36-17:34/58	06:44 19:05-19:32/27	05:29	04:41
	16:13 14:22-15:16/54	17:18 10:59-11:28/29	18:22	20:29 18:35-18:58/23	21:33	22:26
10	09:08 13:29-14:12/43 10:45-11:27/42	08:17 15:38-15:46/8 14:31-15:00/29	07:06 16:35-17:34/59	06:41 19:05-19:30/25	05:27	04:40
	16:14 14:22-15:17/55	17:21 11:01-11:25/24	18:24	20:31 18:38-18:54/16	21:35	22:27
11	09:07 13:30-14:12/42 15:21-15:28/7	08:14 11:04-11:23/19	07:03 16:35-17:34/59	06:39 19:06-19:30/24	05:25	04:40
	16:16 14:22-15:18/56 10:46-11:28/42	17:23 14:34-14:59/25	18:26	20:33	21:37	22:28
12	09:07 15:31-15:36/5 14:21-15:30/69	08:12 11:08-11:18/10	07:00 16:35-17:34/59	06:36 19:07-19:28/21	05:23	04:39
	16:18 13:30-14:12/42 10:45-11:28/43	17:25 14:36-14:56/20	18:29	20:35	21:39	22:29
13	09:05 14:21-15:38/77 10:45-11:29/44	08:10 14:40-14:53/13	06:58 16:36-17:34/58	06:33 19:08-19:25/17	05:21	04:39
	16:20 13:30-14:13/43	17:28	18:31 17:41-17:48/7	20:37	21:41	22:29
14	09:04 14:21-15:40/79 10:46-11:31/45	08:07	06:55 16:36-17:34/58	06:31 19:11-19:23/12	05:18	04:38
	16:22 13:31-14:14/43	17:30	18:33 17:36-17:52/16	20:40	21:43	22:30
15	09:03 14:21-15:42/81 10:45-11:31/46	08:05	06:52 16:36-17:54/78	06:28	05:16	04:38
	16:24 13:31-14:13/42	17:32	18:35	20:42	21:45	22:31
16	09:02 14:20-15:43/83 10:46-11:32/46	08:02	06:50 16:36-17:56/80	06:25	05:14	04:38
	16:25 13:31-14:13/42	17:35	18:37	20:44	21:47	22:32
17	09:01 14:21-15:45/84 10:46-11:32/46	08:00	06:47 16:38-17:58/80	06:23	05:13	04:37
	16:27 13:32-14:14/42	17:37	18:39	20:46	21:49	22:32
18	08:59 14:20-15:46/86 10:46-11:32/46	07:58	06:44 16:39-17:59/80	06:20	05:11	04:37
	16:29 13:32-14:14/42	17:39	18:42	20:48	21:51	22:33
19	08:58 14:20-15:46/86 10:46-11:34/48	07:55	06:41 16:40-18:03/83	06:18	05:09	04:37
	16:32 13:33-14:14/41	17:42	18:44	20:50	21:53	22:33
20	08:57 14:21-15:48/87 10:46-11:34/48	07:53	06:39 16:42-18:05/83	06:15	05:07	04:37
	16:34 13:34-14:14/40	17:44	18:46	20:53	21:55	22:33
21	08:55 14:21-15:49/88 10:46-11:34/48	07:50	06:36 16:44-18:07/83	06:12	05:05	04:37
	16:36 13:34-14:14/40	17:46	18:48	20:55	21:57	22:34
22	08:54 14:21-15:50/89 10:46-11:34/48	07:48	06:33 16:49-16:58/9 17:24-18:09/45	06:10	05:03	04:38
	16:38 13:35-14:14/39	17:48	18:50 17:05-17:23/18	20:57	21:59	22:34
23	08:52 14:20-15:51/91 10:46-11:35/49	07:45	06:30 17:07-17:20/13	06:07	05:02	04:38
	16:40 13:36-14:14/38	17:51	18:52 17:23-18:10/47	20:59	22:01	22:34
24	08:50 14:20-15:52/92 10:47-11:35/48	07:43 16:56-17:01/5	06:28 17:23-18:10/47	06:05	05:00	04:38
	16:42 13:36-14:13/37	17:53	18:55	21:01	22:02	22:34
25	08:49 14:21-15:53/92 10:47-11:35/48	07:40 16:50-17:06/16	06:25 17:22-18:10/48	06:02	04:58	04:38
	16:44 13:37-14:13/36	17:55	18:57	21:03	22:04	22:34
26	08:47 14:21-15:53/92 10:47-11:35/48	07:38 16:48-17:09/21	06:22 17:23-18:11/48	06:00	04:57	04:39
	16:46 13:38-14:13/35	17:57	18:59	21:05	22:06	22:34
27	08:45 15:14-15:54/40 15:10-15:12/2 14:21-15:05/44	07:35 16:45-17:11/26	06:19 17:23-18:11/48	05:57	04:55	04:39
	16:49 13:39-14:12/33 10:48-11:35/47	18:00	19:01 18:18-18:27/9	21:08	22:08	22:34
28	08:43 15:15-15:54/39 10:48-11:36/48	07:32 16:43-17:12/29	06:17 17:23-18:11/48	05:55	04:54	04:40
	16:51 13:41-14:11/30 14:21-15:06/45	18:02	19:03 18:14-18:29/15	21:10	22:09	22:34
29	08:41 15:15-15:55/40 10:49-11:36/47		07:14 18:23-19:31/68	05:52	04:52	04:41
	16:53 13:42-14:11/29 14:22-15:06/44		20:05	21:12	22:11	22:33
30	08:40 15:16-15:55/39 10:49-11:36/47		07:11 18:24-19:33/69	05:50	04:51	04:41
	16:55 13:44-14:10/26 14:22-15:06/44		20:07	21:14	22:13	22:33
31	08:38 15:17-15:55/38 10:50-11:36/46		07:08 18:24-19:33/69		04:50	
	16:58 13:46-14:08/22 14:23-15:06/43		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	4938	1235	1942	681	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 9 - V-2_12 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:34 19:05-19:29/24	07:35 17:14-18:13/59	07:43 15:07-15:17/10 14:00-14:30/30	08:46 13:12-13:54/42 15:03-15:10/7
	22:32	21:49	20:33	19:11	16:51 10:30-10:55/25	15:58 14:04-15:00/56 10:28-11:10/42
2	04:43	05:32	06:36 19:04-19:29/25	07:38 17:14-18:13/59	07:45 15:04-15:19/15 13:58-14:31/33	08:48 13:12-13:55/43 10:29-11:10/41
	22:32	21:47	20:31 18:37-18:53/16	19:08	16:49 10:28-10:58/30	15:57 14:05-15:00/55
3	04:44	05:34	06:38 19:03-19:30/27	07:40 17:13-18:12/59	07:47 15:03-15:21/18 13:58-14:32/34	08:50 13:13-13:55/42 10:29-11:11/42
	22:31	21:45	20:28 18:33-18:56/23	19:06	16:47 10:26-10:59/33	15:56 14:05-15:01/56
4	04:45	05:36	06:40 19:02-19:30/28	07:42 17:13-18:12/59	07:50 14:55-15:22/27 13:56-14:33/37	08:52 13:13-13:55/42 10:29-11:10/41
	22:31	21:43	20:25 18:31-18:58/27	19:03	16:45 10:25-11:00/35	15:56 14:06-15:00/54
5	04:46	05:38	06:42 19:01-19:30/29	07:44 17:12-18:11/59	07:52 14:53-15:24/31 13:56-14:34/38	08:53 13:13-13:55/42 10:30-11:10/40
	22:30	21:41	20:23 18:28-19:00/32	19:00	16:42 10:24-11:02/38	15:55 14:08-15:00/52
6	04:47	05:40	06:44 18:27-19:30/63	07:46 17:12-18:09/57	07:54 14:51-15:24/33 13:55-14:34/39	08:55 13:14-13:58/44 10:31-11:10/39
	22:29	21:39	20:20	18:57	16:40 10:23-11:02/39	15:54 14:09-15:01/52
7	04:48	05:42	06:46 18:25-19:30/65	07:48 17:12-18:08/56	07:56 14:50-15:25/35 13:55-14:35/40	08:56 13:15-14:00/45 12:23-12:28/5
	22:28	21:36	20:17	18:55	16:38 10:23-11:04/41	15:53 14:10-15:01/51 10:32-11:10/38
8	04:49	05:44	06:48 18:24-19:29/65	07:50 17:13-18:07/54	07:59 14:48-15:25/37 13:54-14:36/42	08:58 13:15-14:01/46 12:17-12:30/13
	22:27	21:34	20:14	18:52	16:36 10:21-11:04/43	15:53 14:11-15:01/50 10:32-11:10/38
9	04:51	05:46	06:50 18:22-19:28/66	07:52 17:13-18:06/53	08:01 14:48-15:26/38 10:21-11:05/44	08:59 13:15-14:02/47 12:16-12:32/16
	22:26	21:32	20:12	18:49	16:34 13:23-13:33/10 13:54-14:36/42	15:52 14:12-15:01/49 10:34-11:10/36
10	04:52	05:48	06:52 18:21-19:27/66	07:55 17:13-18:03/50	08:03 14:47-15:26/39 10:21-11:06/45	09:01 13:16-14:04/48 12:16-12:34/18
	22:25	21:29	20:09	18:47	16:32 13:19-13:36/17 13:53-14:36/43	15:52 14:13-15:01/48 10:34-11:10/36
11	04:53	05:50	06:54 18:18-19:26/68	07:57 17:13-18:00/47	08:05 14:47-15:27/40 10:21-11:07/46	09:02 13:17-14:04/47 12:15-12:35/20 14:15-14:34/19
	22:24	21:27	20:06	18:44	16:30 13:17-13:39/22 13:54-14:37/43	15:51 14:35-15:02/27 10:35-11:10/35
12	04:55	05:52	06:56 18:16-19:25/69	07:59 17:15-17:57/42	08:07 14:47-15:26/39 10:20-11:07/47	09:03 13:17-14:05/48 12:14-12:35/21 14:16-14:33/17
	22:23	21:25	20:03	18:41	16:28 13:15-13:41/26 13:53-14:37/44	15:51 14:35-15:01/26 10:36-11:10/34
13	04:56	05:54	06:58 18:14-19:23/69	08:01 17:15-17:47/32	08:10 14:47-15:27/40 10:20-11:08/48	09:04 13:18-14:06/48 12:15-12:37/22 14:17-14:32/15
	22:22	21:22	20:01	18:39	16:26 13:14-13:43/29 13:54-14:38/44	15:51 14:37-15:02/25 10:37-11:11/34
14	04:58	05:56	07:00 18:13-19:22/69	08:03 17:16-17:45/29	08:12 14:47-15:26/39 10:20-11:08/48	09:05 13:18-14:07/49 12:15-12:38/23 14:19-14:33/14
	22:21	21:20	19:58	18:36	16:24 13:13-13:43/30 13:53-14:38/45	15:51 14:37-15:02/25 10:38-11:11/33
15	04:59	05:58	07:02 18:12-19:00/48	08:05 17:18-17:42/24	08:14 14:47-15:27/40 14:42-14:45/3 13:54-14:38/44	09:07 13:19-14:08/49 12:15-12:38/23 14:20-14:33/13
	22:19	21:17	19:55 19:03-19:19/16	18:33	16:22 13:12-13:45/33 10:20-11:08/48	15:51 14:37-15:02/25 10:38-11:11/33
16	05:01	06:00	07:04 18:12-19:00/48	08:07 17:21-17:41/20	08:16 13:54-15:26/92 10:20-11:08/48	09:08 13:19-14:08/49 12:15-12:39/24 14:21-14:32/11
	22:18	21:15	19:52 19:06-19:16/10	18:31	16:20 13:11-13:46/35	15:51 14:38-15:03/25 10:39-11:11/32
17	05:02	06:02	07:07 18:11-19:00/49	08:10 17:23-17:37/14	08:18 13:55-15:26/91 10:21-11:09/48	09:08 13:20-14:09/49 12:15-12:40/25 14:22-14:32/10
	22:17	21:12	19:50	18:28	16:18 13:11-13:47/36	15:51 14:39-15:03/24 10:40-11:12/32
18	05:04	06:05	07:09 18:11-18:59/48	08:12	08:21 13:54-15:26/92 10:21-11:09/48	09:09 13:21-14:10/49 12:15-12:40/25 14:24-14:32/8
	22:15	21:10	19:47	18:26	16:17 13:10-13:47/37	15:51 14:39-15:03/24 10:40-11:12/32
19	05:06	06:07	07:11 18:10-18:58/48	08:14	08:23 13:55-15:26/91 10:21-11:10/49	09:10 13:20-14:09/49 12:15-12:40/25 14:24-14:31/7
	22:13	21:07	19:44	18:23	16:15 13:11-13:49/38	15:51 14:39-15:03/24 10:40-11:12/32
20	05:07	06:09	07:13 17:55-18:05/10	08:16	08:25 13:56-15:25/89 10:21-11:09/48	09:11 13:21-14:10/49 12:16-12:41/25 14:25-14:31/6
	22:12	21:05	19:41 18:10-18:57/47	18:21	16:13 13:10-13:49/39	15:51 14:40-15:04/24 10:41-11:12/31
21	05:09	06:11	07:15 17:37-17:41/4 18:10-18:55/45	08:18	08:27 13:56-15:24/88 10:21-11:09/48	09:11 13:22-14:11/49 12:17-12:42/25 14:26-14:32/6
	22:10	21:02	19:39 17:51-18:08/17	18:18	16:12 13:09-13:49/40	15:52 14:41-15:05/24 10:42-11:13/31
22	05:11	06:13	07:17 17:31-17:47/16	08:21	08:29 13:57-15:24/87 10:22-11:10/48	09:12 13:22-14:11/49 12:17-12:42/25 14:26-14:32/6
	22:09	21:00	19:36 17:48-18:53/65	18:16	16:10 13:10-13:50/40	15:52 14:41-15:05/24 10:42-11:13/31
23	05:13	06:15	07:19 17:27-18:51/84	08:23	08:31 13:57-15:23/86 10:22-11:10/48	09:12 13:23-14:12/49 12:18-12:43/25 14:26-14:32/6
	22:07	20:57	19:33	18:13	16:09 13:10-13:51/41	15:53 14:42-15:06/24 10:43-11:14/31
24	05:14	06:17	07:21 17:24-18:48/84	08:25	08:33 13:58-15:23/85 10:23-11:09/46	09:13 13:23-14:12/49 12:18-12:43/25 14:27-14:34/7
	22:05	20:55	19:30	18:11	16:07 13:09-13:51/42	15:53 14:42-15:06/24 10:43-11:15/32
25	05:16	06:19	07:23 17:22-18:43/81	07:27	08:35 13:59-15:23/84 10:24-11:10/46	09:13 13:23-14:12/49 12:18-12:43/25 14:27-14:35/8
	22:03	20:52	19:28	17:08	16:06 13:10-13:52/42	15:54 14:42-15:06/24 10:43-11:15/32
26	05:18	06:21	07:25 17:20-18:40/80	07:29	08:37 14:00-15:23/83 10:24-11:10/46	09:14 13:24-14:13/49 12:19-12:44/25 14:26-14:36/10
	22:01	20:49	19:25	17:06	16:04 13:10-13:52/42	15:55 14:43-15:07/24 10:43-11:15/32
27	05:20	06:23	07:27 17:19-18:38/79	07:32	08:39 14:00-15:22/82 10:25-11:10/45	09:14 13:24-14:13/49 12:19-12:44/25 14:26-14:37/11
	21:59	20:47	19:22	17:03	16:03 13:10-13:52/42	15:56 14:43-15:07/24 10:44-11:16/32
28	05:22	06:25	07:29 17:17-18:36/79	07:34	08:41 14:01-15:20/79 10:25-11:10/45	09:14 13:25-14:13/48 12:20-12:44/24 14:26-14:38/12
	21:58	20:44	19:19	17:01	16:02 13:10-13:53/43	15:56 14:43-15:08/25 10:44-11:17/33
29	05:24	06:27 19:12-19:24/12	07:31 17:16-18:13/57	07:36 14:08-14:23/15	08:43 14:02-15:18/76 10:26-11:10/44	09:14 13:25-14:14/49 12:21-12:44/23 14:26-14:39/13
	21:56	20:41	19:17 18:15-18:33/18	16:58	16:01 13:10-13:53/43	15:57 14:44-15:09/25 10:44-11:18/34
30	05:26	06:29 19:09-19:26/17	07:33 17:15-18:13/58	07:38 10:36-10:49/13	08:45 15:13-15:18/5 14:03-15:12/69	09:14 13:26-14:14/48 12:22-12:45/23 14:26-14:41/15
	21:54	20:39	19:14 18:18-18:30/12	16:56 14:05-14:26/21	15:59 13:12-13:54/42 10:27-11:11/44	15:58 14:44-15:10/26 10:45-11:19/34
31	05:28	06:32 19:07-19:28/21		07:41 10:33-10:53/20		09:14 13:26-14:14/48 12:23-12:44/21 14:25-14:41/16
	21:51	20:36		16:54 14:03-14:29/26		16:00 14:44-15:10/26 10:44-11:19/35
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	50	1934	868	4441	4371

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 10 - V-2_13 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 13:23-14:09/46 14:24-14:46/22	08:36 13:41-14:17/36 10:06-10:16/10	07:30 16:16-16:59/43	07:06	05:47	04:49
	16:01 11:32-12:23/51 09:56-10:07/11	17:00 14:24-15:43/79	18:04 15:14-15:36/22	20:12	21:16	22:15
2	09:13 13:24-14:10/46 14:23-14:46/23	08:34 13:42-14:16/34	07:27 16:15-16:59/44	07:03	05:45	04:47
	16:02 11:32-12:23/51 09:55-10:08/13	17:02 14:25-15:44/79	18:06 15:18-15:32/14	20:14	21:18	22:17
3	09:13 13:28-14:10/42 14:23-14:47/24	08:32 13:44-14:15/31	07:24 16:15-16:59/44	07:00	05:43	04:46
	16:04 11:34-12:24/50 09:56-10:09/13	17:05 14:26-15:46/80	18:09	20:16	21:20	22:18
4	09:12 13:29-14:11/42 14:23-14:49/26	08:29 13:45-14:13/28	07:22 16:14-16:58/44	06:58	05:40	04:45
	16:05 11:34-12:23/49 09:55-10:10/15	17:07 14:26-15:46/80	18:11	20:18	21:23	22:20
5	09:12 13:29-14:12/43 14:23-14:50/27	08:27 13:48-14:11/23	07:19 16:15-16:59/44	06:55	05:38	04:44
	16:06 11:35-12:23/48 09:55-10:11/16	17:09 14:27-15:47/80	18:13	20:20	21:25	22:21
6	09:11 13:29-14:12/43 14:22-14:51/29 11:57-12:23/26	08:25 13:51-14:09/18	07:17 16:15-16:58/43	06:52	05:36	04:43
	16:08 11:36-11:56/20 09:54-10:12/18	17:11 14:28-15:48/80	18:15	20:22	21:27	22:22
7	09:11 13:29-14:13/44 14:22-14:52/30 11:58-12:23/25	08:23 13:55-14:05/10	07:14 16:14-16:57/43	06:49	05:34	04:42
	16:09 11:37-11:55/18 09:54-10:13/19	17:14 14:29-15:48/79	18:18	20:25	21:29	22:23
8	09:10 13:29-14:13/44 14:22-14:53/31 11:59-12:23/24	08:21 14:31-15:49/78	07:11 16:14-16:56/42	06:47	05:31	04:42
	16:11 11:39-11:53/14 09:54-10:14/20	17:16	18:20	20:27	21:31	22:25
9	09:09 13:30-14:14/44 14:22-14:54/32 12:00-12:23/23	08:19 14:32-15:49/77	07:09 16:16-16:56/40	06:44	05:29	04:41
	16:13 11:40-11:52/12 09:54-10:15/21	17:18	18:22	20:29	21:33	22:26
10	09:08 13:30-14:15/45 14:22-14:55/33 12:01-12:23/22	08:16 14:34-15:50/76	07:06 16:16-16:55/39	06:41	05:27	04:40
	16:14 11:43-11:51/8 09:54-10:16/22	17:21	18:24	20:31	21:35	22:27
11	09:07 13:31-14:16/45 09:54-10:17/23	08:14 14:38-15:51/73	07:03 16:16-16:54/38	06:39	05:25	04:40
	16:16 14:22-14:56/34 12:03-12:22/19	17:23	18:26	20:33	21:37	22:28
12	09:06 13:30-14:15/45 09:54-10:17/23	08:12 14:38-15:50/72	07:00 16:17-16:52/35	06:36	05:23	04:39
	16:18 14:21-14:56/35 12:03-12:21/18	17:25	18:29	20:35	21:39	22:29
13	09:05 13:31-14:16/45 09:54-10:18/24	08:10 14:39-15:51/72	06:58 16:19-16:51/32	06:33	05:21	04:39
	16:20 14:22-14:58/36 12:06-12:20/14	17:28	18:31	20:37	21:41	22:29
14	09:04 13:30-14:16/46 09:54-10:20/26	08:07 14:39-15:51/72	06:55 16:20-16:49/29	06:31	05:18	04:38
	16:22 14:21-14:58/37 12:07-12:18/11	17:30	18:33	20:40	21:43	22:30
15	09:03 13:31-14:17/46 09:54-10:20/26	08:05 14:39-15:50/71	06:52 16:22-16:47/25	06:28	05:16	04:38
	16:24 14:21-14:59/38 12:11-12:16/5	17:32	18:35	20:42	21:45	22:31
16	09:02 13:31-14:17/46 09:55-10:21/26	08:02 14:40-15:50/70	06:50 16:24-16:44/20	06:25	05:14	04:38
	16:25 14:21-15:08/47	17:35	18:37	20:44	21:47	22:31
17	09:01 13:32-14:18/46 09:54-10:21/27	08:00 14:40-15:50/70	06:47 16:29-16:39/10	06:23	05:13	04:37
	16:27 14:21-15:12/51	17:37 16:35-16:41/6	18:39	20:46	21:49	22:32
18	08:59 13:32-14:18/46 09:54-10:21/27	07:58 14:41-15:50/69	06:44	06:20	05:11	04:37
	16:29 14:21-15:14/53	17:39 16:30-16:47/17	18:42	20:48	21:51	22:32
19	08:58 13:32-14:18/46 09:55-10:22/27	07:55 14:41-15:49/68	06:41	06:17	05:09	04:37
	16:32 14:21-15:16/55	17:42 16:27-16:49/22	18:44	20:50	21:53	22:33
20	08:56 13:33-14:19/46 09:55-10:22/27	07:53 14:43-15:49/66	06:39	06:15	05:07	04:37
	16:34 14:21-15:19/58	17:44 16:25-16:52/27	18:46	20:52	21:55	22:33
21	08:55 13:33-14:19/46 09:55-10:23/28	07:50 14:43-15:48/65	06:36	06:12	05:05	04:37
	16:36 14:21-15:20/59	17:46 16:23-16:53/30	18:48	20:55	21:57	22:34
22	08:53 13:34-14:19/45 09:56-10:23/27	07:48 14:44-15:47/63	06:33	06:10	05:03	04:38
	16:38 14:21-15:22/61	17:48 16:21-16:54/33	18:50	20:57	21:59	22:34
23	08:52 13:34-14:19/45 09:56-10:23/27	07:45 14:46-15:47/61	06:30	06:07	05:02	04:38
	16:40 14:21-15:23/62	17:51 16:20-16:56/36	18:52	20:59	22:01	22:34
24	08:50 13:34-14:19/45 09:56-10:23/27	07:43 14:48-15:45/57	06:28	06:05	05:00	04:38
	16:42 14:21-15:24/63	17:53 16:19-16:57/38	18:55	21:01	22:02	22:34
25	08:49 13:35-14:19/44 09:57-10:22/25	07:40 16:18-16:57/39	06:25	06:02	04:58	04:38
	16:44 14:21-15:30/69	17:55 14:49-15:44/55	18:57	21:03	22:04	22:34
26	08:47 13:36-14:19/43 09:58-10:22/24	07:37 16:18-16:58/40	06:22	06:00	04:57	04:39
	16:46 14:22-15:33/71	17:57 14:53-15:43/50	18:59	21:05	22:06	22:34
27	08:45 13:36-14:19/43 09:59-10:22/23	07:35 16:16-16:58/42	06:19	05:57	04:55	04:39
	16:49 14:22-15:35/73	18:00 14:56-15:41/45	19:01	21:08	22:08	22:34
28	08:43 13:37-14:19/42 10:00-10:22/22	07:32 16:16-16:58/42 15:10-15:38/28	06:17	05:55	04:54	04:40
	16:51 14:22-15:37/75	18:02 15:02-15:07/5	19:03	21:10	22:09	22:33
29	08:41 13:38-14:19/41 10:01-10:21/20		07:14	05:52	04:52	04:41
	16:53 14:23-15:39/76		20:05	21:12	22:11	22:33
30	08:40 13:39-14:18/39 10:02-10:20/18		07:11	05:50	04:51	04:41
	16:55 14:23-15:41/78		20:07	21:14	22:12	22:33
31	08:38 13:39-14:17/38 10:04-10:19/15		07:08		04:50	
	16:58 14:23-15:42/79		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	4042	2482	651	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 10 - V-2_13 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:34	07:35 16:57-17:31/34	07:43 14:04-15:19/75	08:46 13:12-13:57/45 09:36-09:59/23
	22:32	21:49	20:33	19:11	16:51	15:58 14:03-14:37/34 11:45-12:05/20
2	04:43	05:32	06:36	07:38 16:56-17:32/36	07:45 14:01-15:19/78	08:48 13:12-13:57/45 14:04-14:37/33 11:44-12:06/22
	22:32	21:47	20:31	19:08	16:49	15:57 11:26-11:34/8 09:37-09:59/22
3	04:44	05:34	06:38	07:40 16:55-17:33/38	07:47 14:00-15:19/79	08:50 13:13-13:57/44 14:05-14:37/32 11:43-12:06/23
	22:31	21:45	20:28	19:06	16:47	15:56 11:25-11:36/11 09:38-09:59/21
4	04:45	05:36	06:40	07:42 16:53-17:33/40	07:50 13:23-13:35/12	08:52 13:13-13:57/44 14:06-14:37/31 11:43-12:07/24
	22:31	21:43	20:25	19:03	16:45 13:58-15:18/80	15:56 11:23-11:37/14 09:38-09:58/20
5	04:46	05:38	06:42	07:44 16:52-17:33/41	07:52 13:20-13:39/19	08:53 13:14-13:58/44 14:07-14:37/30 11:43-12:08/25
	22:30	21:41	20:22	19:00	16:42 13:58-15:18/80	15:55 11:22-11:40/18 09:39-09:58/19
6	04:47	05:40	06:44	07:46 16:51-17:33/42	07:54 13:17-13:41/24	08:55 13:15-13:58/43 14:09-14:37/28 11:43-12:09/26
	22:29	21:38	20:20	18:57	16:40 13:57-15:17/80	15:54 11:22-11:42/20 09:40-09:58/18
7	04:48	05:42	06:46	07:48 16:50-17:33/43	07:56 13:16-13:44/28	08:56 13:16-13:59/43 14:10-14:37/27
	22:28	21:36	20:17	18:55	16:38 13:56-15:17/81	15:53 11:22-12:10/48 09:42-09:58/16
8	04:49	05:44	06:48	07:50 16:50-17:34/44	07:59 13:14-13:45/31	08:58 13:16-13:58/42 14:10-14:36/26
	22:27	21:34	20:14	18:52	16:36 13:55-15:15/80	15:53 11:21-12:11/50 09:42-09:57/15
9	04:51	05:46	06:50	07:52 16:49-17:33/44	08:01 13:13-13:47/34	08:59 13:17-13:59/42 14:12-14:36/24
	22:26	21:32	20:12	18:49	16:34 13:55-15:15/80	15:52 11:22-12:12/50 09:44-09:58/14
10	04:52	05:48	06:52	07:54 16:49-17:33/44	08:03 13:11-13:47/36 09:36-09:47/11	09:01 13:14-13:59/45 14:12-14:36/24
	22:25	21:29	20:09	18:47	16:32 13:55-15:14/79	15:52 11:21-12:12/51 09:44-09:57/13
11	04:53	05:50	06:54	07:57 16:48-17:32/44	08:05 13:11-13:49/38 09:35-09:50/15	09:02 13:13-13:59/46 14:14-14:36/22
	22:24	21:27	20:06	18:44 15:56-16:00/4	16:30 13:55-15:13/78	15:51 11:22-12:13/51 09:46-09:57/11
12	04:55	05:52	06:56	07:59 16:48-17:32/44	08:07 13:10-13:49/39 09:33-09:51/18	09:03 13:12-13:59/47 14:15-14:35/20
	22:23	21:25	20:03	18:41 15:49-16:08/19	16:28 13:54-15:12/78	15:51 11:22-12:13/51 09:47-09:56/9
13	04:56	05:54	06:58	08:01 16:49-17:32/43	08:10 13:10-13:51/41 09:33-09:53/20	09:04 13:11-13:59/48 14:15-14:35/20
	22:22	21:22	20:01	18:39 15:45-16:10/25	16:26 13:55-15:11/76	15:51 11:23-12:14/51 09:49-09:56/7
14	04:58	05:56	07:00	08:03 16:49-17:31/42	08:12 13:09-13:51/42 09:31-09:54/23	09:05 13:12-14:00/48 14:17-14:36/19
	22:21	21:20	19:58	18:36 15:31-16:12/41	16:24 13:54-15:09/75	15:51 11:23-12:15/52 09:51-09:55/4
15	04:59	05:58	07:02	08:05 16:49-17:30/41	08:14 13:09-13:52/43 09:31-09:55/24	09:06 13:12-14:01/49 14:18-14:36/18
	22:19	21:17	19:55	18:33 15:26-16:14/48	16:22 13:55-15:08/73	15:51 11:23-12:16/53
16	05:01	06:00	07:04	08:07 16:50-17:30/40	08:16 13:08-13:52/44 09:31-09:55/24	09:07 13:12-14:01/49 14:19-14:35/16
	22:18	21:15	19:52	18:31 15:23-16:16/53	16:20 13:55-15:06/71	15:51 11:23-12:16/53
17	05:02	06:02	07:06	08:10 16:50-17:29/39	08:18 13:09-13:53/44 09:31-09:56/25	09:08 13:12-14:01/49 14:20-14:36/16
	22:16	21:12	19:50	18:28 15:21-16:16/55	16:18 13:55-15:04/69	15:51 11:24-12:17/53
18	05:04	06:05	07:09	08:12 15:18-16:17/59	08:20 13:08-13:53/45 09:30-09:57/27	09:09 13:12-14:02/50 14:21-14:36/15
	22:15	21:10	19:47	18:26 16:50-17:27/37	16:17 13:55-14:58/63	15:51 11:24-12:17/53
19	05:06	06:07	07:11	08:14 15:17-16:18/61	08:23 13:09-13:54/45 09:31-09:58/27	09:10 13:12-14:01/49 14:21-14:35/14
	22:13	21:07	19:44	18:23 16:52-17:27/35	16:15 13:56-14:57/61	15:51 11:24-12:17/53
20	05:07	06:09	07:13	08:16 15:15-16:19/64	08:25 13:09-13:54/45 09:31-09:58/27	09:11 13:13-14:02/49 14:22-14:36/14
	22:12	21:05	19:41	18:21 16:53-17:25/32	16:13 13:56-14:57/61	15:51 11:24-12:18/54
21	05:09	06:11	07:15	08:18 15:13-16:19/66	08:27 13:08-13:54/46 09:30-09:58/28	09:11 13:13-14:03/50 14:23-14:36/13
	22:10	21:02	19:39	18:18 16:54-17:23/29	16:12 13:56-14:55/59	15:52 11:25-12:19/54
22	05:11	06:13	07:17	08:20 15:13-16:20/67	08:29 13:09-13:55/46 09:31-09:59/28	09:12 13:13-14:03/50 14:23-14:36/13
	22:08	21:00	19:36	18:15 16:56-17:22/26	16:10 13:57-14:55/58	15:52 11:25-12:19/54
23	05:13	06:15	07:19	08:23 15:11-16:20/69	08:31 13:09-13:55/46 09:31-09:58/27	09:12 13:13-14:03/50 14:23-14:37/14
	22:07	20:57	19:33	18:13 16:58-17:19/21	16:09 13:58-14:53/55	15:53 11:26-12:19/53
24	05:14	06:17	07:21	08:25 15:10-16:19/69	08:33 13:09-13:55/46 09:31-09:58/27	09:13 13:15-14:04/49 14:24-14:38/14
	22:05	20:54	19:30	18:11 17:01-17:15/14	16:07 13:58-14:52/54	15:53 11:27-12:20/53
25	05:16	06:19	07:23	07:27 14:10-15:20/70	08:35 13:10-13:56/46 09:32-09:59/27	09:13 13:15-14:05/50 14:24-14:39/15
	22:03	20:52	19:27	17:08	16:06 13:59-14:50/51	15:54 11:27-12:20/53
26	05:18	06:21	07:25 17:15-17:18/3	07:29 14:09-15:20/71	08:37 13:10-13:56/46 09:33-09:59/26	09:13 13:16-14:05/49 14:24-14:39/15
	22:01	20:49	19:25	17:06	16:04 14:00-14:47/47	15:55 11:27-12:21/54
27	05:20	06:23	07:27 17:08-17:24/16	07:32 14:09-15:20/71	08:39 13:10-13:56/46 09:33-09:59/26	09:14 13:16-14:06/50 14:24-14:40/16
	21:59	20:47	19:22	17:03	16:03 14:00-14:38/38 11:51-11:54/3	15:56 11:28-12:21/53
28	05:22	06:25	07:29 17:04-17:27/23	07:34 14:08-15:20/72	08:41 13:10-13:56/46 09:33-09:59/26	09:14 13:17-14:06/49 14:24-14:41/17
	21:57	20:44	19:19	17:01	16:02 14:01-14:38/37 11:47-11:58/11	15:56 11:29-12:21/52
29	05:24	06:27	07:31 17:01-17:28/27	07:36 14:08-15:20/72	08:43 13:11-13:56/45 09:34-09:59/25	09:14 13:18-14:07/49 14:24-14:42/18
	21:55	20:41	19:16	16:58	16:01 14:02-14:38/36 11:46-12:00/14	15:57 11:29-12:22/53 09:58-10:01/3
30	05:26	06:29	07:33 16:59-17:30/31	07:38 14:08-15:20/72	08:45 13:11-13:57/46 09:36-09:59/23	09:14 13:20-14:08/48 14:24-14:44/20
	21:53	20:39	19:14	16:56	15:59 14:02-14:38/36 11:46-12:03/17	15:58 11:30-12:22/52 09:57-10:04/7
31	05:28	06:31		07:41 14:06-15:19/73		09:14 13:20-14:08/48 14:23-14:44/21
	21:51	20:36		16:54		16:00 11:30-12:22/52 09:56-10:05/9
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	0	100	2094	3586	3850

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 11 - V-2_14 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 14:18-14:46/28 11:17-11:23/6	08:36 15:09-15:50/41	07:30	07:06	05:47	04:49
	16:01 14:50-15:09/19	17:00	18:04	20:12	21:16	22:15
2	09:13 14:17-14:46/29	08:34 15:10-15:50/40	07:27	07:03	05:45	04:47
	16:02 14:49-15:10/21	17:02	18:06	20:14	21:18	22:17
3	09:13 14:17-14:47/30	08:32 15:11-15:50/39	07:25	07:00	05:43	04:46
	16:04 14:49-15:10/21	17:05 16:16-16:26/10	18:09	20:16	21:20	22:18
4	09:12 14:19-14:48/29	08:30 15:12-15:49/37	07:22	06:58	05:40	04:45
	16:05 14:50-15:12/22	17:07 16:13-16:28/15	18:11	20:18	21:23	22:20
5	09:12 14:19-14:48/29	08:27 15:13-15:49/36	07:19	06:55	05:38	04:44
	16:07 14:50-15:12/22	17:09 16:11-16:30/19	18:13	20:20	21:25	22:21
6	09:11 14:19-14:48/29	08:25 15:15-15:49/34	07:17	06:52	05:36	04:43
	16:08 14:50-15:13/23	17:12 16:11-16:32/21	18:15	20:22	21:27	22:22
7	09:11 14:19-14:49/30	08:23 15:17-15:47/30	07:14	06:49	05:34	04:42
	16:10 14:50-15:13/23	17:14 16:09-16:32/23	18:18	20:25	21:29	22:23
8	09:10 14:20-14:49/29 15:17-15:20/3	08:21 16:09-16:33/24	07:11	06:47	05:31	04:42
	16:11 14:50-15:14/24	17:16 15:20-15:46/26	18:20	20:27	21:31	22:25
9	09:09 14:20-15:23/63	08:19 16:08-16:33/25	07:09	06:44	05:29	04:41
	16:13	17:18 15:27-15:44/17	18:22	20:29	21:33	22:26
10	09:08 14:21-15:25/64	08:16 16:08-16:34/26	07:06	06:41	05:27	04:40
	16:14	17:21 15:30-15:42/12	18:24	20:31	21:35	22:27
11	09:07 14:22-15:27/65	08:14 16:07-16:34/27	07:03	06:39	05:25	04:40
	16:16	17:23	18:26	20:33	21:37	22:28
12	09:06 14:22-15:28/66	08:12 16:07-16:35/28	07:00	06:36	05:23	04:39
	16:18	17:25	18:29	20:35	21:39	22:28
13	09:05 14:23-15:30/67	08:10 16:08-16:36/28	06:58	06:33	05:21	04:39
	16:20	17:28	18:31	20:37	21:41	22:29
14	09:04 14:23-15:30/67	08:07 16:07-16:35/28	06:55	06:31	05:19	04:38
	16:22	17:30	18:33	20:40	21:43	22:30
15	09:03 14:24-15:34/70	08:05 16:07-16:34/27	06:52	06:28	05:17	04:38
	16:24	17:32	18:35	20:42	21:45	22:31
16	09:02 14:24-15:36/72	08:02 16:08-16:34/26	06:50	06:25	05:15	04:38
	16:26	17:35	18:37	20:44	21:47	22:31
17	09:01 14:25-14:51/26	08:00 16:08-16:33/25	06:47	06:23	05:13	04:37
	16:28 14:52-15:39/47	17:37	18:39	20:46	21:49	22:32
18	08:59 14:26-14:51/25	07:58 16:10-16:33/23	06:44	06:20	05:11	04:37
	16:30 14:52-15:40/48	17:39	18:42	20:48	21:51	22:32
19	08:58 14:26-14:50/24	07:55 16:10-16:32/22	06:41	06:18	05:09	04:37
	16:32 14:52-15:42/50	17:42	18:44	20:50	21:53	22:33
20	08:57 14:28-14:50/22	07:53 16:12-16:31/19	06:39	06:15	05:07	04:37
	16:34 14:53-15:44/51	17:44	18:46	20:53	21:55	22:33
21	08:55 14:29-14:50/21	07:50 16:14-16:29/15	06:36	06:12	05:05	04:37
	16:36 14:54-15:44/50	17:46	18:48	20:55	21:57	22:34
22	08:53 14:31-14:49/18	07:48 16:16-16:25/9	06:33	06:10	05:03	04:38
	16:38 14:54-15:45/51	17:48	18:50	20:57	21:59	22:34
23	08:52 14:32-14:47/15	07:45	06:30	06:07	05:02	04:38
	16:40 14:55-15:46/51	17:51	18:52	20:59	22:01	22:34
24	08:50 14:35-14:46/11	07:43	06:28	06:05	05:00	04:38
	16:42 14:55-15:47/52	17:53	18:55	21:01	22:02	22:34
25	08:49 14:40-14:41/1	07:40	06:25	06:02	04:58	04:39
	16:44 14:56-15:48/52	17:55	18:57	21:03	22:04	22:34
26	08:47 14:57-15:48/51	07:38	06:22	06:00	04:57	04:39
	16:47	17:57	18:59	21:05	22:06	22:34
27	08:45 14:59-15:49/50	07:35	06:19	05:57	04:55	04:40
	16:49	18:00	19:01	21:08	22:08	22:34
28	08:43 15:00-15:49/49	07:32	06:17	05:55	04:54	04:40
	16:51	18:02	19:03	21:10	22:09	22:33
29	08:41 15:02-15:50/48		07:14	05:52	04:53	04:41
	16:53		20:05	21:12	22:11	22:33
30	08:40 15:05-15:50/45		07:11	05:50	04:51	04:41
	16:55		20:07	21:14	22:12	22:33
31	08:38 15:08-15:50/42		07:08		04:50	
	16:58		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	1851	752	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 11 - V-2_14 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December	
1	04:42	05:30	06:34	07:35		07:43	15:37-16:04/27	08:46	14:03-15:08/65
	22:32	21:49	20:33	19:11		16:51	14:59-15:13/14	15:58	
2	04:43	05:32	06:36	07:38		07:45	15:37-16:03/26	08:48	14:03-15:08/65
	22:32	21:47	20:31	19:08		16:49	14:56-15:14/18	15:57	
3	04:44	05:34	06:38	07:40		07:47	15:39-16:03/24	08:50	14:04-15:06/62
	22:31	21:45	20:28	19:06		16:47	14:49-15:16/27	15:57	
4	04:45	05:36	06:40	07:42		07:50	14:46-15:17/31	08:52	14:04-14:33/29 15:00-15:04/4
	22:31	21:43	20:25	19:03		16:45	15:39-16:02/23	15:56	14:34-14:58/24
5	04:46	05:38	06:42	07:44		07:52	14:45-15:18/33	08:53	14:05-14:34/29
	22:30	21:41	20:23	19:00		16:42	15:40-16:01/21	15:55	14:35-14:59/24
6	04:47	05:40	06:44	07:46		07:54	14:43-15:19/36	08:55	14:05-14:34/29
	22:29	21:38	20:20	18:57		16:40	15:41-15:59/18	15:54	14:36-14:59/23
7	04:48	05:42	06:46	07:48		07:56	14:42-15:20/38	08:56	14:06-14:35/29
	22:28	21:36	20:17	18:55		16:38	15:44-15:58/14	15:53	14:37-14:59/22
8	04:49	05:44	06:48	07:50		07:59	14:41-15:20/39	08:58	14:06-14:35/29
	22:27	21:34	20:14	18:52		16:36	15:46-15:55/9	15:53	14:37-14:59/22
9	04:51	05:46	06:50	07:52		08:01	14:41-15:21/40	08:59	14:07-14:36/29
	22:26	21:32	20:12	18:49		16:34		15:52	14:38-14:59/21
10	04:52	05:48	06:52	07:54		08:03	14:40-15:21/41	09:01	14:07-14:36/29
	22:25	21:29	20:09	18:47		16:32		15:52	14:38-14:59/21
11	04:53	05:50	06:54	07:57		08:05	14:40-15:21/41	09:02	14:08-14:36/28 11:07-11:13/6
	22:24	21:27	20:06	18:44		16:30		15:51	14:40-14:59/19
12	04:55	05:52	06:56	07:59		08:07	14:36-15:21/45	09:03	14:08-14:36/28 11:06-11:14/8
	22:23	21:25	20:03	18:41		16:28		15:51	14:40-14:59/19
13	04:56	05:54	06:58	08:01		08:10	14:34-15:22/48	09:04	14:08-14:37/29 11:06-11:16/10
	22:22	21:22	20:01	18:39		16:26		15:51	14:41-14:59/18
14	04:58	05:56	07:00	08:03		08:12	14:32-15:21/49	09:05	14:09-14:38/29 11:06-11:17/11
	22:21	21:20	19:58	18:36		16:24		15:51	14:42-15:00/18
15	04:59	05:58	07:02	08:05		08:14	14:32-15:22/50	09:06	14:10-14:38/28 11:06-11:18/12
	22:19	21:17	19:55	18:33		16:22		15:51	14:43-15:00/17
16	05:01	06:00	07:04	08:07		08:16	14:30-15:21/51	09:07	14:10-14:38/28 11:06-11:18/12
	22:18	21:15	19:52	18:31		16:20		15:51	14:44-15:00/16
17	05:02	06:02	07:07	08:10		08:18	14:13-14:16/3	09:08	14:11-14:39/28 11:06-11:19/13
	22:16	21:12	19:50	18:28		16:18	14:30-15:22/52	15:51	14:44-15:00/16
18	05:04	06:05	07:09	08:12		08:21	14:09-14:20/11	09:09	14:11-14:39/28 11:06-11:20/14
	22:15	21:10	19:47	18:26		16:17	14:29-15:21/52	15:51	14:45-15:01/16
19	05:06	06:07	07:11	08:14		08:23	14:07-14:22/15	09:10	14:11-14:39/28 11:06-11:20/14
	22:13	21:07	19:44	18:23		16:15	14:30-15:20/50	15:51	14:45-15:00/15
20	05:07	06:09	07:13	08:16	16:46-16:57/11	08:25	14:06-14:24/18	09:11	14:12-14:40/28 11:07-11:21/14
	22:12	21:05	19:41	18:21		16:13	14:29-15:20/51	15:51	14:46-15:01/15
21	05:09	06:11	07:15	08:18	16:43-16:59/16	08:27	14:04-14:25/21	09:11	14:13-14:41/28 11:08-11:22/14
	22:10	21:02	19:39	18:18		16:12	14:29-15:20/51	15:52	14:47-15:02/15
22	05:11	06:13	07:17	08:21	16:42-17:02/20	08:29	14:04-14:26/22	09:12	14:13-14:41/28 11:08-11:22/14
	22:08	21:00	19:36	18:16		16:10	14:29-15:20/51	15:52	14:47-15:02/15
23	05:13	06:15	07:19	08:23	16:40-17:02/22	08:31	14:04-14:27/23	09:12	14:13-14:41/28 11:09-11:23/14
	22:07	20:57	19:33	18:13		16:09	14:29-15:19/50	15:53	14:47-15:02/15
24	05:14	06:17	07:21	08:25	16:39-17:03/24	08:33	14:03-14:28/25	09:13	14:14-14:42/28 11:09-11:23/14
	22:05	20:54	19:30	18:11		16:07	14:29-15:17/48	15:53	14:48-15:03/15
25	05:16	06:19	07:23	07:27	15:38-16:04/26	08:35	14:03-14:29/26	09:13	14:14-14:42/28 11:09-11:23/14
	22:03	20:52	19:27	17:08		16:06	14:30-15:17/47	15:54	14:48-15:04/16
26	05:18	06:21	07:25	07:29	15:37-16:04/27	08:37	14:03-15:16/73	09:13	14:15-14:43/28 11:10-11:23/13
	22:01	20:49	19:25	17:06		16:04		15:55	14:48-15:04/16
27	05:20	06:23	07:27	07:32	15:38-16:05/27	08:39	14:03-15:13/70	09:14	14:15-14:43/28 11:11-11:23/12
	21:59	20:47	19:22	17:03		16:03		15:56	14:48-15:05/17
28	05:22	06:25	07:29	07:34	15:37-16:04/27	08:41	14:03-15:11/68	09:14	14:16-14:44/28 11:11-11:24/13
	21:57	20:44	19:19	17:01		16:02		15:57	14:49-15:06/17
29	05:24	06:27	07:31	07:36	15:36-16:04/28	08:43	14:03-15:10/67	09:14	14:16-14:44/28 11:13-11:24/11
	21:55	20:41	19:17	16:58		16:01		15:57	14:49-15:07/18
30	05:26	06:29	07:33	07:38	15:37-16:04/27	08:45	14:03-15:09/66	09:14	14:17-14:45/28 11:14-11:24/10
	21:53	20:39	19:14	16:56		16:00		15:59	14:49-15:08/19
31	05:28	06:32		07:41	15:37-16:04/27			09:14	14:17-14:45/28 11:14-11:23/9
	21:51	20:36		16:54	15:03-15:08/5			16:00	14:49-15:08/19
Potential sun hours	534	472	385	322		244		211	
Sum of minutes with flicker	0	0	0	287		1723		1749	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 12 - V-2_15 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December	
1	09:13 13:27-13:48/21	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:46	
	16:01	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51	15:59	
2	09:13 13:27-13:48/21	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48	
	16:02	17:02	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58	
3	09:13 13:29-13:49/20	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50	13:21-13:29/8
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57	
4	09:12 13:30-13:48/18	08:30	07:22	06:58	05:40	04:45	04:45	05:36	06:40	07:42	07:50	08:52	13:19-13:30/11
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56	
5	09:12 13:30-13:48/18	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53	13:18-13:32/14
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55	
6	09:11 13:32-13:48/16	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55	13:18-13:34/16
	16:08	17:12	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:58	16:40	15:54	
7	09:11 13:33-13:47/14	08:23	07:14	06:49	05:34	04:43	04:48	05:42	06:46	07:48	07:56	08:56	13:18-13:35/17
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54	
8	09:10 13:34-13:46/12	08:21	07:11	06:47	05:31	04:42	04:50	05:44	06:48	07:50	07:59	08:58	13:17-13:35/18
	16:11	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53	
9	09:09 13:37-13:45/8	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59	13:17-13:37/20
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34	15:52	
10	09:08 13:41-13:42/1	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01	13:17-13:37/20
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52	
11	09:07	08:14	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:05	09:02	13:17-13:39/22
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52	
12	09:07	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03	13:17-13:39/22
	16:18	17:25	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51	
13	09:05	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:04	13:18-13:40/22
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51	
14	09:04	08:07	06:55	06:31	05:19	04:38	04:58	05:56	07:00	08:03	08:12	09:05	13:18-13:41/23
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51	
15	09:03	08:05	06:52	06:28	05:17	04:38	04:59	05:58	07:02	08:05	08:14	09:07	13:18-13:41/23
	16:24	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51	
16	09:02	08:03	06:50	06:25	05:15	04:38	05:01	06:00	07:05	08:07	08:16	09:08	13:18-13:42/24
	16:26	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:52	18:31	16:20	15:51	
17	09:01	08:00	06:47	06:23	05:13	04:38	05:02	06:03	07:07	08:10	08:18	09:08	13:19-13:43/24
	16:28	17:37	18:40	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:18	15:51	
18	08:59	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:09	13:19-13:43/24
	16:30	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:51	
19	08:58	07:55	06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10	13:19-13:43/24
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51	
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11	13:20-13:44/24
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:13	15:51	
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:11	13:20-13:45/25
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52	
22	08:54	07:48	06:33	06:10	05:03	04:38	05:11	06:13	07:17	08:21	08:29	09:12	13:20-13:45/25
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52	
23	08:52	07:45	06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12	13:22-13:46/24
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53	
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13	13:22-13:46/24
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:53	
25	08:49	07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:27	08:35	09:13	13:22-13:46/24
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54	
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:14	13:23-13:46/23
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55	
27	08:45	07:35	06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39	09:14	13:23-13:47/24
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56	
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14	13:24-13:47/23
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:57	
29	08:41		07:14	05:52	04:53	04:41	05:24	06:27	07:31	07:36	08:43	09:14	13:25-13:48/23
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:58	16:01	15:58	
30	08:40		07:11	05:50	04:51	04:42	05:26	06:30	07:33	07:38	08:45	09:14	13:26-13:48/22
	16:56		20:07	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59	
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14	13:26-13:48/22
	16:58		20:10		22:14		21:51	20:36		16:54		16:00	
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211	
Sum of minutes with flicker	149	0	0	0	0	0	0	0	0	0	0	615	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 13 - V-2_17 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:42	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:51	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:02	17:02	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:46	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:45	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:42	15:55
6	09:11	08:25	07:17	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:15	20:22	21:27	22:22	22:29	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:49	05:34	04:43	04:48	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:31	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:49	16:34	15:52
10	09:08	08:17	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:53	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:41	16:28	15:51
13	09:05	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:38	04:58	05:56	07:00	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	04:59	05:58	07:02	08:05	08:14	09:07
	16:24	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:25	05:15	04:38	05:01	06:00	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:02	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:37	05:04	06:05	07:09	08:12	08:21	09:09
	16:30	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:37	05:07	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:13	15:52
21	08:55	07:50	06:36	06:12	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:48	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:53
25	08:49	07:40	06:25	06:02	04:59	04:39	05:16	06:19	07:23	07:27	08:35	09:13
	16:44	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:04	15:55
27	08:45	07:35	06:20	05:57	04:55	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:52	04:53	04:41	05:24	06:27	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:51	04:42	05:26	06:30	07:33	07:38	08:45	09:14
	16:56		20:07	21:14	22:12	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 14 - V-2_19 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06	05:48 06:19-06:40/21	04:49	04:42	05:30 06:28-06:51/23	06:34	07:36	07:43	08:47
	16:01	17:00	18:04	20:12	21:16	22:16	22:33	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45 06:18-06:41/23	04:48	04:43	05:32 06:28-06:52/24	06:36	07:38	07:45	08:48
	16:03	17:02	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43 06:18-06:42/24	04:47	04:44	05:34 06:27-06:51/24	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41 06:17-06:42/25	04:45	04:45	05:36 06:27-06:51/24	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19	06:55	05:38 06:17-06:42/25	04:44	04:46	05:38 06:26-06:52/26	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36 06:16-06:41/25	04:44	04:47	05:40 06:26-06:52/26	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34 06:16-06:41/25	04:43	04:48	05:42 06:27-06:52/25	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:24	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32 06:16-06:41/25	04:42	04:50	05:44 06:27-06:52/25	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:28	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29 06:16-06:41/25	04:41	04:51	05:46 06:27-06:51/24	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:27	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:27 06:16-06:41/25	04:40	04:52	05:48 06:26-06:50/24	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03	06:39	05:25 06:17-06:40/23	04:40	04:54	05:50 06:27-06:49/22	06:54	07:57	08:05	09:02
	16:16	17:23	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01	06:36	05:23 06:18-06:41/23	04:39	04:55	05:52 06:28-06:49/21	06:56	07:59	08:08	09:03
	16:18	17:26	18:29	20:35	21:39	22:29	22:23	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58	06:33	05:21 06:19-06:40/21	04:39	04:56	05:54 06:29-06:47/18	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19 06:19-06:39/20	04:38	04:58	05:56 06:30-06:46/16	07:01	08:03	08:12	09:06
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17 06:20-06:38/18	04:38	04:59	05:59 06:31-06:44/13	07:03	08:05	08:14	09:07
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15 06:21-06:36/15	04:38	05:01	06:01 06:34-06:41/7	07:05	08:08	08:16	09:08
	16:26	17:35	18:37	20:44	21:47	22:32	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13 06:23-06:35/12	04:38	05:03	06:03	07:07	08:10	08:19	09:09
	16:28	17:37	18:40	20:46	21:49	22:32	22:17	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11 06:25-06:33/8	04:38	05:04	06:05	07:09	08:12	08:21	09:09
	16:30	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:37	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:14	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:13	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:52
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:13
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:03	22:34	22:05	20:55	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17 06:37-06:41/4	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18 06:34-06:44/10	06:21	07:25	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57 06:26-06:34/8	04:56	04:40	05:20 06:32-06:46/14	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	22:00	20:47	19:22	17:03	16:03	15:56
28	08:43	07:33	06:17	05:55 06:23-06:37/14	04:54	04:40	05:22 06:31-06:48/17	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:57
29	08:42		07:14	05:53 06:22-06:39/17	04:53	04:41	05:24 06:30-06:48/18	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50 06:20-06:39/19	04:51	04:42	05:26 06:29-06:49/20	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28 06:29-06:50/21	06:32		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	0	58	383	0	104	342	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 15 - V-2_20 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 09:58-10:41/43 16:01	08:36 09:57-10:00/3 17:00	07:30 08:13-08:38/25 18:04	07:06 07:42-08:18/36 20:12	05:48 06:27-07:00/33 21:16	04:49 05:32-06:13/41 22:16 06:16-07:02/46
2	09:13 09:58-10:41/43 16:03	08:34 17:03	07:27 08:12-08:38/26 18:07	07:03 07:41-08:15/34 20:14	05:45 06:27-07:00/33 21:18	04:48 05:31-06:13/42 22:17 06:16-07:02/46
3	09:13 09:59-10:42/43 16:04	08:32 17:05	07:25 08:12-08:37/25 18:09	07:01 08:07-08:10/3 20:16 07:40-08:05/25	05:43 06:28-06:59/31 21:21	04:47 05:32-06:14/42 22:18 06:17-07:03/46
4	09:13 09:59-10:42/43 16:05	08:30 17:07	07:22 08:13-08:37/24 18:11	06:58 07:41-08:06/25 20:18	05:41 06:28-06:58/30 21:23	04:46 05:31-06:14/43 22:20 06:17-07:03/46
5	09:12 09:59-10:43/44 16:07	08:28 17:09	07:19 08:14-08:36/22 18:13	06:55 07:41-08:04/23 20:20	05:38 06:28-06:57/29 21:25	04:45 05:31-06:14/43 22:21 06:17-07:02/45
6	09:11 09:59-10:43/44 16:08	08:25 17:12	07:17 08:14-08:34/20 18:16	06:52 07:41-08:03/22 20:23	05:36 06:25-06:56/31 21:27	04:44 05:30-06:14/44 22:22 06:17-07:02/45
7	09:11 09:50-09:53/3 16:10 09:59-10:43/44	08:23 17:14	07:14 08:16-08:33/17 18:18	06:50 07:42-08:02/20 20:25	05:34 06:23-06:53/30 21:29	04:43 05:30-06:15/45 22:24 06:18-07:03/45
8	09:10 09:49-09:55/6 16:11 09:59-10:44/45	08:21 17:16	07:11 08:18-08:30/12 18:20	06:47 07:43-08:00/17 20:27	05:32 06:22-06:54/32 21:31	04:42 05:30-06:14/44 22:25 06:18-07:02/44
9	09:09 09:48-09:57/9 16:13 09:59-10:44/45	08:19 17:19	07:09 18:22	06:44 07:44-07:58/14 20:29	05:29 06:21-06:55/34 21:33	04:41 05:29-06:14/45 22:26 06:18-07:02/44
10	09:08 09:47-09:58/11 16:15 10:00-10:44/44	08:17 17:21	07:06 18:24	06:42 07:48-07:55/7 20:31	05:27 06:20-06:56/36 21:35	04:41 05:30-06:15/45 22:27 06:19-07:03/44
11	09:08 09:46-10:45/59 16:16	08:14 17:23	07:03 18:27	06:39 20:33	05:25 06:19-06:56/37 21:37	04:40 05:29-06:15/46 22:28 06:18-07:02/44
12	09:07 09:45-10:45/60 16:18	08:12 17:26	07:01 18:29	06:36 20:36	05:23 06:19-06:58/39 21:39	04:39 05:29-06:15/46 22:29 06:19-07:03/44
13	09:06 09:44-10:45/61 16:20	08:10 17:28	06:58 18:31	06:34 20:38	05:21 06:18-06:59/41 21:41	04:39 05:30-06:15/45 22:29 06:20-07:03/43
14	09:04 09:44-10:45/61 16:22	08:07 17:30	06:55 18:33	06:31 20:40	05:19 05:56-05:59/3 21:44 06:17-06:59/42	04:39 05:30-06:16/46 22:30 06:20-07:03/43
15	09:03 09:43-10:45/62 16:24	08:05 17:33	06:53 18:35	06:28 20:42	05:17 05:52-06:03/11 21:46 06:16-06:59/43	04:38 05:29-06:15/46 22:31 06:20-07:03/43
16	09:02 09:44-10:45/61 16:26	08:03 17:35	06:50 18:38	06:26 20:44	05:15 05:50-06:05/15 21:47 06:16-06:59/43	04:38 05:30-06:15/45 22:32 06:20-07:03/43
17	09:01 09:43-10:44/61 16:28	08:00 17:37	06:47 18:40	06:23 20:46	05:13 05:49-06:07/18 21:49 06:16-07:00/44	04:38 05:30-06:15/45 22:32 06:21-07:03/42
18	09:00 09:43-10:43/60 16:30	07:58 17:40	06:44 18:42	06:20 20:48	05:11 05:47-06:08/21 21:51 06:16-07:00/44	04:38 05:30-06:16/46 22:33 06:21-07:03/42
19	08:58 09:44-10:27/43 16:32 10:28-10:43/15	07:55 17:42	06:42 07:09-07:18/9 18:44	06:18 06:47-06:55/8 20:51	05:09 05:46-06:08/22 21:53 06:15-07:00/45	04:38 05:30-06:16/46 22:33 06:21-07:03/42
20	08:57 09:44-10:27/43 16:34 10:30-10:42/12	07:53 17:44	06:39 07:06-07:21/15 18:46	06:15 06:43-06:57/14 20:53	05:07 05:46-06:10/24 21:55 06:15-07:01/46	04:38 05:30-06:16/46 22:33 06:21-07:03/42
21	08:55 09:44-10:27/43 16:36 10:32-10:40/8	07:50 08:21-08:32/11 17:46	06:36 07:04-07:22/18 18:48	06:13 06:42-06:59/17 20:55	05:05 05:45-06:10/25 21:57 06:15-07:01/46	04:38 05:31-06:17/46 22:34 06:21-07:03/42
22	08:54 09:44-10:26/42 16:38	07:48 08:19-08:35/16 17:49	06:33 07:02-07:23/21 18:50	06:10 06:37-07:00/23 20:57	05:04 05:45-06:11/26 21:59 06:15-07:02/47	04:38 05:31-06:17/46 22:34 06:22-07:04/42
23	08:52 09:44-10:26/42 16:40	07:45 08:17-08:36/19 17:51	06:31 07:01-07:23/22 18:53	06:08 06:35-07:01/26 20:59	05:02 05:44-06:11/27 22:01 06:15-07:01/46	04:38 05:31-06:17/46 22:34 06:22-07:04/42
24	08:50 09:45-10:25/40 16:42	07:43 08:15-08:37/22 17:53	06:28 07:01-07:24/23 18:55	06:05 06:32-07:01/29 21:01	05:00 05:44-06:12/28 22:03 06:15-07:02/47	04:38 05:31-06:17/46 22:34 06:22-07:04/42
25	08:49 09:45-10:07/22 16:45 10:08-10:24/16	07:40 08:15-08:38/23 17:55	06:25 07:00-07:24/24 18:57 06:56-06:57/1	06:02 06:31-07:01/30 21:03	04:59 05:44-06:12/28 22:04 06:15-07:02/47	04:39 05:32-06:17/45 22:34 06:23-07:05/42
26	08:47 09:46-10:07/21 16:47 10:10-10:23/13	07:38 08:14-08:38/24 17:58	06:22 06:50-07:24/34 18:59	06:00 06:30-07:02/32 21:06	04:57 05:44-06:12/28 22:06 06:15-07:02/47	04:39 05:32-06:17/45 22:34 06:22-07:05/43
27	08:45 09:47-10:07/20 16:49 10:12-10:21/9	07:35 08:13-08:38/25 18:00	06:20 06:47-07:23/36 19:01	05:57 06:29-07:01/32 21:08	04:56 05:44-06:13/29 22:08 06:15-07:02/47	04:40 05:32-06:18/46 22:34 06:23-07:06/43
28	08:43 09:48-10:06/18 16:51	07:33 08:13-08:39/26 18:02	06:17 06:46-07:23/37 19:03	05:55 06:28-07:01/33 21:10	04:54 05:40-05:43/3 06:15-07:02/47 22:09 05:44-06:13/29	04:40 05:32-06:18/46 22:34 06:23-07:05/42
29	08:42 09:49-10:06/17 16:53		07:14 07:44-08:22/38 20:05	05:53 06:28-07:01/33 21:12	04:53 05:37-06:14/37 22:11 06:16-07:03/47	04:41 05:33-06:18/45 22:33 06:23-07:06/43
30	08:40 09:50-10:05/15 16:56		07:11 07:43-08:21/38 20:08	05:50 06:28-07:01/33 21:14	04:51 05:34-06:14/40 22:13 06:15-07:02/47	04:42 05:34-06:19/45 22:33 06:23-07:07/44
31	08:38 09:53-10:03/10 16:58		07:09 07:42-08:19/37 20:10		04:50 05:33-06:13/40 22:14 06:15-07:02/47	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	1401	169	524	536	1712	2651

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 15 - V-2_20 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:43 05:34-06:19/45	05:30 06:29-07:08/39	06:34	07:36	07:43	08:47 09:28-10:27/59
	22:33 06:23-07:06/43	21:50	20:34	19:11	16:52	15:59
2	04:43 05:34-06:19/45	05:32 06:30-07:07/37	06:36 07:46-07:53/7	07:38	07:45	08:48 09:30-09:41/11
	22:32 06:23-07:07/44	21:47	20:31	19:09	16:49	15:58 09:43-10:28/45
3	04:44 05:34-06:19/45	05:34 06:30-07:06/36	06:38 07:42-07:56/14	07:40	07:47	08:50 09:32-09:41/9
	22:31 06:23-07:07/44	21:45	20:28	19:06	16:47	15:57 09:43-10:28/45
4	04:45 05:35-06:20/45	05:36 06:31-07:05/34	06:40 07:40-07:57/17	07:42	07:50	08:52 09:34-09:40/6
	22:31 06:23-07:08/45	21:43	20:25	19:03	16:45	15:56 09:44-10:29/45
5	04:46 05:36-06:20/44	05:38 06:33-07:04/31	06:42 07:38-07:58/20	07:44 08:56-09:04/8	07:52	08:53 09:35-09:38/3
	22:30 06:24-07:08/44	21:41	20:23	19:00	16:43	15:55 09:44-10:28/44
6	04:47 05:36-06:20/44	05:40 06:34-07:04/30	06:44 07:37-07:59/22	07:46 08:53-09:08/15	07:54	08:55 09:45-10:29/44
	22:29 06:24-07:08/44	21:39	20:20	18:58	16:40	15:54
7	04:49 05:37-06:21/44	05:42 06:36-07:06/30	06:46 07:36-07:59/23	07:48 08:51-09:09/18	07:56	08:56 09:46-10:30/44
	22:28 06:24-07:09/45	21:36	20:17	18:55	16:38	15:54
8	04:50 05:37-06:21/44	05:44 06:38-07:07/29	06:48 07:35-08:00/25	07:50 08:49-09:10/21	07:59	08:58 09:47-10:31/44
	22:28 06:24-07:09/45	21:34	20:15	18:52	16:36	15:53
9	04:51 05:38-06:21/43	05:46 06:38-07:08/30	06:50 07:35-08:00/25	07:53 08:48-09:11/23	08:01	08:59 09:47-10:30/43
	22:27 06:23-07:09/46	21:32	20:12	18:50	16:34	15:53
10	04:52 05:40-06:22/42	05:48 06:37-07:08/31	06:52 07:34-08:08/34	07:55 08:47-09:11/24	08:03 09:27-09:31/4	09:01 09:48-10:31/43
	22:26 06:23-07:09/46	21:29	20:09	18:47	16:32	15:52
11	04:54 05:40-06:22/42	05:50 06:36-07:08/32	06:54 07:34-08:10/36	07:57 08:47-09:12/25	08:05 09:23-09:34/11	09:02 09:49-10:31/42
	22:24 06:24-07:10/46	21:27	20:06	18:44	16:30	15:52
12	04:55 05:41-06:22/41	05:52 06:36-07:09/33	06:56 07:34-08:11/37	07:59 08:46-09:12/26	08:08 09:22-09:37/15	09:03 09:49-10:31/42
	22:23 06:24-07:10/46	21:25	20:04	18:42	16:28	15:51
13	04:56 05:42-06:21/39	05:54 06:36-07:09/33	06:59 07:34-08:12/38	08:01 08:46-09:11/25	08:10 09:21-09:38/17	09:04 09:50-10:32/42
	22:22 06:24-07:10/46	21:22	20:01	18:39	16:26	15:51
14	04:58 05:44-06:22/38	05:57 06:36-07:09/33	07:01 07:34-08:12/38	08:03 08:45-09:11/26	08:12 09:20-09:39/19	09:06 09:51-10:33/42
	22:21 06:24-07:11/47	21:20	19:58	18:36	16:24	15:51
15	04:59 05:46-06:22/36	05:59 06:36-07:09/33	07:03 07:35-08:13/38	08:05 08:46-09:11/25	08:14 09:19-09:40/21	09:07 09:52-10:33/41
	22:19 06:24-07:11/47	21:17	19:55	18:34	16:22 09:45-09:54/9	15:51
16	05:01 05:52-06:21/29	06:01 06:36-07:09/33	07:05 07:36-08:13/37	08:08 08:46-09:10/24	08:16 09:20-09:41/21	09:08 09:52-10:08/16
	22:18 06:24-07:11/47	21:15	19:53	18:31	16:20 09:44-09:57/13	15:51 10:09-10:33/24
17	05:03 05:53-06:22/29	06:03 06:37-07:08/31	07:07 07:38-08:12/34	08:10 08:46-09:09/23	08:19 09:19-09:41/22	09:09 09:53-10:34/41
	22:17 06:24-07:11/47	21:13	19:50	18:29	16:19 09:42-09:58/16	15:51
18	05:04 05:53-06:21/28	06:05 06:37-07:08/31	07:09 07:41-08:12/31	08:12 08:48-09:08/20	08:21 09:19-09:59/40	09:09 09:54-10:09/15
	22:15 06:24-07:11/47	21:10	19:47	18:26	16:17	15:51 10:10-10:34/24
19	05:06 05:54-06:22/28	06:07 06:39-07:07/28	07:11 07:47-08:11/24	08:14 08:48-09:07/19	08:23 09:19-10:01/42	09:10 09:55-10:10/15
	22:14 06:25-07:12/47	21:07	19:44	18:23	16:15	15:51 10:11-10:35/24
20	05:08 05:54-06:21/27	06:09 06:41-07:06/25	07:13 07:47-08:10/23	08:16 08:50-09:04/14	08:25 09:19-10:01/42	09:11 09:54-10:09/15
	22:12 06:24-07:11/47	21:05	19:42	18:21	16:14	15:52 10:10-10:35/25
21	05:09 05:55-06:21/26	06:11 06:43-07:05/22	07:15 07:48-08:09/21	08:19 08:53-09:02/9	08:27 09:20-10:03/43	09:12 09:55-10:10/15
	22:10 06:25-07:12/47	21:02	19:39	18:18	16:12 10:08-10:16/8	15:52 10:11-10:36/25
22	05:11 05:55-06:21/26	06:13 06:47-07:03/16	07:17 07:48-08:07/19	08:21	08:29 09:20-10:03/43	09:12 09:55-10:10/15
	22:09 06:25-07:12/47	21:00	19:36	18:16	16:10 10:06-10:18/12	15:53 10:11-10:36/25
23	05:13 05:55-06:20/25	06:15 06:48-07:01/13	07:19 07:49-08:06/17	08:23	08:31 09:20-10:03/43	09:13 09:56-10:11/15
	22:07 06:25-07:11/46	20:57	19:33	18:13	16:09 10:04-10:19/15	15:53 10:12-10:37/25
24	05:15 05:57-06:20/23	06:17 06:51-06:57/6	07:21 07:51-08:03/12	08:25	08:33 09:21-10:21/60	09:13 09:57-10:12/15
	22:05 06:26-07:11/45	20:55	19:30	18:11	16:07	15:54 10:13-10:37/24
25	05:17 05:58-06:19/21	06:19	07:23	07:27	08:35 09:21-10:22/61	09:13 09:57-10:12/15
	22:03 06:25-07:11/46	20:52	19:28	17:08	16:06	15:54 10:13-10:37/24
26	05:18 05:58-06:17/19	06:21	07:25	07:30	08:37 09:22-10:23/61	09:14 09:57-10:38/41
	22:01 06:26-07:11/45	20:49	19:25	17:06	16:05	15:55
27	05:20 06:00-06:17/17	06:23	07:27	07:32	08:39 09:22-10:24/62	09:14 09:57-10:38/41
	22:00 06:27-07:11/44	20:47	19:22	17:03	16:03	15:56
28	05:22 06:02-06:15/13	06:26	07:29	07:34	08:41 09:24-10:25/61	09:14 09:57-10:39/42
	21:58 06:27-07:10/43	20:44	19:19	17:01	16:02	15:57
29	05:24 06:03-06:12/9	06:28	07:32	07:36	08:43 09:25-10:26/61	09:14 09:58-10:39/41
	21:56 06:27-07:09/42	20:42	19:17	16:59	16:01	15:58
30	05:26 06:28-07:09/41	06:30	07:34	07:39	08:45 09:26-10:26/60	09:14 09:58-10:40/42
	21:54	20:39	19:14	16:56	16:00	15:59
31	05:28 06:28-07:09/41	06:32		07:41		09:14 09:58-10:40/42
	21:52	20:36		16:54		16:00
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	2357	696	592	345	882	1340

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 16 - V-2_21 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14	08:36 09:08-09:19/11	07:30 08:03-08:17/14	07:06 08:16-09:15/59	05:48 06:38-06:56/18	04:49
	16:02	17:00 09:38-10:02/24	18:05 09:33-10:07/34	20:12	21:16	22:16
2	09:13	08:34 09:06-09:20/14	07:27 08:00-08:19/19	07:03 08:16-09:14/58	05:45 06:40-06:55/15	04:48
	16:03	17:03 09:37-10:05/28	18:07 09:34-10:05/31	20:14	21:18	22:17
3	09:13	08:32 09:05-09:22/17	07:25 07:58-08:20/22	07:01 08:16-09:13/57	05:43 06:41-06:53/12	04:47
	16:04	17:05 09:36-10:07/31	18:09 09:35-10:02/27	20:16	21:21	22:18
4	09:12	08:30 09:04-09:23/19	07:22 07:57-08:22/25	06:58 08:17-09:13/56	05:41 06:44-06:51/7	04:46
	16:05	17:07 09:35-10:09/34	18:11 09:39-10:00/21	20:18	21:23	22:20
5	09:12	08:28 09:03-09:24/21	07:19 07:56-08:22/26	06:55 08:18-09:11/53	05:38	04:45
	16:07	17:10 09:33-10:09/36	18:13 09:43-09:55/12	20:20	21:25	22:21
6	09:11	08:25 08:58-09:25/27	07:17 07:55-08:22/27	06:52 08:18-09:10/52	05:36	04:44
	16:08	17:12 09:32-10:11/39	18:16	20:23	21:27	22:22
7	09:11	08:23 08:56-09:26/30	07:14 07:55-08:23/28	06:50 08:21-09:09/48	05:34	04:43
	16:10	17:14 09:32-10:12/40	18:18	20:25 07:16-07:23/7	21:29	22:24
8	09:10	08:21 08:54-09:25/31	07:11 07:43-07:50/7	06:47 08:22-09:08/46	05:32	04:42
	16:11	17:16 09:30-10:13/43	18:20 07:54-08:23/29	20:27 07:13-07:25/12	21:31	22:25
9	09:09	08:19 08:53-09:26/33	07:09 07:39-08:23/44	06:44 08:25-09:06/41	05:29	04:41
	16:13	17:19 09:30-10:14/44	18:22	20:29 07:10-07:26/16	21:33	22:26
10	09:08	08:17 08:51-09:26/35	07:06 07:37-08:22/45	06:42 08:29-09:04/35	05:27	04:41
	16:15	17:21 09:29-10:14/45	18:24	20:31 07:09-07:28/19	21:35	22:27
11	09:08	08:14 08:51-09:26/35	07:03 07:36-08:22/46	06:39 08:30-09:02/32	05:25	04:40
	16:17	17:23 09:29-10:15/46	18:27	20:33 07:07-07:28/21	21:37	22:28
12	09:07	08:12 08:50-09:25/35	07:01 07:34-08:22/48	06:36 08:31-08:59/28	05:23	04:39
	16:18	17:26 09:28-10:15/47	18:29	20:36 07:06-07:28/22	21:39	22:29
13	09:06	08:10 08:50-09:25/35	06:58 07:33-08:21/48	06:34 08:34-08:57/23	05:21	04:39
	16:20	17:28 09:28-10:16/48	18:31	20:38 07:06-07:29/23	21:41	22:29
14	09:04	08:07 08:50-09:24/34	06:55 07:32-08:19/47	06:31 08:37-08:52/15	05:19	04:39
	16:22	17:30 09:27-10:16/49	18:33	20:40 07:05-07:28/23	21:43	22:30
15	09:03	08:05 08:50-09:23/33	06:53 07:31-08:18/47	06:28 07:05-07:28/23	05:17	04:38
	16:24	17:33 09:27-10:17/50	18:35	20:42	21:45	22:31
16	09:02	08:03 08:50-09:22/32	06:50 07:31-08:17/46	06:26 07:05-07:27/22	05:15	04:38
	16:26	17:35 09:27-10:16/49	18:38	20:44	21:47	22:32
17	09:01	08:00 08:51-09:20/29	06:47 07:28-08:14/46	06:23 07:06-07:27/21	05:13	04:38
	16:28	17:37 09:27-10:17/50	18:40	20:46	21:49	22:32
18	08:59	07:58 08:51-09:15/24	06:44 07:25-08:12/47	06:20 06:47-06:54/7	05:11	04:38
	16:30	17:40 09:27-10:17/50	18:42	20:48 07:05-07:26/21	21:51	22:33
19	08:58	07:55 08:52-09:14/22	06:42 07:23-08:13/50	06:18 06:45-06:57/12	05:09	04:38
	16:32	17:42 09:26-10:16/50	18:44	20:51 07:06-07:25/19	21:53	22:33
20	08:57	07:53 08:52-09:13/21	06:39 07:22-08:15/53	06:15 06:42-06:58/16	05:07	04:38
	16:34	17:44 09:27-10:16/49	18:46	20:53 07:07-07:23/16	21:55	22:33
21	08:55	07:50 08:53-09:11/18	06:36 07:21-08:15/54	06:13 06:40-06:59/19	05:06	04:38
	16:36	17:46 09:27-10:16/49	18:48	20:55 07:09-07:22/13	21:57	22:34
22	08:54	07:48 08:55-09:10/15	06:33 07:19-08:16/57	06:10 06:39-06:59/20	05:04	04:38
	16:38	17:49 09:28-10:16/48	18:50	20:57 07:11-07:18/7	21:59	22:34
23	08:52	07:45 08:58-09:06/8	06:31 07:18-08:16/58	06:08 06:38-07:00/22	05:02	04:38
	16:40	17:51 09:28-10:15/47	18:53	20:59	22:01	22:34
24	08:50	07:43 09:28-10:14/46	06:28 07:18-08:17/59	06:05 06:38-07:00/22	05:00	04:39
	16:42	17:53	18:55	21:01	22:03	22:34
25	08:49	07:40 09:29-10:13/44	06:25 07:17-08:17/60	06:03 06:37-07:00/23	04:59	04:39
	16:45	17:55	18:57	21:03	22:04	22:34
26	08:47	07:38 09:29-10:12/43	06:22 07:16-08:17/61	06:00 06:37-07:00/23	04:57	04:39
	16:47	17:58	18:59	21:06	22:06	22:34
27	08:45	07:35 09:30-10:10/40	06:20 07:15-08:16/61	05:58 06:37-06:59/22	04:56	04:40
	16:49	18:00	19:01	21:08	22:08	22:34
28	08:43	07:33 08:09-08:12/3	06:17 07:16-08:17/61	05:55 06:37-06:59/22	04:54	04:40
	16:51	18:02 09:32-10:09/37	19:03	21:10	22:09	22:34
29	08:42		07:14 08:15-09:16/61	05:53 06:38-06:58/20	04:53	04:41
	16:54		20:05	21:12	22:11	22:33
30	08:40 09:45-09:57/12		07:11 08:15-09:16/61	05:50 06:38-06:58/20	04:52	04:42
	16:56		20:08	21:14	22:13	22:33
31	08:38 09:12-09:14/2		07:09 08:15-09:15/60		04:50	
	16:58 09:41-10:01/20		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	34	1788	1542	1136	52	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 16 - V-2_21 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August		September		October		November		December
1	04:43	05:30		06:34	08:29-09:01/32	07:36	08:13-09:01/48	07:43	08:21-08:55/34	08:47
	22:32	21:49		20:34	07:06-07:27/21	19:11		16:52	08:59-09:44/45	15:59
2	04:43	05:32		06:36	08:27-09:02/35	07:38	08:13-09:01/48	07:45	08:23-08:56/33	08:48
	22:32	21:47		20:31	07:07-07:26/19	19:09		16:49	09:00-09:44/44	15:58
3	04:44	05:34		06:38	08:23-09:04/41	07:40	08:14-09:00/46	07:47	08:23-08:55/32	08:50
	22:31	21:45		20:28	07:08-07:24/16	19:06		16:47	09:00-09:42/42	15:57
4	04:45	05:36		06:40	08:19-09:05/46	07:42	08:15-09:00/45	07:50	08:26-08:55/29	08:52
	22:31	21:43		20:25	07:10-07:22/12	19:03		16:45	09:01-09:42/41	15:56
5	04:46	05:38		06:42	08:17-09:05/48	07:44	08:17-08:29/12	07:52	08:28-08:54/26	08:53
	22:30	21:41		20:23	07:12-07:19/7	19:00	08:30-08:59/29	16:43	09:02-09:41/39	15:55
6	04:47	05:40		06:44	08:15-09:06/51	07:46	08:31-09:00/29	07:54	08:33-08:54/21	08:55
	22:29	21:39		20:20		18:58		16:41	09:04-09:40/36	15:54
7	04:49	05:42		06:46	08:13-09:07/54	07:48	08:31-08:59/28	07:56	08:34-08:53/19	08:56
	22:28	21:36		20:17		18:55		16:38	09:04-09:38/34	15:54
8	04:50	05:44		06:48	08:11-09:07/56	07:50	08:31-08:58/27	07:59	08:35-08:52/17	08:58
	22:27	21:34		20:15		18:52		16:36	09:06-09:37/31	15:53
9	04:51	05:46	06:52-07:01/9	06:50	08:10-09:07/57	07:53	08:31-08:56/25	08:01	08:36-08:51/15	08:59
	22:27	21:32		20:12		18:50	10:15-10:32/17	16:34	09:08-09:35/27	15:53
10	04:52	05:48	06:50-07:03/13	06:52	08:09-09:07/58	07:55	08:32-08:55/23	08:03	08:39-08:49/10	09:01
	22:25	21:29		20:09		18:47	10:11-10:35/24	16:32	09:10-09:34/24	15:52
11	04:54	05:50	06:48-07:04/16	06:54	08:08-09:07/59	07:57	08:34-08:54/20	08:05	09:12-09:31/19	09:02
	22:24	21:27		20:06		18:44	10:09-10:38/29	16:30		15:52
12	04:55	05:52	06:47-07:05/18	06:57	08:07-09:07/60	07:59	08:35-08:52/17	08:08	09:17-09:28/11	09:03
	22:23	21:25		20:04		18:42	10:07-10:40/33	16:28		15:52
13	04:57	05:54	06:46-07:05/19	06:59	08:06-09:07/61	08:01	08:38-08:48/10	08:10		09:04
	22:22	21:22		20:01		18:39	10:05-10:41/36	16:26		15:51
14	04:58	05:57	06:45-07:06/21	07:01	08:06-09:07/61	08:03	10:03-10:42/39	08:12		09:06
	22:21	21:20		19:58		18:36		16:24		15:51
15	05:00	05:59	06:44-07:06/22	07:03	08:05-09:06/61	08:05	10:03-10:44/41	08:14		09:07
	22:19	21:17		19:55		18:34		16:22		15:51
16	05:01	06:01	06:44-07:06/22	07:05	08:05-09:06/61	08:08	10:01-10:44/43	08:16		09:08
	22:18	21:15		19:53		18:31		16:21		15:51
17	05:03	06:03	06:44-07:06/22	07:07	08:05-09:05/60	08:10	10:00-10:45/45	08:19		09:08
	22:17	21:12		19:50		18:29		16:19		15:51
18	05:04	06:05	06:44-07:06/22	07:09	08:05-09:05/60	08:12	10:00-10:46/46	08:21		09:09
	22:15	21:10		19:47		18:26		16:17		15:51
19	05:06	06:07	06:44-07:06/22	07:11	08:04-09:04/60	08:14	09:28-09:38/10	08:23		09:10
	22:14	21:07		19:44		18:23	09:59-10:46/47	16:15		15:51
20	05:08	06:09	06:44-07:05/21	07:13	08:05-09:03/58	08:16	09:25-09:40/15	08:25		09:11
	22:12	21:05		19:42		18:21	09:58-10:46/48	16:14		15:52
21	05:09	06:11	06:44-07:05/21	07:15	08:05-09:02/57	08:19	09:24-09:43/19	08:27		09:11
	22:10	21:02	07:16-07:25/9	19:39		18:18	09:58-10:47/49	16:12		15:52
22	05:11	06:13	06:45-07:03/18	07:17	08:05-09:00/55	08:21	09:22-09:43/21	08:29		09:12
	22:09	21:00	07:13-07:27/14	19:36		18:16	09:57-10:47/50	16:10		15:53
23	05:13	06:15	06:47-07:02/15	07:19	08:06-08:59/53	08:23	09:21-09:44/23	08:31		09:13
	22:07	20:57	07:11-07:28/17	19:33		18:13	09:57-10:46/49	16:09		15:53
24	05:15	06:17	06:49-07:00/11	07:21	08:07-08:57/50	08:25	09:21-09:47/26	08:33		09:13
	22:05	20:55	07:10-07:29/19	19:30		18:11	09:57-10:47/50	16:07		15:54
25	05:17	06:19	06:51-06:57/6	07:23	08:08-08:56/48	07:27	08:20-08:50/30	08:35		09:13
	22:03	20:52	07:08-07:29/21	19:28		17:08	08:57-09:46/49	16:06		15:54
26	05:19	06:21	07:07-07:29/22	07:25	08:09-08:56/47	07:30	08:20-08:52/32	08:37		09:14
	22:01	20:49		19:25		17:06	08:56-09:46/50	16:05		15:55
27	05:20	06:24	07:07-07:29/22	07:27	08:11-08:57/46	07:32	08:20-08:53/33	08:39		09:14
	22:00	20:47		19:22		17:04	08:57-09:46/49	16:03		15:56
28	05:22	06:26	07:06-07:29/23	07:29	08:13-08:58/45	07:34	08:19-08:53/34	08:41		09:14
	21:58	20:44		19:19		17:01	08:57-09:45/48	16:02		15:57
29	05:24	06:28	08:37-08:53/16	07:32	08:12-09:00/48	07:36	08:20-08:55/35	08:43		09:14
	21:56	20:42	07:06-07:29/23	19:17		16:59	08:57-09:46/49	16:01		15:58
30	05:26	06:30	08:34-08:57/23	07:34	08:12-09:00/48	07:38	08:20-08:55/35	08:45		09:14
	21:54	20:39	07:06-07:28/22	19:14		16:56	08:57-09:45/48	16:00		15:59
31	05:28	06:32	08:31-08:59/28			07:41	08:21-08:55/34			09:14
	21:52	20:36	07:06-07:28/22			16:54	08:58-09:45/47			16:00
Potential sun hours	534	472		385		322		244		211
Sum of minutes with flicker	0	579		1651		1740		629		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 17 - V-2_22 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:14	08:36	07:30	07:06 07:41-08:10/29	05:48	04:49	04:43	05:30	06:34 07:44-07:59/15	07:36 08:28-08:58/30	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:16	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27 08:02-08:09/7	07:03 07:41-08:09/28	05:45	04:48	04:43	05:32	06:36 07:42-08:01/19	07:38 08:27-08:57/30	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25 07:58-08:13/15	07:00 07:40-08:09/29	05:43	04:47	04:44	05:34	06:38 07:40-08:02/22	07:40 08:27-08:57/30	07:47	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22 07:56-08:15/19	06:58 07:41-08:09/28	05:41	04:46	04:45	05:36	06:40 07:39-08:03/24	07:42 08:26-08:56/30	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:28	07:19 07:54-08:17/23	06:55 07:41-08:08/27	05:38	04:45	04:46	05:38	06:42 07:38-08:03/25	07:44 08:26-08:55/29	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17 07:52-08:17/25	06:52 07:41-08:07/26	05:36	04:44	04:47	05:40	06:44 07:37-08:03/26	07:46 08:27-08:55/28	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14 07:51-08:18/27	06:50 07:42-08:07/25	05:34	04:43	04:49	05:42	06:46 07:36-08:03/27	07:48 08:28-08:54/26	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11 07:50-08:19/29	06:47 07:42-08:06/24	05:32	04:42	04:50	05:44	06:48 07:35-08:03/28	07:50 08:28-08:52/24	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09 07:49-08:19/30	06:44 07:42-08:04/22	05:29	04:41	04:51	05:46	06:50 07:35-08:03/28	07:53 08:29-08:51/22	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06 07:49-08:19/30	06:42 07:44-08:03/19	05:27	04:41	04:52	05:48	06:52 07:34-08:03/29	07:55 08:31-08:48/17	08:03	09:01
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:08	08:14	07:03 07:48-08:18/30	06:39 07:45-08:00/15	05:25	04:40	04:54	05:50	06:54 07:34-08:02/28	07:57 08:34-08:46/12	08:05	09:02
	16:16	17:23	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:07	08:12	07:01 07:48-08:19/31	06:36 07:47-07:56/9	05:23	04:39	04:55	05:52	06:56 07:34-08:01/27	07:59	08:08	09:03
	16:18	17:26	18:29	20:35	21:39	22:29	22:23	21:25	20:04	18:42	16:28	15:51
13	09:06	08:10	06:58 07:48-08:18/30	06:34	05:21	04:39	04:56	05:54	06:59 07:34-08:00/26	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55 07:48-08:17/29	06:31	05:19	04:39	04:58	05:57	07:01 07:34-07:59/25	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52 07:48-08:16/28	06:28	05:17	04:38	04:59	05:59	07:03 07:34-07:57/23	08:05	08:14	09:07
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50 07:49-08:16/27	06:26	05:15	04:38	05:01	06:01	07:05 07:35-07:55/20	08:08	08:16	09:08
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:53	18:31	16:20	15:51
17	09:01	08:00	06:47 07:50-08:14/24	06:23	05:13	04:38	05:03	06:03	07:07 07:36-07:53/17	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:17	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44 07:50-08:12/22	06:20	05:11	04:38	05:04	06:05	07:09 07:39-07:48/9	08:12	08:21	09:09
	16:30	17:39	18:42	20:48	21:51	22:33	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42 07:52-08:10/18	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:51	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39 07:54-08:08/14	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36 08:00-08:02/2	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19 08:39-08:51/12	08:23	08:31	09:12
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21 08:36-08:53/17	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25 06:52-06:59/7	06:02	04:59	04:39	05:17	06:19	07:23 08:34-08:55/21	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22 06:48-07:03/15	06:00	04:57	04:39	05:18	06:21	07:25 08:32-08:56/24	07:30	08:37	09:14
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20 06:46-07:05/19	05:57	04:56	04:40	05:20	06:23	07:27 08:30-08:56/26	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:33	06:17 06:45-07:08/23	05:55	04:54	04:40	05:22	06:26	07:29 08:29-08:57/28	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:34	21:58	20:44	19:19	17:01	16:02	15:57
29	08:42		07:14 07:44-08:08/24	05:53	04:53	04:41	05:24	06:28	07:31 08:29-08:58/29	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11 07:42-08:09/27	05:50	04:51	04:42	05:26	06:30	07:34 08:28-08:58/30	07:38	08:45	09:14
	16:56		20:08	21:14	22:13	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09 07:41-08:09/28		04:50		05:28	06:32 07:47-07:56/9		07:41		09:14
	16:58		20:10		22:14		21:52	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	603	281	0	0	0	9	605	278	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 18 - V-2_24 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:21	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:25	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:29	22:23	21:25	20:03	18:42	16:28	15:51
13	09:05	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:56	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	04:59	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:08	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:57	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:34	22:10	21:02	19:39	18:18	16:12	15:52
22	08:54	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:09	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:06	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:56	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:51	04:42	05:26	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:54	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 19 - V-2_25 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:22	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:41	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:03	18:42	16:28	15:51
13	09:05	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:56	07:00	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	04:59	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:02	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:21	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:52	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:51	04:42	05:26	06:30	07:33	07:38	08:45	09:14
	16:56		20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 20 - V-2_27 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May		June	
1	09:13		08:36	09:33-10:04/31	07:30	08:08-08:55/47	07:06	05:48		04:49	05:54-06:13/19
	16:02		17:00		18:04		20:12	21:16		22:16	
2	09:13		08:34	09:33-10:05/32	07:27	08:07-08:54/47	07:03	05:45		04:48	05:55-06:13/18
	16:03		17:03		18:07		20:14	21:18		22:17	
3	09:13		08:32	09:34-10:05/31	07:25	08:07-08:54/47	07:01	05:43		04:47	05:55-06:12/17
	16:04		17:05		18:09		20:16	21:21		22:18	
4	09:12		08:30	09:34-10:05/31	07:22	08:07-08:54/47	06:58	05:41		04:46	05:56-06:12/16
	16:05		17:07		18:11		20:18	21:23		22:20	
5	09:12		08:28	09:34-10:05/31	07:19	08:07-08:52/45	06:55	05:38		04:45	05:56-06:11/15
	16:07		17:10		18:13		20:20	21:25		22:21	
6	09:11		08:25	09:35-10:05/30	07:17	08:07-08:51/44	06:52	05:36		04:44	05:57-06:10/13
	16:08		17:12		18:16		20:23	21:27		22:22	
7	09:11		08:23	09:36-10:05/29	07:14	08:07-08:50/43	06:50	05:34		04:43	05:58-06:10/12
	16:10		17:14		18:18		20:25	21:29		22:23	
8	09:10		08:21	09:36-10:04/28	07:11	08:08-08:49/41	06:47	05:32		04:42	05:59-06:09/10
	16:11		17:16		18:20		20:27	21:31		22:25	
9	09:09		08:19	09:37-10:04/27	07:09	08:09-08:47/38	06:44	05:29		04:41	06:01-06:09/8
	16:13		17:19		18:22		20:29	21:33		22:26	
10	09:08		08:17	09:37-10:02/25	07:06	08:09-08:44/35	06:42	05:27	05:58-06:07/9	04:41	06:01-06:08/7
	16:15		17:21		18:24		20:31	21:35		22:27	
11	09:07		08:14	09:39-10:01/22	07:03	08:32-08:39/7	06:39	05:25	05:56-06:09/13	04:40	06:04-06:06/2
	16:17		17:23		18:27	08:11-08:27/16	20:33	21:37		22:28	
12	09:07		08:12	09:40-09:59/19	07:01	08:14-08:24/10	06:36	05:23	05:54-06:10/16	04:39	
	16:18		17:26		18:29		20:35	21:39		22:29	
13	09:05		08:10	09:43-09:58/15	06:58		06:34	05:21	05:53-06:11/18	04:39	
	16:20		17:28		18:31		20:38	21:41		22:29	
14	09:04		08:07	09:46-09:53/7	06:55		06:31	05:19	05:52-06:12/20	04:39	
	16:22		17:30		18:33		20:40	21:43		22:30	
15	09:03		08:05	08:35-08:37/2	06:53		06:28	05:17	05:51-06:12/21	04:38	
	16:24		17:33		18:35		20:42	21:45		22:31	
16	09:02		08:03	08:31-08:41/10	06:50		06:26	05:15	05:50-06:13/23	04:38	
	16:26		17:35		18:38		20:44	21:47		22:31	
17	09:01		08:00	08:29-08:43/14	06:47		06:23	05:13	05:50-06:14/24	04:38	
	16:28		17:37		18:40		20:46	21:49		22:32	
18	08:59		07:58	08:27-08:44/17	06:44		06:20	05:11	05:50-06:14/24	04:38	
	16:30		17:40		18:42		20:48	21:51		22:33	
19	08:58	09:44-09:49/5	07:55	08:25-08:46/21	06:42		06:18	05:09	05:49-06:14/25	04:38	
	16:32		17:42		18:44		20:51	21:53		22:33	
20	08:57	09:40-09:52/12	07:53	08:25-08:49/24	06:39		06:15	05:07	05:50-06:14/24	04:38	
	16:34		17:44		18:46		20:53	21:55		22:33	
21	08:55	09:39-09:54/15	07:50	08:24-08:51/27	06:36		06:13	05:06	05:49-06:14/25	04:38	
	16:36		17:46		18:48		20:55	21:57		22:34	
22	08:54	09:37-09:56/19	07:48	08:24-08:52/28	06:33		06:10	05:04	05:50-06:14/24	04:38	
	16:38		17:49		18:50		20:57	21:59		22:34	
23	08:52	09:36-09:57/21	07:45	08:18-08:53/35	06:31		06:08	05:02	05:50-06:14/24	04:38	
	16:40		17:51		18:53		20:59	22:01		22:34	
24	08:50	09:35-09:59/24	07:43	08:14-08:53/39	06:28		06:05	05:00	05:50-06:14/24	04:39	
	16:42		17:53		18:55		21:01	22:02		22:34	
25	08:49	09:35-10:00/25	07:40	08:13-08:55/42	06:25		06:03	04:59	05:51-06:15/24	04:39	
	16:45		17:55		18:57		21:03	22:04		22:34	
26	08:47	09:34-10:01/27	07:38	08:11-08:55/44	06:22		06:00	04:57	05:50-06:14/24	04:39	
	16:47		17:58		18:59		21:06	22:06		22:34	
27	08:45	09:34-10:02/28	07:35	08:10-08:55/45	06:20		05:58	04:56	05:51-06:14/23	04:40	
	16:49		18:00		19:01		21:08	22:08		22:34	
28	08:43	09:34-10:02/28	07:33	08:09-08:55/46	06:17		05:55	04:54	05:52-06:14/22	04:40	
	16:51		18:02		19:03		21:10	22:09		22:34	
29	08:42	09:34-10:03/29			07:14		05:53	04:53	05:52-06:14/22	04:41	
	16:54				20:05		21:12	22:11		22:33	
30	08:40	09:34-10:04/30			07:11		05:50	04:52	05:53-06:14/21	04:42	
	16:56				20:08		21:14	22:12		22:33	
31	08:38	09:34-10:05/31			07:09			04:50	05:53-06:13/20		
	16:58				20:10			22:14			
Potential sun hours	231		264		366		428	512		534	
Sum of minutes with flicker	294		752		467		0	470		137	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 20 - V-2_27 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September	October		November		December
1	04:43		05:30	06:05-06:20/15	06:34	07:36	08:55-09:01/6	07:43	09:07-09:32/25	08:46
	22:32		21:49		20:33	19:11		16:52		15:59
2	04:43	06:06-06:11/5	05:32	06:07-06:19/12	06:36	07:38	08:51-09:05/14	07:45	09:06-09:33/27	08:48
	22:32		21:47		20:31	19:09		16:49		15:58
3	04:44	06:05-06:13/8	05:34	06:08-06:16/8	06:38	07:40	09:08-09:20/12	07:47	09:05-09:33/28	08:50
	22:31		21:45		20:28	19:06	08:48-09:07/19	16:47		15:57
4	04:45	06:05-06:14/9	05:36		06:40	07:42	08:46-09:23/37	07:50	09:05-09:35/30	08:52
	22:31		21:43		20:25	19:03		16:45		15:56
5	04:46	06:04-06:15/11	05:38		06:42	07:44	08:45-09:24/39	07:52	09:04-09:35/31	08:53
	22:30		21:41		20:23	19:00		16:43		15:55
6	04:47	06:04-06:16/12	05:40		06:44	07:46	08:44-09:26/42	07:54	09:05-09:35/30	08:55
	22:29		21:39		20:20	18:58		16:41		15:54
7	04:49	06:03-06:17/14	05:42		06:46	07:48	08:43-09:27/44	07:56	09:04-09:35/31	08:56
	22:28		21:36		20:17	18:55		16:38		15:54
8	04:50	06:02-06:18/16	05:44		06:48	07:50	08:42-09:27/45	07:59	09:04-09:36/32	08:58
	22:27		21:34		20:15	18:52		16:36		15:53
9	04:51	06:02-06:18/16	05:46		06:50	07:53	08:42-09:28/46	08:01	09:04-09:35/31	08:59
	22:26		21:32		20:12	18:50		16:34		15:53
10	04:52	06:02-06:20/18	05:48		06:52	07:55	08:41-09:28/47	08:03	09:05-09:36/31	09:01
	22:25		21:29		20:09	18:47		16:32		15:52
11	04:54	06:02-06:20/18	05:50		06:54	07:57	08:42-09:29/47	08:05	09:05-09:35/30	09:02
	22:24		21:27		20:06	18:44		16:30		15:52
12	04:55	06:01-06:21/20	05:52		06:56	07:59	08:41-09:28/47	08:08	09:05-09:36/31	09:03
	22:23		21:25		20:04	18:42		16:28		15:52
13	04:57	06:01-06:21/20	05:54		06:59	08:01	08:41-09:28/47	08:10	09:05-09:35/30	09:04
	22:22		21:22		20:01	18:39		16:26		15:51
14	04:58	06:01-06:22/21	05:57		07:01	08:03	08:42-09:27/45	08:12	09:06-09:34/28	09:05
	22:21		21:20		19:58	18:36		16:24		15:51
15	05:00	06:00-06:22/22	05:59		07:03	08:05	08:43-09:27/44	08:14	09:07-09:35/28	09:07
	22:19		21:17		19:55	18:34		16:22		15:51
16	05:01	06:01-06:23/22	06:01		07:05	08:08	08:44-09:27/43	08:16	09:07-09:34/27	09:08
	22:18		21:15		19:53	18:31		16:21		15:51
17	05:03	06:00-06:23/23	06:03		07:07	08:10	08:45-09:26/41	08:18	09:09-09:34/25	09:08
	22:17		21:12		19:50	18:29		16:19		15:51
18	05:04	06:00-06:23/23	06:05		07:09	08:12	08:47-09:25/38	08:21	09:09-09:33/24	09:09
	22:15		21:10		19:47	18:26		16:17		15:51
19	05:06	06:00-06:24/24	06:07		07:11	08:14	08:50-09:24/34	08:23	09:11-09:32/21	09:10
	22:13		21:07		19:44	18:23		16:15		15:51
20	05:08	06:00-06:25/25	06:09		07:13	08:16	08:55-09:22/27	08:25	09:12-09:31/19	09:11
	22:12		21:05		19:41	18:21		16:14		15:52
21	05:09	06:00-06:24/24	06:11		07:15	08:18	08:55-09:21/26	08:27	09:14-09:29/15	09:11
	22:10		21:02		19:39	18:18		16:12		15:52
22	05:11	06:00-06:25/25	06:13		07:17	08:21	08:55-09:19/24	08:29	09:16-09:28/12	09:12
	22:09		21:00		19:36	18:16		16:10		15:53
23	05:13	06:00-06:24/24	06:15		07:19	08:23	08:56-09:16/20	08:31	09:19-09:25/6	09:12
	22:07		20:57		19:33	18:13		16:09		15:53
24	05:15	06:00-06:25/25	06:17		07:21	08:25	08:57-09:14/17	08:33		09:13
	22:05		20:55		19:30	18:11		16:07		15:54
25	05:17	06:01-06:25/24	06:19		07:23	07:27	07:59-08:12/13	08:35		09:13
	22:03		20:52		19:28	17:08		16:06		15:54
26	05:19	06:00-06:24/24	06:21		07:25	07:30	08:02-08:11/9	08:37		09:13
	22:01		20:49		19:25	17:06		16:05		15:55
27	05:20	06:01-06:24/23	06:24		07:27	07:32		08:39		09:14
	21:59		20:47		19:22	17:03		16:03		15:56
28	05:22	06:02-06:24/22	06:26		07:29	07:34	09:14-09:24/10	08:41		09:14
	21:58		20:44		19:19	17:01		16:02		15:57
29	05:24	06:02-06:23/21	06:28		07:32	07:36	09:11-09:28/17	08:43		09:14
	21:56		20:41		19:17	16:59		16:01		15:58
30	05:26	06:02-06:22/20	06:30		07:34	07:38	09:09-09:29/20	08:45		09:14
	21:54		20:39		19:14	16:56		16:00		15:59
31	05:28	06:03-06:21/18	06:32			07:41	09:08-09:31/23			09:14
	21:52		20:36			16:54				16:00
Potential sun hours	534		472		385	322		244		211
Sum of minutes with flicker	577		35		0	943		592		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 21 - V-2_30 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April		May		June	
1	09:13	10:33-10:57/24	08:36	09:26-10:14/48	07:30	07:06		05:48	06:16-06:29/13	04:49	05:36-06:06/30
	16:02		17:00		18:05	20:12		21:16		22:15	05:25-05:30/5
2	09:13	10:34-10:57/23	08:34	09:53-10:13/20	07:27	07:03		05:45	06:14-06:31/17	04:48	05:36-06:06/30
	16:03		17:03	09:26-09:51/25	18:07	20:14		21:18		22:17	05:24-05:32/8
3	09:13	10:35-10:58/23	08:32	09:54-10:13/19	07:25	07:01		05:43	06:13-06:32/19	04:47	05:36-06:07/31
	16:04		17:05	09:27-09:52/25	18:09	20:16		21:21		22:18	05:23-05:33/10
4	09:12	10:35-10:58/23	08:30	09:56-10:11/15	07:22	06:58		05:41	06:12-06:33/21	04:46	05:36-06:07/31
	16:05		17:07	09:28-09:52/24	18:11	20:18		21:23		22:20	05:22-05:34/12
5	09:12	10:36-10:58/22	08:28	09:58-10:08/10	07:19	06:55		05:38	06:12-06:34/22	04:45	05:35-06:07/32
	16:07		17:10	09:28-09:51/23	18:13	20:20		21:25		22:21	05:21-05:34/13
6	09:11	10:36-10:58/22	08:25	09:29-09:50/21	07:17	06:52		05:36	06:11-06:34/23	04:44	05:20-06:07/47
	16:08		17:12		18:16	20:23		21:27		22:22	
7	09:11	10:37-10:58/21	08:23	09:31-09:50/19	07:14	06:50		05:34	06:11-06:35/24	04:43	05:20-06:08/48
	16:10		17:14		18:18	20:25		21:29		22:23	
8	09:10	09:53-09:58/5	08:21	09:31-09:48/17	07:11	06:47		05:32	06:10-06:35/25	04:42	05:19-06:07/48
	16:12	10:38-10:58/20	17:16		18:20	20:27		21:31		22:25	
9	09:09	09:51-10:01/10	08:19	09:34-09:47/13	07:09	06:44		05:29	06:10-06:35/25	04:41	05:19-06:08/49
	16:13	10:39-10:58/19	17:19		18:22	20:29		21:33		22:26	
10	09:08	09:51-10:03/12	08:17	09:36-09:43/7	07:06	06:42	07:13-07:24/11	05:27	06:10-06:35/25	04:41	05:18-06:08/50
	16:15	10:40-10:58/18	17:21		18:24	20:31		21:35		22:27	
11	09:07	09:50-10:05/15	08:14		07:03	06:39	07:10-07:26/16	05:25	06:10-06:35/25	04:40	05:18-06:09/51
	16:17	10:41-10:58/17	17:23		18:27	20:33		21:37		22:28	
12	09:06	09:49-10:05/16	08:12		07:01	06:36	07:07-07:27/20	05:23	06:10-06:34/24	04:40	05:17-06:08/51
	16:18	10:41-10:57/16	17:26		18:29	20:35		21:39		22:29	
13	09:05	09:48-10:07/19	08:10		06:58	06:34	07:06-07:29/23	05:21	06:10-06:34/24	04:39	05:17-06:09/52
	16:20	10:43-10:57/14	17:28		18:31	20:38		21:41		22:29	
14	09:04	09:49-10:09/20	08:07		06:55	06:31	07:04-07:29/25	05:19	06:10-06:33/23	04:39	05:17-06:09/52
	16:22	10:45-10:56/11	17:30		18:33	20:40		21:43		22:30	
15	09:03	09:48-10:09/21	08:05		06:53	06:28	07:04-07:30/26	05:17	06:10-06:33/23	04:38	05:17-06:10/53
	16:24	10:47-10:54/7	17:33		18:35	20:42		21:45		22:31	
16	09:02	09:48-10:11/23	08:03		06:50	06:26	07:03-07:30/27	05:15	06:12-06:33/21	04:38	05:16-06:09/53
	16:26		17:35		18:38	20:44		21:47		22:31	
17	09:01	09:47-10:11/24	08:00		06:47	06:23	07:02-07:31/29	05:13	06:12-06:32/20	04:38	05:16-06:09/53
	16:28		17:37		18:40	20:46		21:49		22:32	
18	08:59	09:47-10:12/25	07:58		06:44	06:20	07:01-07:30/29	05:11	06:12-06:31/19	04:38	05:16-06:09/53
	16:30		17:40		18:42	20:48		21:51		22:32	
19	08:58	09:47-10:13/26	07:55		06:42	06:18	07:02-07:31/29	05:09	06:14-06:31/17	04:38	05:16-06:10/54
	16:32		17:42		18:44	20:51		21:53	05:48-05:53/5	22:33	
20	08:57	09:47-10:14/27	07:53		06:39	06:15	07:01-07:30/29	05:07	06:15-06:29/14	04:38	05:17-06:11/54
	16:34	09:32-09:40/8	17:44		18:46	20:53		21:55	05:44-05:56/12	22:33	
21	08:55	09:47-10:14/27	07:50		06:36	06:13	07:01-07:30/29	05:06	06:16-06:27/11	04:38	05:17-06:11/54
	16:36	09:30-09:43/13	17:46		18:48	20:55		21:57	05:42-05:57/15	22:34	
22	08:54	09:47-10:14/27	07:48		06:33	06:10	07:01-07:29/28	05:04	06:18-06:26/8	04:38	05:17-06:11/54
	16:38	09:29-09:44/15	17:49		18:50	20:57		21:59	05:41-05:59/18	22:34	
23	08:52	09:47-10:15/28	07:45		06:31	06:08	07:01-07:28/27	05:02	05:40-06:00/20	04:38	05:17-06:11/54
	16:40	09:28-09:46/18	17:51		18:53	20:59		22:01		22:34	
24	08:50	09:27-10:15/48	07:43		06:28	06:05	07:01-07:27/26	05:00	05:39-06:01/22	04:39	05:18-06:11/53
	16:43		17:53		18:55	21:01		22:02		22:34	
25	08:49	09:27-10:15/48	07:40		06:25	06:03	07:02-07:26/24	04:59	05:39-06:02/23	04:39	05:18-06:11/53
	16:45		17:56		18:57	21:03		22:04		22:34	
26	08:47	09:26-10:15/49	07:38		06:22	06:00	07:03-07:26/23	04:57	05:38-06:02/24	04:39	05:18-06:11/53
	16:47		17:58		18:59	21:06		22:06		22:34	
27	08:45	09:26-10:16/50	07:35		06:20	05:58	07:03-07:23/20	04:56	05:37-06:03/26	04:40	05:19-06:12/53
	16:49		18:00		19:01	21:08		22:08		22:34	
28	08:43	09:26-10:16/50	07:33		06:17	05:55	07:05-07:22/17	04:54	05:37-06:04/27	04:41	05:20-06:12/52
	16:51		18:02		19:03	21:10		22:09		22:33	
29	08:42	09:26-10:16/50			07:14	05:53	07:07-07:20/13	04:53	05:37-06:05/28	04:41	05:20-06:12/52
	16:54				20:05	21:12		22:11		22:33	
30	08:40	09:26-10:16/50			07:11	05:50	06:19-06:27/8	04:52	05:37-06:05/28	04:42	05:21-06:12/51
	16:56				20:08	21:14	07:12-07:16/4	22:12		22:33	
31	08:38	09:26-10:15/49			07:09			04:50	05:37-06:06/29		
	16:58				20:10			22:14	05:26-05:27/1		
Potential sun hours	231		264		366	428		512		534	
Sum of minutes with flicker	1053		286		0	483		721		1499	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 21 - V-2_30 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:43 05:22-06:13/51	05:30 06:20-06:45/25	06:34 07:09-07:25/16	07:36	07:43 09:05-09:13/8	08:46 09:32-09:47/15
	22:32	21:49	20:33	19:11	16:52	15:59 10:23-10:40/17
2	04:44 05:22-06:12/50	05:32 06:20-06:45/25	06:36 07:11-07:22/11	07:38	07:45 09:03-09:16/13	08:48 09:34-09:46/12
	22:32	21:47	20:31	19:09	16:49	15:58 10:23-10:41/18
3	04:44 05:23-06:13/50	05:34 06:20-06:45/25	06:38	07:40	07:47 09:01-09:18/17	08:50 09:35-09:45/10
	22:31	21:45	20:28	19:06	16:47	15:57 10:23-10:42/19
4	04:45 05:24-06:13/49	05:36 06:19-06:44/25	06:40	07:42	07:50 09:00-09:20/20	08:52 09:37-09:43/6
	22:31	21:43	20:25	19:03	16:45	15:56 10:22-10:42/20
5	04:46 05:25-06:13/48	05:38 06:20-06:44/24	06:42	07:44	07:52 08:59-09:20/21	08:53 10:22-10:43/21
	22:30	21:41	20:23	19:00	16:43	15:55
6	04:48 05:42-06:13/31	05:40 06:20-06:44/24	06:44	07:46	07:54 09:28-09:39/11	08:55 10:22-10:44/22
	22:29 05:26-05:41/15	21:39	20:20	18:58	16:41 08:59-09:21/22	15:55
7	04:49 05:42-06:13/31	05:42 06:21-06:43/22	06:46	07:48	07:56 09:26-09:41/15	08:56 10:23-10:45/22
	22:28 05:27-05:41/14	21:36	20:17	18:55	16:38 08:58-09:21/23	15:54
8	04:50 05:42-06:13/31	05:44 06:21-06:43/22	06:48	07:50	07:59 09:25-09:43/18	08:58 10:22-10:45/23
	22:27 05:28-05:40/12	21:34	20:15	18:52	16:36 08:58-09:22/24	15:53
9	04:51 05:42-06:13/31	05:46 06:22-06:42/20	06:50	07:53	08:01 09:23-09:44/21	08:59 10:23-10:46/23
	22:26 05:29-05:40/11	21:32	20:12	18:50	16:34 08:57-09:22/25	15:53
10	04:52 05:43-06:14/31	05:48 06:23-06:41/18	06:52	07:55	08:03 08:58-09:46/48	09:01 10:23-10:46/23
	22:25 05:31-05:40/9	21:29	20:09	18:47	16:32	15:52
11	04:54 05:44-06:14/30	05:50 06:23-06:39/16	06:54	07:57	08:05 08:57-09:46/49	09:02 10:24-10:47/23
	22:24 05:32-05:39/7	21:27	20:06	18:44	16:30	15:52
12	04:55 05:44-06:13/29	05:52 06:25-06:37/12	06:57	07:59	08:08 08:58-09:47/49	09:03 10:24-10:48/24
	22:23 05:33-05:37/4	21:25	20:04	18:42	16:28	15:52
13	04:57 05:44-06:13/29	05:55 06:28-06:34/6	06:59	08:01	08:10 08:58-09:48/50	09:04 10:25-10:49/24
	22:22	21:22 07:18-07:25/7	20:01	18:39	16:26	15:51
14	04:58 05:45-06:13/28	05:57 07:14-07:28/14	07:01	08:03	08:12 08:58-09:48/50	09:05 10:25-10:49/24
	22:21	21:20	19:58	18:36	16:24	15:51
15	05:00 05:46-06:13/27	05:59 07:12-07:30/18	07:03	08:05	08:14 08:59-09:49/50	09:06 10:25-10:50/25
	22:19	21:17	19:55	18:34	16:22	15:51
16	05:01 05:47-06:13/26	06:01 07:11-07:31/20	07:05	08:08	08:16 08:59-09:48/49	09:07 10:26-10:50/24
	22:18	21:15	19:53	18:31	16:21	15:51
17	05:03 05:47-06:12/25	06:03 07:09-07:32/23	07:07	08:10	08:18 09:01-09:49/48	09:08 10:26-10:51/25
	22:16	21:12	19:50	18:29	16:19	15:51
18	05:04 05:47-06:11/24	06:05 07:08-07:33/25	07:09	08:12	08:21 09:01-09:49/48	09:09 10:27-10:51/24
	22:15	21:10	19:47	18:26	16:17	15:51
19	05:06 05:49-06:11/22	06:07 07:08-07:34/26	07:11	08:14	08:23 09:22-09:50/28	09:10 10:26-10:51/25
	22:13	21:07	19:44	18:23	16:15 09:03-09:21/18	15:52
20	05:08 05:50-06:11/21	06:09 07:07-07:34/27	07:13	08:16	08:25 09:22-09:49/27	09:11 10:27-10:52/25
	22:12	21:05	19:42	18:21	16:14 09:04-09:19/15	15:52
21	05:10 06:30-06:34/4	06:11 07:06-07:34/28	07:15	08:18	08:27 09:22-09:49/27	09:11 10:28-10:53/25
	22:10 05:51-06:10/19	21:02	19:39	18:18	16:12 09:05-09:18/13	15:52
22	05:11 06:28-06:37/9	06:13 07:06-07:35/29	07:17	08:21	08:29 09:23-09:50/27	09:12 10:28-10:53/25
	22:09 05:52-06:09/17	21:00	19:36	18:16	16:11 09:08-09:16/8	15:53
23	05:13 06:25-06:38/13	06:15 07:05-07:35/30	07:19	08:23	08:31 09:24-09:49/25	09:12 10:29-10:54/25
	22:07 05:53-06:07/14	20:57	19:33	18:13	16:09	15:53
24	05:15 06:24-06:40/16	06:17 07:05-07:34/29	07:21	08:25	08:33 09:24-09:49/25	09:13 10:29-10:54/25
	22:05 05:56-06:05/9	20:55	19:30	18:11	16:08	15:54
25	05:17 06:24-06:41/17	06:19 07:04-07:33/29	07:23	07:27	08:35 09:25-09:49/24	09:13 10:29-10:54/25
	22:03	20:52	19:28	17:08	16:06	15:54
26	05:19 06:22-06:42/20	06:21 07:04-07:32/28	07:25	07:30	08:37 09:26-09:49/23	09:13 10:30-10:54/24
	22:01	20:49	19:25	17:06	16:05	15:55
27	05:20 06:22-06:43/21	06:24 07:04-07:32/28	07:27	07:32	08:39 09:27-09:48/21	09:14 10:30-10:55/25
	21:59	20:47	19:22	17:04	16:03 10:26-10:33/7	15:56
28	05:22 06:22-06:44/22	06:26 07:05-07:31/26	07:29	07:34	08:41 09:28-09:48/20	09:14 10:31-10:55/24
	21:58	20:44	19:19	17:01	16:02 10:25-10:35/10	15:57
29	05:24 06:21-06:44/23	06:28 07:05-07:30/25	07:32	07:36	08:43 09:29-09:47/18	09:14 10:32-10:56/24
	21:56	20:41	19:17	16:59	16:01 10:23-10:37/14	15:58
30	05:26 06:20-06:44/24	06:30 07:06-07:29/23	07:34	07:38	08:45 09:31-09:48/17	09:14 10:32-10:57/25
	21:54	20:39	19:14	16:56	16:00 10:24-10:39/15	15:59
31	05:28 06:20-06:44/24	06:32 07:07-07:27/20		07:41		09:14 10:32-10:56/24
	21:51	20:36		16:54		16:00
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	988	719	27	0	1061	765

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 22 - V-2_32 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:51
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:11	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:17	17:23	18:27	20:33	21:37	22:28	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:03	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:56	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:20	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 23 - V-2_33 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:29	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:51
	16:05	17:07	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:58	08:58
	16:11	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:49	16:34	15:53
10	09:08	08:16	07:06	06:41	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:28	15:51
13	09:05	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:56	07:00	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	04:59	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:02	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:20	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:54	19:30	18:11	16:07	15:54
25	08:48	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:11	05:50	04:51	04:42	05:26	06:30	07:33	07:38	08:44	09:14
	16:56		20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 24 - V-2_34 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:31	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:29	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:22	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:54
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:58	08:58
	16:11	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:49	16:34	15:53
10	09:08	08:16	07:06	06:41	05:27	04:41	04:52	05:48	06:52	07:54	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:00	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:28	15:51
13	09:05	08:10	06:58	06:33	05:21	04:39	04:56	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:56	07:00	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	04:59	05:59	07:02	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:02	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:20	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:20	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:30	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:38	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:54	19:30	18:11	16:07	15:54
25	08:48	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:11	05:50	04:51	04:42	05:26	06:30	07:33	07:38	08:44	09:14
	16:56		20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:37		07:09		04:50		05:28	06:32		07:40		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 25 - V-2_35 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:01	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:43	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:29	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:51
	16:05	17:07	18:11	20:18	21:23	22:20	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:22	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:54
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:58	08:58
	16:11	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:17	17:23	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:39	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:03	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:56	07:00	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:02	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:20	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:05	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:07	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:54	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:40	05:22	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:11	05:50	04:52	04:42	05:26	06:30	07:33	07:38	08:44	09:14
	16:56		20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 26 - V-2_36 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:51
	16:05	17:07	18:11	20:18	21:23	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:10	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:55
7	09:11	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:59	08:58
	16:12	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:17	17:23	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:25	20:03	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:20	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:52
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:55	19:30	18:11	16:07	15:54
25	08:49	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:19	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08	22:07	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:41	05:22	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50	04:52	04:42	05:26	06:30	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 27 - V-2_37 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48 06:54-07:14/20	04:49	04:43	05:30 06:28-07:01/33	06:34 07:04-07:15/11	07:36	07:43	08:46
	16:02	17:00	18:04	20:12	21:16 06:19-06:53/34	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45 06:55-07:13/18	04:48	04:44	05:32 06:28-07:02/34	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18 06:19-06:53/34	22:17	22:32	21:47	20:31	19:09	16:49	15:58
3	09:13	08:32	07:25	07:01	05:43 06:57-07:11/14	04:47	04:44	05:34 06:26-07:02/36	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20 06:18-06:53/35	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:30	07:22	06:58	05:41 07:00-07:08/8	04:46	04:45	05:36 06:26-07:02/36	06:40	07:42	07:50	08:52
	16:05	17:07	18:11	20:18	21:23 06:18-06:54/36	22:20	22:31	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38 06:17-06:54/37	04:45	04:46	05:38 06:26-07:03/37	06:42	07:44	07:52	08:53
	16:07	17:10	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36 06:17-06:54/37	04:44	04:48	05:40 06:26-07:03/37	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:23	21:27	22:22	22:29	21:39	20:20	18:58	16:41	15:55
7	09:11	08:23	07:14	06:50	05:34 06:17-06:53/36	04:43	04:49	05:42 06:27-07:03/36	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32 06:16-06:52/36	04:42	04:50	05:44 06:27-07:03/36	06:48	07:50	07:59	08:58
	16:12	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29 06:16-06:52/36	04:41	04:51	05:46 07:08-07:19/11	06:50	07:53	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:26	22:26	21:32 06:27-07:03/36	20:12	18:50	16:34	15:53
10	09:08	08:17	07:06	06:42	05:27 06:17-06:52/35	04:41	04:52	05:48 07:06-07:21/15	06:52	07:55	08:03	09:01
	16:15	17:21	18:24	20:31	21:35	22:27	22:25	21:29 06:28-07:03/35	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39 07:05-07:16/11	05:25 06:17-06:52/35	04:40	04:54	05:50 07:03-07:22/19	06:54	07:57	08:05	09:02
	16:17	17:23	18:27	20:33	21:37	22:28	22:24	21:27 06:27-07:01/34	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36 07:02-07:18/16	05:23 06:18-06:51/33	04:40	04:55	05:52 07:02-07:23/21	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:25 06:28-07:01/33	20:04	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34 07:00-07:20/20	05:21 06:18-06:50/32	04:39	04:57	05:55 07:01-07:24/23	06:59	08:01	08:10	09:04
	16:20	17:28	18:31	20:38	21:41	22:29	22:22	21:22 06:29-07:00/31	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31 06:58-07:20/22	05:19 06:18-06:49/31	04:39	04:58	05:57 07:00-07:25/25	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:21	21:20 06:30-06:59/29	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28 06:57-07:21/24	05:17 06:19-06:47/28	04:38	05:00	05:59 06:59-07:25/26	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17 06:32-06:58/26	19:55	18:34	16:22	15:51
16	09:02	08:03	06:50	06:26 06:56-07:21/25	05:15 06:19-06:46/27	04:38	05:01	06:01 06:58-07:26/28	07:05	08:08	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15 06:35-06:57/22	19:53	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23 06:56-07:22/26	05:13 06:21-06:45/24	04:38	05:03	06:03 06:58-07:26/28	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12 06:39-06:55/16	19:50	18:29	16:19	15:51
18	08:59	07:58	06:44	06:20 06:54-07:21/27	05:11 06:22-06:43/21	04:38	05:04	06:05 06:57-07:26/29	07:09	08:12	08:21	09:09
	16:30	17:40	18:42	20:48	21:51	22:32	22:15	21:10 06:41-06:53/12	19:47	18:26	16:17	15:51
19	08:58	07:55	06:42	06:18 06:54-07:21/27	05:09 06:24-06:41/17	04:38	05:06	06:07 06:57-07:26/29	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07 06:45-06:48/3	19:44	18:23	16:15	15:52
20	08:57	07:53	06:39	06:15 06:52-07:20/28	05:07 06:27-06:40/13	04:38	05:08	06:09 06:57-07:26/29	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13 06:52-07:21/29	05:06 06:32-06:36/4	04:38	05:10	06:11 06:57-07:26/29	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10 06:51-07:20/29	05:04	04:38	05:11	06:13 06:57-07:25/28	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:08 06:51-07:20/29	05:02	04:38	05:13 06:41-06:48/7	06:15 06:57-07:25/28	07:19	08:23	08:31	09:12
	16:40	17:51	18:53	20:59	22:01	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05 06:51-07:20/29	05:00	04:39	05:15 06:36-06:51/15	06:17 06:57-07:25/28	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01 06:37-06:43/6	22:02	22:34	22:05	20:55	19:30	18:11	16:08	15:54
25	08:49	07:40	06:25	06:03 06:51-07:20/29	04:59	04:39	05:17 06:34-06:53/19	06:19 06:57-07:24/27	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03 06:34-06:47/13	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00 06:51-07:19/28	04:57	04:39	05:19 06:32-06:54/22	06:21 06:58-07:23/25	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:06 06:32-06:49/17	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:58 06:51-07:18/27	04:56	04:40	05:20 06:31-06:56/25	06:24 06:58-07:23/25	07:27	07:32	08:39	09:14
	16:49	18:00	19:01	21:08 06:27-06:50/23	22:08	22:34	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55 06:52-07:18/26	04:54	04:41	05:22 06:30-06:58/28	06:26 06:58-07:22/24	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10 06:24-06:51/27	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53 06:22-07:17/55	04:53	04:41	05:24 06:30-06:58/28	06:28 06:59-07:21/22	07:31	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:40		07:11	05:50 06:21-07:16/55	04:52	04:42	05:26 06:28-06:59/31	06:30 07:00-07:19/19	07:34	07:38	08:45	09:14
	16:56		20:08	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28 06:28-07:00/32	06:32 07:02-07:18/16		07:41		09:14
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Sum of minutes with flicker	0	0	0	648	681	0	207	1116	11	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 28 - V-2_40 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13	08:36 09:28-10:05/37	07:30 08:28-09:45/77	07:06 08:12-08:26/14	05:48	04:49
	16:02	17:00	18:05	20:12 08:28-08:34/6	21:16	22:15
2	09:13	08:34 09:28-10:06/38	07:27 08:28-09:44/76	07:03 08:15-08:22/7	05:46	04:48
	16:03	17:03	18:07	20:14	21:18	22:17
3	09:13	08:32 09:29-10:07/38	07:25 08:27-09:42/75	07:01	05:43	04:47
	16:04	17:05	18:09	20:16	21:20	22:18
4	09:12	08:30 09:30-10:07/37	07:22 08:27-09:42/75	06:58	05:41	04:46
	16:06	17:07	18:11	20:18	21:23	22:20
5	09:12	08:27 09:30-10:08/38	07:19 08:26-09:40/74	06:55	05:39	04:45
	16:07	17:10	18:13	20:20	21:25	22:21
6	09:11	08:25 09:30-10:09/39	07:17 08:26-09:38/72	06:52	05:36	04:44
	16:09	17:12 09:08-09:17/9	18:16	20:23	21:27	22:22
7	09:11	08:23 09:29-10:09/40	07:14 08:26-09:35/69	06:50	05:34	04:43
	16:10	17:14 09:04-09:28/24	18:18 07:51-07:59/8	20:25	21:29	22:23
8	09:10	08:21 09:02-10:10/68	07:11 08:26-09:34/68	06:47	05:32	04:42
	16:12	17:17	18:20 07:47-08:04/17	20:27	21:31	22:24
9	09:09	08:19 09:01-10:11/70	07:09 08:26-09:32/66	06:44	05:30	04:42
	16:13	17:19	18:22 07:42-08:06/24	20:29	21:33	22:26
10	09:08	08:17 08:56-10:10/74	07:06 08:26-09:29/63	06:42	05:27	04:41
	16:15	17:21	18:24 07:37-08:07/30	20:31	21:35	22:27
11	09:07	08:14 08:54-10:11/77	07:03 08:26-09:26/60	06:39	05:25	04:40
	16:17	17:23	18:27 07:34-08:08/34	20:33	21:37	22:28
12	09:06	08:12 08:51-10:10/79	07:01 08:28-09:21/53	06:36	05:23	04:40
	16:19	17:26	18:29 07:33-08:09/36	20:35	21:39	22:28
13	09:05	08:10 08:50-10:10/80	06:58 08:28-09:12/44	06:34	05:21	04:39
	16:20	17:28	18:31 07:24-08:10/46	20:38	21:41	22:29
14	09:04	08:07 08:49-10:10/81	06:55 07:21-08:10/49	06:31	05:19	04:39
	16:22	17:30 08:38-08:48/10	18:33 08:28-09:09/41	20:40	21:43	22:30
15	09:03	08:05 08:36-10:10/94	06:53 07:19-08:10/51	06:28	05:17	04:38
	16:24	17:33	18:35 08:29-09:06/37	20:42	21:45	22:31
16	09:02	08:03 08:34-10:09/95	06:50 07:18-08:11/53	06:26	05:15	04:38
	16:26	17:35	18:38 08:31-09:02/31	20:44	21:47	22:31
17	09:01	08:00 08:33-10:09/96	06:47 07:16-08:10/54	06:23	05:13	04:38
	16:28	17:37	18:40 08:33-08:57/24	20:46	21:49	22:32
18	08:59	07:58 08:32-10:07/95	06:44 07:14-08:10/56	06:20	05:11	04:38
	16:30	17:40	18:42 08:35-08:54/19	20:48	21:51	22:32
19	08:58 09:33-09:40/7	07:55 08:31-10:06/95	06:42 07:12-08:09/57	06:18	05:09	04:38
	16:32	17:42	18:44 08:39-08:48/9	20:50	21:53	22:33
20	08:57 09:32-09:43/11	07:53 08:31-10:05/94	06:39 07:11-08:09/58	06:15	05:07	04:38
	16:34	17:44	18:46	20:53	21:55	22:33
21	08:55 09:31-09:45/14	07:50 08:30-10:03/93	06:36 07:10-08:08/58	06:13	05:06	04:38
	16:36	17:46	18:48	20:55	21:57	22:33
22	08:53 09:29-09:46/17	07:48 08:30-10:01/91	06:33 07:09-08:07/58	06:10	05:04	04:38
	16:38	17:49	18:50	20:57	21:59	22:34
23	08:52 09:29-09:48/19	07:45 08:30-09:59/89	06:31 07:08-08:06/58	06:08	05:02	04:38
	16:40	17:51	18:53	20:59	22:01	22:34
24	08:50 09:28-09:49/21	07:43 08:30-09:56/86	06:28 07:08-08:05/57	06:05	05:01	04:39
	16:43	17:53	18:55	21:01	22:02	22:34
25	08:49 09:28-09:51/23	07:40 08:31-09:47/76	06:25 07:07-08:03/56	06:03	04:59	04:39
	16:45	17:56	18:57	21:03	22:04	22:34
26	08:47 09:27-09:55/28	07:38 08:31-09:47/76	06:22 07:07-08:01/54	06:00	04:57	04:40
	16:47	17:58	18:59	21:06	22:06	22:34
27	08:45 09:27-09:57/30	07:35 08:30-09:46/76	06:20 07:07-07:58/51	05:58	04:56	04:40
	16:49	18:00	19:01	21:08	22:08	22:34
28	08:43 09:27-09:59/32	07:33 08:28-09:45/77	06:17 07:08-07:56/48	05:55	04:54	04:41
	16:51	18:02	19:03	21:10	22:09	22:33
29	08:41 09:27-10:01/34		07:14 08:08-08:49/41	05:53	04:53	04:41
	16:54		20:05	21:12	22:11	22:33
30	08:40 09:28-10:03/35		07:11 08:09-08:46/37	05:50	04:52	04:42
	16:56		20:08	21:14	22:12	22:33
31	08:38 09:28-10:04/36		07:09 08:10-08:42/32		04:50	
	16:58		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	307	2072	2156	27	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 28 - V-2_40 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:43	05:30	06:34	07:36 09:07-09:53/46 08:07-08:10/3	07:43 08:26-09:40/74	08:46
	22:32	21:49	20:33	19:11 08:11-08:49/38	16:52	15:59
2	04:44	05:32	06:36	07:38 09:06-10:03/57	07:45 08:31-09:40/69	08:48
	22:32	21:47	20:31	19:09 08:12-08:47/35	16:50	15:58
3	04:45	05:34	06:38	07:40 09:05-10:06/61	07:47 08:32-09:39/67	08:50
	22:31	21:45	20:28	19:06 08:14-08:46/32	16:47	15:57
4	04:46	05:36	06:40	07:42 09:04-10:08/64	07:50 08:59-09:39/40 08:34-08:49/15	08:52
	22:31	21:43	20:25	19:03 08:16-08:44/28	16:45 08:50-08:57/7	15:56
5	04:47	05:38	06:42	07:44 09:03-10:10/67	07:52 09:00-09:39/39	08:53
	22:30	21:41	20:23	19:00 08:20-08:41/21	16:43 08:38-08:46/8	15:55
6	04:48	05:40	06:44	07:46 09:03-10:11/68	07:54 09:00-09:38/38	08:55
	22:29	21:39	20:20	18:58 08:26-08:39/13	16:41	15:55
7	04:49	05:42	06:46	07:48 09:02-10:13/71	07:56 09:00-09:38/38	08:56
	22:28	21:36	20:17	18:55	16:38	15:54
8	04:50	05:44	06:48	07:50 09:02-10:14/72	07:59 08:59-09:37/38	08:58
	22:27	21:34	20:15	18:52	16:36	15:53
9	04:51	05:46	06:50	07:53 09:01-10:15/74	08:01 08:59-09:37/38	08:59
	22:26	21:32	20:12	18:50	16:34	15:53
10	04:53	05:48	06:52 08:09-08:14/5	07:55 09:01-10:16/75	08:03 08:58-09:36/38	09:00
	22:25	21:29	20:09	18:47	16:32	15:52
11	04:54	05:50	06:54 08:05-08:18/13	07:57 09:02-10:18/76	08:05 08:59-09:35/36	09:02
	22:24	21:27	20:06 08:22-08:25/3	18:44	16:30	15:52
12	04:55	05:53	06:57 08:02-08:34/32	07:59 09:02-10:18/76	08:07 08:59-09:34/35	09:03
	22:23	21:25	20:04	18:42	16:28	15:52
13	04:57	05:55	06:59 08:00-08:37/37	08:01 09:02-10:18/76	08:10 08:59-09:33/34	09:04
	22:22	21:22	20:01	18:39	16:26	15:51
14	04:58	05:57	07:01 07:59-08:39/40	08:03 09:02-10:18/76	08:12 08:59-09:31/32	09:05
	22:21	21:20	19:58	18:36	16:24	15:51
15	05:00	05:59	07:03 07:58-08:44/46	08:05 09:03-10:19/76	08:14 09:00-09:30/30	09:06
	22:19	21:17	19:55	18:34	16:22	15:51
16	05:01	06:01	07:05 07:56-08:47/51	08:08 09:03-10:19/76	08:16 09:00-09:28/28	09:07
	22:18	21:15	19:53	18:31	16:21	15:51
17	05:03	06:03	07:07 07:56-08:49/53	08:10 09:02-10:24/82	08:18 09:02-09:24/22	09:08
	22:16	21:12	19:50	18:29	16:19	15:51
18	05:05	06:05	07:09 07:55-08:51/56	08:12 09:02-10:28/86	08:21 09:02-09:22/20	09:09
	22:15	21:10	19:47	18:26	16:17	15:51
19	05:06	06:07	07:11 07:55-08:52/57	08:14 09:01-10:31/90	08:23 09:04-09:23/19	09:10
	22:13	21:07	19:44	18:23	16:15	15:52
20	05:08	06:09	07:13 07:54-08:52/58	08:16 09:01-10:33/92	08:25 09:04-09:21/17	09:11
	22:12	21:05	19:42	18:21	16:14	15:52
21	05:10	06:11	07:15 07:54-08:53/59	08:18 09:01-10:34/93	08:27 09:06-09:20/14	09:11
	22:10	21:02	19:39	18:18	16:12	15:52
22	05:11	06:13	07:17 07:54-08:53/59	08:21 09:01-10:36/95	08:29 09:08-09:20/12	09:12
	22:08	21:00	19:36	18:16	16:11	15:53
23	05:13	06:15	07:19 07:55-08:53/58	08:23 09:01-10:37/96	08:31 09:10-09:17/7	09:12
	22:07	20:57	19:33	18:13	16:09	15:53
24	05:15	06:17	07:21 07:55-08:53/58	08:25 09:02-10:38/96	08:33	09:13
	22:05	20:55	19:30	18:11	16:08	15:54
25	05:17	06:19	07:23 07:56-08:53/57	07:27 08:03-09:38/95	08:35	09:13
	22:03	20:52	19:28 09:19-09:35/16	17:08	16:06	15:55
26	05:19	06:22	07:25 07:57-08:52/55	07:29 08:04-09:38/94	08:37	09:13
	22:01	20:49	19:25 09:16-09:38/22	17:06	16:05	15:55
27	05:21	06:24	07:27 07:59-08:52/53	07:32 08:06-09:39/93	08:39	09:14
	21:59	20:47	19:22 09:13-09:41/28	17:04	16:04	15:56
28	05:22	06:26	07:29 08:00-08:51/51	07:34 08:18-09:39/81	08:41	09:14
	21:57	20:44	19:19 09:11-09:46/35	17:01 08:08-08:17/9	16:02	15:57
29	05:24	06:28	07:32 08:01-08:51/50	07:36 08:20-09:40/80	08:43	09:14
	21:55	20:41	19:17 09:10-09:49/39	16:59	16:01	15:58
30	05:26	06:30	07:34 09:08-09:51/43	07:38 08:21-09:40/79	08:45	09:14
	21:53	20:39	19:14 08:03-08:50/47	16:56	16:00	15:59
31	05:28	06:32		07:41 08:24-09:40/76		09:14
	21:51	20:36		16:54		16:00
Potential sun hours	534	472	385	322	244	212
Sum of minutes with flicker	0	0	1181	2618	815	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 29 - V-2_41 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 10:12-11:40/88	08:36 10:25-11:36/71	07:30 08:23-09:27/64	07:06 08:00-08:12/12	05:48 06:17-06:43/26	04:49
	16:02	17:01 09:23-10:07/44	18:05	20:12	21:16	22:15
2	09:13 10:12-11:41/89	08:34 10:28-11:34/66	07:27 08:23-09:21/58	07:03 07:29-07:39/10	05:46 06:16-06:43/27	04:48
	16:03	17:03 09:22-10:07/45	18:07	20:14 08:02-08:08/6	21:18	22:17
3	09:13 10:11-11:41/90	08:32 09:15-10:06/51	07:25 08:24-08:57/33	07:01 07:26-07:40/14	05:43 06:16-06:44/28	04:47
	16:04	17:05 10:33-11:32/59	18:09 08:58-09:14/16	20:16	21:20	22:18
4	09:12 10:12-11:42/90	08:30 09:11-10:05/54 11:19-11:27/8	07:22 08:26-08:56/30	06:58 07:24-07:42/18	05:41 06:16-06:44/28	04:46
	16:06	17:07 10:34-11:18/44	18:11 09:03-09:10/7	20:18	21:23	22:20
5	09:12 10:12-11:42/90	08:27 09:10-10:03/53	07:19 08:27-08:55/28	06:55 07:22-07:43/21	05:39 06:15-06:44/29	04:45
	16:07	17:10 10:36-11:17/41	18:13	20:20	21:25	22:21
6	09:11 10:12-11:42/90	08:25 09:09-10:01/52	07:17 08:31-08:53/22	06:52 07:21-07:43/22	05:36 06:15-06:44/29	04:44
	16:09	17:12 10:37-11:15/38	18:16	20:23	21:27	22:22
7	09:11 10:12-11:43/91	08:23 10:38-11:12/34	07:14 08:33-08:50/17	06:50 07:21-07:43/22	05:34 06:15-06:44/29	04:43
	16:10	17:14 09:02-09:54/52	18:18	20:25	21:29	22:23
8	09:10 10:12-11:43/91	08:21 10:40-11:07/27	07:11 08:36-08:47/11	06:47 07:20-07:43/23	05:32 06:15-06:43/28	04:42
	16:12	17:17 09:00-09:55/55	18:20	20:27	21:31	22:24
9	09:09 10:12-11:43/91	08:19 10:43-11:04/21	07:09	06:44 07:19-07:42/23	05:30 06:16-06:43/27	04:42
	16:13	17:19 08:58-09:56/58	18:22	20:29	21:33	22:26
10	09:08 10:13-11:44/91	08:17 10:46-11:00/14	07:06	06:42 07:20-07:43/23	05:27 06:16-06:42/26	04:41
	16:15	17:21 08:56-09:55/59	18:25	20:31	21:35	22:27
11	09:07 10:12-11:43/91	08:14 08:56-09:56/60	07:03	06:39 07:19-07:42/23	05:25 06:16-06:41/25	04:40
	16:17	17:24	18:27	20:33	21:37	22:28
12	09:06 10:12-11:43/91	08:12 08:54-09:56/62	07:01	06:36 07:20-07:41/21	05:23 06:17-06:40/23	04:40
	16:19 09:47-09:52/5	17:26	18:29	20:35	21:39	22:28
13	09:05 10:13-11:44/91	08:10 08:54-09:56/62	06:58	06:34 07:20-07:40/20	05:21 06:17-06:39/22	04:39
	16:20 09:45-09:55/10	17:28	18:31	20:38	21:41	22:29
14	09:04 10:13-11:43/90	08:07 08:53-09:56/63	06:55	06:31 07:21-07:38/17	05:19 06:18-06:38/20	04:39
	16:22 09:43-09:56/13	17:30 08:36-08:40/4	18:33	20:40	21:43	22:30
15	09:03 10:13-11:44/91	08:05 08:34-08:52/18	06:53	06:28 07:23-07:36/13	05:17 06:19-06:36/17	04:39
	16:24 09:43-09:59/16	17:33 08:53-09:56/63	18:35	20:42	21:45	22:31
16	09:02 10:13-11:43/90	08:03 08:31-09:55/84	06:50	06:26 07:24-07:33/9	05:15 06:21-06:34/13	04:38
	16:26 09:42-09:59/17	17:35	18:38	20:44	21:47	22:31
17	09:01 10:14-11:44/90	08:00 08:29-09:55/86	06:47	06:23	05:13 06:23-06:31/8	04:38
	16:28 09:42-10:01/19	17:37	18:40	20:46	21:49	22:32
18	08:59 10:14-11:43/89	07:58 08:28-09:54/86	06:44	06:21	05:11	04:38
	16:30 09:41-10:02/21	17:40	18:42	20:48	21:51	22:32
19	08:58 10:14-11:42/88	07:55 08:27-09:53/86	06:42 07:07-07:12/5	06:18	05:09	04:38
	16:32 09:40-10:03/23	17:42	18:44	20:50	21:53	22:33
20	08:57 10:15-11:42/87	07:53 08:26-09:53/87	06:39 07:05-07:16/11	06:15	05:08	04:38
	16:34 09:41-10:04/23	17:44	18:46	20:53	21:55	22:33
21	08:55 10:15-11:42/87	07:50 08:24-09:51/87	06:36 07:02-07:18/16	06:13	05:06	04:38
	16:36 09:41-10:05/24	17:47	18:48	20:55	21:57	22:33
22	08:53 10:15-11:42/87	07:48 08:24-09:50/86	06:33 06:59-07:18/19	06:10	05:04	04:38
	16:38 09:40-10:05/25	17:49	18:51	20:57	21:59	22:34
23	08:52 10:16-11:42/86	07:45 08:23-09:48/85	06:31 06:58-07:19/21	06:08	05:02	04:38
	16:40 09:40-10:06/26	17:51	18:53	20:59	22:01	22:34
24	08:50 10:16-11:41/85	07:43 08:22-09:45/83	06:28 06:58-07:20/22	06:05	05:01	04:39
	16:43 09:40-10:06/26	17:53	18:55	21:01	22:02	22:34
25	08:49 10:17-11:41/84	07:40 08:23-09:43/80	06:25 06:57-07:19/22	06:03	04:59	04:39
	16:45 09:40-10:07/27	17:56	18:57	21:03	22:04	22:34
26	08:47 10:18-11:41/83	07:38 08:22-09:33/71	06:22 06:56-07:19/23	06:00 06:28-06:38/10	04:57	04:40
	16:47 09:40-10:07/27	17:58	18:59	21:06	22:06	22:34
27	08:45 10:19-11:41/82	07:35 08:22-09:31/69	06:20 06:56-07:18/22	05:58 06:26-06:40/14	04:56	04:40
	16:49 09:41-10:08/27	18:00	19:01	21:08	22:08	22:34
28	08:43 10:20-11:40/80	07:33 08:23-09:30/67	06:17 06:57-07:18/21	05:55 06:23-06:41/18	04:55	04:41
	16:51 09:41-10:08/27	18:02	19:03	21:10	22:09	22:33
29	08:41 10:21-11:39/78 09:30-09:40/10		07:14 07:57-08:17/20	05:53 06:21-06:42/21	04:53	04:41
	16:54 09:41-10:08/27		20:05	21:12	22:11	22:33
30	08:40 10:22-11:39/77		07:12 07:57-08:16/19	05:50 06:19-06:43/24	04:52	04:42
	16:56 09:27-10:08/41		20:08	21:14	22:12	22:33
31	08:38 10:24-11:38/74		07:09 07:57-08:14/17		04:50	
	16:58 09:26-10:08/42		20:10		22:14	
Potential sun hours	231	264	366	428	511	534
Sum of minutes with flicker	3178	2335	524	384	405	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 29 - V-2_41 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:43 22:32	05:30 06:27-06:51/24 21:49	06:34 07:18-07:40/22 20:33	07:36 19:11	07:43 10:15-10:30/15 16:52 08:26-09:25/59	08:46 09:54-11:25/91 15:59
2	04:44 22:32	05:32 06:26-06:52/26 21:47	06:36 07:18-07:41/23 20:31	07:38 19:09	07:45 10:12-10:34/22 16:50 08:28-09:25/57	08:48 09:55-11:26/91 15:58
3	04:45 22:31	05:34 06:26-06:53/27 21:45	06:38 07:17-07:40/23 20:28	07:40 19:06	07:47 10:10-10:38/28 16:47 08:30-09:24/54	08:50 09:55-11:26/91 15:57
4	04:46 22:31	05:36 06:25-06:52/27 21:43	06:40 07:17-07:40/23 20:25	07:42 19:03	07:50 09:24-09:27/3 08:33-09:23/50 16:45 10:08-10:42/34	08:52 09:56-11:27/91 15:56
5	04:47 22:30	05:38 06:25-06:53/28 21:41	06:42 07:17-07:40/23 20:23	07:44 09:15-09:21/6 19:00	07:52 08:39-09:31/52 16:43 10:07-10:45/38	08:53 09:57-11:28/91 15:55
6	04:48 22:29	05:40 06:25-06:53/28 21:39	06:44 07:17-07:39/22 20:20	07:46 09:11-09:26/15 18:58	07:54 08:40-09:33/53 16:41 10:05-10:47/42	08:55 09:58-11:28/90 15:55
7	04:49 22:28	05:42 06:25-06:53/28 21:36	06:46 07:17-07:38/21 20:17	07:48 09:08-09:28/20 18:55	07:56 08:42-09:35/53 16:39 10:05-10:58/53	08:56 09:59-11:29/90 15:54
8	04:50 22:27	05:44 06:25-06:53/28 21:34	06:48 07:18-07:36/18 20:15	07:50 09:04-09:29/25 18:52	07:59 08:45-09:36/51 16:36 10:02-11:02/60	08:58 09:59-11:29/90 15:53
9	04:51 22:26	05:46 06:25-06:53/28 21:32	06:50 07:20-07:35/15 20:12	07:53 09:01-09:30/29 18:50	08:01 09:58-11:05/67 16:34 08:53-09:37/44	08:59 10:00-11:30/90 15:53
10	04:53 22:25	05:48 06:26-06:53/27 21:29	06:52 07:22-07:32/10 20:09 07:56-08:01/5	07:55 08:59-09:31/32 18:47 09:34-09:46/12	08:03 09:55-11:07/72 16:32 08:54-09:38/44	09:00 10:01-11:30/89 15:52
11	04:54 22:24	05:51 06:26-06:53/27 21:27	06:55 07:52-08:04/12 20:06	07:57 08:58-09:50/52 18:44	08:05 09:54-11:09/75 16:30 08:57-09:39/42	09:02 10:02-11:31/89 15:52
12	04:55 22:23	05:53 06:26-06:51/25 21:25	06:57 07:50-08:06/16 20:04	07:59 08:57-09:58/61 18:42	08:07 09:53-11:10/77 16:28 08:58-09:39/41	09:03 10:02-11:31/89 15:52
13	04:57 22:22	05:55 06:27-06:50/23 21:22	06:59 07:48-08:07/19 20:01	08:01 08:56-10:01/65 18:39	08:10 09:53-11:11/78 09:02-09:12/10 16:26 09:13-09:40/27	09:04 10:03-11:31/88 15:52
14	04:58 22:21	05:57 06:29-06:49/20 21:20	07:01 07:47-08:07/20 19:58	08:03 08:55-10:03/68 18:36	08:12 09:51-11:12/81 16:24 09:13-09:40/27	09:05 10:03-11:31/88 15:51
15	05:00 22:19	05:59 06:31-06:48/17 21:17	07:03 07:46-08:08/22 19:55	08:05 08:55-10:05/70 18:34	08:14 09:51-11:13/82 16:23 09:13-09:40/27	09:06 10:05-11:33/88 15:51
16	05:01 22:18	06:01 06:33-06:46/13 21:15	07:05 07:45-08:08/23 19:53	08:08 08:54-10:11/77 18:31	08:16 09:51-11:14/83 16:21 09:13-09:40/27	09:07 10:06-11:33/87 15:51
17	05:03 22:16	06:03 06:35-06:44/9 21:12	07:07 07:45-08:07/22 19:50	08:10 08:54-10:15/81 18:29	08:18 09:51-11:15/84 16:19 09:14-09:41/27	09:08 10:06-11:34/88 15:51
18	05:05 22:15	06:05 21:10	07:09 07:44-08:07/23 19:47	08:12 08:55-10:17/82 18:26	08:21 09:50-11:15/85 16:17 09:14-09:40/26	09:09 10:06-11:33/87 15:52
19	05:06 22:13	06:07 21:07	07:11 07:44-08:06/22 19:44	08:14 08:55-10:20/85 18:24	08:23 09:51-11:17/86 16:15 09:15-09:41/26	09:10 10:07-11:34/87 15:52
20	05:08 22:12	06:09 21:05	07:13 07:44-08:05/21 19:42	08:16 08:55-10:21/86 18:21	08:25 09:50-11:17/87 16:14 09:15-09:41/26	09:11 10:08-11:35/87 15:52
21	05:10 22:10	06:11 21:02	07:15 07:45-08:04/19 19:39	08:18 08:56-10:22/86 18:18	08:27 09:50-11:17/87 16:12 09:16-09:40/24	09:11 10:08-11:35/87 15:52
22	05:11 22:08	06:13 21:00	07:17 07:46-08:03/17 19:36	08:21 08:56-10:23/87 18:16	08:29 09:51-11:18/87 16:11 09:17-09:40/23	09:12 10:09-11:36/87 15:53
23	05:13 22:07	06:15 20:57	07:19 07:48-08:01/13 19:33	08:23 08:57-10:24/87 18:13	08:31 09:51-11:19/88 16:09 09:17-09:40/23	09:12 10:09-11:36/87 15:53
24	05:15 22:05	06:17 20:55	07:21 07:50-07:58/8 19:31	08:25 08:58-10:25/87 18:11	08:33 09:51-11:20/89 16:08 09:18-09:39/21	09:13 10:10-11:37/87 15:54
25	05:17 22:03	06:19 20:52	07:23 19:28	07:27 07:59-09:25/86 17:08	08:35 09:52-11:22/90 16:06 09:20-09:39/19	09:13 10:10-11:37/87 15:55
26	05:19 06:35-06:38/3 22:01	06:22 20:49	07:25 19:25	07:30 08:01-09:25/84 17:06	08:37 09:52-11:22/90 16:05 09:21-09:39/18	09:13 10:10-11:37/87 15:55
27	05:21 06:32-06:42/10 21:59	06:24 07:26-07:35/9 20:47	07:27 19:22	07:32 08:04-08:20/16 17:04 08:22-09:25/63	08:39 09:52-11:23/91 16:04 09:22-09:38/16	09:14 10:11-11:38/87 15:56
28	05:23 06:31-06:45/14 21:57	06:26 07:23-07:37/14 20:44	07:29 19:20	07:34 08:22-09:25/63 17:01 08:06-08:08/2	08:41 09:53-11:23/90 16:02 09:23-09:37/14	09:14 10:11-11:38/87 15:57
29	05:24 06:30-06:48/18 21:55	06:28 07:22-07:39/17 20:41	07:32 19:17	07:36 08:23-09:26/63 16:59	08:43 09:53-11:24/91 16:01 09:25-09:35/10	09:14 10:11-11:39/88 15:58
30	05:26 06:28-06:49/21 21:53	06:30 07:20-07:40/20 20:39	07:34 19:14	07:38 08:24-09:25/61 16:56	08:45 09:54-11:25/91 16:00 09:28-09:33/5	09:14 10:11-11:39/88 15:59
31	05:28 06:27-06:50/23 21:51	06:32 07:19-07:40/21 20:36		07:41 08:25-09:26/61 16:54		09:14 10:11-11:40/89 16:00
Potential sun hours	534	472	385	322	244	212
Sum of minutes with flicker	89	486	462	1712	3142	2743

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 30 - V-2_42 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April	May	June
1	09:13		08:36	09:12-10:11/59	07:30	07:58-08:47/49	07:06	05:48	04:49
	16:02		17:00		18:05		20:12	21:16	22:15
2	09:13		08:34	09:11-10:11/60	07:27	07:57-08:45/48	07:03	05:46	04:48
	16:03		17:03		18:07		20:14	21:18	22:17
3	09:13		08:32	09:10-10:10/60	07:25	07:56-08:43/47	07:01	05:43	04:47
	16:04		17:05		18:09		20:16	21:20	22:18
4	09:12		08:30	09:09-10:08/59	07:22	07:57-08:39/42	06:58	05:41	04:46
	16:06		17:07		18:11		20:18	21:23	22:20
5	09:12		08:27	09:08-10:07/59	07:19	07:56-08:35/39	06:55	05:39	04:45
	16:07		17:10		18:13		20:20	21:25	22:21
6	09:11		08:25	09:08-10:05/57	07:17	07:56-08:32/36	06:52	05:36	04:44
	16:09		17:12		18:16		20:23	21:27	22:22
7	09:11		08:23	09:07-09:59/52	07:14	07:56-08:27/31	06:50	05:34	04:43
	16:10		17:14		18:18		20:25	21:29	22:23
8	09:10		08:21	09:07-09:59/52	07:11	07:57-08:24/27	06:47	05:32	04:42
	16:12		17:17		18:20		20:27	21:31	22:24
9	09:09		08:19	09:07-09:58/51	07:09	07:58-08:14/16	06:44	05:30	04:42
	16:13		17:19		18:22		20:29	21:33	22:25
10	09:08	09:51-09:56/5	08:17	09:06-09:57/51	07:06	07:59-08:12/13	06:42	05:27	04:41
	16:15		17:21		18:24		20:31	21:35	22:26
11	09:07	09:48-09:58/10	08:14	09:07-09:56/49	07:03	08:02-08:08/6	06:39	05:25	04:40
	16:17		17:23		18:27		20:33	21:37	22:27
12	09:06	09:47-10:00/13	08:12	09:07-09:54/47	07:01		06:36	05:23	04:40
	16:19		17:26		18:29		20:35	21:39	22:28
13	09:05	09:46-10:02/16	08:10	09:07-09:53/46	06:58		06:34	05:21	04:39
	16:20		17:28		18:31		20:38	21:41	22:29
14	09:04	09:45-10:03/18	08:07	09:07-09:51/44	06:55		06:31	05:19	04:39
	16:22		17:30		18:33		20:40	21:43	22:30
15	09:03	09:45-10:04/19	08:05	09:08-09:49/41	06:53		06:28	05:17	04:39
	16:24		17:33	08:36-08:41/5	18:35		20:42	21:45	22:31
16	09:02	09:44-10:05/21	08:03	09:08-09:40/32	06:50		06:26	05:15	04:38
	16:26		17:35	08:32-08:45/13	18:38		20:44	21:47	22:31
17	09:01	09:45-10:07/22	08:00	09:10-09:39/29	06:47		06:23	05:13	04:38
	16:28		17:37	08:30-08:47/17	18:40		20:46	21:49	22:32
18	08:59	09:44-10:07/23	07:58	09:10-09:36/26	06:44		06:20	05:11	04:38
	16:30		17:40	08:26-08:48/22	18:42		20:48	21:51	22:32
19	08:58	09:43-10:08/25	07:55	09:11-09:32/21	06:42		06:18	05:09	04:38
	16:32		17:42	08:23-08:49/26	18:44		20:50	21:53	22:33
20	08:56	09:44-10:09/25	07:53	09:14-09:29/15	06:39		06:15	05:07	04:38
	16:34		17:44	08:21-08:50/29	18:46		20:53	21:55	22:33
21	08:55	09:36-10:10/34	07:50	09:16-09:26/10	06:36		06:13	05:06	04:38
	16:36		17:46	08:18-08:50/32	18:48		20:55	21:57	22:33
22	08:53	09:34-10:10/36	07:48	08:16-08:51/35	06:33		06:10	05:04	04:38
	16:38		17:49		18:50		20:57	21:59	22:34
23	08:52	09:26-10:11/45	07:45	08:13-08:51/38	06:31		06:08	05:02	04:38
	16:40		17:51		18:53		20:59	22:01	22:34
24	08:50	09:24-10:11/47	07:43	08:10-08:51/41	06:28		06:05	05:01	04:39
	16:43		17:53		18:55		21:01	22:02	22:34
25	08:49	09:22-10:12/50	07:40	08:08-08:51/43	06:25		06:03	04:59	04:39
	16:45		17:56		18:57		21:03	22:04	22:34
26	08:47	09:20-10:12/52	07:38	08:05-08:50/45	06:22		06:00	04:57	04:40
	16:47		17:58		18:59		21:05	22:06	22:34
27	08:45	09:18-10:12/54	07:35	08:02-08:49/47	06:20		05:58	04:56	04:40
	16:49		18:00		19:01		21:08	22:07	22:34
28	08:43	09:16-10:12/56	07:32	08:00-08:49/49	06:17		05:55	04:54	04:41
	16:51		18:02		19:03		21:10	22:09	22:33
29	08:41	09:15-10:12/57			07:14		05:53	04:53	04:41
	16:54				20:05		21:12	22:11	22:33
30	08:40	09:14-10:12/58			07:11		05:50	04:52	04:42
	16:56				20:08		21:14	22:12	22:33
31	08:38	09:13-10:12/59			07:09			04:50	
	16:58				20:10			22:14	
Potential sun hours	231		264		366		428	511	534
Sum of minutes with flicker	745		1362		354		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 30 - V-2_42 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October		November		December	
1	04:43	05:30	06:34	07:36		07:43	08:36-09:27/51	08:46	09:30-09:40/10
	22:32	21:49	20:33	19:11		16:52		15:59	
2	04:44	05:32	06:36	07:38		07:45	08:37-09:28/51	08:48	09:32-09:38/6
	22:32	21:47	20:31	19:09		16:49		15:58	
3	04:45	05:34	06:38	07:40	08:39-08:49/10	07:47	08:37-09:28/51	08:50	
	22:31	21:45	20:28	19:06		16:47		15:57	
4	04:46	05:36	06:40	07:42	08:36-08:51/15	07:50	08:37-09:28/51	08:51	
	22:30	21:43	20:25	19:03		16:45		15:56	
5	04:47	05:38	06:42	07:44	08:34-08:52/18	07:52	08:38-09:35/57	08:53	
	22:30	21:41	20:23	19:00		16:43		15:55	
6	04:48	05:40	06:44	07:46	08:34-09:02/28	07:54	08:38-09:37/59	08:55	
	22:29	21:38	20:20	18:58		16:41		15:55	
7	04:49	05:42	06:46	07:48	08:32-09:07/35	07:56	08:39-09:39/60	08:56	
	22:28	21:36	20:17	18:55		16:38		15:54	
8	04:50	05:44	06:48	07:50	08:32-09:09/37	07:59	08:40-09:40/60	08:58	
	22:27	21:34	20:14	18:52		16:36		15:53	
9	04:51	05:46	06:50	07:53	08:31-09:10/39	08:01	08:42-09:42/60	08:59	
	22:26	21:32	20:12	18:50		16:34		15:53	
10	04:53	05:48	06:52	07:55	08:30-09:15/45	08:03	08:43-09:42/59	09:00	
	22:25	21:29	20:09	18:47		16:32		15:52	
11	04:54	05:50	06:54	07:57	08:31-09:19/48	08:05	08:44-09:43/59	09:02	
	22:24	21:27	20:06	18:44		16:30		15:52	
12	04:55	05:53	06:57	07:59	08:31-09:20/49	08:07	08:45-09:43/58	09:03	
	22:23	21:25	20:04	18:42		16:28		15:52	
13	04:57	05:55	06:59	08:01	08:31-09:21/50	08:10	08:46-09:44/58	09:04	
	22:22	21:22	20:01	18:39		16:26		15:51	
14	04:58	05:57	07:01	08:03	08:33-09:21/48	08:12	08:48-09:44/56	09:05	
	22:20	21:20	19:58	18:36		16:24		15:51	
15	05:00	05:59	07:03	08:05	08:36-09:22/46	08:14	08:51-09:45/54	09:06	
	22:19	21:17	19:55	18:34		16:22		15:51	
16	05:01	06:01	07:05	08:08	08:38-09:22/44	08:16	08:53-09:45/52	09:07	
	22:18	21:15	19:53	18:31		16:21		15:51	
17	05:03	06:03	07:07	08:10	08:40-09:22/42	08:18	08:56-09:46/50	09:08	
	22:16	21:12	19:50	18:29		16:19		15:51	
18	05:05	06:05	07:09	08:12	08:43-09:22/39	08:20	08:58-09:45/47	09:09	
	22:15	21:10	19:47	18:26		16:17		15:51	
19	05:06	06:07	07:11	08:14	08:45-09:22/37	08:23	09:01-09:46/45	09:10	
	22:13	21:07	19:44	18:23		16:15		15:52	
20	05:08	06:09	07:13	08:16	08:47-09:21/34	08:25	09:09-09:45/36	09:11	
	22:12	21:05	19:41	18:21		16:14		15:52	
21	05:10	06:11	07:15	08:18	09:45-09:57/12	08:27	09:11-09:45/34	09:11	
	22:10	21:02	19:39	18:18	08:49-09:20/31	16:12		15:52	
22	05:11	06:13	07:17	08:21	09:43-10:00/17	08:29	09:20-09:46/26	09:12	
	22:08	21:00	19:36	18:16	08:52-09:20/28	16:11		15:53	
23	05:13	06:15	07:19	08:23	09:41-10:04/23	08:31	09:20-09:45/25	09:12	
	22:07	20:57	19:33	18:13	08:54-09:19/25	16:09		15:53	
24	05:15	06:17	07:21	08:25	09:40-10:07/27	08:33	09:21-09:44/23	09:13	
	22:05	20:55	19:30	18:11	08:57-09:18/21	16:08		15:54	
25	05:17	06:19	07:23	07:27	08:39-09:09/30	08:35	09:23-09:45/22	09:13	
	22:03	20:52	19:28	17:08	08:00-08:16/16	16:06		15:55	
26	05:19	06:22	07:25	07:29	08:37-09:14/37	08:37	09:23-09:44/21	09:13	
	22:01	20:49	19:25	17:06	08:02-08:13/11	16:05		15:55	
27	05:21	06:24	07:27	07:32	08:37-09:19/42	08:39	09:24-09:44/20	09:13	
	21:59	20:47	19:22	17:04		16:04		15:56	
28	05:22	06:26	07:29	07:34	08:36-09:21/45	08:41	09:25-09:43/18	09:14	
	21:57	20:44	19:19	17:01		16:02		15:57	
29	05:24	06:28	07:32	07:36	08:37-09:23/46	08:43	09:26-09:42/16	09:14	
	21:55	20:41	19:17	16:59		16:01		15:58	
30	05:26	06:30	07:34	07:38	08:36-09:24/48	08:45	09:28-09:41/13	09:14	
	21:53	20:39	19:14	16:56		16:00		15:59	
31	05:28	06:32		07:41	08:36-09:26/50			09:14	
	21:51	20:36		16:54				16:00	
Potential sun hours	534	472	385	322		244		212	
Sum of minutes with flicker	0	0	0	1173		1292		16	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 31 - V-2_43 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February		March	April	May		June	
1	09:13	08:36		07:30	07:06	05:48		04:49	05:57-06:23/26
	16:02	17:00		18:04	20:12	21:16		22:15	
2	09:13	08:34		07:27	07:03	05:45		04:48	05:58-06:22/24
	16:03	17:03		18:07	20:14	21:18		22:17	
3	09:13	08:32		07:25	07:01	05:43		04:47	05:58-06:22/24
	16:04	17:05		18:09	20:16	21:20		22:18	
4	09:12	08:29		07:22	06:58	05:41		04:46	05:58-06:22/24
	16:06	17:07		18:11	20:18	21:23		22:19	
5	09:12	08:27		07:19	06:55	05:38		04:45	05:59-06:21/22
	16:07	17:10		18:13	20:20	21:25		22:21	
6	09:11	08:25	08:56-08:58/2	07:17	06:52	05:36		04:44	05:59-06:21/22
	16:08	17:12		18:16	20:23	21:27		22:22	
7	09:11	08:23	08:53-09:01/8	07:14	06:50	05:34		04:43	06:00-06:21/21
	16:10	17:14		18:18	20:25	21:29		22:23	
8	09:10	08:21	08:51-09:03/12	07:11	06:47	05:32	06:06-06:12/6	04:42	06:00-06:21/21
	16:12	17:17		18:20	20:27	21:31		22:24	
9	09:09	08:19	08:49-09:05/16	07:09	06:44	05:30	06:03-06:15/12	04:41	06:01-06:21/20
	16:13	17:19		18:22	20:29	21:33		22:25	
10	09:08	08:16	08:46-09:06/20	07:06	06:42	05:27	06:01-06:17/16	04:41	06:02-06:20/18
	16:15	17:21		18:24	20:31	21:35		22:26	
11	09:07	08:14	08:44-09:07/23	07:03	06:39	05:25	05:59-06:18/19	04:40	06:03-06:20/17
	16:17	17:23		18:27	20:33	21:37		22:27	
12	09:06	08:12	08:41-09:07/26	07:01	06:36	05:23	05:58-06:19/21	04:40	06:03-06:20/17
	16:18	17:26		18:29	20:35	21:39		22:28	
13	09:05	08:10	08:39-09:08/29	06:58	06:34	05:21	05:57-06:20/23	04:39	06:03-06:20/17
	16:20	17:28		18:31	20:38	21:41		22:29	
14	09:04	08:07	08:36-09:07/31	06:55	06:31	05:19	05:56-06:20/24	04:39	06:04-06:20/16
	16:22	17:30		18:33	20:40	21:43		22:30	
15	09:03	08:05	08:34-09:08/34	06:52	06:28	05:17	05:55-06:21/26	04:38	06:05-06:20/15
	16:24	17:33		18:35	20:42	21:45		22:31	
16	09:02	08:02	08:31-09:07/36	06:50	06:26	05:15	05:55-06:22/27	04:38	06:05-06:19/14
	16:26	17:35		18:37	20:44	21:47		22:31	
17	09:01	08:00	08:31-09:07/36	06:47	06:23	05:13	05:55-06:22/27	04:38	06:05-06:19/14
	16:28	17:37		18:40	20:46	21:49		22:32	
18	08:59	07:58	08:30-09:06/36	06:44	06:20	05:11	05:54-06:22/28	04:38	06:06-06:19/13
	16:30	17:40		18:42	20:48	21:51		22:32	
19	08:58	07:55	08:29-09:05/36	06:42	06:18	05:09	05:55-06:23/28	04:38	06:06-06:19/13
	16:32	17:42		18:44	20:50	21:53		22:33	
20	08:56	07:53	08:29-09:04/35	06:39	06:15	05:07	05:54-06:23/29	04:38	06:07-06:20/13
	16:34	17:44		18:46	20:53	21:55		22:33	
21	08:55	07:50	08:29-09:02/33	06:36	06:13	05:06	05:54-06:22/28	04:38	06:07-06:20/13
	16:36	17:46		18:48	20:55	21:57		22:33	
22	08:53	07:48	08:29-08:59/30	06:33	06:10	05:04	05:54-06:23/29	04:38	06:07-06:20/13
	16:38	17:49		18:50	20:57	21:59		22:34	
23	08:52	07:45	08:30-08:55/25	06:31	06:08	05:02	05:54-06:23/29	04:38	06:07-06:20/13
	16:40	17:51		18:53	20:59	22:00		22:34	
24	08:50	07:43	08:30-08:51/21	06:28	06:05	05:01	05:54-06:23/29	04:39	06:08-06:21/13
	16:43	17:53		18:55	21:01	22:02		22:34	
25	08:48	07:40	08:32-08:49/17	06:25	06:03	04:59	05:55-06:23/28	04:39	06:07-06:21/14
	16:45	17:55		18:57	21:03	22:04		22:34	
26	08:47	07:38	08:33-08:46/13	06:22	06:00	04:57	05:54-06:23/29	04:40	06:08-06:22/14
	16:47	17:58		18:59	21:05	22:06		22:34	
27	08:45	07:35	08:36-08:42/6	06:20	05:58	04:56	05:55-06:23/28	04:40	06:07-06:22/15
	16:49	18:00		19:01	21:08	22:07		22:33	
28	08:43	07:32		06:17	05:55	04:54	05:55-06:23/28	04:41	06:08-06:23/15
	16:51	18:02		19:03	21:10	22:09		22:33	
29	08:41			07:14	05:53	04:53	05:56-06:23/27	04:41	06:07-06:23/16
	16:54			20:05	21:12	22:11		22:33	
30	08:39			07:11	05:50	04:52	05:56-06:23/27	04:42	06:07-06:24/17
	16:56			20:08	21:14	22:12		22:33	
31	08:38			07:09		04:50	05:57-06:23/26		
	16:58			20:10		22:14			
Potential sun hours	231	264		366	428	511		534	
Sum of minutes with flicker	0	525		0	0	594		514	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 31 - V-2_43 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September	October		November		December
1	04:43	06:07-06:24/17	05:30	06:09-06:29/20	06:34	07:36		07:43	08:16-08:35/19	08:46
	22:32		21:49		20:33	19:11		16:52		15:59
2	04:44	06:07-06:25/18	05:32	06:10-06:28/18	06:36	07:38		07:45	08:19-08:35/16	08:48
	22:32		21:47		20:31	19:09		16:49		15:58
3	04:45	06:06-06:25/19	05:34	06:12-06:27/15	06:38	07:40		07:47	08:21-08:33/12	08:50
	22:31		21:45		20:28	19:06		16:47		15:57
4	04:46	06:06-06:26/20	05:36	06:13-06:23/10	06:40	07:42		07:50	08:23-08:30/7	08:51
	22:30		21:43		20:25	19:03		16:45		15:56
5	04:47	06:06-06:26/20	05:38		06:42	07:44		07:52		08:53
	22:30		21:41		20:23	19:00		16:43		15:55
6	04:48	06:05-06:27/22	05:40		06:44	07:46		07:54		08:55
	22:29		21:38		20:20	18:58		16:41		15:55
7	04:49	06:05-06:27/22	05:42		06:46	07:48		07:56		08:56
	22:28		21:36		20:17	18:55		16:38		15:54
8	04:50	06:05-06:28/23	05:44		06:48	07:50		07:58		08:58
	22:27		21:34		20:14	18:52		16:36		15:53
9	04:51	06:06-06:29/23	05:46		06:50	07:52		08:01		08:59
	22:26		21:32		20:12	18:50		16:34		15:53
10	04:53	06:05-06:30/25	05:48		06:52	07:55		08:03		09:00
	22:25		21:29		20:09	18:47		16:32		15:52
11	04:54	06:05-06:30/25	05:50		06:54	07:57		08:05		09:02
	22:24		21:27		20:06	18:44		16:30		15:52
12	04:55	06:04-06:30/26	05:52		06:56	07:59		08:07		09:03
	22:23		21:25		20:03	18:42		16:28		15:52
13	04:57	06:05-06:31/26	05:55		06:59	08:01		08:10		09:04
	22:22		21:22		20:01	18:39		16:26		15:51
14	04:58	06:04-06:31/27	05:57		07:01	08:03		08:12		09:05
	22:20		21:20		19:58	18:36		16:24		15:51
15	05:00	06:04-06:31/27	05:59		07:03	08:05	09:08-09:16/8	08:14		09:06
	22:19		21:17		19:55	18:34		16:22		15:51
16	05:01	06:04-06:32/28	06:01		07:05	08:07	09:05-09:18/13	08:16		09:07
	22:18		21:15		19:52	18:31		16:21		15:51
17	05:03	06:04-06:32/28	06:03		07:07	08:10	09:03-09:22/19	08:18		09:08
	22:16		21:12		19:50	18:29		16:19		15:51
18	05:05	06:04-06:33/29	06:05		07:09	08:12	09:01-09:23/22	08:20		09:09
	22:15		21:10		19:47	18:26		16:17		15:51
19	05:06	06:04-06:33/29	06:07		07:11	08:14	09:01-09:28/27	08:23		09:10
	22:13		21:07		19:44	18:23		16:15		15:52
20	05:08	06:04-06:33/29	06:09		07:13	08:16	09:00-09:31/31	08:25		09:11
	22:12		21:05		19:41	18:21		16:14		15:52
21	05:10	06:04-06:33/29	06:11		07:15	08:18	08:59-09:32/33	08:27		09:11
	22:10		21:02		19:39	18:18		16:12		15:52
22	05:11	06:04-06:33/29	06:13		07:17	08:21	09:00-09:35/35	08:29		09:12
	22:08		21:00		19:36	18:16		16:11		15:53
23	05:13	06:04-06:33/29	06:15		07:19	08:23	08:59-09:35/36	08:31		09:12
	22:07		20:57		19:33	18:13		16:09		15:53
24	05:15	06:04-06:33/29	06:17		07:21	08:25	09:00-09:37/37	08:33		09:13
	22:05		20:55		19:30	18:11		16:08		15:54
25	05:17	06:05-06:33/28	06:19		07:23	07:27	08:00-08:37/37	08:35		09:13
	22:03		20:52		19:28	17:08		16:06		15:55
26	05:19	06:05-06:32/27	06:21		07:25	07:29	08:01-08:37/36	08:37		09:13
	22:01		20:49		19:25	17:06		16:05		15:55
27	05:21	06:05-06:32/27	06:24		07:27	07:32	08:04-08:37/33	08:39		09:13
	21:59		20:47		19:22	17:04		16:04		15:56
28	05:22	06:06-06:32/26	06:26		07:29	07:34	08:06-08:37/31	08:41		09:14
	21:57		20:44		19:19	17:01		16:02		15:57
29	05:24	06:07-06:32/25	06:28		07:31	07:36	08:09-08:37/28	08:43		09:14
	21:55		20:41		19:17	16:59		16:01		15:58
30	05:26	06:06-06:30/24	06:30		07:34	07:38	08:11-08:36/25	08:44		09:14
	21:53		20:39		19:14	16:56		16:00		15:59
31	05:28	06:07-06:30/23	06:32			07:41	08:14-08:36/22			09:13
	21:51		20:36			16:54				16:00
Potential sun hours	534		472		385	322		244		212
Sum of minutes with flicker	779		63		0	473		54		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 32 - V-2_45 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13	08:36	07:30	07:06	05:48	04:49	04:43	05:30	06:34	07:36	07:43	08:46
	16:02	17:00	18:04	20:12	21:16	22:15	22:32	21:49	20:33	19:11	16:52	15:59
2	09:13	08:34	07:27	07:03	05:45	04:48	04:44	05:32	06:36	07:38	07:45	08:48
	16:03	17:03	18:07	20:14	21:18	22:17	22:32	21:47	20:31	19:08	16:49	15:58
3	09:13	08:32	07:25	07:00	05:43	04:47	04:44	05:34	06:38	07:40	07:47	08:50
	16:04	17:05	18:09	20:16	21:20	22:18	22:31	21:45	20:28	19:06	16:47	15:57
4	09:12	08:29	07:22	06:58	05:41	04:46	04:45	05:36	06:40	07:42	07:50	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:03	16:45	15:56
5	09:12	08:27	07:19	06:55	05:38	04:45	04:46	05:38	06:42	07:44	07:52	08:53
	16:07	17:09	18:13	20:20	21:25	22:21	22:30	21:41	20:23	19:00	16:43	15:55
6	09:11	08:25	07:17	06:52	05:36	04:44	04:48	05:40	06:44	07:46	07:54	08:55
	16:08	17:12	18:16	20:22	21:27	22:22	22:29	21:38	20:20	18:58	16:40	15:55
7	09:10	08:23	07:14	06:50	05:34	04:43	04:49	05:42	06:46	07:48	07:56	08:56
	16:10	17:14	18:18	20:25	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:54
8	09:10	08:21	07:11	06:47	05:32	04:42	04:50	05:44	06:48	07:50	07:58	08:58
	16:12	17:16	18:20	20:27	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:19	07:09	06:44	05:29	04:41	04:51	05:46	06:50	07:52	08:01	08:59
	16:13	17:19	18:22	20:29	21:33	22:25	22:26	21:32	20:12	18:50	16:34	15:53
10	09:08	08:16	07:06	06:42	05:27	04:41	04:52	05:48	06:52	07:55	08:03	09:00
	16:15	17:21	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:47	16:32	15:52
11	09:07	08:14	07:03	06:39	05:25	04:40	04:54	05:50	06:54	07:57	08:05	09:02
	16:17	17:23	18:27	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:52
12	09:06	08:12	07:01	06:36	05:23	04:40	04:55	05:52	06:56	07:59	08:07	09:03
	16:18	17:26	18:29	20:35	21:39	22:28	22:23	21:24	20:03	18:42	16:28	15:52
13	09:05	08:10	06:58	06:34	05:21	04:39	04:57	05:54	06:58	08:01	08:10	09:04
	16:20	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:01	18:39	16:26	15:51
14	09:04	08:07	06:55	06:31	05:19	04:39	04:58	05:57	07:01	08:03	08:12	09:05
	16:22	17:30	18:33	20:40	21:43	22:30	22:20	21:20	19:58	18:36	16:24	15:51
15	09:03	08:05	06:52	06:28	05:17	04:38	05:00	05:59	07:03	08:05	08:14	09:06
	16:24	17:33	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:34	16:22	15:51
16	09:02	08:02	06:50	06:26	05:15	04:38	05:01	06:01	07:05	08:07	08:16	09:07
	16:26	17:35	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:21	15:51
17	09:01	08:00	06:47	06:23	05:13	04:38	05:03	06:03	07:07	08:10	08:18	09:08
	16:28	17:37	18:40	20:46	21:49	22:32	22:16	21:12	19:50	18:28	16:19	15:51
18	08:59	07:58	06:44	06:20	05:11	04:38	05:04	06:05	07:09	08:12	08:20	09:09
	16:30	17:39	18:42	20:48	21:51	22:32	22:15	21:10	19:47	18:26	16:17	15:51
19	08:58	07:55	06:41	06:18	05:09	04:38	05:06	06:07	07:11	08:14	08:23	09:10
	16:32	17:42	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:52
20	08:56	07:53	06:39	06:15	05:07	04:38	05:08	06:09	07:13	08:16	08:25	09:11
	16:34	17:44	18:46	20:53	21:55	22:33	22:12	21:05	19:41	18:21	16:14	15:52
21	08:55	07:50	06:36	06:13	05:06	04:38	05:09	06:11	07:15	08:18	08:27	09:11
	16:36	17:46	18:48	20:55	21:57	22:33	22:10	21:02	19:39	18:18	16:12	15:52
22	08:53	07:48	06:33	06:10	05:04	04:38	05:11	06:13	07:17	08:21	08:29	09:12
	16:38	17:49	18:50	20:57	21:59	22:34	22:08	21:00	19:36	18:16	16:10	15:53
23	08:52	07:45	06:31	06:08	05:02	04:38	05:13	06:15	07:19	08:23	08:31	09:12
	16:40	17:51	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:09	15:53
24	08:50	07:43	06:28	06:05	05:00	04:39	05:15	06:17	07:21	08:25	08:33	09:13
	16:42	17:53	18:55	21:01	22:02	22:34	22:05	20:54	19:30	18:11	16:07	15:54
25	08:48	07:40	06:25	06:02	04:59	04:39	05:17	06:19	07:23	07:27	08:35	09:13
	16:45	17:55	18:57	21:03	22:04	22:34	22:03	20:52	19:28	17:08	16:06	15:54
26	08:47	07:38	06:22	06:00	04:57	04:39	05:19	06:21	07:25	07:29	08:37	09:13
	16:47	17:58	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:06	16:05	15:55
27	08:45	07:35	06:20	05:57	04:56	04:40	05:20	06:23	07:27	07:32	08:39	09:13
	16:49	18:00	19:01	21:08	22:07	22:33	21:59	20:47	19:22	17:03	16:03	15:56
28	08:43	07:32	06:17	05:55	04:54	04:41	05:22	06:26	07:29	07:34	08:41	09:14
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:57
29	08:41		07:14	05:53	04:53	04:41	05:24	06:28	07:31	07:36	08:43	09:14
	16:54		20:05	21:12	22:11	22:33	21:55	20:41	19:17	16:59	16:01	15:58
30	08:39		07:11	05:50	04:52	04:42	05:26	06:30	07:33	07:38	08:44	09:14
	16:56		20:07	21:14	22:12	22:33	21:53	20:39	19:14	16:56	16:00	15:59
31	08:38		07:09		04:50		05:28	06:32		07:41		09:13
	16:58		20:10		22:14		21:51	20:36		16:54		16:00
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	212
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 33 - V-2_84 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May	June	
1	09:13		08:35	09:28-10:17/49	07:30	07:06	05:47	04:49	
	16:01		17:00		18:04	20:12	21:16	22:15	
2	09:13		08:33	09:29-10:17/48	07:27	07:03	05:45	04:47	
	16:02		17:02		18:06	20:14	21:18	22:17	
3	09:13		08:31	09:30-10:16/46	07:24	07:00	05:43	04:46	
	16:04		17:04		18:09	20:16	21:20	22:18	
4	09:12		08:29	09:30-10:15/45	07:22	06:57	05:40	04:45	
	16:05		17:07		18:11	20:18	21:22	22:19	
5	09:12		08:27	09:55-10:14/19	07:19	06:55	05:38	04:44	
	16:06		17:09	09:31-09:54/23	18:13	20:20	21:25	22:21	
6	09:11		08:25	09:58-10:12/14	07:16	06:52	05:36	04:43	
	16:08		17:11	09:33-09:53/20	18:15	20:22	21:27	22:22	
7	09:10		08:23	10:00-10:09/9	07:14	06:49	05:33	04:42	
	16:09		17:14	09:34-09:49/15	18:17	20:24	21:29	22:23	
8	09:10		08:21	09:38-09:43/5	07:11	06:47	05:31	04:42	21:16-21:19/3
	16:11		17:16		18:20	20:27	21:31	22:24	
9	09:09	09:55-10:00/5	08:19		07:08	06:44	05:29	04:41	21:14-21:23/9
	16:13		17:18		18:22	20:29	21:33	22:25	
10	09:08	09:53-10:03/10	08:16		07:06	06:41	05:27	04:40	21:12-21:24/12
	16:14		17:21		18:24	20:31	21:35	22:26	
11	09:07	09:51-10:04/13	08:14		07:03	06:39	05:25	04:40	21:11-21:26/15
	16:16		17:23		18:26	20:33	21:37	22:27	
12	09:06	09:51-10:06/15	08:12		07:00	06:36	05:23	04:39	21:11-21:27/16
	16:18		17:25		18:28	20:35	21:39	22:28	
13	09:05	09:43-09:48/5	08:09		06:58	06:33	05:20	04:38	21:10-21:27/17
	16:20	09:50-10:08/18	17:28		18:31	20:37	21:41	22:29	
14	09:04	09:41-10:09/28	08:07		06:55	06:31	05:18	04:38	21:10-21:28/18
	16:22		17:30		18:33	20:39	21:43	22:30	
15	09:03	09:40-10:10/30	08:05		06:52	06:28	05:16	04:38	21:10-21:29/19
	16:23		17:32		18:35	20:42	21:45	22:31	
16	09:02	09:38-10:11/33	08:02		06:49	06:25	05:14	04:38	21:10-21:30/20
	16:25		17:35		18:37	20:44	21:47	22:31	
17	09:00	09:37-10:13/36	08:00		06:47	06:23	05:12	04:37	21:10-21:31/21
	16:27		17:37		18:39	20:46	21:49	22:32	
18	08:59	09:35-10:13/38	07:57		06:44	06:20	05:11	04:37	21:10-21:31/21
	16:29		17:39		18:41	20:48	21:51	22:32	
19	08:58	09:33-10:14/41	07:55		06:41	06:17	05:09	04:37	21:10-21:31/21
	16:31		17:41		18:44	20:50	21:53	22:33	
20	08:56	09:32-10:15/43	07:53		06:38	06:15	05:07	04:37	21:10-21:31/21
	16:33		17:44		18:46	20:52	21:55	22:33	
21	08:55	09:30-10:16/46	07:50		06:36	06:12	05:05	04:37	21:10-21:32/22
	16:36		17:46		18:48	20:55	21:57	22:33	
22	08:53	09:29-10:16/47	07:48		06:33	06:10	05:03	04:37	21:10-21:32/22
	16:38		17:48		18:50	20:57	21:59	22:34	
23	08:52	09:28-10:17/49	07:45		06:30	06:07	05:02	04:38	21:11-21:32/21
	16:40		17:51		18:52	20:59	22:00	22:34	
24	08:50	09:28-10:17/49	07:42		06:28	06:05	05:00	04:38	21:11-21:32/21
	16:42		17:53		18:54	21:01	22:02	22:34	
25	08:48	09:27-10:17/50	07:40		06:25	06:02	04:58	04:38	21:11-21:32/21
	16:44		17:55		18:57	21:03	22:04	22:34	
26	08:47	09:27-10:18/51	07:37		06:22	06:00	04:57	04:39	21:12-21:32/20
	16:46		17:57		18:59	21:05	22:06	22:34	
27	08:45	09:27-10:18/51	07:35		06:19	05:57	04:55	04:39	21:12-21:32/20
	16:49		18:00		19:01	21:07	22:07	22:34	
28	08:43	09:27-10:18/51	07:32		06:17	05:55	04:54	04:40	21:13-21:32/19
	16:51		18:02		19:03	21:10	22:09	22:33	
29	08:41	09:28-10:18/50			07:14	05:52	04:52	04:41	21:14-21:32/18
	16:53				20:05	21:12	22:11	22:33	
30	08:39	09:28-10:18/50			07:11	05:50	04:51	04:41	21:14-21:31/17
	16:55				20:07	21:14	22:12	22:33	
31	08:37	09:27-10:17/50			07:08		04:50		
	16:58				20:09		22:14		
Potential sun hours	231		264		366	428	512	534	
Sum of minutes with flicker	859		293		0	0	0	414	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 33 - V-2_84 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August	September	October	November		December	
1	04:42	21:15-21:30/15	05:30	06:33	07:35	07:43		08:46	09:33-09:46/13
	22:32		21:49	20:33	19:11	16:51		15:58	
2	04:43	21:17-21:30/13	05:32	06:36	07:37	07:45		08:48	09:35-09:45/10
	22:32		21:47	20:30	19:08	16:49		15:57	
3	04:44	21:18-21:29/11	05:34	06:38	07:40	07:47	09:07-09:13/6	08:50	09:38-09:44/6
	22:31		21:45	20:28	19:05	16:47		15:56	
4	04:45	21:21-21:27/6	05:36	06:40	07:42	07:49	09:29-09:39/10	08:51	
	22:30		21:43	20:25	19:03	16:44	09:04-09:20/16	15:56	
5	04:46		05:38	06:42	07:44	07:52	09:27-09:42/15	08:53	
	22:30		21:41	20:22	19:00	16:42	09:03-09:23/20	15:55	
6	04:47		05:40	06:44	07:46	07:54	09:25-09:44/19	08:55	
	22:29		21:38	20:20	18:57	16:40	09:01-09:24/23	15:54	
7	04:48		05:42	06:46	07:48	07:56	09:01-09:46/45	08:56	
	22:28		21:36	20:17	18:55	16:38		15:53	
8	04:49		05:44	06:48	07:50	07:58	08:59-09:46/47	08:58	
	22:27		21:34	20:14	18:52	16:36		15:53	
9	04:51		05:46	06:50	07:52	08:01	09:00-09:48/48	08:59	
	22:26		21:31	20:11	18:49	16:34		15:52	
10	04:52		05:48	06:52	07:54	08:03	08:59-09:48/49	09:00	
	22:25		21:29	20:09	18:47	16:32		15:52	
11	04:53		05:50	06:54	07:56	08:05	08:59-09:49/50	09:02	
	22:24		21:27	20:06	18:44	16:30		15:51	
12	04:55		05:52	06:56	07:59	08:07	08:59-09:49/50	09:03	
	22:23		21:24	20:03	18:41	16:28		15:51	
13	04:56		05:54	06:58	08:01	08:09	08:59-09:50/51	09:04	
	22:22		21:22	20:00	18:39	16:26		15:51	
14	04:58		05:56	07:00	08:03	08:12	08:59-09:50/51	09:05	
	22:20		21:20	19:58	18:36	16:24		15:51	
15	04:59		05:58	07:02	08:05	08:14	09:00-09:51/51	09:06	
	22:19		21:17	19:55	18:33	16:22		15:51	
16	05:01		06:00	07:04	08:07	08:16	09:00-09:51/51	09:07	
	22:18		21:15	19:52	18:31	16:20		15:51	
17	05:02		06:02	07:06	08:09	08:18	09:01-09:51/50	09:08	
	22:16		21:12	19:49	18:28	16:18		15:51	
18	05:04		06:04	07:08	08:12	08:20	09:02-09:51/49	09:09	
	22:15		21:10	19:47	18:26	16:17		15:51	
19	05:06		06:06	07:10	08:14	08:22	09:02-09:51/49	09:10	
	22:13		21:07	19:44	18:23	16:15		15:51	
20	05:07		06:09	07:13	08:16	08:25	09:04-09:51/47	09:11	
	22:12		21:05	19:41	18:20	16:13		15:51	
21	05:09		06:11	07:15	08:18	08:27	09:05-09:51/46	09:11	
	22:10		21:02	19:38	18:18	16:12		15:52	
22	05:11		06:13	07:17	08:20	08:29	09:08-09:51/43	09:12	
	22:08		20:59	19:36	18:15	16:10		15:52	
23	05:13		06:15	07:19	08:23	08:31	09:10-09:51/41	09:12	
	22:07		20:57	19:33	18:13	16:08		15:53	
24	05:14		06:17	07:21	08:25	08:33	09:12-09:50/38	09:13	
	22:05		20:54	19:30	18:10	16:07		15:53	
25	05:16		06:19	07:23	07:27	08:35	09:15-09:51/36	09:13	
	22:03		20:52	19:27	17:08	16:06		15:54	
26	05:18		06:21	07:25	07:29	08:37	09:17-09:50/33	09:13	
	22:01		20:49	19:25	17:05	16:04		15:55	
27	05:20		06:23	07:27	07:31	08:39	09:19-09:50/31	09:13	
	21:59		20:46	19:22	17:03	16:03		15:55	
28	05:22		06:25	07:29	07:34	08:41	09:21-09:49/28	09:14	
	21:57		20:44	19:19	17:01	16:02		15:56	
29	05:24		06:27	07:31	07:36	08:43	09:23-09:28/5	09:14	
	21:55		20:41	19:16	16:58	16:01	09:30-09:48/18	15:57	
30	05:26		06:29	07:33	07:38	08:44	09:32-09:47/15	09:14	
	21:53		20:39	19:14	16:56	15:59		15:58	
31	05:28		06:31		07:40			09:13	
	21:51		20:36		16:54			15:59	
Potential sun hours	534		472	385	322	244		211	
Sum of minutes with flicker		45		0	0	0	1131		29

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 34 - V-2_85 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March	April	May		June	
1	09:13	10:03-11:24/81	08:36	10:08-10:47/39	07:30	07:06	05:47		04:49	20:53-21:28/35
	16:01	14:40-15:05/25	17:00	10:57-11:33/36	18:04	20:12	21:16		22:15	
2	09:13	10:02-11:24/82	08:34	10:09-10:46/37	07:27	07:03	05:45		04:47	20:53-21:28/35
	16:02	14:39-15:05/26	17:02	10:58-11:33/35	18:06	20:14	21:18		22:17	
3	09:13	10:02-11:25/83	08:31	10:11-10:46/35	07:24	07:00	05:43		04:46	20:53-21:28/35
	16:04	14:40-15:05/25	17:04	10:59-11:32/33	18:09	20:16	21:20		22:18	
4	09:12	10:03-11:26/83	08:29	11:00-11:30/30	07:22	06:57	05:40		04:45	20:53-21:28/35
	16:05	14:41-15:06/25	17:07	10:11-10:43/32	18:11	20:18	21:22		22:20	
5	09:12	10:03-11:26/83	08:27	11:02-11:29/27	07:19	06:55	05:38		04:44	20:53-21:28/35
	16:06	14:41-15:06/25	17:09	10:13-10:42/29	18:13	20:20	21:25		22:21	
6	09:11	10:03-11:27/84	08:25	11:05-11:27/22	07:16	06:52	05:36		04:43	20:54-21:29/35
	16:08	14:41-15:07/26	17:11	10:16-10:39/23	18:15	20:22	21:27		22:22	
7	09:11	10:03-11:28/85	08:23	11:07-11:24/17	07:14	06:49	05:33		04:42	20:54-21:29/35
	16:09	14:42-15:07/25	17:14	10:19-10:27/8	18:17	20:24	21:29		22:23	
8	09:10	10:03-11:28/85	08:21	11:12-11:20/8	07:11	06:47	05:31		04:42	20:54-21:29/35
	16:11	14:42-15:07/25	17:16		18:20	20:27	21:31		22:24	
9	09:09	10:03-11:29/86	08:19		07:08	06:44	05:29		04:41	20:55-21:30/35
	16:13	14:43-15:08/25	17:18		18:22	20:29	21:33		22:26	
10	09:08	10:03-11:30/87	08:16		07:06	06:41	05:27		04:40	20:54-21:29/35
	16:14	14:44-15:08/24	17:21		18:24	20:31	21:35		22:27	
11	09:07	10:04-11:30/86	08:14		07:03	06:39	05:25		04:40	20:55-21:30/35
	16:16	14:43-15:08/25	17:23		18:26	20:33	21:37		22:27	
12	09:06	10:03-11:31/88	08:12		07:00	06:36	05:23		04:39	20:56-21:31/35
	16:18	14:44-15:08/24	17:25		18:28	20:35	21:39		22:28	
13	09:05	10:04-11:32/88	08:09		06:58	06:33	05:20		04:39	20:55-21:30/35
	16:20	14:45-15:09/24	17:28		18:31	20:37	21:41		22:29	
14	09:04	10:03-11:32/89	08:07		06:55	06:31	05:18		04:38	20:56-21:31/35
	16:22	14:46-15:08/22	17:30		18:33	20:39	21:43		22:30	
15	09:03	10:03-11:33/90	08:05		06:52	06:28	05:16		04:38	20:56-21:31/35
	16:23	14:47-15:08/21	17:32		18:35	20:42	21:45		22:31	
16	09:02	10:03-11:33/90	08:02		06:49	06:25	05:14	21:04-21:08/4	04:38	20:57-21:31/34
	16:25	14:47-15:08/21	17:35		18:37	20:44	21:47		22:31	
17	09:01	10:03-11:34/91	08:00		06:47	06:23	05:12	21:00-21:11/11	04:37	20:57-21:32/35
	16:27	14:49-15:08/19	17:37		18:39	20:46	21:49		22:32	
18	08:59	10:03-11:34/91	07:57		06:44	06:20	05:11	20:58-21:13/15	04:37	20:57-21:32/35
	16:29	14:50-15:07/17	17:39		18:42	20:48	21:51		22:32	
19	08:58	10:03-11:34/91	07:55		06:41	06:17	05:09	20:57-21:15/18	04:37	20:57-21:32/35
	16:31	14:52-15:06/14	17:41		18:44	20:50	21:53		22:33	
20	08:56	10:04-11:35/91	07:53		06:39	06:15	05:07	20:56-21:16/20	04:37	20:58-21:32/34
	16:34	14:55-15:06/11	17:44		18:46	20:52	21:55		22:33	
21	08:55	10:04-11:35/91	07:50		06:36	06:12	05:05	20:56-21:19/23	04:37	20:58-21:32/34
	16:36	14:58-15:03/5	17:46		18:48	20:55	21:57		22:33	
22	08:53	10:04-11:35/91	07:48		06:33	06:10	05:03	20:54-21:20/26	04:37	20:58-21:32/34
	16:38		17:48		18:50	20:57	21:59		22:34	
23	08:52	10:04-11:35/91	07:45		06:30	06:07	05:02	20:54-21:22/28	04:38	20:58-21:33/35
	16:40		17:51		18:52	20:59	22:00		22:34	
24	08:50	10:04-11:36/92	07:43		06:28	06:05	05:00	20:53-21:22/29	04:38	20:58-21:33/35
	16:42		17:53		18:54	21:01	22:02		22:34	
25	08:48	10:04-11:36/92	07:40		06:25	06:02	04:58	20:53-21:24/31	04:38	20:58-21:33/35
	16:44		17:55		18:57	21:03	22:04		22:34	
26	08:47	10:05-10:51/46	07:37		06:22	06:00	04:57	20:53-21:25/32	04:39	20:59-21:33/34
	16:46	10:52-11:36/44	17:57		18:59	21:05	22:06		22:34	
27	08:45	10:05-10:50/45	07:35		06:19	05:57	04:55	20:53-21:25/32	04:39	20:58-21:33/35
	16:49	10:53-11:35/42	18:00		19:01	21:07	22:07		22:34	
28	08:43	10:06-10:50/44	07:32		06:17	05:55	04:54	20:53-21:25/32	04:40	20:59-21:34/35
	16:51	10:54-11:35/41	18:02		19:03	21:10	22:09		22:33	
29	08:41	10:06-10:49/43			07:14	05:52	04:52	20:53-21:26/33	04:41	21:00-21:34/34
	16:53	10:55-11:35/40			20:05	21:12	22:11		22:33	
30	08:39	10:07-10:49/42			07:11	05:50	04:51	20:53-21:27/34	04:41	20:59-21:34/35
	16:55	10:55-11:35/40			20:07	21:14	22:12		22:33	
31	08:37	10:07-10:47/40			07:08		04:50	20:53-21:27/34		
	16:58	10:55-11:34/39			20:09		22:14			
Potential sun hours	231		264		366	428	512		534	
Sum of minutes with flicker	3151		411		0	0	402		1044	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 34 - V-2_85 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August	September	October	November		December	
1	04:42	20:59-21:34/35	05:30	06:33	07:35	07:43		08:46	09:45-11:12/87
	22:32		21:49	20:33	19:11	16:51		15:58	14:25-14:50/25
2	04:43	21:00-21:35/35	05:32	06:36	07:37	07:45		08:48	09:45-11:12/87
	22:32		21:47	20:31	19:08	16:49		15:57	14:26-14:50/24
3	04:44	21:00-21:35/35	05:34	06:38	07:40	07:47	10:40-10:50/10	08:50	09:46-11:12/86
	22:31		21:45	20:28	19:05	16:47		15:56	14:26-14:51/25
4	04:45	21:00-21:35/35	05:36	06:40	07:42	07:49	10:36-10:54/18	08:51	09:47-11:13/86
	22:31		21:43	20:25	19:03	16:44	09:48-09:57/9	15:56	14:26-14:51/25
5	04:46	20:59-21:34/35	05:38	06:42	07:44	07:52	10:34-10:57/23	08:53	09:48-11:13/85
	22:30		21:41	20:22	19:00	16:42	09:45-10:09/24	15:55	14:27-14:52/25
6	04:47	20:59-21:35/36	05:40	06:44	07:46	07:54	10:32-10:59/27	08:55	09:49-11:13/84
	22:29		21:38	20:20	18:57	16:40	09:43-10:12/29	15:54	14:27-14:53/26
7	04:48	21:01-21:36/35	05:42	06:46	07:48	07:56	10:31-11:01/30	08:56	09:50-11:14/84
	22:28		21:36	20:17	18:55	16:38	09:42-10:14/32	15:53	14:28-14:53/25
8	04:49	21:01-21:36/35	05:44	06:48	07:50	07:58	09:40-10:15/35	08:58	09:50-11:13/83
	22:27		21:34	20:14	18:52	16:36	10:29-11:02/33	15:53	14:28-14:53/25
9	04:51	21:01-21:36/35	05:46	06:50	07:52	08:01	09:40-10:17/37	08:59	09:51-11:14/83
	22:26		21:32	20:11	18:49	16:34	10:29-11:04/35	15:52	14:29-14:54/25
10	04:52	21:01-21:35/34	05:48	06:52	07:54	08:03	09:39-10:18/39	09:00	09:51-11:13/82
	22:25		21:29	20:09	18:47	16:32	10:27-11:04/37	15:52	14:29-14:54/25
11	04:53	21:01-21:35/34	05:50	06:54	07:57	08:05	09:39-10:19/40	09:02	09:53-11:14/81
	22:24		21:27	20:06	18:44	16:30	10:27-11:06/39	15:51	14:30-14:55/25
12	04:55	21:00-21:35/35	05:52	06:56	07:59	08:07	09:38-10:20/42	09:03	09:53-11:14/81
	22:23		21:24	20:03	18:41	16:28	10:26-11:06/40	15:51	14:30-14:55/25
13	04:56	21:01-21:35/34	05:54	06:58	08:01	08:10	09:38-10:21/43	09:04	09:54-11:14/80
	22:22		21:22	20:00	18:39	16:26	10:26-11:07/41	15:51	14:30-14:55/25
14	04:58	21:01-21:35/34	05:56	07:00	08:03	08:12	09:37-10:22/45	09:05	09:55-11:15/80
	22:20		21:20	19:58	18:36	16:24	10:26-11:07/41	15:51	14:31-14:56/25
15	04:59	21:01-21:34/33	05:58	07:02	08:05	08:14	09:38-10:23/45	09:06	09:56-11:15/79
	22:19		21:17	19:55	18:33	16:22	10:26-11:08/42	15:51	14:32-14:56/24
16	05:01	21:02-21:35/33	06:00	07:04	08:07	08:16	09:37-10:24/47	09:07	09:57-11:15/78
	22:18		21:15	19:52	18:31	16:20	10:25-11:08/43	15:51	14:32-14:57/25
17	05:02	21:02-21:34/32	06:02	07:06	08:09	08:18	09:38-11:10/92	09:08	09:57-11:16/79
	22:16		21:12	19:49	18:28	16:18		15:51	14:33-14:57/24
18	05:04	21:03-21:34/31	06:04	07:08	08:12	08:20	09:38-11:10/92	09:09	09:58-11:15/77
	22:15		21:10	19:47	18:26	16:17		15:51	14:32-14:57/25
19	05:06	21:03-21:33/30	06:07	07:11	08:14	08:23	09:38-11:09/91	09:10	09:58-11:16/78
	22:13		21:07	19:44	18:23	16:15		15:51	14:33-14:57/24
20	05:07	21:04-21:32/28	06:09	07:13	08:16	08:25	09:39-11:10/91	09:11	09:59-11:17/78
	22:12		21:05	19:41	18:20	16:13		15:51	14:34-14:58/24
21	05:09	21:04-21:31/27	06:11	07:15	08:18	08:27	09:39-11:10/91	09:11	10:00-11:16/76
	22:10		21:02	19:38	18:18	16:12	14:33-14:38/5	15:52	14:34-14:58/24
22	05:11	21:05-21:30/25	06:13	07:17	08:20	08:29	09:40-11:11/91	09:12	10:00-11:17/77
	22:08		21:00	19:36	18:15	16:10	14:31-14:42/11	15:52	14:35-14:59/24
23	05:13	21:06-21:28/22	06:15	07:19	08:23	08:31	09:40-11:11/91	09:12	10:00-11:18/78
	22:07		20:57	19:33	18:13	16:09	14:29-14:43/14	15:53	14:35-14:59/24
24	05:14	21:07-21:25/18	06:17	07:21	08:25	08:33	09:40-11:11/91	09:13	10:01-11:19/78
	22:05		20:54	19:30	18:10	16:07	14:27-14:44/17	15:53	14:36-15:00/24
25	05:16	21:08-21:25/17	06:19	07:23	07:27	08:35	09:42-11:12/90	09:13	10:01-11:19/78
	22:03		20:52	19:27	17:08	16:06	14:26-14:45/19	15:54	14:36-15:01/25
26	05:18	21:10-21:23/13	06:21	07:25	07:29	08:37	09:42-11:12/90	09:13	10:01-11:20/79
	22:01		20:49	19:25	17:06	16:04	14:27-14:47/20	15:55	14:37-15:01/24
27	05:20	21:11-21:20/9	06:23	07:27	07:31	08:39	09:42-11:12/90	09:13	10:01-11:20/79
	21:59		20:47	19:22	17:03	16:03	14:26-14:48/22	15:56	14:37-15:01/24
28	05:22		06:25	07:29	07:34	08:41	09:43-11:12/89	09:14	10:02-11:21/79
	21:57		20:44	19:19	17:01	16:02	14:26-14:48/22	15:56	14:37-15:02/25
29	05:24		06:27	07:31	07:36	08:43	09:44-11:12/88	09:14	10:02-11:22/80
	21:55		20:41	19:16	16:58	16:01	14:26-14:49/23	15:57	14:38-15:03/25
30	05:26		06:29	07:33	07:38	08:44	09:44-11:12/88	09:14	10:02-11:22/80
	21:53		20:39	19:14	16:56	15:59	14:25-14:49/24	15:58	14:38-15:02/24
31	05:28		06:31		07:40			09:14	10:02-11:23/81
	21:51		20:36		16:54			16:00	14:38-15:03/25
Potential sun hours	534		472	385	322	244		211	
Sum of minutes with flicker		805		0	0	0	2368		3267

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 35 - V-2_86 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 09:59-10:17/18 10:33-11:44/71 12:17-12:40/23	08:36 09:24-09:53/29	07:30 08:04-08:39/35	07:06 08:05-08:52/47	05:47	04:48
	16:01 14:28-15:00/32 13:29-13:53/24	17:00 14:41-16:13/92	18:04 16:30-17:02/32	20:12	21:16	22:15
2	09:13 09:58-10:17/19 10:33-11:43/70 12:18-12:40/22	08:34 09:24-09:53/29	07:27 08:02-08:39/37	07:03 08:05-08:53/48	05:45	04:47
	16:02 14:28-15:00/32 13:29-13:53/24	17:02 14:41-16:14/93	18:06 16:31-17:02/31	20:14	21:18	22:17
3	09:13 09:59-10:19/20 10:33-11:43/70 12:18-12:40/22	08:31 09:25-09:53/28	07:24 08:01-08:40/39	07:00 08:04-08:53/49	05:43	04:46
	16:04 14:28-15:01/33 13:29-13:53/24	17:04 14:42-16:15/93	18:09 16:31-17:01/30	20:16	21:20	22:18
4	09:12 09:59-10:19/20 10:35-11:43/68 12:20-12:40/20	08:29 09:25-09:52/27	07:22 08:00-08:40/40	06:57 08:03-08:53/50	05:40	04:45
	16:05 14:29-15:03/34 13:31-13:54/23	17:07 14:42-16:14/92	18:11 16:32-17:00/28	20:18	21:22	22:20
5	09:12 09:59-10:20/21 10:35-11:42/67 12:21-12:40/19	08:27 09:26-09:52/26	07:19 08:00-08:40/40	06:55 08:02-08:52/50	05:38	04:44
	16:06 14:29-15:04/35 13:31-13:53/22	17:09 14:43-16:15/92	18:13 16:33-16:58/25	20:20	21:25	22:21
6	09:11 09:59-10:20/21 10:35-11:42/67 12:22-12:39/17	08:25 09:27-09:51/24	07:16 07:59-08:40/41	06:52 08:02-08:53/51	05:36	04:43
	16:08 14:30-15:05/35 13:32-13:53/21	17:11 14:44-16:15/91	18:15 16:35-16:57/22	20:22	21:27	22:22
7	09:11 09:59-10:21/22 10:36-11:41/65 12:23-12:39/16	08:23 09:28-09:50/22	07:14 07:52-08:40/48	06:49 08:02-08:52/50	05:33	04:42
	16:09 14:30-15:06/36 13:33-13:53/20	17:14 14:44-16:14/90	18:17 16:36-16:55/19	20:24	21:29	22:23
8	09:10 09:59-10:22/23 10:36-11:38/62 12:25-12:38/13	08:21 09:29-09:49/20	07:11 07:49-08:39/50	06:47 08:01-08:51/50	05:31	04:41
	16:11 14:30-15:08/38 13:34-13:53/19	17:16 14:45-16:15/90	18:20 16:39-16:51/12	20:27	21:31	22:24
9	09:09 09:59-10:23/24 10:37-11:37/60 12:27-12:37/10	08:19 09:32-09:46/14	07:08 07:47-08:39/52	06:44 08:02-08:51/49	05:29	04:41
	16:13 14:31-15:10/39 13:36-13:52/16	17:18 14:46-16:13/87	18:22	20:29	21:33	22:26
10	09:08 10:00-10:23/23 10:38-11:37/59 12:30-12:35/5	08:16 09:36-09:39/3	07:06 07:45-08:38/53	06:41 08:01-08:50/49	05:27	04:40
	16:14 14:31-15:13/42 13:37-13:52/15	17:21 14:47-16:13/86	18:24	20:31	21:35	22:27
11	09:07 10:00-10:24/24 10:38-11:38/60	08:14 14:48-16:12/84	07:03 07:41-08:37/56	06:38 08:02-08:50/48	05:25	04:39
	16:16 14:31-15:15/44 13:38-13:50/12	17:23	18:26	20:33	21:37	22:28
12	09:06 10:00-10:24/24 10:38-11:37/59	08:12 15:53-16:11/18	07:00 07:37-08:36/59	06:36 08:02-08:49/47	05:22	04:39
	16:18 14:31-15:17/46 13:41-13:49/8	17:25 14:50-15:52/62	18:28	20:35	21:39	22:28
13	09:05 10:00-10:25/25 10:40-11:38/58	08:09 15:54-16:09/15	06:58 07:35-08:35/60	06:33 08:01-08:48/47	05:20	04:38
	16:20 14:32-15:23/51	17:28 14:52-15:50/58	18:31	20:37	21:41	22:29
14	09:04 10:00-10:25/25 10:40-11:37/57	08:07 15:58-16:06/8	06:55 07:32-08:33/61	06:30 08:02-08:47/45	05:18	04:38
	16:21 14:32-15:26/54	17:30 14:55-15:49/54	18:33	20:39	21:43	22:30
15	09:03 10:01-10:26/25 10:41-11:38/57	08:05 14:59-15:47/48	06:52 07:30-08:31/61	06:28 08:02-08:46/44	05:16	04:38
	16:23 14:33-15:29/56	17:32 16:45-16:50/5	18:35	20:42	21:45	22:31
16	09:02 10:01-10:26/25 10:42-11:37/55	08:02 15:07-15:27/20 16:41-16:55/14	06:49 07:29-08:28/59	06:25 08:04-08:45/41	05:14	04:37
	16:25 14:33-15:32/59	17:34 15:32-15:44/12	18:37	20:44	21:47	22:31
17	09:01 10:02-10:26/24 10:43-11:38/55	08:00 15:11-15:21/10	06:47 08:17-08:24/7	06:23 08:04-08:43/39	05:12	04:37
	16:27 14:34-15:35/61	17:37 16:38-16:57/19	18:39 07:28-08:14/46	20:46	21:49	22:32
18	08:59 10:02-10:26/24 10:44-11:37/53	07:57 16:37-16:59/22	06:44 07:27-08:14/47	06:20 08:05-08:42/37	05:10	04:37
	16:29 14:35-15:37/62	17:39	18:41	20:48	21:51	22:32
19	08:58 09:35-09:39/4 14:35-15:40/65 15:43-15:49/6	07:55 16:35-17:00/25	06:41 07:26-08:13/47	06:17 08:06-08:40/34	05:09	04:37
	16:31 10:02-10:26/24 10:45-11:36/51	17:41	18:44	20:50	21:53	22:33
20	08:56 09:33-09:43/10 14:37-15:53/76	07:53 16:33-17:01/28	06:38 07:25-08:12/47	06:15 08:08-08:38/30	05:07	04:37
	16:33 10:04-10:27/23 10:48-11:37/49	17:44	18:46	20:52	21:55	22:33
21	08:55 09:30-09:45/15 14:38-15:55/77	07:50 16:33-17:02/29	06:36 07:25-08:11/46	06:12 08:09-08:35/26	05:05	04:37
	16:36 10:04-10:27/23 10:49-11:36/47	17:46	18:48	20:55	21:57	22:33
22	08:53 09:28-09:46/18 14:38-15:56/78 10:51-11:03/12	07:48 16:32-17:03/31	06:33 07:25-08:11/46	06:10 08:11-08:33/22	05:03	04:37
	16:38 10:05-10:26/21 11:12-11:35/23	17:48	18:50	20:57	21:59	22:34
23	08:52 09:27-09:47/20 14:39-15:57/78 11:15-11:34/19	07:45 16:31-17:03/32	06:30 07:22-08:10/48	06:07 08:14-08:29/15	05:02	04:38
	16:40 10:06-10:26/20 10:55-11:00/5	17:51	18:52	20:59	22:01	22:34
24	08:50 09:26-09:48/22 14:40-16:02/82	07:43 08:21-08:29/8	06:28 07:18-08:08/50	06:05	05:00	04:38
	16:42 10:07-10:25/18 11:17-11:32/15	17:53 16:31-17:04/33	18:54	21:01	22:02	22:34
25	08:48 09:25-09:49/24 14:40-16:05/85	07:40 08:17-08:32/15	06:25 07:15-08:06/51	06:02	04:58	04:38
	16:44 10:08-10:24/16 11:20-11:29/9	17:55 16:30-17:03/33	18:57	21:03	22:04	22:34
26	08:47 09:25-09:50/25 14:40-16:07/87	07:37 08:12-08:35/23	06:22 07:14-08:05/51	06:00	04:57	04:39
	16:46 10:09-10:23/14	17:57 16:30-17:03/33	18:59	21:05	22:06	22:34
27	08:45 09:24-09:51/27 14:40-16:09/89	07:35 08:07-08:37/30	06:19 07:12-08:02/50	05:57	04:55	04:39
	16:49 10:12-10:22/10	18:00 16:30-17:04/34	19:01	21:07	22:07	22:34
28	08:43 09:24-09:52/28	07:32 08:05-08:37/32	06:17 07:10-07:58/48	05:55	04:54	04:40
	16:51 14:40-16:10/90	18:02 16:30-17:03/33	19:03	21:10	22:09	22:33
29	08:41 09:24-09:52/28		07:14 08:08-08:56/48	05:52	04:52	04:41
	16:53 14:40-16:11/91		20:05	21:12	22:11	22:33
30	08:39 09:24-09:53/29		07:11 08:08-08:56/48	05:50	04:51	04:41
	16:55 14:41-16:13/92		20:07	21:14	22:12	22:33
31	08:37 09:25-09:52/27		07:08 08:06-08:53/47		04:50	
	16:58 14:40-16:13/93		20:09		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	4469	1996	1717	968	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 35 - V-2_86 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:33 08:01-08:49/48	07:35 08:14-09:14/60	07:43 09:04-09:12/8	08:46 09:42-10:06/24 10:21-11:19/58
	22:32	21:49	20:33	19:11	16:51 14:17-15:43/86	15:58 14:13-14:57/44 13:21-13:32/11
2	04:43	05:32	06:35 08:00-08:49/49	07:37 08:18-09:16/58	07:45 09:00-09:16/16	08:48 09:43-10:06/23 10:21-11:19/58 12:12-12:17/5
	22:32	21:47	20:30	19:08	16:49 14:15-15:43/88	15:57 14:13-14:55/42 13:20-13:34/14
3	04:44	05:34	06:38 08:00-08:49/49	07:40 08:22-09:16/54	07:47 08:59-09:19/20	08:50 09:43-10:06/23 10:20-11:20/60 12:10-12:20/10
	22:31	21:45	20:28	19:05	16:47 14:15-15:44/89	15:56 14:14-14:53/39 13:19-13:35/16
4	04:45	05:36	06:40 07:59-08:49/50	07:42 08:23-09:16/53	07:49 08:57-09:20/23	08:51 09:43-10:06/23 10:20-11:21/61 12:09-12:22/13
	22:31	21:43	20:25	19:03	16:44 14:13-15:44/91	15:55 14:14-14:52/38 13:19-13:37/18
5	04:46	05:38	06:42 07:59-08:49/50	07:44 08:25-09:16/51	07:52 08:57-09:21/24	08:53 09:44-10:06/22 10:21-11:26/65 12:08-12:24/16
	22:30	21:41	20:22	19:00 17:18-17:27/9	16:42 14:13-15:45/92	15:55 14:15-14:51/36 13:18-13:38/20
6	04:47	05:40	06:44 07:59-08:49/50	07:46 08:27-09:16/49	07:54 08:56-09:21/25	08:55 09:45-10:07/22 10:21-11:28/67 12:08-12:25/17
	22:29	21:38	20:20	18:57 17:14-17:30/16	16:40 14:12-15:45/93	15:54 14:16-14:51/35 13:18-13:39/21
7	04:48	05:42	06:46 07:58-08:48/50	07:48 08:30-09:15/45	07:56 08:56-09:23/27	08:56 09:46-10:07/21 10:22-11:29/67 12:08-12:27/19
	22:28	21:36	20:17	18:55 17:11-17:32/21	16:38 14:13-15:45/92	15:53 14:16-14:51/35 13:19-13:40/21
8	04:49	05:44	06:48 07:58-08:48/50	07:50 08:35-09:16/41	07:58 08:55-09:23/28	08:58 09:46-10:06/20 10:22-11:30/68 12:07-12:27/20
	22:27	21:34	20:14	18:52 17:09-17:33/24	16:36 14:12-15:45/93	15:53 14:16-14:50/34 13:18-13:41/23
9	04:51	05:46	06:50 07:57-08:46/49	07:52 08:35-09:15/40	08:01 08:55-09:24/29	08:59 09:47-10:07/20 10:23-11:32/69 12:07-12:29/22
	22:26	21:32	20:11	18:49 17:08-17:34/26	16:34 14:12-15:45/93	15:52 14:17-14:51/34 13:18-13:42/24
10	04:52	05:48	06:52 07:57-08:46/49	07:54 08:35-09:14/39	08:03 08:55-09:23/28	09:00 09:47-10:07/20 10:22-11:32/70 12:07-12:29/22
	22:25	21:29	20:09	18:47 17:06-17:35/29	16:32 14:11-15:44/93	15:52 14:17-14:50/33 13:18-13:42/24
11	04:53	05:50	06:54 07:57-08:45/48	07:56 08:35-09:13/38	08:05 08:55-09:24/29	09:02 09:49-10:07/18 10:23-11:34/71 12:07-12:30/23
	22:24	21:27	20:06	18:44 17:05-17:35/30	16:30 14:12-15:44/92	15:51 14:19-14:50/31 13:19-13:43/24
12	04:55	05:52	06:56 07:58-08:45/47	07:59 08:36-09:13/37	08:07 08:55-09:24/29	09:03 09:49-10:07/18 10:24-11:34/70 12:07-12:31/24
	22:23	21:24	20:03	18:41 17:04-17:35/31	16:28 14:11-15:43/92	15:51 14:19-14:49/30 13:19-13:44/25
13	04:56	05:54	06:58 07:58-08:46/48	08:01 08:37-09:12/35	08:10 08:56-09:24/28	09:04 09:50-10:07/17 10:24-11:35/71 12:07-12:31/24
	22:22	21:22	20:00	18:39 17:04-17:36/32	16:26 14:12-15:43/91	15:51 14:19-14:48/29 13:19-13:44/25
14	04:57	05:56	07:00 07:59-08:47/48	08:03 08:39-09:10/31	08:12 08:56-09:24/28 14:12-15:42/90	09:05 09:51-10:08/17 10:25-11:36/71 12:08-12:33/25
	22:21	21:20	19:58	18:36 17:03-17:36/33	16:24 09:48-09:50/2	15:51 14:20-14:49/29 13:20-13:45/25
15	04:59	05:58	07:02 07:59-08:47/48	08:05 08:41-09:08/27	08:14 08:57-09:24/27 14:13-15:42/89	09:06 09:52-10:08/16 10:25-11:37/72 12:08-12:33/25
	22:19	21:17	19:55	18:33 17:02-17:36/34	16:22 09:44-09:55/11	15:50 14:21-14:48/27 13:20-13:46/26
16	05:01	06:00	07:04 08:00-08:51/51	08:07 08:48-09:07/19	08:16 08:58-09:23/25 14:13-15:40/87	09:07 09:53-10:08/15 10:26-11:37/71 12:09-12:34/25
	22:18	21:15	19:52	18:31 17:02-17:35/33	16:20 09:42-09:56/14	15:50 14:21-14:48/27 13:20-13:46/26
17	05:02	06:02	07:06 08:01-08:53/52	08:09 08:50-09:03/13	08:18 08:59-09:23/24 14:14-15:39/85	09:08 09:53-10:08/15 10:26-11:38/72 12:09-12:35/26
	22:16	21:12	19:49	18:28 17:03-17:35/32	16:18 09:42-09:58/16 10:54-11:03/9	15:51 14:22-14:48/26 13:21-13:47/26
18	05:04	06:04	07:08 08:03-08:54/51	08:12 17:02-17:35/33	08:20 09:00-09:22/22 14:14-15:36/82	09:09 09:54-10:09/15 10:27-11:39/72 12:09-12:35/26
	22:15	21:10	19:47	18:26	16:16 09:41-09:59/18 10:51-11:06/15	15:51 14:22-14:47/25 13:21-13:48/27
19	05:05	06:06 08:26-08:28/2	07:10 08:05-08:55/50	08:14 17:02-17:34/32	08:23 09:02-09:22/20 14:13-15:31/78 10:50-11:09/19	09:10 09:54-10:08/14 10:27-11:38/71 12:09-12:35/26
	22:13	21:07	19:44	18:23	16:15 09:41-10:01/20 10:30-10:35/5	15:51 14:22-14:48/26 13:21-13:48/27
20	05:07	06:09 08:19-08:35/16	07:13 08:07-08:56/49	08:16 17:03-17:34/31	08:25 09:03-09:21/18 14:13-15:31/78 10:26-10:38/12	09:11 09:55-10:09/14 10:27-11:39/72 12:10-12:36/26
	22:12	21:05	19:41	18:20	16:13 09:40-10:01/21 10:47-11:10/23	15:51 14:23-14:49/26 13:22-13:48/26
21	05:09	06:11 08:15-08:38/23	07:15 08:11-08:56/45	08:18 17:03-17:32/29	08:27 09:05-09:20/15 14:13-15:30/77	09:11 09:56-10:10/14 10:28-11:40/72 12:11-12:37/26
	22:10	21:02	19:38	18:18	16:12 09:39-10:02/23 10:24-11:11/47	15:52 14:23-14:49/26 13:22-13:49/27
22	05:11	06:13 08:13-08:40/27	07:17 08:10-08:57/47	08:20 17:04-17:31/27	08:29 09:09-09:19/10 14:13-15:29/76	09:12 09:56-10:10/14 10:28-11:40/72 12:11-12:37/26
	22:08	21:00	19:36	18:15	16:10 09:40-10:03/23 10:24-11:13/49	15:52 14:24-14:50/26 13:22-13:49/27
23	05:12	06:15 08:11-08:42/31	07:19 08:10-08:57/47	08:23 17:06-17:30/24	08:31 09:12-09:16/4 14:12-15:17/65 15:20-15:26/6	09:12 09:56-10:10/14 10:28-11:40/72 12:11-12:37/26
	22:07	20:57	19:33	18:13	16:08 09:39-10:03/24 10:22-11:13/51	15:53 14:24-14:50/26 13:22-13:49/27
24	05:14	06:17 08:09-08:44/35	07:21 08:10-08:57/47	08:25 17:06-17:28/22	08:33 09:39-10:03/24 10:21-11:14/53	09:13 09:57-10:11/14 10:30-11:41/71 12:12-12:38/26
	22:05	20:54	19:30	18:10	16:07 14:12-15:14/62	15:53 14:25-14:51/26 13:24-13:50/26
25	05:16	06:19 08:08-08:45/37	07:23 08:10-08:57/47	07:27 14:40-14:54/14	08:35 09:40-10:05/25 10:21-11:16/55	09:13 09:57-10:12/15 10:30-11:42/72 12:12-12:38/26
	22:03	20:52	19:27	17:08 16:09-16:27/18	16:06 14:12-15:12/60	15:54 14:26-14:51/25 13:24-13:51/27
26	05:18	06:21 08:06-08:46/40	07:25 08:10-08:56/46	07:29 14:34-14:58/24 16:11-16:24/13	08:37 09:40-10:05/25 10:21-11:16/55	09:13 09:57-10:12/15 10:30-11:42/72 12:13-12:38/25
	22:01	20:49	19:25	17:05 15:00-15:14/14	16:04 14:12-15:11/59	15:55 14:26-14:52/26 13:24-13:51/27
27	05:20	06:23 08:05-08:47/42	07:27 08:10-09:09/59	07:31 14:28-15:18/50	08:39 09:40-10:05/25 10:20-11:17/57	09:14 09:57-10:13/16 10:31-11:42/71 12:13-12:39/26
	21:59	20:46	19:22	17:03	16:03 14:12-15:08/56	15:55 14:26-14:52/26 13:25-13:51/26
28	05:22	06:25 08:04-08:48/44	07:29 08:11-09:11/60	07:34 15:26-15:37/11	08:41 09:40-10:05/25 10:20-11:17/57	09:14 09:58-10:14/16 10:31-11:42/71 12:14-12:39/25
	21:57	20:44	19:19	17:01 14:24-15:19/55	16:02 14:12-15:06/54	15:56 14:27-14:54/27 13:26-13:52/26
29	05:24	06:27 08:03-08:48/45	07:31 08:12-09:13/61	07:36 15:23-15:39/16	08:43 09:41-10:05/24 10:20-11:18/58	09:14 09:58-10:14/16 10:32-11:43/71 12:15-12:40/25
	21:55	20:41	19:16	16:58 14:21-15:20/59	16:00 14:12-15:04/52	15:57 14:27-14:55/28 13:26-13:52/26
30	05:26	06:29 08:02-08:49/47	07:33 08:13-09:14/61	07:38 14:19-15:41/82	08:44 09:42-10:06/24 10:20-11:18/58	09:14 09:58-10:15/17 10:32-11:43/71 12:16-12:40/24
	21:53	20:39	19:14	16:56	15:59 14:13-14:58/45 13:22-13:30/8	15:58 14:27-14:56/29 13:27-13:53/26
31	05:28	06:31 08:02-08:49/47		07:40 14:17-15:42/85		09:14 09:58-10:16/18 10:32-11:43/71 12:16-12:40/24
	21:51	20:36		16:54		15:59 14:27-14:58/31 13:27-13:52/25
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	436	1506	1679	3868	5042

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 36 - V-2_87 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 13:49-14:48/59 10:12-10:36/24	08:35 14:31-14:56/25	07:30 08:01-08:38/37	07:06	05:47	04:48
	16:01 12:20-13:39/79	17:00	18:04	20:12	21:16	22:15
2	09:13 13:50-14:49/59 10:12-10:36/24	08:33 14:33-14:55/22	07:27 08:00-08:31/31	07:03	05:45	04:47
	16:02 12:21-13:40/79	17:02	18:06	20:14	21:18	22:17
3	09:13 13:50-14:50/60 10:12-10:36/24	08:31 14:36-14:53/17	07:24 07:59-08:30/31	07:00	05:43	04:46
	16:03 12:21-13:40/79	17:04	18:09	20:16	21:20	22:18
4	09:12 13:52-14:51/59 10:13-10:37/24	08:29 14:39-14:50/11	07:22 07:58-08:29/31	06:57	05:40	04:45
	16:05 12:22-13:41/79	17:07	18:11	20:18	21:22	22:20
5	09:12 13:53-14:52/59 10:13-10:37/24	08:27	07:19 07:58-08:28/30	06:55	05:38	04:44
	16:06 12:23-13:41/78	17:09	18:13	20:20	21:25	22:21
6	09:11 13:53-14:52/59 10:13-10:38/25	08:25	07:16 07:57-08:26/29	06:52	05:36	04:43
	16:08 12:23-13:41/78	17:11	18:15	20:22	21:27	22:22
7	09:10 13:54-14:53/59 10:14-10:38/24	08:23	07:14 07:56-08:25/29	06:49	05:33	04:42
	16:09 12:24-13:41/77	17:14	18:17	20:24	21:29	22:23
8	09:10 13:55-14:53/58 10:14-10:38/24	08:21	07:11 07:55-08:24/29	06:47	05:31	04:41
	16:11 12:25-13:41/76	17:16	18:20	20:27	21:31	22:24
9	09:09 13:57-14:54/57 10:15-10:39/24	08:19	07:08 07:56-08:25/29	06:44	05:29	04:41
	16:13 12:26-13:41/75	17:18	18:22	20:29	21:33	22:25
10	09:08 13:58-14:55/57 10:16-10:39/23	08:16	07:06 07:56-08:24/28	06:41	05:27	04:40
	16:14 12:27-13:41/74	17:21	18:24	20:31	21:35	22:26
11	09:07 13:59-14:55/56 10:16-10:40/24	08:14	07:03 07:56-08:23/27	06:38	05:25	04:39
	16:16 12:28-13:39/71	17:23	18:26	20:33	21:37	22:27
12	09:06 14:02-14:56/54 10:16-10:39/23	08:12	07:00 07:56-08:22/26	06:36	05:22	04:39
	16:18 12:29-13:39/70	17:25	18:28	20:35	21:39	22:28
13	09:05 14:10-14:57/47 10:17-10:40/23	08:09	06:58 07:57-08:21/24	06:33	05:20	04:38
	16:20 12:31-13:39/68	17:28	18:31	20:37	21:41	22:29
14	09:04 14:11-14:57/46 13:11-13:37/26	08:07	06:55 07:58-08:19/21	06:30	05:18	04:38
	16:21 12:32-13:08/36 10:17-10:39/22	17:30	18:33	20:39	21:43	22:30
15	09:03 14:14-14:58/44 13:14-13:36/22	08:05 08:33-08:40/7	06:52 07:59-08:17/18	06:28	05:16	04:38
	16:23 12:34-13:08/34 10:19-10:40/21	17:32	18:35	20:42	21:45	22:31
16	09:02 14:16-14:58/42 13:23-13:27/4 10:19-10:39/20	08:02 08:31-08:43/12	06:49 08:01-08:14/13	06:25	05:14	04:37
	16:25 12:35-13:06/31 13:28-13:33/5	17:34	18:37	20:44	21:47	22:31
17	09:00 12:39-13:04/25 10:21-10:39/18	08:00 08:28-08:44/16	06:47	06:23	05:12	04:37
	16:27 14:21-14:59/38	17:37	18:39	20:46	21:49	22:32
18	08:59 12:51-12:55/4 10:21-10:38/17	07:57 08:27-08:46/19	06:44	06:20	05:10	04:37
	16:29 14:21-14:59/38	17:39	18:41	20:48	21:51	22:32
19	08:58 14:21-14:59/38	07:55 08:26-08:46/20	06:41	06:17	05:09	04:37
	16:31 10:22-10:37/15	17:41	18:44	20:50	21:53	22:33
20	08:56 14:22-14:59/37	07:53 08:26-08:47/21	06:38	06:15	05:07	04:37
	16:33 10:25-10:37/12	17:44	18:46	20:52	21:55	22:33
21	08:55 14:23-15:00/37	07:50 08:25-08:47/22	06:36	06:12	05:05	04:37
	16:36 10:27-10:35/8	17:46 08:19-08:23/4	18:48	20:54	21:57	22:33
22	08:53 14:23-15:00/37	07:48 08:15-08:47/32	06:33	06:10	05:03	04:37
	16:38	17:48	18:50	20:57	21:59	22:34
23	08:52 14:23-15:00/37	07:45 08:13-08:47/34	06:30	06:07	05:02	04:38
	16:40	17:50	18:52	20:59	22:00	22:34
24	08:50 14:24-15:00/36	07:42 08:11-08:46/35	06:27	06:05	05:00	04:38
	16:42	17:53	18:54	21:01	22:02	22:34
25	08:48 14:25-15:00/35	07:40 08:07-08:45/38	06:25	06:02	04:58	04:38
	16:44	17:55	18:57	21:03	22:04	22:34
26	08:47 14:25-15:00/35	07:37 08:05-08:45/40	06:22	06:00	04:57	04:39
	16:46	17:57	18:59	21:05	22:06	22:34
27	08:45 14:26-15:00/34	07:35 08:02-08:43/41	06:19	05:57	04:55	04:39
	16:49	18:00	19:01	21:07	22:07	22:34
28	08:43 14:27-14:59/32	07:32 08:01-08:41/40	06:17	05:55	04:54	04:40
	16:51	18:02	19:03	21:10	22:09	22:33
29	08:41 14:28-14:59/31		07:14	05:52	04:52	04:41
	16:53		20:05	21:12	22:11	22:33
30	08:39 14:28-14:58/30		07:11	05:50	04:51	04:41
	16:55		20:07	21:14	22:12	22:33
31	08:37 14:30-14:57/27		07:08		04:50	
	16:58		20:09		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	3010	456	433	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 36 - V-2_87 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:33	07:35 08:35-09:00/25	07:43	08:46 13:41-14:37/56 09:58-10:21/23
	22:32	21:49	20:33	19:11	16:51	15:58 12:10-13:21/71
2	04:43	05:32	06:35	07:37 08:35-09:02/27	07:45	08:48 13:40-14:37/57 09:58-10:21/23
	22:32	21:47	20:30	19:08	16:49	15:57 12:09-13:23/74
3	04:44	05:34	06:38	07:39 08:34-09:02/28	07:47	08:50 13:40-14:37/57 09:58-10:22/24
	22:31	21:45	20:28	19:05	16:47	15:56 12:09-13:24/75
4	04:45	05:36	06:40	07:42 08:33-09:02/29	07:49	08:51 13:40-14:38/58 09:58-10:22/24
	22:30	21:43	20:25	19:03	16:44	15:55 12:09-13:25/76
5	04:46	05:38	06:42	07:44 08:33-09:01/28	07:52	08:53 13:39-14:38/59 09:59-10:23/24
	22:30	21:41	20:22	19:00	16:42	15:55 12:09-13:26/77
6	04:47	05:40	06:44	07:46 08:32-09:01/29	07:54	08:55 13:39-14:38/59 10:00-10:24/24
	22:29	21:38	20:20	18:57	16:40	15:54 12:10-13:27/77
7	04:48	05:42	06:46	07:48 08:32-09:01/29	07:56 14:09-14:21/12	08:56 13:40-14:38/58 10:00-10:24/24
	22:28	21:36	20:17	18:55	16:38	15:53 12:10-13:28/78
8	04:49	05:44	06:48	07:50 08:33-09:03/30	07:58 14:06-14:23/17	08:58 13:39-14:38/59 10:00-10:24/24
	22:27	21:34	20:14	18:52	16:36	15:53 12:09-13:28/79
9	04:50	05:46	06:50	07:52 08:33-09:04/31	08:01 14:04-14:26/22	08:59 13:40-14:39/59 10:01-10:25/24
	22:26	21:31	20:11	18:49	16:34	15:52 12:10-13:29/79
10	04:52	05:48	06:52	07:54 08:33-09:04/31	08:03 14:02-14:27/25	09:00 13:39-14:38/59 10:01-10:25/24
	22:25	21:29	20:09	18:47	16:32	15:52 12:10-13:29/79
11	04:53	05:50	06:54	07:56 08:33-09:04/31	08:05 14:01-14:29/28	09:02 13:40-14:39/59 10:02-10:26/24
	22:24	21:27	20:06	18:44	16:30	15:51 12:11-13:30/79
12	04:55	05:52	06:56	07:59 08:34-09:05/31	08:07 14:00-14:29/29	09:03 13:40-14:39/59 10:02-10:26/24
	22:23	21:24	20:03	18:41	16:28	15:51 12:11-13:30/79 11:07-11:09/2
13	04:56	05:54	06:58	08:01 08:34-09:13/39	08:09 14:00-14:31/31	09:04 13:40-14:39/59 10:02-10:26/24
	22:22	21:22	20:00	18:39	16:26	15:51 12:11-13:31/80 11:05-11:11/6
14	04:57	05:56	07:00	08:03 08:34-09:15/41	08:12 13:59-14:31/32	09:05 13:41-14:39/58 10:04-10:27/23
	22:20	21:20	19:58	18:36	16:24	15:51 12:12-13:31/79 11:06-11:13/7
15	04:59	05:58	07:02	08:05 08:35-09:16/41	08:14 13:59-14:33/34	09:06 13:41-14:40/59 10:04-10:27/23
	22:19	21:17	19:55	18:33	16:22	15:50 12:12-13:33/81 11:05-11:14/9
16	05:01	06:00	07:04	08:07 08:38-09:17/39	08:16 13:58-14:33/35	09:07 13:41-14:40/59 10:05-10:28/23
	22:18	21:15	19:52	18:31	16:20	15:50 12:12-13:33/81 11:05-11:15/10
17	05:02	06:02	07:06	08:09 08:40-09:18/38	08:18 13:58-14:34/36	09:08 13:42-14:41/59 10:05-10:28/23
	22:16	21:12	19:49	18:28	16:18	15:51 12:13-13:34/81 11:05-11:16/11
18	05:04	06:04	07:08	08:12 08:43-09:17/34	08:20 13:58-14:34/36	09:09 13:41-14:40/59 10:06-10:29/23
	22:15	21:10	19:47	18:26	16:16	15:51 12:12-13:33/81 11:06-11:17/11
19	05:05	06:06	07:10	08:14 08:45-09:18/33	08:22 13:57-14:34/37	09:10 13:42-14:41/59 10:05-10:28/23
	22:13	21:07	19:44	18:23	16:15	15:51 12:13-13:34/81 11:05-11:17/12
20	05:07	06:09	07:12	08:16 08:47-09:18/31	08:25 13:58-14:35/37	09:11 13:43-14:41/58 10:06-10:29/23
	22:12	21:05	19:41	18:20	16:13	15:51 12:14-13:35/81 11:06-11:18/12
21	05:09	06:11	07:15	08:18 08:55-09:17/22	08:27 13:58-14:35/37	09:11 13:43-14:41/58 10:07-10:30/23
	22:10	21:02	19:38	18:18	16:11 10:02-10:10/8	15:52 12:14-13:35/81 11:07-11:19/12
22	05:11	06:13	07:17	08:20 08:56-09:17/21	08:29 13:58-14:35/37	09:12 13:44-14:42/58 10:07-10:30/23
	22:08	20:59	19:36	18:15	16:10 10:01-10:13/12	15:52 12:15-13:36/81 11:07-11:19/12
23	05:12	06:15	07:19	08:23 08:56-09:16/20	08:31 13:59-14:36/37	09:12 13:44-14:42/58 10:07-10:30/23
	22:07	20:57	19:33	18:13	16:08 10:00-10:15/15	15:53 12:15-13:36/81 11:07-11:19/12
24	05:14	06:17	07:21	08:25 08:56-09:15/19	08:33 12:28-12:32/4 09:59-10:16/17	09:13 13:45-14:43/58 10:08-10:31/23
	22:05	20:54	19:30	18:10	16:07 13:58-14:36/38	15:53 12:16-13:37/81 11:08-11:20/12
25	05:16	06:19	07:23	07:27 07:59-08:14/15	08:35 12:16-12:41/25 09:59-10:17/18	09:13 13:45-14:44/59 10:09-10:32/23
	22:03	20:52	19:27	17:08	16:06 13:59-14:36/37	15:54 12:16-13:37/81 11:08-11:20/12
26	05:18	06:21	07:25	07:29 08:01-08:12/11	08:37 13:55-14:37/42 13:02-13:05/3 09:58-10:18/20	09:13 13:46-14:44/58 10:09-10:32/23
	22:01	20:49	19:25	17:05	16:04 12:15-12:45/30 13:07-13:12/5	15:55 12:17-13:38/81 11:09-11:20/11
27	05:20	06:23	07:27 08:44-08:55/11	07:31 08:04-08:10/6	08:39 13:53-14:37/44 12:53-13:15/22	09:13 13:46-14:45/59 10:09-10:32/23
	21:59	20:46	19:22	17:03	16:03 12:13-12:47/34 09:58-10:19/21	15:55 12:17-13:38/81 11:10-11:20/10
28	05:22	06:25	07:29 08:41-08:57/16	07:34	08:41 13:51-14:37/46 12:51-13:17/26	09:14 13:47-14:46/59 10:10-10:33/23
	21:57	20:44	19:19	17:01	16:02 12:12-12:48/36 09:58-10:19/21	15:56 12:18-13:38/80 11:11-11:20/9
29	05:24	06:27	07:31 08:39-08:59/20	07:36	08:43 13:50-14:37/47 09:57-10:20/23	09:14 13:48-14:46/58 10:10-10:34/24
	21:55	20:41	19:16	16:58	16:00 12:11-13:19/68	15:57 12:18-13:39/81 11:12-11:20/8
30	05:26	06:29	07:33 08:37-09:00/23	07:38	08:44 13:43-14:37/54 09:57-10:20/23	09:14 13:47-14:46/59 10:11-10:35/24
	21:53	20:38	19:14	16:56	15:59 12:10-13:20/70	15:58 12:18-13:39/81 11:14-11:20/6
31	05:28	06:31		07:40		09:13 13:48-14:47/59 10:11-10:34/23
	21:51	20:36		16:54		15:59 12:19-13:39/80 11:15-11:19/4
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	0	70	759	1331	5183

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 37 - V-2_88 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:13 11:13-11:24/11	08:35	07:30	07:06	05:47	04:48	04:42	05:30	06:33	07:35	07:43	08:46
	16:01 12:40-12:53/13	17:00	18:04	20:11	21:16	22:15	22:32	21:49	20:33	19:11	16:51	15:58
2	09:13 11:15-11:20/5	08:33	07:27	07:03	05:45	04:47	04:43	05:32	06:35	07:37	07:45	08:48
	16:02 12:42-12:53/11	17:02	18:06	20:14	21:18	22:17	22:32	21:47	20:30	19:08	16:49	15:57
3	09:13 12:43-12:52/9	08:31	07:24	07:00	05:43	04:46	04:44	05:34	06:38	07:39	07:47	08:50
	16:03	17:04	18:08	20:16	21:20	22:18	22:31	21:45	20:28	19:05	16:47	15:56
4	09:12 12:47-12:50/3	08:29	07:22	06:57	05:40	04:45	04:45	05:36	06:40	07:42	07:49	08:51
	16:05	17:07	18:11	20:18	21:22	22:19	22:30	21:43	20:25	19:03	16:44	15:55
5	09:12	08:27	07:19	06:55	05:38	04:44	04:46	05:38	06:42	07:44	07:52	08:53
	16:06	17:09	18:13	20:20	21:24	22:21	22:30	21:40	20:22	19:00	16:42	15:55
6	09:11	08:25	07:16	06:52	05:36	04:43	04:47	05:40	06:44	07:46	07:54	08:55
	16:08	17:11	18:15	20:22	21:27	22:22	22:29	21:38	20:20	18:57	16:40	15:54
7	09:10	08:23	07:14	06:49	05:33	04:42	04:48	05:42	06:46	07:48	07:56	08:56
	16:09	17:14	18:17	20:24	21:29	22:23	22:28	21:36	20:17	18:55	16:38	15:53
8	09:10	08:21	07:11	06:46	05:31	04:41	04:49	05:44	06:48	07:50	07:58	08:58 12:34-12:37/3
	16:11	17:16	18:20	20:26	21:31	22:24	22:27	21:34	20:14	18:52	16:36	15:53
9	09:09	08:18	07:08	06:44	05:29	04:41	04:50	05:46	06:50	07:52	08:01	08:59 12:32-12:41/9
	16:13	17:18	18:22	20:29	21:33	22:25	22:26	21:31	20:11	18:49	16:34	15:52
10	09:08	08:16	07:06	06:41	05:27	04:40	04:52	05:48	06:52	07:54	08:03	09:00 11:04-11:09/5
	16:14	17:21	18:24	20:31	21:35	22:26	22:25	21:29	20:09	18:46	16:32	15:52 12:31-12:42/11
11	09:07	08:14	07:03	06:38	05:25	04:39	04:53	05:50	06:54	07:56	08:05	09:02 11:04-11:13/9
	16:16	17:23	18:26	20:33	21:37	22:27	22:24	21:27	20:06	18:44	16:30	15:51 12:31-12:44/13
12	09:06	08:12	07:00	06:36	05:22	04:39	04:55	05:52	06:56	07:59	08:07	09:03 11:03-11:17/14
	16:18	17:25	18:28	20:35	21:39	22:28	22:23	21:24	20:03	18:41	16:28	15:51 12:30-12:45/15
13	09:05	08:09	06:58	06:33	05:20	04:38	04:56	05:54	06:58	08:01	08:09	09:04 11:02-11:19/17
	16:20	17:28	18:31	20:37	21:41	22:29	22:22	21:22	20:00	18:39	16:26	15:51 12:30-12:46/16
14	09:04	08:07	06:55	06:30	05:18	04:38	04:57	05:56	07:00	08:03	08:12	09:05 11:03-11:21/18
	16:21	17:30	18:33	20:39	21:43	22:30	22:20	21:19	19:58	18:36	16:24	15:51 12:29-12:47/18
15	09:03	08:05	06:52	06:28	05:16	04:38	04:59	05:58	07:02	08:05	08:14	09:06 11:03-11:23/20
	16:23	17:32	18:35	20:42	21:45	22:31	22:19	21:17	19:55	18:33	16:22	15:50 12:30-12:48/18
16	09:02	08:02	06:49	06:25	05:14	04:37	05:01	06:00	07:04	08:07	08:16	09:07 11:03-11:25/22
	16:25	17:34	18:37	20:44	21:47	22:31	22:18	21:15	19:52	18:31	16:20	15:50 12:30-12:49/19
17	09:00	08:00	06:47	06:23	05:12	04:37	05:02	06:02	07:06	08:09	08:18	09:08 11:03-11:26/23
	16:27	17:37	18:39	20:46	21:49	22:32	22:16	21:12	19:49	18:28	16:18	15:51 12:30-12:50/20
18	08:59	07:57	06:44	06:20	05:10	04:37	05:04	06:04	07:08	08:12	08:20	09:09 11:02-11:27/25
	16:29	17:39	18:41	20:48	21:51	22:32	22:15	21:10	19:47	18:25	16:16	15:51 12:30-12:50/20
19	08:58	07:55	06:41	06:17	05:09	04:37	05:05	06:06	07:10	08:14	08:22	09:10 11:03-11:28/25
	16:31	17:41	18:44	20:50	21:53	22:33	22:13	21:07	19:44	18:23	16:15	15:51 12:30-12:51/21
20	08:56	07:52	06:38	06:15	05:07	04:37	05:07	06:08	07:12	08:16	08:25	09:10 11:03-11:29/26
	16:33	17:44	18:46	20:52	21:55	22:33	22:12	21:05	19:41	18:20	16:13	15:51 12:31-12:52/21
21	08:55	07:50	06:36	06:12	05:05	04:37	05:09	06:11	07:15	08:18	08:27	09:11 11:03-11:29/26
	16:35	17:46	18:48	20:54	21:57	22:33	22:10	21:02	19:38	18:18	16:11	15:52 12:31-12:52/21
22	08:53	07:47	06:33	06:10	05:03	04:37	05:11	06:13	07:17	08:20	08:29	09:12 11:04-11:30/26
	16:38	17:48	18:50	20:57	21:59	22:34	22:08	20:59	19:36	18:15	16:10	15:52 12:32-12:53/21
23	08:52	07:45	06:30	06:07	05:02	04:38	05:12	06:15	07:19	08:22	08:31	09:12 11:04-11:30/26
	16:40	17:50	18:52	20:59	22:00	22:34	22:07	20:57	19:33	18:13	16:08	15:53 12:32-12:53/21
24	08:50	07:42	06:27	06:05	05:00	04:38	05:14	06:17	07:21	08:25	08:33	09:13 11:06-11:31/25
	16:42	17:53	18:54	21:01	22:02	22:34	22:05	20:54	19:30	18:10	16:07	15:53 12:33-12:54/21
25	08:48	07:40	06:25	06:02	04:58	04:38	05:16	06:19	07:23	07:27	08:35	09:13 11:06-11:31/25
	16:44	17:55	18:56	21:03	22:04	22:34	22:03	20:52	19:27	17:08	16:06	15:54 12:34-12:54/20
26	08:47	07:37	06:22	05:59	04:57	04:39	05:18	06:21	07:25	07:29	08:37	09:13 11:07-11:31/24
	16:46	17:57	18:59	21:05	22:06	22:34	22:01	20:49	19:25	17:05	16:04	15:55 12:34-12:54/20
27	08:45	07:35	06:19	05:57	04:55	04:39	05:20	06:23	07:27	07:31	08:39	09:13 11:07-11:30/23
	16:49	18:00	19:01	21:07	22:07	22:33	21:59	20:46	19:22	17:03	16:03	15:55 12:35-12:54/19
28	08:43	07:32	06:16	05:55	04:54	04:40	05:22	06:25	07:29	07:34	08:41	09:14 11:08-11:30/22
	16:51	18:02	19:03	21:10	22:09	22:33	21:57	20:44	19:19	17:01	16:02	15:56 12:36-12:54/18
29	08:41		07:14	05:52	04:52	04:41	05:24	06:27	07:31	07:36	08:43	09:14 11:09-11:28/19
	16:53		20:05	21:12	22:11	22:33	21:55	20:41	19:16	16:58	16:00	15:57 12:37-12:55/18
30	08:39		07:11	05:50	04:51	04:41	05:26	06:29	07:33	07:38	08:44	09:14 11:10-11:27/17
	16:55		20:07	21:14	22:12	22:33	21:53	20:38	19:14	16:56	15:59	15:58 12:37-12:54/17
31	08:37		07:08		04:50		05:28	06:31		07:40		09:13 11:11-11:27/16
	16:58		20:09		22:14		21:51	20:36		16:53		15:59 12:38-12:54/16
Potential sun hours	231	264	366	428	512	534	534	472	385	322	244	211
Sum of minutes with flicker	52	0	0	0	0	0	0	0	0	0	0	869

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 38 - V-2_91 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:13 14:40-15:13/33 16:01	08:35 14:59-15:13/14 17:00 16:06-16:24/18	07:29 18:04	07:05 19:22-19:42/20 20:11 18:56-19:17/21	05:47 06:21-06:51/30 21:16 19:23-20:19/56	04:48 22:15
2	09:13 14:41-15:14/33 16:02	08:33 15:03-15:09/6 17:02 16:06-16:27/21	07:27 18:06	07:03 19:21-19:44/23 20:13 19:04-19:13/9	05:45 06:21-06:50/29 21:18 19:22-20:18/56	04:47 22:17
3	09:12 14:41-15:14/33 16:03	08:31 16:05-16:29/24 17:04	07:24 18:08	07:00 19:20-19:46/26 20:16	05:42 06:21-06:48/27 21:20 19:23-20:18/55	04:46 22:18
4	09:12 14:41-15:14/33 16:05	08:29 16:05-16:32/27 17:07	07:22 18:11	06:57 19:20-19:49/29 20:18	05:40 06:21-06:47/26 21:22 19:23-20:18/55	04:45 22:19
5	09:12 14:42-15:16/34 16:06	08:27 16:05-16:35/30 17:09	07:19 18:13	06:55 19:19-19:50/31 20:20	05:38 06:22-06:45/23 21:24 19:23-20:18/55	04:44 22:21
6	09:11 14:42-15:16/34 16:08	08:25 16:04-16:37/33 17:11	07:16 18:15	06:52 19:19-19:52/33 20:22	05:35 06:23-06:42/19 21:26 19:23-20:18/55	04:43 22:22
7	09:10 14:42-15:16/34 16:09	08:23 16:04-16:40/36 17:14	07:14 18:17	06:49 19:19-19:53/34 20:24	05:33 06:24-06:40/16 21:29 19:24-20:18/54	04:42 22:23
8	09:10 14:42-15:17/35 16:11	08:21 16:04-16:41/37 17:16	07:11 18:19	06:46 19:19-19:52/33 20:26	05:31 06:26-06:39/13 21:31 19:24-20:18/54	04:41 22:24
9	09:09 14:42-15:17/35 16:12	08:18 16:04-16:44/40 17:18	07:08 18:22	06:44 19:20-19:51/31 20:29	05:29 06:28-06:37/9 21:33 19:25-20:18/53	04:41 22:25
10	09:08 14:42-15:17/35 16:14	08:16 16:05-16:47/42 17:20	07:06 18:24	06:41 19:21-19:50/29 20:31	05:27 19:25-20:18/53 21:35	04:40 22:26
11	09:07 14:42-15:17/35 16:16	08:14 16:05-16:50/45 17:23	07:03 18:26	06:38 19:22-19:49/27 20:33	05:24 19:26-20:17/51 21:37	04:39 22:27
12	09:06 14:43-15:17/34 16:18	08:12 16:06-16:53/47 17:25	07:00 18:28	06:36 19:24-19:47/23 20:35	05:22 19:26-20:17/51 21:39	04:39 22:28
13	09:05 14:42-15:17/35 16:20	08:09 16:06-16:53/47 17:27	06:57 18:30	06:33 19:28-19:33/5 19:46-19:56/10 20:37 19:34-19:45/11	05:20 19:27-20:16/49 21:41	04:38 22:29
14	09:04 14:43-15:18/35 16:21	08:07 16:08-16:54/46 17:30	06:55 18:00-18:03/3 18:33	06:30 19:42-20:01/19 20:39	05:18 19:28-20:16/48 21:43	04:38 22:30
15	09:03 14:44-15:19/35 16:23	08:04 16:08-16:54/46 17:32	06:52 17:59-18:06/7 18:35	06:28 19:38-20:03/25 20:41	05:16 19:28-20:15/47 21:45	04:38 22:30
16	09:02 14:44-15:19/35 16:25	08:02 16:10-16:54/44 17:34	06:49 17:57-18:08/11 18:37	06:25 19:35-20:05/30 20:44	05:14 19:30-20:15/45 21:47	04:37 22:31
17	09:00 14:44-15:19/35 16:27	08:00 16:12-16:53/41 17:37	06:47 17:56-18:10/14 18:39	06:22 19:34-20:07/33 20:46	05:12 19:31-20:14/43 21:49	04:37 22:32
18	08:59 14:45-15:20/35 16:29	07:57 16:16-16:53/37 17:39	06:44 17:55-18:12/17 18:41	06:20 19:31-20:08/37 20:48	05:10 19:32-20:13/41 21:51	04:37 22:32
19	08:58 14:45-15:20/35 16:31	07:55 16:18-16:53/35 17:41	06:41 17:55-18:15/20 18:43	06:17 06:44-06:49/5 20:50 19:30-20:11/41	05:08 19:34-20:13/39 21:53	04:37 22:33
20	08:56 14:45-15:20/35 16:33	07:52 16:19-16:51/32 17:44	06:38 17:53-18:17/24 18:46	06:15 06:42-06:51/9 20:52 19:29-20:12/43	05:07 19:34-20:12/38 21:55	04:37 22:33
21	08:55 14:45-15:20/35 16:35	07:50 16:22-16:51/29 17:46	06:36 17:52-18:19/27 18:48	06:12 06:39-06:52/13 20:54 19:28-20:13/45	05:05 19:36-20:12/36 21:57	04:37 22:33
22	08:53 14:47-15:20/33 16:38	07:47 16:27-16:29/2 17:48 16:32-16:49/17	06:33 17:51-18:21/30 18:50	06:09 06:37-06:53/16 20:56 19:27-20:15/48	05:03 19:36-20:11/35 21:58	04:37 22:33
23	08:52 14:47-15:20/33 16:40	07:45 16:34-16:46/12 17:50	06:30 17:51-18:24/33 18:52	06:07 06:34-06:53/19 20:59 19:26-20:15/49	05:01 19:38-20:11/33 22:00	04:38 22:34
24	08:50 14:48-15:20/32 16:42	07:42 16:39-16:42/3 17:53	06:27 17:51-18:25/34 18:54	06:04 06:32-06:53/21 21:01 19:26-20:16/50	05:00 19:38-20:09/31 22:02	04:38 22:34
25	08:48 14:49-15:20/31 16:44	07:40 17:55	06:25 17:50-18:24/34 18:56	06:02 06:30-06:54/24 21:03 19:24-20:16/52	04:58 19:40-20:09/29 22:04	04:38 22:34
26	08:46 14:50-15:20/30 16:46	07:37 17:57	06:22 17:50-18:24/34 18:58	05:59 06:27-06:53/26 21:05 19:24-20:17/53	04:57 19:40-20:07/27 22:06	04:39 22:33
27	08:45 14:51-15:19/28 16:48	07:35 17:59	06:19 17:51-18:24/33 19:01	05:57 06:25-06:53/28 21:07 19:24-20:18/54	04:55 19:42-20:06/24 22:07	04:39 22:33
28	08:43 14:52-15:19/27 16:51 16:12-16:14/2	07:32 18:02	06:16 18:29-18:34/5 19:03 17:51-18:23/32	05:54 06:23-06:53/30 21:09 19:23-20:18/55	04:54 19:44-20:05/21 22:09	04:40 22:33
29	08:41 14:52-15:17/25 16:53 16:09-16:16/7		07:14 19:26-19:36/10 20:05 18:51-19:22/31	05:52 06:21-06:52/31 21:12 19:23-20:18/55	04:52 19:46-20:04/18 22:10	04:40 22:33
30	08:39 14:54-15:16/22 16:55 16:08-16:19/11		07:11 19:24-19:38/14 20:07 18:52-19:20/28	05:50 06:21-06:51/30 21:14 19:23-20:19/56	04:51 19:48-20:02/14 22:12	04:41 22:32
31	08:37 14:56-15:15/19 16:57 16:07-16:21/14		07:08 19:23-19:41/18 20:09 18:54-19:19/25		04:50 19:50-20:00/10 22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	1037	811	484	1392	1468	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 38 - V-2_91 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42 22:32	05:29 19:36-20:27/51 21:49	06:33 19:21-19:48/27 20:33	07:35 19:11	07:42 15:34-16:17/43 16:51	08:46 14:24-14:59/35 15:58
2	04:43 22:32	05:31 19:36-20:28/52 21:47	06:35 19:19-19:48/29 20:30	07:37 19:08	07:45 15:34-16:14/40 16:49	08:48 14:25-15:00/35 15:57
3	04:44 22:31	05:33 06:40-06:45/5 21:45 19:35-20:28/53	06:37 19:18-19:49/31 20:28	07:39 19:05	07:47 15:33-16:11/38 16:47	08:50 14:25-15:00/35 15:56
4	04:45 22:30	05:35 06:37-06:48/11 21:43 19:34-20:27/53	06:39 19:16-19:49/33 20:25	07:41 19:03	07:49 15:34-16:09/35 16:44	08:51 14:26-15:01/35 15:55
5	04:46 22:30	05:37 06:35-06:50/15 21:40 19:33-20:28/55	06:42 19:16-19:49/33 20:22	07:44 19:00	07:51 15:34-16:06/32 16:42	08:53 14:27-15:01/34 15:55
6	04:47 22:29	05:39 06:33-06:50/17 21:38 19:33-20:28/55	06:44 19:15-19:48/33 20:19	07:46 18:57	07:54 15:34-16:04/30 16:40	08:54 14:28-15:02/34 15:54
7	04:48 22:28	05:42 06:32-06:52/20 21:36 19:33-20:28/55	06:46 19:14-19:46/32 20:17	07:48 18:54	07:56 15:34-16:01/27 16:38	08:56 14:28-15:02/34 15:53
8	04:49 22:27	05:44 06:31-06:55/24 21:34 19:32-20:28/56	06:48 19:14-19:43/29 20:14	07:50 18:52	07:58 15:36-15:59/23 16:36	08:57 14:29-15:03/34 15:53
9	04:50 22:26	05:46 06:31-06:57/26 21:31 19:32-20:28/56	06:50 19:14-19:40/26 20:11	07:52 18:49	08:00 14:32-14:40/8 16:34 15:36-15:56/20	08:59 14:29-15:02/33 15:52
10	04:52 22:25	05:48 06:30-06:58/28 21:29 19:32-20:28/56	06:52 19:14-19:38/24 20:09 18:57-19:06/9	07:54 18:46	08:03 14:29-14:44/15 16:31 15:37-15:55/18	09:00 14:30-15:03/33 15:52
11	04:53 22:24	05:50 06:30-06:59/29 21:27 19:32-20:28/56	06:54 19:14-19:35/21 20:06 18:49-19:09/20	07:56 18:44	08:05 14:27-14:46/19 16:29 15:38-15:52/14	09:01 14:30-15:03/33 15:51
12	04:54 20:00-20:06/6 22:23	05:52 06:30-07:00/30 21:24 19:32-20:27/55	06:56 19:14-19:32/18 20:03 18:46-19:10/24	07:58 18:41	08:07 14:26-14:48/22 16:27 15:40-15:50/10	09:03 14:31-15:04/33 15:51
13	04:56 19:57-20:10/13 22:22	05:54 06:29-07:00/31 21:22 19:30-20:26/56	06:58 19:15-19:29/14 20:00 18:44-19:11/27	08:01 18:38	08:09 14:24-14:49/25 16:26 15:41-15:48/7	09:04 14:32-15:04/32 15:51 13:39-13:44/5
14	04:57 19:55-20:12/17 22:20	05:56 06:29-07:00/31 21:19 19:30-20:25/55	07:00 19:16-19:27/11 19:58 18:42-19:12/30	08:03 18:36	08:11 14:24-14:51/27 16:24 15:44-15:46/2	09:05 14:32-15:04/32 13:59-14:02/3 15:50 13:38-13:46/8
15	04:59 19:53-20:13/20 22:19	05:58 06:30-07:00/30 21:17 19:30-20:25/55	07:02 19:18-19:24/6 19:55 18:41-19:12/31	08:05 18:33	08:14 14:23-14:51/28 16:22	09:06 14:33-15:05/32 13:58-14:03/5 15:50 13:37-13:47/10
16	05:00 19:52-20:15/23 22:18	06:00 06:32-07:00/28 21:14 19:31-20:24/53	07:04 18:39-19:12/33 19:52	08:07 18:31	08:16 14:23-14:53/30 16:20	09:07 14:33-15:04/31 13:57-14:05/8 15:50 13:37-13:48/11
17	05:02 19:51-20:16/25 22:16	06:02 06:34-06:59/25 21:12 19:31-20:24/53	07:06 18:39-19:12/33 19:49	08:09 18:28	08:18 14:22-14:53/31 16:18	09:08 14:34-15:05/31 13:57-14:06/9 15:50 13:37-13:49/12
18	05:04 19:50-20:18/28 22:15	06:04 06:36-06:59/23 21:09 19:31-20:23/52	07:08 18:38-19:12/34 19:46	08:11 17:08-17:16/8 18:25	08:20 14:22-14:54/32 16:16	09:09 14:35-15:05/30 13:58-14:07/9 15:51 13:38-13:50/12
19	05:05 19:48-20:18/30 22:13	06:06 06:38-06:59/21 21:07 19:31-20:22/51	07:10 18:37-19:11/34 19:44	08:14 17:04-17:18/14 18:23	08:22 14:21-14:54/33 16:15	09:10 14:35-15:05/30 13:58-14:08/10 15:51 13:38-13:51/13
20	05:07 19:48-20:20/32 22:11	06:08 06:40-06:58/18 21:04 19:32-20:21/49	07:12 18:37-19:10/33 19:41	08:16 16:55-17:21/26 18:20	08:24 14:22-14:55/33 16:13	09:10 14:36-15:06/30 13:59-14:09/10 15:51 13:39-13:52/13
21	05:09 19:46-20:20/34 22:10	06:10 06:42-06:57/15 21:02 19:32-20:19/47	07:14 18:37-19:07/30 19:38	08:18 16:52-17:21/29 18:18	08:27 14:21-14:56/35 16:11	09:11 14:36-15:05/29 13:58-14:09/11 15:51 13:39-13:52/13
22	05:11 19:46-20:22/36 22:08	06:13 06:44-06:56/12 20:59 19:33-20:18/45	07:16 18:37-19:04/27 19:35	08:20 16:49-17:22/33 18:15	08:29 14:21-14:56/35 16:10	09:12 14:37-15:06/29 13:59-14:10/11 15:52 13:40-13:53/13
23	05:12 19:45-20:22/37 22:06	06:15 06:46-06:55/9 20:57 19:34-20:16/42	07:19 18:37-19:02/25 19:33	08:22 16:48-17:23/35 18:13	08:31 14:22-14:57/35 16:08	09:12 14:37-15:07/30 13:59-14:10/11 15:52 13:40-13:53/13
24	05:14 19:44-20:23/39 22:05	06:17 06:48-06:53/5 20:54 19:34-20:14/40	07:21 18:37-18:59/22 19:30	08:25 16:45-17:23/38 18:10	08:33 14:22-14:57/35 16:07	09:12 14:37-15:07/30 14:00-14:10/10 15:53 13:40-13:53/13
25	05:16 19:43-20:24/41 22:03	06:19 19:35-20:11/36 20:52	07:23 18:37-18:56/19 19:27	07:27 15:41-16:23/42 17:08	08:35 14:22-14:57/35 16:05	09:13 14:39-15:08/29 14:01-14:11/10 15:54 13:41-13:54/13
26	05:18 19:41-20:24/43 22:01	06:21 19:37-20:09/32 20:49	07:25 18:38-18:54/16 19:24	07:29 15:39-16:24/45 17:05	08:37 14:22-14:57/35 16:04	09:13 14:39-15:09/30 14:02-14:11/9 15:54 13:42-13:54/12
27	05:20 19:41-20:25/44 21:59	06:23 19:38-20:07/29 20:46	07:27 18:39-18:51/12 19:22	07:31 15:37-16:23/46 17:03	08:39 14:23-14:58/35 16:03	09:13 14:39-15:10/31 14:03-14:11/8 15:55 13:43-13:54/11
28	05:22 19:40-20:26/46 21:57	06:25 19:40-20:05/25 20:44	07:29 18:39-18:48/9 19:19	07:33 15:37-16:23/46 17:00	08:41 14:23-14:58/35 16:02	09:13 14:40-15:11/31 14:04-14:11/7 15:56 13:44-13:54/10
29	05:24 19:39-20:26/47 21:55	06:27 19:43-20:01/18 20:41	07:31 18:40-18:45/5 19:16	07:36 15:35-16:23/48 16:58	08:42 14:23-14:58/35 16:00	09:13 14:39-15:11/32 14:05-14:09/4 15:57 13:44-13:53/9
30	05:26 19:37-20:26/49 21:53	06:29 19:27-19:33/6 19:47-19:55/8 20:38 19:34-19:45/11	07:33 19:13	07:38 15:35-16:22/47 16:56	08:44 14:24-14:59/35 15:59	09:13 14:40-15:12/32 15:58 13:46-13:53/7
31	05:27 19:37-20:27/50 21:51	06:31 19:23-19:46/23 20:36	 	07:40 15:34-16:19/45 16:53	 	09:13 14:40-15:13/33 15:59 13:49-13:52/3
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	660	1892	840	502	992	1328

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 39 - V-2_92 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January		February		March		April		May		June	
1	09:13		08:35	15:32-15:47/15	07:29		07:05	19:01-19:38/37	05:47	06:29-07:09/40	04:48	
	16:01		17:00		18:04		20:11		21:16		22:15	
2	09:13		08:33	15:35-15:45/10	07:27		07:03	19:00-19:37/37	05:45	06:29-07:08/39	04:47	
	16:02		17:02		18:06		20:14		21:18		22:17	
3	09:12		08:31		07:24		07:00	19:01-19:38/37	05:42	06:29-07:06/37	04:46	
	16:03		17:04		18:08		20:16		21:20		22:18	
4	09:12		08:29		07:22		06:57	19:00-19:38/38	05:40	06:29-07:05/36	04:45	
	16:05		17:07		18:11		20:18		21:22		22:19	
5	09:12		08:27	16:32-16:35/3	07:19		06:55	19:00-19:37/37	05:38	06:29-07:04/35	04:44	
	16:06		17:09		18:13		20:20		21:24		22:21	
6	09:11		08:25	16:30-16:37/7	07:16		06:52	19:00-19:36/36	05:36	06:30-07:02/32	04:43	
	16:08		17:11		18:15		20:22		21:26		22:22	
7	09:10	15:25-15:26/1	08:23	16:29-16:40/11	07:14		06:49	19:01-19:36/35	05:33	06:31-07:00/29	04:42	
	16:09		17:14		18:17		20:24		21:29		22:23	
8	09:10	15:24-15:28/4	08:21	16:28-16:41/13	07:11		06:46	19:01-19:35/34	05:31	06:31-06:57/26	04:41	21:41-21:43/2
	16:11		17:16		18:20		20:26		21:31		22:24	
9	09:09	15:24-15:30/6	08:18	16:28-16:44/16	07:08	17:49-17:52/3	06:44	19:02-19:35/33	05:29	06:32-06:56/24	04:41	21:41-21:45/4
	16:13		17:18		18:22		20:29		21:33		22:25	
10	09:08	15:23-15:31/8	08:16	16:28-16:47/19	07:06	17:47-17:54/7	06:41	19:03-19:34/31	05:27	06:33-06:54/21	04:40	21:40-21:45/5
	16:14		17:21		18:24		20:31		21:35		22:26	
11	09:07	15:23-15:33/10	08:14	16:28-16:50/22	07:03	17:46-17:57/11	06:38	19:03-19:32/29	05:25	06:35-06:53/18	04:39	21:40-21:46/6
	16:16		17:23		18:26		20:33		21:37		22:27	
12	09:06	15:23-15:36/13	08:12	16:28-16:50/22	07:00	17:45-17:59/14	06:36	19:06-19:32/26	05:22	06:36-06:51/15	04:39	21:39-21:46/7
	16:18		17:25		18:28		20:35		21:39		22:28	
13	09:05	15:22-15:37/15	08:09	16:28-16:50/22	06:57	17:44-18:01/17	06:33	19:06-19:29/23	05:20	06:39-06:48/9	04:38	21:39-21:47/8
	16:20		17:27		18:30		20:37		21:41		22:29	
14	09:04	15:23-15:40/17	08:07	16:29-16:50/21	06:55	17:43-18:03/20	06:30	06:57-07:02/5	05:18		04:38	21:40-21:48/8
	16:21		17:30		18:33		20:39	19:09-19:28/19	21:43		22:30	
15	09:03	15:23-15:43/20	08:05	16:29-16:49/20	06:52	17:44-18:06/22	06:28	06:54-07:05/11	05:16		04:38	21:40-21:49/9
	16:23		17:32		18:35		20:41	19:10-19:25/15	21:45		22:30	
16	09:02	15:23-15:44/21	08:02	16:30-16:48/18	06:49	17:43-18:05/22	06:25	06:52-07:08/16	05:14		04:37	21:40-21:50/10
	16:25		17:34		18:37		20:44	19:14-19:19/5	21:47		22:31	
17	09:00	15:22-15:46/24	08:00	16:31-16:47/16	06:47	17:43-18:04/21	06:22	06:49-07:09/20	05:12		04:37	21:40-21:50/10
	16:27		17:37		18:39		20:46		21:49		22:32	
18	08:59	15:23-15:49/26	07:57	16:32-16:45/13	06:44	17:43-18:03/20	06:20	06:47-07:10/23	05:10		04:37	21:39-21:50/11
	16:29		17:39		18:41		20:48		21:51		22:32	
19	08:58	15:23-15:49/26	07:55	16:36-16:42/6	06:41	17:45-18:02/17	06:17	06:44-07:10/26	05:09		04:37	21:40-21:51/11
	16:31		17:41		18:43		20:50		21:53		22:33	
20	08:56	15:23-15:49/26	07:52		06:38	17:46-18:00/14	06:15	06:42-07:11/29	05:07		04:37	21:40-21:51/11
	16:33		17:44		18:46		20:52		21:55		22:33	
21	08:55	15:23-15:49/26	07:50		06:36	17:48-17:57/9	06:12	06:39-07:11/32	05:05		04:37	21:40-21:51/11
	16:35		17:46		18:48		20:54		21:57		22:33	
22	08:53	15:24-15:50/26	07:47		06:33		06:10	06:37-07:12/35	05:03		04:37	21:40-21:51/11
	16:38		17:48		18:50		20:56		21:58		22:33	
23	08:52	15:24-15:51/27	07:45		06:30		06:07	06:34-07:11/37	05:01		04:38	21:40-21:51/11
	16:40		17:50		18:52		20:59		22:00		22:34	
24	08:50	15:24-15:51/27	07:42		06:27	18:14-18:26/12	06:04	06:32-07:12/40	05:00		04:38	21:41-21:52/11
	16:42		17:53		18:54		21:01		22:02		22:34	
25	08:48	15:25-15:51/26	07:40		06:25	18:10-18:28/18	06:02	06:31-07:12/41	04:58		04:38	21:41-21:51/10
	16:44		17:55		18:56		21:03		22:04		22:34	
26	08:47	15:25-15:51/26	07:37		06:22	18:08-18:29/21	05:59	06:30-07:11/41	04:57		04:39	21:42-21:52/10
	16:46		17:57		18:59		21:05		22:06		22:34	
27	08:45	15:26-15:51/25	07:35		06:19	18:07-18:32/25	05:57	06:30-07:11/41	04:55		04:39	21:42-21:51/9
	16:48		17:59		19:01		21:07		22:07		22:33	
28	08:43	15:27-15:50/23	07:32		06:16	18:05-18:34/29	05:54	06:30-07:11/41	04:54		04:40	21:43-21:52/9
	16:51		18:02		19:03		21:09		22:09		22:33	
29	08:41	15:27-15:49/22			07:14	19:03-19:36/33	05:52	06:29-07:10/41	04:52		04:40	21:42-21:51/9
	16:53				20:05		21:12		22:11		22:33	
30	08:39	15:28-15:48/20			07:11	19:02-19:36/34	05:50	06:29-07:09/40	04:51		04:41	21:43-21:51/8
	16:55				20:07		21:14		22:12		22:32	
31	08:37	15:30-15:48/18			07:08	19:02-19:37/35			04:50			
	16:57				20:09				22:14			
Potential sun hours	231		264		366		428		512		534	
Sum of minutes with flicker	483		254		404		991		361		201	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 39 - V-2_92 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September		October		November		December	
1	04:42	21:44-21:51/7	05:29	06:46-07:02/16	06:33	19:02-19:31/29	07:35	18:24-18:39/15	07:42	15:58-16:17/19	08:46	15:05-15:16/11
	22:32		21:49		20:33		19:11		16:51		15:58	
2	04:43	21:45-21:50/5	05:31	06:44-07:04/20	06:35	19:00-19:32/32	07:37	18:24-18:36/12	07:45	15:58-16:14/16	08:48	15:06-15:14/8
	22:32		21:47		20:30		19:08		16:49		15:57	
3	04:44	21:45-21:49/4	05:33	06:43-07:05/22	06:37	18:59-19:32/33	07:39	18:25-18:34/9	07:47	15:58-16:11/13	08:50	15:07-15:13/6
	22:31		21:45		20:28		19:05		16:47		15:56	
4	04:45	21:46-21:49/3	05:35	06:42-07:06/24	06:39	18:58-19:32/34	07:41	18:26-18:31/5	07:49	15:59-16:09/10	08:51	15:08-15:12/4
	22:30		21:43		20:25		19:03		16:44		15:55	
5	04:46	21:47-21:48/1	05:38	06:41-07:08/27	06:42	18:57-19:33/36	07:44	18:28-18:29/1	07:51	16:00-16:06/6	08:53	15:10-15:11/1
	22:30		21:40		20:22		19:00		16:42		15:55	
6	04:47		05:40	06:40-07:10/30	06:44	18:56-19:32/36	07:46		07:54	16:01-16:04/3	08:54	
	22:29		21:38		20:19		18:57		16:40		15:54	
7	04:48		05:42	06:39-07:12/33	06:46	18:55-19:32/37	07:48		07:56		08:56	
	22:28		21:36		20:17		18:54		16:38		15:53	
8	04:49		05:44	06:39-07:14/35	06:48	18:54-19:32/38	07:50		07:58		08:57	
	22:27		21:34		20:14		18:52		16:36		15:53	
9	04:50		05:46	06:38-07:15/37	06:50	18:54-19:31/37	07:52		08:00	15:04-15:15/11	08:59	
	22:26		21:31		20:11		18:49		16:34		15:52	
10	04:52		05:48	06:38-07:16/38	06:52	18:54-19:31/37	07:54		08:03	15:02-15:18/16	09:00	
	22:25		21:29		20:09		18:46		16:32		15:52	
11	04:53		05:50	06:38-07:17/39	06:54	18:53-19:30/37	07:56		08:05	15:01-15:19/18	09:02	
	22:24		21:27		20:06		18:44		16:29		15:51	
12	04:54		05:52	06:37-07:17/40	06:56	18:53-19:29/36	07:58		08:07	15:00-15:20/20	09:03	
	22:23		21:24		20:03		18:41		16:27		15:51	
13	04:56		05:54	06:37-07:18/41	06:58	18:53-19:28/35	08:01		08:09	14:59-15:21/22	09:04	
	22:22		21:22		20:00		18:38		16:26		15:51	
14	04:57		05:56	06:37-07:18/41	07:00	18:54-19:26/32	08:03		08:11	14:59-15:22/23	09:05	
	22:20		21:19		19:58		18:36		16:24		15:51	
15	04:59		05:58	06:36-07:18/42	07:02	18:54-19:24/30	08:05		08:14	14:58-15:22/24	09:06	
	22:19		21:17		19:55		18:33		16:22		15:50	
16	05:00		06:00	06:36-07:18/42	07:04	18:55-19:21/26	08:07		08:16	14:58-15:24/26	09:07	
	22:18		21:14		19:52		18:31		16:20		15:50	
17	05:02		06:02	06:37-07:18/41	07:06	18:56-19:18/22	08:09		08:18	14:58-15:24/26	09:08	
	22:16		21:12		19:49		18:28		16:18		15:50	
18	05:04		06:04	06:37-07:18/41	07:08	18:57-19:16/19	08:11		08:20	14:58-15:25/27	09:09	
	22:15		21:09		19:47		18:25		16:16		15:51	
19	05:05		06:06	06:38-07:17/39	07:10	18:59-19:13/14	08:14		08:22	14:58-15:25/27	09:10	
	22:13		21:07		19:44		18:23		16:15		15:51	
20	05:07		06:08	06:40-07:17/37	07:12	19:03-19:10/7	08:16		08:24	14:59-15:25/26	09:10	
	22:11		21:04		19:41		18:20		16:13		15:51	
21	05:09		06:10	06:42-07:16/34	07:14		08:18		08:27	14:59-15:25/26	09:11	
	22:10		21:02		19:38		18:18		16:11		15:52	
22	05:11		06:13	06:44-07:16/32	07:16	18:34-18:41/7	08:20		08:29	14:59-15:25/26	09:12	
	22:08		20:59		19:35		18:15		16:10		15:52	
23	05:12		06:15	06:46-07:15/29	07:19	18:30-18:43/13	08:22	17:05-17:14/9	08:31	15:00-15:26/26	09:12	
	22:06		20:57		19:33		18:13		16:08		15:53	
24	05:14		06:17	06:48-07:14/26	07:21	18:28-18:45/17	08:25	17:02-17:15/13	08:33	15:00-15:26/26	09:12	
	22:05		20:54		19:30		18:10		16:07		15:53	
25	05:16		06:19	06:50-07:13/23	07:23	18:27-18:45/18	07:27	16:00-16:16/16	08:35	15:00-15:24/24	09:13	
	22:03		20:52		19:27		17:08		16:05		15:54	
26	05:18		06:21	06:52-07:11/19	07:25	18:26-18:47/21	07:29	15:59-16:18/19	08:37	15:01-15:23/22	09:13	
	22:01		20:49		19:24		17:05		16:04		15:55	
27	05:20		06:23	06:54-07:09/15	07:27	18:25-18:47/22	07:31	15:58-16:18/20	08:39	15:02-15:22/20	09:13	
	21:59		20:46	19:16-19:23/7	19:22		17:03		16:03		15:55	
28	05:22		06:25	06:56-07:07/11	07:29	18:25-18:47/22	07:34	15:58-16:19/21	08:41	15:03-15:20/17	09:13	
	21:57		20:44	19:12-19:27/15	19:19		17:01		16:02		15:56	
29	05:24		06:27	06:58-07:03/5	07:31	18:24-18:45/21	07:36	15:57-16:19/22	08:42	15:03-15:19/16	09:13	
	21:55		20:41	19:09-19:29/20	19:16		16:58		16:00		15:57	
30	05:26	06:54-06:55/1	06:29	19:06-19:29/23	07:33	18:24-18:42/18	07:38	15:58-16:20/22	08:44	15:04-15:17/13	09:13	
	21:53		20:38		19:13		16:56		15:59		15:58	
31	05:28	06:48-06:59/11	06:31	19:04-19:31/27			07:40	15:57-16:19/22			09:13	
	21:51		20:36				16:53				15:59	
Potential sun hours	534		472		385		322		244		211	
Sum of minutes with flicker	32		971		766		206		549		30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 40 - V-2_93 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March		April		May		June	
1	09:13	08:35	07:29		07:05	19:15-19:42/27	05:47	06:21-06:36/15	04:48	05:50-06:51/61
	16:01	17:00	18:04		20:11		21:16		22:15	
2	09:13	08:33	07:27		07:03	19:14-19:42/28	05:45	06:18-06:39/21	04:47	05:50-06:51/61
	16:02	17:02	18:06		20:14		21:18		22:17	
3	09:12	08:31	07:24		07:00	19:15-19:42/27	05:43	06:14-06:40/26	04:46	05:50-06:51/61
	16:03	17:04	18:08		20:16		21:20		22:18	
4	09:12	08:29	07:22		06:57	19:15-19:41/26	05:40	06:13-06:42/29	04:45	05:50-06:51/61
	16:05	17:07	18:11		20:18		21:22		22:19	
5	09:12	08:27	07:19		06:55	19:15-19:40/25	05:38	06:11-06:43/32	04:44	05:50-06:51/61
	16:06	17:09	18:13		20:20		21:24		22:21	
6	09:11	08:25	07:16		06:52	19:15-19:39/24	05:36	06:10-06:45/35	04:43	05:51-06:51/60
	16:08	17:11	18:15		20:22		21:26		22:22	
7	09:10	08:23	07:14		06:49	19:17-19:39/22	05:33	06:09-06:46/37	04:42	05:51-06:51/60
	16:09	17:14	18:17		20:24		21:29		22:23	
8	09:10	08:21	07:11		06:46	19:19-19:37/18	05:31	06:05-06:47/42	04:41	05:51-06:51/60
	16:11	17:16	18:20		20:26		21:31		22:24	
9	09:09	08:18	07:08		06:44	19:21-19:35/14	05:29	06:02-06:47/45	04:41	05:52-06:51/59
	16:13	17:18	18:22		20:29		21:33		22:25	
10	09:08	08:16	07:06		06:41	19:23-19:32/9	05:27	06:00-06:48/48	04:40	05:51-06:51/60
	16:14	17:21	18:24		20:31		21:35		22:26	
11	09:07	08:14	07:03		06:38		05:25	05:58-06:48/50	04:39	05:52-06:51/59
	16:16	17:23	18:26		20:33		21:37		22:27	
12	09:06	08:12	07:00		06:36		05:22	05:57-06:49/52	04:39	05:53-06:52/59
	16:18	17:25	18:28		20:35		21:39		22:28	
13	09:05	08:09	06:57		06:33		05:20	05:56-06:49/53	04:38	05:52-06:51/59
	16:20	17:27	18:31		20:37		21:41		22:29	
14	09:04	08:07	06:55		06:30		05:18	05:55-06:49/54	04:38	05:53-06:51/58
	16:21	17:30	18:33		20:39		21:43		22:30	
15	09:03	08:05	06:52		06:28		05:16	05:54-06:50/56	04:38	05:53-06:52/59
	16:23	17:32	18:35		20:41		21:45		22:30	
16	09:02	08:02	06:49		06:25		05:14	05:53-06:51/58	04:37	05:54-06:52/58
	16:25	17:34	18:37		20:44		21:47		22:31	
17	09:00	08:00	06:47		06:22		05:12	05:53-06:50/57	04:37	05:54-06:52/58
	16:27	17:37	18:39		20:46		21:49		22:32	
18	08:59	07:57	06:44		06:20		05:10	05:52-06:50/58	04:37	05:54-06:52/58
	16:29	17:39	18:41		20:48		21:51		22:32	
19	08:58	07:55	06:41		06:17		05:09	05:52-06:51/59	04:37	05:54-06:52/58
	16:31	17:41	18:44		20:50		21:53		22:33	
20	08:56	07:52	06:38		06:15		05:07	05:51-06:51/60	04:37	05:54-06:52/58
	16:33	17:44	18:46		20:52		21:55		22:33	
21	08:55	07:50	06:36		06:12		05:05	05:51-06:52/61	04:37	05:55-06:52/57
	16:35	17:46	18:48		20:54		21:57		22:33	
22	08:53	07:47	06:33		06:10		05:03	05:50-06:51/61	04:37	05:54-06:52/58
	16:38	17:48	18:50		20:57		21:58		22:33	
23	08:52	07:45	06:30		06:07		05:01	05:51-06:52/61	04:38	05:55-06:53/58
	16:40	17:50	18:52		20:59		22:00		22:34	
24	08:50	07:42	06:27		06:04		05:00	05:50-06:51/61	04:38	05:55-06:53/58
	16:42	17:53	18:54		21:01		22:02		22:34	
25	08:48	07:40	06:25	18:23-18:28/5	06:02		04:58	05:50-06:51/61	04:38	05:55-06:53/58
	16:44	17:55	18:56		21:03		22:04		22:34	
26	08:47	07:37	06:22	18:20-18:29/9	05:59		04:57	05:50-06:52/62	04:39	05:56-06:54/58
	16:46	17:57	18:59		21:05		22:06		22:34	
27	08:45	07:35	06:19	18:19-18:32/13	05:57		04:55	05:50-06:51/61	04:39	05:55-06:54/59
	16:48	17:59	19:01		21:07		22:07		22:33	
28	08:43	07:32	06:16	18:18-18:34/16	05:55		04:54	05:50-06:51/61	04:40	05:56-06:54/58
	16:51	18:02	19:03		21:09		22:09		22:33	
29	08:41		07:14	19:16-19:36/20	05:52		04:52	05:50-06:51/61	04:41	05:57-06:55/58
	16:53		20:05		21:12		22:11		22:33	
30	08:39		07:11	19:15-19:38/23	05:50		04:51	05:50-06:51/61	04:41	05:56-06:55/59
	16:55		20:07		21:14		22:12		22:32	
31	08:37		07:08	19:15-19:41/26			04:50	05:50-06:52/62		
	16:57		20:09				22:14			
Potential sun hours	231	264	366		428		512		534	
Sum of minutes with flicker	0	0	112		220		1560		1769	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 40 - V-2_93 (Ventspils-2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July		August		September		October	November	December
1	04:42	05:56-06:55/59	05:30	06:08-06:59/51	06:33		07:35	07:43	08:46
	22:32		21:49		20:33		19:11	16:51	15:58
2	04:43	05:57-06:56/59	05:32	06:09-06:59/50	06:35	19:21-19:30/9	07:37	07:45	08:48
	22:32		21:47		20:30		19:08	16:49	15:57
3	04:44	05:57-06:57/60	05:34	06:11-06:58/47	06:37	19:18-19:32/14	07:39	07:47	08:50
	22:31		21:45		20:28		19:05	16:47	15:56
4	04:45	05:57-06:57/60	05:36	06:13-06:57/44	06:40	19:16-19:34/18	07:41	07:49	08:51
	22:30		21:43		20:25		19:03	16:44	15:55
5	04:46	05:57-06:56/59	05:38	06:16-06:57/41	06:42	19:13-19:35/22	07:44	07:51	08:53
	22:30		21:40		20:22		19:00	16:42	15:55
6	04:47	05:57-06:57/60	05:40	06:19-06:55/36	06:44	19:12-19:35/23	07:46	07:54	08:54
	22:29		21:38		20:20		18:57	16:40	15:54
7	04:48	05:58-06:58/60	05:42	06:20-06:54/34	06:46	19:10-19:35/25	07:48	07:56	08:56
	22:28		21:36		20:17		18:54	16:38	15:53
8	04:49	05:58-06:58/60	05:44	06:21-06:52/31	06:48	19:09-19:36/27	07:50	07:58	08:57
	22:27		21:34		20:14		18:52	16:36	15:53
9	04:50	05:58-06:59/61	05:46	06:23-06:51/28	06:50	19:08-19:35/27	07:52	08:00	08:59
	22:26		21:31		20:11		18:49	16:34	15:52
10	04:52	05:58-06:59/61	05:48	06:24-06:49/25	06:52	19:08-19:35/27	07:54	08:03	09:00
	22:25		21:29		20:09		18:46	16:32	15:52
11	04:53	05:58-06:59/61	05:50	06:27-06:46/19	06:54	19:07-19:35/28	07:56	08:05	09:02
	22:24		21:27		20:06		18:44	16:30	15:51
12	04:55	05:58-06:59/61	05:52	06:30-06:43/13	06:56	19:07-19:32/25	07:58	08:07	09:03
	22:23		21:24		20:03		18:41	16:28	15:51
13	04:56	05:59-07:00/61	05:54		06:58	19:07-19:29/22	08:01	08:09	09:04
	22:22		21:22		20:00		18:38	16:26	15:51
14	04:57	05:58-07:00/62	05:56		07:00	19:07-19:27/20	08:03	08:12	09:05
	22:20		21:19		19:58		18:36	16:24	15:51
15	04:59	05:58-07:00/62	05:58		07:02	19:07-19:24/17	08:05	08:14	09:06
	22:19		21:17		19:55		18:33	16:22	15:50
16	05:01	05:59-07:01/62	06:00		07:04	19:08-19:21/13	08:07	08:16	09:07
	22:18		21:15		19:52		18:31	16:20	15:50
17	05:02	05:59-07:00/61	06:02		07:06	19:09-19:18/9	08:09	08:18	09:08
	22:16		21:12		19:49		18:28	16:18	15:51
18	05:04	06:00-07:01/61	06:04		07:08	19:10-19:16/6	08:11	08:20	09:09
	22:15		21:10		19:47		18:25	16:16	15:51
19	05:05	05:59-07:01/62	06:06		07:10		08:14	08:22	09:10
	22:13		21:07		19:44		18:23	16:15	15:51
20	05:07	06:00-07:01/61	06:08		07:12		08:16	08:24	09:10
	22:11		21:04		19:41		18:20	16:13	15:51
21	05:09	06:00-07:01/61	06:11		07:14		08:18	08:27	09:11
	22:10		21:02		19:38		18:18	16:11	15:52
22	05:11	06:01-07:01/60	06:13		07:17		08:20	08:29	09:12
	22:08		20:59		19:35		18:15	16:10	15:52
23	05:12	06:02-07:02/60	06:15		07:19		08:22	08:31	09:12
	22:06		20:57		19:33		18:13	16:08	15:53
24	05:14	06:01-07:01/60	06:17		07:21		08:25	08:33	09:13
	22:05		20:54		19:30		18:10	16:07	15:53
25	05:16	06:02-07:01/59	06:19		07:23		07:27	08:35	09:13
	22:03		20:52		19:27		17:08	16:06	15:54
26	05:18	06:03-07:02/59	06:21		07:25		07:29	08:37	09:13
	22:01		20:49		19:24		17:05	16:04	15:55
27	05:20	06:03-07:01/58	06:23		07:27		07:31	08:39	09:13
	21:59		20:46		19:22		17:03	16:03	15:55
28	05:22	06:04-07:01/57	06:25		07:29		07:34	08:41	09:13
	21:57		20:44		19:19		17:01	16:02	15:56
29	05:24	06:05-07:01/56	06:27		07:31		07:36	08:42	09:13
	21:55		20:41		19:16		16:58	16:00	15:57
30	05:26	06:06-07:00/54	06:29		07:33		07:38	08:44	09:13
	21:53		20:38		19:13		16:56	15:59	15:58
31	05:28	06:06-06:59/53	06:31				07:40		09:13
	21:51		20:36				16:53		15:59
Potential sun hours	534		472		385		322	244	211
Sum of minutes with flicker	1850		419		332		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 41 - T92 (Envirsus)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 10:48-11:09/21	08:36 09:08-09:52/44	07:30 07:57-08:44/47	07:06 07:32-09:18/106	05:48	04:49 05:24-05:40/16
	16:01 11:44-12:10/26	17:00	18:04 08:51-09:18/27	20:12	21:16	22:16
2	09:13 10:49-11:08/19	08:34 09:05-09:52/47	07:27 07:54-08:41/47	07:03 07:29-09:16/107	05:45	04:48 05:23-05:41/18
	16:03 11:44-12:10/26	17:03	18:07 08:52-09:16/24	20:14	21:19	22:17
3	09:13 10:50-11:09/19	08:32 09:03-09:54/51	07:25 07:52-08:39/47	07:01 07:26-09:13/107	05:43 06:14-06:20/6	04:47 05:23-05:42/19
	16:04 11:45-12:10/25	17:05	18:09 08:53-09:13/20	20:16	21:21	22:19
4	09:13 10:51-11:09/18	08:30 09:01-09:55/54	07:22 07:49-08:36/47	06:58 07:24-09:10/106	05:41 06:11-06:23/12	04:45 05:22-05:42/20
	16:05 11:46-12:10/24	17:07	18:11 08:57-09:10/13	20:18	21:23	22:20
5	09:12 10:52-11:08/16	08:28 08:58-09:56/58	07:19 07:47-08:33/46	06:55 07:21-08:14/53 08:56-09:05/9	05:38 06:09-06:25/16	04:44 05:22-05:42/20
	16:07 11:47-12:10/23	17:09	18:13	20:21 08:17-08:50/33	21:25	22:21
6	09:12 10:52-11:08/16	08:26 08:56-09:57/61	07:17 07:46-08:30/44	06:52 07:20-08:13/53	05:36 06:07-06:26/19	04:44 05:22-05:42/20
	16:08 11:47-12:10/23	17:12	18:16	20:23 08:19-08:47/28	21:27	22:23
7	09:11 10:54-11:08/14	08:23 08:54-09:58/64	07:14 07:45-08:28/43	06:50 07:20-08:12/52	05:34 06:06-06:27/21	04:43 05:22-05:43/21
	16:10 11:48-12:09/21	17:14	18:18	20:25 08:20-08:45/25	21:29	22:24
8	09:10 10:55-11:07/12	08:21 08:51-09:58/67	07:11 07:44-08:26/42	06:47 07:19-08:10/51 08:23-08:43/20	05:32 06:05-06:28/23	04:42 05:22-05:43/21
	16:11 11:50-12:09/19	17:16	18:20	20:27 07:13-07:18/5	21:31	22:25
9	09:09 10:57-11:06/9	08:19 08:49-09:59/70	07:09 07:44-08:23/39	06:44 07:10-08:07/57	05:29 06:04-06:28/24	04:41 05:22-05:43/21
	16:13 11:51-12:09/18	17:19	18:22	20:29 08:25-08:39/14	21:33	22:26
10	09:09 10:59-11:05/6	08:17 08:46-09:59/73	07:06 07:43-08:24/41	06:42 07:08-08:03/55	05:27 06:04-06:29/25	04:40 05:23-05:44/21
	16:15 11:53-12:08/15	17:21	18:24	20:31	21:35	22:27
11	09:08 11:55-12:07/12	08:14 08:44-09:59/75	07:03 07:44-08:25/41	06:39 07:05-07:56/51	05:25 06:03-06:29/26	04:40 05:22-05:43/21
	16:16	17:23	18:27	20:33	21:37	22:28
12	09:07 11:58-12:06/8	08:12 08:41-09:59/78	07:01 07:44-08:27/43	06:36 07:02-07:53/51	05:23 06:04-06:30/26	04:39 05:23-05:44/21
	16:18	17:26	18:29	20:36	21:40	22:29
13	09:06	08:10 08:39-09:59/80	06:58 07:44-08:28/44	06:34 07:02-07:35/33	05:21 06:03-06:30/27	04:39 05:23-05:44/21
	16:20	17:28	18:31	20:38 07:38-07:52/14	21:42	22:30
14	09:05	08:07 08:36-09:59/83	06:55 07:44-08:28/44	06:31 07:22-07:32/10 07:41-07:47/6	05:19 06:03-06:30/27	04:38 05:24-05:45/21
	16:22	17:30	18:33 07:25-07:38/13	20:40 07:01-07:21/20	21:44	22:30
15	09:03	08:05 08:34-09:59/85	06:53 07:22-08:29/67	06:28 07:02-07:21/19	05:17 06:03-06:30/27	04:38 05:23-05:44/21
	16:24	17:33	18:35	20:42	21:46	22:31
16	09:02	08:03 08:31-09:59/88	06:50 07:21-08:30/69	06:26 07:01-07:20/19	05:15 06:03-06:29/26	04:38 05:23-05:45/22
	16:26	17:35	18:38	20:44	21:48	22:32
17	09:01	08:00 08:29-09:59/90	06:47 07:19-08:30/71	06:23 07:02-07:20/18	05:13 06:04-06:30/26	04:38 05:24-05:45/21
	16:28	17:37	18:40	20:46	21:50	22:32
18	09:00	07:58 08:26-09:58/92	06:44 07:18-08:30/72	06:20 07:02-07:18/16	05:11 06:03-06:29/26	04:38 05:24-05:45/21
	16:30	17:39	18:42	20:48	21:51	22:33
19	08:58	07:55 08:24-09:57/93	06:42 07:16-08:30/74	06:18 07:04-07:17/13	05:09 06:03-06:29/26	04:37 05:24-05:45/21
	16:32	17:42	18:44	20:51	21:53	22:33
20	08:57	07:53 08:21-09:56/95	06:39 07:16-08:30/74	06:15 07:05-07:14/9	05:07 06:04-06:29/25	04:37 05:24-05:45/21
	16:34	17:44	18:46	20:53	21:55	22:34
21	08:55	07:50 08:18-09:55/97	06:36 07:14-08:30/76	06:13	05:05 06:04-06:28/24	04:38 05:25-05:46/21
	16:36	17:46	18:48	20:55	21:57	22:34
22	08:54	07:48 08:16-09:54/98	06:33 07:13-08:29/76	06:10	05:04 06:05-06:28/23	04:38 05:25-05:46/21
	16:38	17:49	18:50	20:57	21:59	22:34
23	08:52	07:45 08:13-09:23/70	06:31 07:12-08:28/76	06:07	05:02 06:05-06:27/22	04:38 05:25-05:46/21
	16:40	17:51 09:25-09:52/27	18:53 07:00-07:10/10	20:59	22:01	22:34
24	08:51	07:43 08:10-09:22/72	06:28 06:58-08:28/90	06:05	05:00 06:06-06:27/21	04:38 05:25-05:46/21
	16:42	17:53 09:27-09:49/22	18:55	21:01	22:03	22:34
25	08:49	07:40 08:08-09:22/74	06:25 06:55-08:28/93	06:02	04:59 05:33-05:34/1	04:39 05:26-05:47/21
	16:45	17:55 09:30-09:47/17	18:57	21:04	22:04 06:08-06:27/19	22:34
26	08:47 09:21-09:26/5	07:38 08:05-09:21/76	06:22 06:53-08:26/93	06:00	04:57 05:31-05:36/5	04:39 05:26-05:47/21
	16:47	17:58 09:34-09:42/8	18:59	21:06	22:06 06:08-06:26/18	22:34
27	08:45 09:18-09:27/9	07:35 08:02-08:48/46	06:20 06:51-08:25/94	05:57	04:56 05:30-05:37/7	04:40 05:26-05:47/21
	16:49	18:00 08:49-09:20/31	19:01	21:08	22:08 06:09-06:25/16	22:34
28	08:44 09:16-09:29/13	07:33 08:00-08:47/47	06:17 06:46-08:25/99	05:55	04:54 05:29-05:38/9	04:40 05:26-05:47/21
	16:51 09:35-09:40/5	18:02 08:50-09:19/29	19:03	21:10	22:10 06:10-06:24/14	22:34
29	08:42 09:14-09:30/16		07:14 07:42-09:23/101	05:53	04:53 05:28-05:39/11	04:41 05:26-05:48/22
	16:53 09:31-09:45/14		20:06	21:12	22:11 06:12-06:23/11	22:33
30	08:40 09:12-09:48/36		07:11 07:39-09:22/103	05:50	04:51 05:26-05:39/13	04:42 05:27-05:48/21
	16:56		20:08	21:14	22:13 06:13-06:21/8	22:33
31	08:38 09:10-09:50/40		07:09 07:34-09:20/106		04:50 05:25-05:40/15	
	16:58		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	528	2162	2156	1160	645	619

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 41 - T92 (Envirsus)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42 05:27-05:49/22 22:33	05:30 06:14-06:40/26 21:50	06:34 07:04-07:55/51 20:34	07:36 08:23-09:07/44 19:11	07:43 08:16-09:28/72 16:52	08:47 11:37-11:49/12 15:59
2	04:43 05:27-05:48/21 22:32	05:32 06:15-06:40/25 21:47	06:36 07:06-08:01/55 20:31	07:38 08:22-09:05/43 19:09	07:45 08:19-09:28/69 16:49	08:48 10:43-10:48/5 15:58 11:36-11:51/15
3	04:44 05:27-05:48/21 22:32	05:34 06:14-06:39/25 21:45	06:38 07:08-08:05/57 20:28 08:23-08:37/14	07:40 08:21-09:03/42 19:06	07:48 08:21-09:27/66 16:47	08:50 10:41-10:50/9 15:57 11:35-11:53/18
4	04:45 05:28-05:48/20 22:31	05:36 06:15-06:38/23 21:43	06:40 07:16-08:07/51 08:20-08:40/20 20:25 07:10-07:15/5	07:42 08:21-09:01/40 19:03	07:50 08:24-09:27/63 16:45	08:52 10:40-10:52/12 15:56 11:35-11:54/19
5	04:46 05:28-05:49/21 22:30	05:38 06:16-06:38/22 21:41	06:42 07:16-08:08/52 20:23 08:17-08:42/25	07:44 08:20-09:01/41 19:00	07:52 08:26-09:26/60 16:43	08:53 10:40-10:54/14 15:55 11:35-11:55/20
6	04:47 05:28-05:49/21 22:29	05:40 06:16-06:37/21 21:39	06:44 07:16-08:09/53 20:20 08:15-08:43/28	07:46 08:21-09:04/43 18:58	07:54 08:29-09:26/57 16:40	08:55 10:39-10:54/15 15:54 11:34-11:56/22
7	04:48 05:28-05:49/21 22:29	05:42 06:18-06:36/18 21:36	06:46 07:16-08:09/53 08:51-08:59/8 20:17 08:13-08:45/32	07:48 08:21-09:05/44 18:55	07:57 08:31-09:25/54 16:38	08:57 10:39-10:55/16 15:54 11:34-11:57/23
8	04:50 05:29-05:49/20 22:28	05:44 06:19-06:34/15 21:34	06:48 07:18-09:04/106 20:15	07:50 08:22-09:07/45 18:52	07:59 08:34-09:25/51 16:36	08:58 10:39-10:57/18 15:53 11:34-11:58/24
9	04:51 05:29-05:48/19 22:27	05:46 06:21-06:32/11 21:32	06:50 07:20-09:07/107 20:12	07:53 08:22-09:09/47 18:50 09:33-09:42/9	08:01 08:36-09:23/47 16:34	08:59 10:38-10:57/19 15:53 11:33-11:58/25
10	04:52 05:30-05:48/18 22:26	05:48 21:30	06:52 07:22-09:09/107 20:09	07:55 08:24-09:11/47 18:47 09:29-09:46/17	08:03 08:39-09:22/43 16:32	09:01 10:39-10:58/19 15:52 11:34-12:00/26
11	04:54 05:32-05:49/17 22:25	05:50 21:27	06:54 07:24-09:10/106 20:06	07:57 08:27-09:14/47 18:44 09:27-09:49/22	08:05 08:41-09:21/40 16:30	09:02 10:39-10:59/20 15:52 11:34-12:00/26
12	04:55 05:33-05:48/15 22:23	05:52 21:25	06:56 07:26-09:12/106 20:04	07:59 08:29-09:16/47 18:42 09:25-09:50/25	08:08 08:44-09:19/35 16:28	09:03 10:39-11:01/22 15:51 11:34-12:00/26
13	04:56 05:34-05:48/14 22:22 06:22-06:28/6	05:54 21:22	06:59 07:31-09:13/102 20:01	08:01 08:31-09:18/47 18:39 09:23-09:51/28	08:10 08:46-09:02/16 16:26 09:03-09:16/13	09:05 10:39-11:02/23 15:51 11:35-12:02/27
14	04:58 05:36-05:48/12 22:21 06:21-06:31/10	05:56 21:20	07:01 07:32-09:13/101 19:58	08:03 08:33-09:19/46 18:36 09:22-09:52/30	08:12 08:49-09:02/13 16:24 09:08-09:12/4	09:06 10:39-11:03/24 15:51 11:35-12:02/27
15	04:59 05:37-05:47/10 22:20 06:20-06:32/12	05:59 21:18	07:03 07:34-09:14/100 19:55	08:05 08:36-09:53/77 18:34	08:14 08:51-09:00/9 16:22	09:07 10:40-11:04/24 15:51 11:35-12:03/28
16	05:01 05:38-05:46/8 22:18 06:18-06:33/15	06:01 21:15	07:05 07:41-09:15/94 19:53	08:08 08:38-09:53/75 18:31 10:04-10:16/12	08:16 08:54-08:59/5 16:20	09:08 10:40-11:05/25 15:51 11:35-12:03/28
17	05:03 05:40-05:46/6 22:17 06:18-06:35/17	06:03 21:13	07:07 07:41-09:15/94 19:50	08:10 08:40-09:53/73 18:29 10:00-10:19/19	08:19 16:19	09:09 10:40-11:05/25 15:51 11:36-12:04/28
18	05:04 05:41-05:44/3 22:15 06:17-06:35/18	06:05 21:10	07:09 07:42-09:15/93 19:47	08:12 08:43-09:54/71 18:26 09:58-10:22/24	08:21 16:17	09:09 10:41-11:06/25 15:51 11:36-12:05/29
19	05:06 06:17-06:37/20 22:14	06:07 21:08	07:11 07:44-09:15/91 19:44	08:14 08:45-09:54/69 18:23 09:56-10:24/28	08:23 16:15	09:10 10:42-11:07/25 15:51 11:37-12:05/28
20	05:08 06:15-06:37/22 22:12	06:09 21:05	07:13 07:58-09:15/77 19:42 07:46-07:57/11	08:16 08:47-10:24/97 18:21	08:25 16:14	09:11 10:41-11:07/26 15:52 11:36-12:05/29
21	05:09 06:15-06:38/23 22:10	06:11 21:02	07:15 07:58-09:15/77 19:39	08:19 08:50-10:26/96 18:18	08:27 16:12	09:12 10:42-11:08/26 15:52 11:37-12:06/29
22	05:11 06:15-06:39/24 22:09	06:13 21:00	07:17 07:59-09:14/75 19:36	08:21 08:52-10:27/95 18:16	08:29 16:10	09:12 10:42-11:08/26 15:52 11:37-12:06/29
23	05:13 06:14-06:39/25 22:07	06:15 07:10-07:20/10 20:57	07:19 07:59-09:14/75 19:33	08:23 08:54-10:27/93 18:13	08:31 16:09	09:13 10:43-11:09/26 15:53 11:38-12:07/29
24	05:15 06:14-06:40/26 22:05	06:17 07:06-07:20/14 20:55	07:21 08:00-09:13/73 19:30	08:25 08:57-10:28/91 18:11	08:33 16:07	09:13 10:43-11:09/26 15:54 11:39-12:07/28
25	05:17 06:14-06:39/25 22:03	06:19 07:05-07:21/16 20:52	07:23 08:00-09:13/73 19:28	07:27 07:59-09:28/89 17:08	08:35 16:06	09:13 10:44-11:09/25 15:54 11:39-12:07/28
26	05:18 06:14-06:40/26 22:02	06:21 07:04-07:22/18 20:49	07:25 08:01-09:12/71 19:25	07:30 08:02-09:29/87 17:06	08:37 16:05	09:14 10:44-11:09/25 15:55 11:39-12:08/29
27	05:20 06:14-06:40/26 22:00	06:23 07:03-07:22/19 20:47	07:27 08:01-09:11/70 19:22	07:32 08:04-09:29/85 17:03	08:39 16:03	09:14 10:45-11:10/25 15:56 11:40-12:08/28
28	05:22 06:14-06:41/27 21:58	06:26 07:03-07:22/19 20:44	07:29 08:03-09:10/67 19:19	07:34 08:06-09:28/82 17:01	08:41 16:02	09:14 10:45-11:10/25 15:57 11:41-12:08/27
29	05:24 06:13-06:40/27 21:56	06:28 07:23-07:33/10 07:42-07:48/6 20:42 07:02-07:22/20	07:32 08:25-09:10/45 19:17 08:05-08:20/15	07:36 08:09-09:29/80 16:59	08:43 16:01	09:14 10:46-11:10/24 15:58 11:41-12:09/28
30	05:26 06:13-06:40/27 21:54	06:30 07:02-07:35/33 20:39 07:38-07:52/14	07:34 08:24-09:08/44 19:14 08:08-08:16/8	07:39 08:11-09:28/77 16:56	08:45 11:39-11:47/8 16:00	09:14 10:47-11:10/23 15:59 11:42-12:09/27
31	05:28 06:14-06:40/26 21:52	06:32 07:02-07:53/51 20:36		07:41 08:14-09:29/75 16:54		09:14 10:48-11:10/22 16:00 11:43-12:10/27
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	691	416	2492	2249	725	1428

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 42 - T93 (Envirsus)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 13:19-13:39/20 10:12-10:40/28	08:36 09:39-10:50/71	07:30 07:57-08:26/29	07:06 07:37-08:48/71	05:48 06:43-07:26/43	04:49
	16:01 10:49-11:10/21	17:00	18:04	20:12	21:16	22:16
2	09:13 13:19-13:38/19 10:12-10:40/28	08:34 09:39-10:07/28	07:27 07:54-08:26/32	07:03 07:36-08:45/69	05:45 06:46-07:25/39	04:48
	16:03 10:49-11:09/20	17:02 10:09-10:49/40	18:07	20:14	21:19	22:17
3	09:13 13:21-13:39/18 10:13-10:41/28	08:32 09:40-10:04/24	07:25 07:52-08:26/34	07:00 07:35-08:02/27	05:43 06:48-07:24/36	04:46
	16:04 10:51-11:10/19 09:54-09:59/5	17:05 10:10-10:49/39	18:09	20:16 08:07-08:41/34	21:21	22:19
4	09:13 13:21-13:38/17 10:13-10:42/29	08:30 09:41-10:04/23	07:22 07:49-08:24/35	06:58 07:36-08:01/25	05:41 06:49-07:24/35	04:45
	16:05 10:51-11:10/19 09:53-10:01/8	17:07 10:11-10:49/38	18:11	20:18 08:09-08:27/18	21:23	22:20
5	09:12 13:22-13:38/16 10:13-10:42/29	08:28 09:41-10:02/21	07:19 07:46-08:23/37	06:55 07:35-07:59/24	05:38 06:50-07:22/32	04:44
	16:07 10:52-11:10/18 09:52-10:02/10	17:09 10:11-10:48/37	18:13	20:20 08:11-08:23/12	21:25	22:21
6	09:12 13:24-13:37/13 10:13-10:43/30	08:26 09:43-10:01/18	07:17 07:43-08:21/38	06:52 07:35-07:57/22	05:36 06:51-07:20/29	04:43
	16:08 10:53-11:09/16 09:51-10:03/12	17:12 10:12-10:48/36	18:16	20:23	21:27	22:23
7	09:11 13:25-13:36/11 10:12-10:43/31	08:23 09:45-10:00/15	07:14 07:41-08:19/38	06:50 07:37-07:56/19	05:34 06:53-07:19/26	04:43
	16:10 10:55-11:10/15 09:51-10:05/14	17:14 10:13-10:47/34	18:18	20:25 07:16-07:25/9	21:29	22:24
8	09:10 13:28-13:35/7 10:11-10:44/33	08:21 09:48-09:56/8	07:11 07:38-08:16/38	06:47 07:37-07:54/17	05:31 06:56-07:17/21	04:42
	16:11 10:55-11:08/13 09:49-10:06/17	17:16 10:13-10:46/33	18:20	20:27 07:13-07:27/14	21:31	22:25
9	09:09 10:57-11:08/11 09:49-10:07/18	08:19 10:15-10:45/30	07:09 07:35-08:11/36	06:44 07:38-07:52/14	05:29 07:03-07:14/11	04:41
	16:13 10:11-10:44/33	17:19	18:22	20:29 07:10-07:28/18	21:33	22:26
10	09:09 10:59-11:07/8 09:49-10:08/19	08:17 10:16-10:43/27	07:06 07:32-08:05/33	06:42 07:42-07:49/7	05:27	04:40
	16:15 10:10-10:45/35	17:21	18:24	20:31 07:09-07:29/20	21:35	22:27
11	09:08 10:10-10:46/36	08:14 10:18-10:42/24	07:03 07:30-08:05/35	06:39 07:07-07:29/22	05:25	04:40
	16:16 09:49-10:09/20	17:23	18:27	20:33	21:37	22:28
12	09:07 09:49-10:46/57	08:12 10:20-10:39/19	07:01 07:27-08:03/36	06:36 07:03-07:29/26	05:23	04:39
	16:18	17:26	18:29	20:36	21:40	22:29
13	09:06 09:48-10:46/58	08:10 10:24-10:35/11	06:58 07:24-08:02/38	06:33 07:01-07:30/29	05:21	04:39
	16:20	17:28	18:31	20:38	21:42	22:30
14	09:05 09:43-10:47/64	08:07	06:55 07:21-07:59/38	06:31 06:57-07:29/32	05:19	04:38
	16:22	17:30	18:33	20:40	21:44	22:30
15	09:03 09:41-10:47/66	08:05	06:53 07:18-07:56/38	06:28 06:55-07:29/34	05:17	04:38
	16:24	17:33	18:35	20:42	21:46	22:31
16	09:02 09:40-10:48/68	08:03	06:50 07:16-07:55/39	06:26 06:52-07:28/36	05:15	04:38
	16:26	17:35	18:38	20:44	21:48	22:32
17	09:01 09:39-10:47/68	08:00	06:47 07:13-07:56/43	06:23 06:50-07:28/38	05:13	04:38
	16:28	17:37	18:40	20:46	21:50	22:32
18	09:00 09:38-10:47/69	07:58	06:44 07:10-07:56/46	06:20 06:47-07:27/40	05:11	04:37
	16:30	17:39	18:42	20:48	21:52	22:33
19	08:58 09:38-10:48/70	07:55	06:42 07:07-07:56/49	06:18 06:45-07:28/43	05:09	04:37
	16:32	17:42	18:44	20:51	21:53	22:33
20	08:57 09:38-10:48/70	07:53	06:39 07:05-07:57/52	06:15 06:42-07:28/46	05:07	04:37
	16:34	17:44	18:46	20:53	21:55	22:34
21	08:55 09:37-10:47/70	07:50 08:18-08:19/1	06:36 07:02-07:57/55	06:13 06:41-07:29/48	05:05	04:38
	16:36	17:46	18:48	20:55	21:57	22:34
22	08:54 09:37-10:47/70	07:48 08:16-08:23/7	06:33 06:59-07:57/58	06:10 06:39-07:29/50	05:04	04:38
	16:38	17:49	18:50	20:57	21:59	22:34
23	08:52 09:36-10:47/71	07:45 08:13-08:24/11	06:31 06:56-07:56/60	06:07 06:39-07:29/50	05:02	04:38
	16:40	17:51	18:53	20:59	22:01	22:34
24	08:51 09:37-10:47/70	07:43 08:10-08:25/15	06:28 06:54-07:57/63	06:05 06:38-07:28/50	05:00	04:38
	16:42	17:53	18:55	21:01	22:03	22:34
25	08:49 09:37-10:47/70	07:40 08:08-08:26/18	06:25 06:51-07:56/65	06:02 06:39-07:29/50	04:59	04:39
	16:44	17:55	18:57	21:04	22:04	22:34
26	08:47 09:36-10:48/72	07:38 08:05-08:26/21	06:22 06:48-07:55/67	06:00 06:39-07:29/50	04:57	04:39
	16:47	17:58	18:59	21:06	22:06	22:34
27	08:45 09:36-10:48/72	07:35 08:02-08:26/24	06:20 06:45-07:54/69	05:57 06:39-07:28/49	04:56	04:40
	16:49	18:00	19:01	21:08	22:08	22:34
28	08:44 09:37-10:49/72	07:33 08:00-08:27/27	06:17 06:43-07:54/71	05:55 06:40-07:28/48	04:54	04:40
	16:51	18:02	19:03	21:10	22:10	22:34
29	08:42 09:37-10:49/72		07:14 07:40-08:52/72	05:52 06:41-07:28/47	04:53	04:41
	16:53		20:05	21:12	22:11	22:33
30	08:40 09:37-10:49/72		07:11 07:38-08:51/73	05:50 06:41-07:26/45	04:51	04:42
	16:56		20:08	21:14	22:13	22:33
31	08:38 09:38-10:50/72		07:09 07:37-08:49/72		04:50	
	16:58		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	2117	700	1489	1253	272	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 42 - T93 (Envirsus)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42	05:30	06:34 07:06-07:28/22	07:36 08:05-08:42/37	07:43 09:45-10:13/28	08:47 09:52-10:28/36
	22:33	21:50	20:34	19:11	16:52	15:59 09:31-09:51/20
2	04:43	05:32	06:36 07:40-07:47/7	07:38 08:07-08:42/35	07:45 09:44-10:15/31	08:48 10:43-10:50/7 09:32-09:51/19
	22:32	21:47	20:31 07:07-07:27/20	19:08	16:49	15:58 09:53-10:28/35
3	04:44	05:34 07:17-07:20/3	06:38 07:36-07:50/14	07:40 08:09-08:43/34	07:48 09:17-09:27/10	08:50 10:41-10:52/11 09:33-09:51/18
	22:32	21:45	20:28 07:08-07:26/18	19:06	16:47 09:43-10:15/32	15:57 09:55-10:28/33
4	04:45	05:36 07:12-07:25/13	06:40 07:34-07:51/17	07:42 08:11-08:46/35	07:50 09:15-09:30/15	08:52 13:13-13:20/7 09:56-10:29/33
	22:31	21:43	20:25 07:10-07:24/14	19:03	16:45 09:42-10:17/35	15:56 10:41-10:53/12 09:34-09:51/17
5	04:46	05:38 07:05-07:28/23	06:42 07:33-07:52/19	07:44 08:13-08:50/37	07:52 09:13-09:31/18	08:53 13:11-13:21/10 09:58-10:29/31
	22:30	21:41	20:23 07:12-07:21/9	19:00	16:43 09:41-10:17/36	15:55 10:40-10:55/15 09:36-09:51/15
6	04:47	05:40 07:02-07:29/27	06:44 07:32-07:53/21	07:46 08:16-08:54/38	07:54 09:12-09:33/21	08:55 13:10-13:23/13 09:59-10:29/30
	22:29	21:39	20:20	18:58	16:40 09:41-10:19/38	15:54 10:39-10:55/16 09:37-09:49/12
7	04:48	05:42 07:01-07:31/30	06:46 07:31-07:54/23	07:48 08:18-08:56/38	07:57 09:10-09:33/23	08:57 13:10-13:25/15 10:00-10:29/29
	22:29	21:36	20:17 08:07-08:18/11	18:55	16:38 09:40-10:19/39	15:54 10:39-10:57/18 09:39-09:49/10
8	04:50	05:44 06:59-07:32/33	06:48 07:30-07:55/25	07:50 08:20-08:57/37	07:59 09:10-09:35/25	08:58 13:10-13:26/16 10:01-10:30/29
	22:28	21:34	20:15 08:04-08:21/17	18:52	16:36 09:40-10:20/40	15:53 10:40-10:58/18 09:41-09:49/8
9	04:51	05:46 06:57-07:32/35	06:50 07:29-07:56/27	07:53 08:22-08:58/36	08:01 09:09-09:38/29	08:59 13:09-13:27/18 10:01-10:30/29
	22:27	21:32	20:12 08:01-08:35/34	18:50	16:34 09:40-10:20/40	15:52 10:39-10:58/19 09:42-09:47/5
10	04:52	05:48 06:56-07:33/37	06:52 07:29-08:38/69	07:55 08:24-08:59/35	08:03 09:10-10:21/71	09:01 13:09-13:28/19 10:02-10:30/28
	22:26	21:30	20:09	18:47	16:32	15:52 10:40-10:59/19
11	04:53	05:50 06:53-07:34/41	06:54 07:29-08:40/71	07:57 08:27-09:00/33	08:05 09:09-10:20/71	09:02 13:09-13:29/20 10:02-10:30/28
	22:25	21:27	20:06	18:44	16:30	15:52 10:39-11:00/21
12	04:55	05:52 06:51-07:34/43	06:56 07:29-08:41/72	07:59 08:29-09:00/31	08:08 09:09-10:21/72	09:03 13:09-13:29/20 10:03-10:31/28
	22:23	21:25	20:04	18:42	16:28	15:51 10:40-11:01/21
13	04:56	05:54 06:49-07:35/46	06:58 07:29-08:42/73	08:01 08:31-08:59/28	08:10 09:09-10:21/72	09:05 12:17-12:23/6 10:40-11:01/21
	22:22	21:22	20:01	18:39	16:26	15:51 13:09-13:31/22 10:04-10:31/27
14	04:58	05:56 06:48-07:35/47	07:01 07:30-08:43/73	08:03 08:33-08:59/26	08:12 09:09-10:22/73	09:06 12:16-12:24/8 10:40-11:02/22
	22:21	21:20	19:58	18:36	16:24	15:51 13:09-13:31/22 10:04-10:31/27
15	04:59	05:58 06:47-07:35/48	07:03 07:32-08:43/71	08:05 08:36-08:59/23	08:14 09:09-10:21/72	09:07 12:15-12:25/10 10:40-11:02/22
	22:20	21:18	19:55	18:34	16:22	15:51 13:09-13:32/23 10:05-10:31/26
16	05:01	06:01 06:46-07:35/49	07:05 07:34-08:43/69	08:08 08:38-08:58/20	08:16 09:10-10:22/72	09:08 12:15-12:26/11 10:41-11:03/22
	22:18	21:15	19:53	18:31	16:20	15:51 13:10-13:32/22 10:05-10:32/27
17	05:02	06:03 06:46-07:35/49	07:07 07:36-08:44/68	08:10 08:40-08:57/17	08:19 09:10-10:21/71	09:09 12:15-12:27/12 10:41-11:04/23
	22:17	21:13	19:50	18:28	16:19	15:51 13:10-13:33/23 10:06-10:32/26
18	05:04	06:05 06:45-07:35/50	07:09 07:38-08:44/66	08:12 08:43-08:57/14	08:21 09:10-10:21/71	09:10 12:15-12:28/13 10:42-11:04/22
	22:15	21:10	19:47	18:26	16:17	15:51 13:11-13:34/23 10:06-10:33/27
19	05:06	06:07 06:45-07:35/50	07:11 07:40-08:43/63	08:14 08:45-08:55/10	08:23 09:11-10:22/71	09:10 12:16-12:29/13 10:42-11:05/23
	22:14	21:08	19:44	18:23	16:15	15:51 13:11-13:35/24 10:07-10:33/26
20	05:08	06:09 06:45-07:35/50	07:13 07:42-08:43/61	08:16 08:47-08:53/6	08:25 09:12-10:22/70	09:11 12:15-12:29/14 10:42-11:05/23
	22:12	21:05	19:42	18:21	16:13	15:52 13:11-13:34/23 10:07-10:33/26
21	05:09	06:11 06:45-07:34/49	07:15 07:44-08:43/59	08:19	08:27 09:13-10:23/70	09:12 12:16-12:30/14 10:43-11:06/23
	22:10	21:02	19:39	18:18	16:12	15:52 13:12-13:35/23 10:08-10:34/26
22	05:11	06:13 06:45-07:33/48	07:17 07:46-08:42/56	08:21	08:29 09:14-10:24/70	09:12 12:16-12:30/14 10:43-11:06/23
	22:09	21:00	19:36	18:16	16:10	15:52 13:12-13:35/23 10:08-10:34/26
23	05:13	06:15 06:47-07:32/45	07:19 07:48-08:41/53	08:23	08:31 09:14-10:24/70	09:13 12:17-12:31/14 10:44-11:07/23
	22:07	20:57	19:33	18:13	16:09	15:53 13:13-13:36/23 10:09-10:35/26
24	05:15	06:17 06:48-07:31/43	07:21 07:50-08:40/50	08:25	08:33 09:16-10:25/69	09:13 12:18-12:31/13 10:44-11:07/23
	22:05	20:55	19:30	18:11	16:07	15:54 13:13-13:37/24 10:09-10:35/26
25	05:16	06:19 06:50-07:30/40	07:23 07:52-08:39/47	07:27	08:35 09:17-10:25/68	09:13 12:18-12:31/13 10:44-11:07/23
	22:03	20:52	19:28	17:08	16:06	15:54 13:13-13:37/24 10:09-10:35/26
26	05:18	06:21 06:52-07:30/38	07:25 07:54-08:38/44	07:30	08:37 09:18-10:26/68	09:14 12:19-12:31/12 10:45-11:07/22
	22:02	20:49	19:25	17:06	16:05	15:55 13:14-13:37/23 10:10-10:36/26
27	05:20	06:23 06:54-07:30/36	07:27 07:56-08:36/40	07:32	08:39 09:20-10:26/66	09:14 12:20-12:31/11 10:45-11:08/23
	22:00	20:47	19:22	17:03	16:03	15:56 13:14-13:37/23 10:10-10:36/26
28	05:22	06:25 06:56-07:30/34	07:29 07:59-08:36/37	07:34	08:41 09:23-10:27/64	09:14 12:21-12:31/10 10:46-11:08/22
	21:58	20:44	19:19	17:01	16:02	15:57 13:15-13:38/23 10:10-10:37/27
29	05:24	06:28 06:58-07:30/32	07:32 08:01-08:40/39	07:36 09:53-10:06/13	08:43 09:29-10:27/58	09:14 12:22-12:31/9 10:47-11:09/22
	21:56	20:42	19:17	16:59	16:01	15:58 13:16-13:38/22 10:11-10:38/27
30	05:26	06:30 07:01-07:30/29	07:34 08:03-08:41/38	07:39 09:49-10:09/20	08:45 09:30-10:28/58	09:14 12:24-12:31/7 10:48-11:09/21
	21:54	20:39	19:14	16:56	16:00	15:59 13:17-13:39/22 10:11-10:39/28
31	05:28	06:32 07:03-07:29/26		07:41 09:47-10:11/24		09:14 12:26-12:30/4 10:49-11:10/21
	21:52	20:36		16:54		16:00 13:18-13:39/21 10:12-10:40/28
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	0	1094	1517	627	1907	2377

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 43 - T94 (Envirsus)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	January	February	March	April	May	June
1	09:14 09:59-11:13/74 14:31-14:51/20	08:36 15:31-15:54/23	07:30 08:10-08:41/31	07:06	05:48 06:16-06:39/23	04:49
	16:01 11:48-12:38/50	17:00 09:35-10:00/25	18:04	20:12	21:16	22:16
2	09:13 09:59-11:13/74 14:32-14:51/19	08:34 15:32-15:54/22	07:27 08:08-08:40/32	07:03	05:45 06:14-06:39/25	04:48
	16:02 11:48-12:38/50	17:02 09:34-09:59/25	18:07	20:14	21:19	22:17
3	09:13 09:59-11:14/75 14:33-14:52/19	08:32 15:33-15:53/20	07:25 08:07-08:39/32	07:00	05:43 06:12-06:39/27	04:46
	16:04 11:49-12:39/50	17:05 09:35-09:59/24	18:09	20:16	21:21	22:19
4	09:13 09:59-11:15/76 14:33-14:52/19	08:30 15:35-15:52/17	07:22 08:07-08:40/33	06:58	05:41 06:11-06:39/28	04:45
	16:05 11:49-12:39/50	17:07 09:37-09:59/22	18:11	20:18	21:23	22:20
5	09:12 10:00-11:15/75 14:34-14:51/17	08:28 15:36-15:50/14	07:19 08:05-08:41/36	06:55	05:38 06:10-06:38/28	04:44
	16:07 11:49-12:39/50	17:09 09:37-09:57/20	18:13	20:20	21:25	22:21
6	09:12 10:01-11:15/74 14:34-14:51/17	08:26 15:38-15:49/11 08:59-09:08/9	07:17 08:04-08:41/37	06:52	05:36 06:09-06:37/28	04:43
	16:08 11:49-12:38/49	17:12 09:39-09:56/17	18:16	20:23	21:27	22:23
7	09:11 10:01-11:16/75 14:35-14:51/16	08:23 09:41-09:55/14	07:14 08:03-08:41/38	06:50 07:16-07:28/12	05:34 06:09-06:36/27	04:43
	16:10 11:50-12:38/48	17:14 08:57-09:11/14	18:18	20:25	21:29	22:24
8	09:10 10:02-11:16/74 14:36-14:51/15	08:21 09:43-09:52/9	07:11 08:04-08:41/37	06:47 07:13-07:31/18	05:31 06:09-06:35/26	04:42
	16:11 11:50-12:38/48	17:16 08:54-09:13/19	18:20	20:27	21:31	22:25
9	09:09 10:01-11:17/76 14:37-14:51/14	08:19 08:53-09:14/21	07:09 08:03-08:41/38	06:44 07:10-07:32/22	05:29 06:09-06:35/26	04:41
	16:13 11:51-12:38/47	17:19	18:22	20:29	21:33	22:26
10	09:09 10:02-11:17/75 14:39-14:51/12	08:17 08:51-09:15/24	07:06 08:03-08:40/37	06:41 07:08-07:33/25	05:27 06:09-06:35/26	04:40
	16:15 11:52-12:37/45	17:21	18:24	20:31	21:35	22:27
11	09:08 10:03-11:18/75 14:40-14:51/11	08:14 08:51-09:16/25	07:03 08:02-08:40/38	06:39 07:06-07:33/27	05:25 06:09-06:34/25	04:40
	16:16 11:53-12:37/44	17:23 08:44-08:49/5	18:27	20:33	21:37	22:28
12	09:07 10:03-11:19/76 14:43-14:50/7	08:12 08:41-09:17/36	07:01 08:03-08:40/37	06:36 07:04-07:33/29	05:23 06:10-06:35/25	04:39
	16:18 11:54-12:36/42	17:26	18:29	20:36	21:40	22:29
13	09:06 10:03-11:18/75	08:10 08:39-09:18/39	06:58 08:03-08:39/36	06:33 07:04-07:34/30	05:21 06:11-06:34/23	04:39
	16:20 11:54-12:34/40	17:28	18:31	20:38	21:42	22:30
14	09:05 15:34-15:41/7 11:55-12:34/39	08:07 08:36-09:18/42	06:55 08:03-08:38/35	06:31 07:03-07:34/31	05:19 06:11-06:34/23	04:38
	16:22 10:04-11:19/75	17:30	18:33	20:40	21:44	22:30
15	09:03 15:32-15:42/10 11:55-12:33/38	08:05 08:36-09:18/42	06:52 18:03-18:06/3	06:28 07:03-07:34/31	05:17 06:12-06:33/21	04:38
	16:24 10:05-11:19/74 09:41-09:43/2	17:32	18:35 08:03-08:36/33	20:42	21:46	22:31
16	09:02 15:32-15:45/13 11:56-12:34/38	08:03 08:35-09:18/43	06:50 18:00-18:08/8	06:26 07:03-07:33/30	05:15 06:12-06:32/20	04:38
	16:26 10:06-11:20/74 09:39-09:48/9	17:35	18:37 08:05-08:36/31	20:44	21:48	22:32
17	09:01 15:30-15:47/17 11:57-12:33/36	08:00 08:35-09:19/44	06:47 18:00-18:11/11	06:23 07:03-07:33/30	05:13 06:14-06:32/18	04:38
	16:28 10:06-11:19/73 09:37-09:49/12	17:37	18:40 08:05-08:34/29	20:46	21:50	22:32
18	09:00 15:30-15:48/18 11:57-12:33/36	07:58 08:26-08:33/7	06:44 17:58-18:13/15	06:20 07:03-07:32/29	05:11 06:15-06:30/15	04:37
	16:30 10:08-11:19/71 09:36-09:52/16	17:39 08:34-09:18/44	18:42 08:06-08:32/26	20:48	21:51	22:33
19	08:58 15:30-15:50/20 11:59-12:33/34	07:55 08:24-09:18/54	06:42 17:57-18:15/18	06:18 07:04-07:32/28	05:09 06:16-06:29/13	04:37
	16:32 10:09-11:20/71 09:35-09:53/18	17:42	18:44 08:08-08:29/21	20:51	21:53	22:33
20	08:57 15:29-15:51/22 12:00-12:32/32	07:53 08:21-09:17/56	06:39 17:56-18:16/20	06:15 07:04-07:30/26	05:07 06:18-06:28/10	04:37
	16:34 10:10-11:20/70 09:34-09:54/20	17:44	18:46 08:11-08:27/16	20:53	21:55	22:34
21	08:55 15:29-15:51/22 12:01-12:32/31	07:50 08:19-09:16/57	06:36 17:57-18:16/19	06:13 07:05-07:30/25	05:05 06:20-06:24/4	04:37
	16:36 10:12-11:19/67 09:34-09:55/21	17:46	18:48 08:15-08:21/6	20:55	21:57	22:34
22	08:54 15:28-15:52/24 12:02-12:31/29 10:16-10:22/6	07:48 08:19-09:15/56	06:33 17:57-18:15/18	06:10 07:06-07:27/21	05:04	04:38
	16:38 10:25-11:19/54 09:33-09:56/23	17:49	18:50	20:57	21:59	22:34
23	08:52 15:28-15:52/24 12:03-12:30/27	07:45 08:18-09:14/56	06:31 17:57-18:14/17	06:07 07:09-07:26/17	05:02	04:38
	16:40 10:26-11:18/52 09:33-09:56/23	17:51	18:53	20:59	22:01	22:34
24	08:51 15:28-15:53/25 12:05-12:29/24	07:43 08:17-09:12/55	06:28 17:57-18:13/16	06:05 07:13-07:22/9	05:00	04:38
	16:42 10:27-11:18/51 09:33-09:58/25	17:53	18:55	21:01	22:03	22:34
25	08:49 15:28-15:53/25 12:07-12:27/20	07:40 08:17-09:11/54	06:25 17:59-18:12/13	06:02 06:30-06:35/5	04:59	04:39
	16:44 10:28-11:17/49 09:33-09:59/26	17:55	18:57	21:04	22:04	22:34
26	08:47 15:28-15:54/26 12:09-12:25/16	07:38 08:16-08:53/37	06:22 18:01-18:09/8	06:00 06:28-06:37/9	04:57	04:39
	16:47 10:30-11:16/46 09:32-09:58/26	17:58 08:55-09:08/13	18:59	21:06	22:06	22:34
27	08:45 15:28-15:54/26 12:13-12:22/9 10:31-10:50/19	07:35 08:14-08:50/36	06:20	05:57 06:25-06:37/12	04:55	04:40
	16:49 10:53-11:15/22 09:32-09:59/27	18:00	19:01	21:08	22:08	22:34
28	08:44 15:29-15:55/26 09:33-09:59/26	07:33 08:12-08:42/30	06:17	05:55 06:23-06:38/15	04:54	04:40
	16:51 10:55-11:14/19 10:33-10:48/15	18:02	19:03	21:10	22:10	22:34
29	08:42 15:29-15:55/26 09:33-10:00/27		07:14	05:52 06:21-06:39/18	04:53	04:41
	16:53 10:57-11:12/15 10:36-10:46/10		20:05	21:12	22:11	22:33
30	08:40 15:30-15:55/25 09:33-10:00/27		07:11	05:50 06:18-06:39/21	04:51	04:42
	16:56 11:01-11:08/7		20:08	21:14	22:13	22:33
31	08:38 15:31-15:55/24		07:09		04:50	
	16:58 09:34-10:00/26		20:10		22:14	
Potential sun hours	231	264	366	428	512	534
Sum of minutes with flicker	3856	1181	825	520	461	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG

WTG: 43 - T94 (Envirsus)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.05	3.15	5.41	7.79	10.13	10.16	10.37	8.93	6.38	4.41	1.87	1.54

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
496	418	462	476	538	638	749	1 045	1 409	881	561	547	8 220

	July	August	September	October	November	December
1	04:42 22:33	05:30 06:20-06:45/25 21:50	06:34 07:05-07:32/27 20:34	07:36 08:42-09:19/37 19:11	07:43 08:21-08:44/23 16:52	08:47 09:45-11:00/75 14:23-14:33/10 15:59 11:35-12:19/44
2	04:43 22:32	05:32 06:19-06:45/26 21:47	06:36 07:06-07:31/25 20:31	07:38 08:42-09:19/37 19:08	07:45 08:23-08:44/21 16:49	08:48 09:45-11:01/76 14:22-14:34/12 15:58 11:35-12:20/45
3	04:44 22:32	05:34 06:19-06:45/26 21:45	06:38 07:08-07:30/22 20:28	07:40 08:41-09:18/37 19:06	07:48 09:12-09:22/10 16:47 08:24-08:42/18	08:50 09:45-11:01/76 14:22-14:35/13 15:57 11:35-12:22/47
4	04:45 22:31	05:36 06:19-06:45/26 21:43	06:40 07:10-07:28/18 20:25	07:42 08:40-09:18/38 19:03	07:50 09:10-09:25/15 16:45 08:27-08:41/14	08:52 09:46-11:01/75 14:21-14:36/15 15:56 11:36-12:23/47
5	04:46 22:30	05:38 06:19-06:45/26 21:41	06:42 07:13-07:25/12 20:23	07:44 08:40-09:18/38 19:00	07:52 15:08-15:19/11 08:29-08:37/8 16:43 09:08-09:26/18	08:53 09:46-11:02/76 14:20-14:36/16 15:55 11:35-12:24/49
6	04:47 22:29	05:40 06:19-06:46/27 21:39	06:44 07:18-07:19/1 20:20	07:46 08:41-09:18/37 18:58	07:54 15:06-15:21/15 16:40 09:07-09:28/21	08:55 09:46-11:01/75 14:21-14:38/17 15:54 11:36-12:24/48
7	04:48 22:29	05:42 06:19-06:47/28 21:36	06:46 20:17	07:48 08:40-09:17/37 18:55	07:57 15:04-15:22/18 16:38 09:06-09:29/23	08:57 09:47-11:02/75 14:21-14:39/18 15:54 11:36-12:26/50
8	04:50 22:28	05:44 06:20-06:48/28 21:34	06:48 20:15	07:50 08:40-09:16/36 18:52	07:59 15:04-15:24/20 16:36 09:06-09:30/24	08:58 09:48-11:03/75 14:21-14:40/19 15:53 11:37-12:27/50
9	04:51 22:27	05:46 06:19-06:48/29 21:32	06:50 20:12	07:53 08:40-09:15/35 18:50	08:01 15:02-15:24/22 16:34 09:05-09:30/25	08:59 09:48-11:02/74 14:21-14:40/19 15:52 11:37-12:27/50
10	04:52 22:26	05:48 06:21-06:47/26 21:30	06:52 20:09	07:55 08:41-09:14/33 18:47	08:03 15:02-15:26/24 16:32 09:05-09:31/26	09:01 09:49-11:03/74 14:22-14:41/19 15:52 11:38-12:28/50
11	04:53 22:25	05:50 06:23-06:47/24 21:27	06:54 20:06	07:57 08:42-09:14/32 18:44	08:05 15:01-15:26/25 16:30 09:05-09:31/26	09:02 09:49-11:03/74 14:21-14:41/20 15:52 11:38-12:29/51
12	04:55 22:23	05:52 06:25-06:47/22 21:25	06:56 20:04	07:59 08:43-09:14/31 18:42	08:08 15:02-15:27/25 09:05-09:32/27 16:28 10:33-10:41/8	09:03 09:50-11:04/74 14:21-14:41/20 15:51 11:38-12:30/52
13	04:56 22:22	05:54 06:27-06:47/20 21:22	06:58 20:01	08:01 08:44-09:14/30 18:39	08:10 15:01-15:27/26 09:05-09:31/26 16:26 10:29-10:44/15 10:08-10:18/10	09:05 09:50-11:04/74 14:22-14:43/21 15:51 11:39-12:30/51
14	04:58 22:21	05:56 06:29-06:46/17 21:20	07:01 19:58	08:03 08:45-09:14/29 18:36 09:15-09:20/5	08:12 15:02-15:27/25 09:05-09:32/27 16:24 10:28-10:47/19 10:06-10:21/15	09:06 09:51-11:04/73 14:23-14:43/20 15:51 11:39-12:31/52
15	04:59 22:20	05:58 06:31-06:46/15 21:17	07:03 19:55	08:05 08:48-09:24/36 18:34 09:30-09:38/8	08:14 15:01-15:27/26 11:46-11:55/9 10:04-10:23/19 16:22 10:26-10:48/22 09:05-09:32/27	09:07 09:51-11:05/74 14:23-14:43/20 15:51 11:39-12:31/52
16	05:01 22:18	06:01 06:33-06:45/12 21:15	07:05 19:53	08:08 08:48-09:41/53 18:31	08:16 15:01-15:27/26 11:43-11:59/16 16:20 10:04-10:50/46 09:06-09:32/26	09:08 09:51-11:05/74 14:23-14:44/21 15:51 11:40-12:32/52
17	05:02 22:17	06:03 06:35-06:43/8 21:13	07:07 18:50-18:56/6 19:50	08:10 08:48-09:43/55 18:28	08:19 15:02-15:27/25 11:40-12:01/21 16:19 10:02-10:51/49 09:06-09:32/26	09:09 09:52-11:05/73 14:24-14:44/20 15:51 11:40-12:32/52
18	05:04 22:15	06:05 06:37-06:41/4 21:10	07:09 18:47-18:59/12 19:47	08:12 08:49-09:45/56 18:26	08:21 15:02-15:27/25 11:39-12:03/24 16:17 10:01-10:52/51 09:06-09:31/25	09:10 09:53-11:06/73 14:24-14:45/21 15:51 11:41-12:33/52
19	05:06 22:14	06:07 07:19-07:30/11 21:08	07:11 18:45-19:00/15 19:44	08:14 08:49-09:46/57 18:23	08:23 15:03-15:27/24 11:38-12:05/27 16:15 10:01-10:53/52 09:08-09:31/23	09:10 09:54-11:07/73 14:25-14:46/21 15:51 11:42-12:34/52
20	05:07 22:12	06:09 07:14-07:32/18 21:05	07:13 18:44-19:01/17 19:41	08:16 08:49-09:46/57 18:21	08:25 15:03-15:27/24 11:37-12:06/29 09:51-09:57/6 16:13 10:00-10:54/54 09:08-09:31/23	09:11 09:54-11:06/72 14:25-14:45/20 15:51 11:42-12:34/52
21	05:09 22:10	06:11 07:12-07:33/21 21:02	07:15 18:42-19:01/19 19:39	08:19 08:51-09:47/56 18:18	08:27 15:05-15:27/22 11:37-12:08/31 16:12 09:48-10:55/67 09:10-09:31/21	09:12 09:55-11:07/72 14:26-14:46/20 15:52 11:42-12:35/53
22	05:11 22:09	06:13 07:10-07:33/23 21:00	07:17 18:42-19:01/19 19:36	08:21 08:52-09:47/55 18:16	08:29 15:05-15:27/22 11:36-12:08/32 16:10 09:46-10:56/70 09:10-09:30/20	09:12 09:56-11:07/71 14:26-14:46/20 15:52 11:42-12:35/53
23	05:13 06:29-06:36/7 22:07	06:15 07:07-07:34/27 20:57	07:19 18:41-19:01/20 19:33 08:56-09:10/14	08:23 08:54-09:47/53 18:13	08:31 15:06-15:26/20 11:35-12:09/34 16:09 09:45-10:56/71 09:11-09:29/18	09:13 09:56-11:08/72 14:27-14:47/20 15:53 11:43-12:36/53
24	05:15 06:27-06:39/12 22:05	06:17 07:06-07:35/29 20:55	07:21 18:41-19:00/19 19:30 08:52-09:12/20	08:25 08:59-09:01/2 18:11 09:04-09:48/44	08:33 15:08-15:26/18 11:35-12:11/36 16:07 09:45-10:57/72 09:13-09:29/16	09:13 09:56-11:09/73 14:27-14:48/21 15:53 11:44-12:36/52
25	05:16 06:25-06:40/15 22:03	06:19 07:06-07:35/29 20:52	07:23 18:41-18:57/16 19:28 08:50-09:14/24	08:27 08:04-08:48/44 17:08	08:35 15:08-15:25/17 11:35-12:11/36 16:06 09:45-10:57/72 09:15-09:28/13	09:13 09:56-11:09/73 14:27-14:48/21 15:54 11:44-12:36/52
26	05:18 06:24-06:41/17 22:02	06:21 07:05-07:35/30 20:49	07:25 18:41-18:54/13 19:25 08:48-09:15/27	07:30 08:05-08:48/43 17:06	08:37 15:10-15:23/13 11:34-12:12/38 16:04 09:44-10:58/74 09:17-09:26/9	09:14 09:57-11:09/72 14:28-14:48/20 15:55 11:44-12:36/52
27	05:20 06:24-06:42/18 22:00	06:23 07:04-07:35/31 20:47	07:27 18:42-18:51/9 19:22 08:46-09:16/30	07:32 08:05-08:48/43 17:03	08:39 15:11-15:22/11 11:34-12:12/38 16:03 09:44-10:58/74 09:20-09:23/3	09:14 09:57-11:10/73 14:28-14:49/21 15:56 11:45-12:37/52
28	05:22 06:23-06:44/21 21:58	06:25 07:04-07:35/31 20:44	07:29 18:43-18:48/5 19:19 08:45-09:17/32	07:34 08:06-08:47/41 17:01	08:41 15:13-15:20/7 11:35-12:14/39 16:02 09:45-10:59/74	09:14 09:57-11:10/73 14:29-14:49/20 15:57 11:45-12:37/52
29	05:24 06:22-06:43/21 21:56	06:28 07:04-07:35/31 20:42	07:31 08:44-09:18/34 19:17	07:36 08:09-08:47/38 16:59	08:43 09:44-11:00/76 16:01 11:35-12:15/40	09:14 09:57-11:11/74 14:29-14:50/21 15:58 11:46-12:37/51
30	05:26 06:21-06:44/23 21:54	06:30 07:04-07:34/30 20:39	07:34 08:43-09:19/36 19:14	07:39 08:11-08:46/35 16:56	08:45 09:44-11:00/76 14:24-14:31/7 16:00 11:35-12:17/42	09:14 09:58-11:12/74 14:30-14:50/20 15:59 11:47-12:38/51
31	05:28 06:21-06:45/24 21:52	06:32 07:04-07:33/29 20:36		07:41 08:20-08:46/26 16:54 08:14-08:17/3		09:14 09:59-11:13/74 14:31-14:51/20 16:00 11:47-12:39/52
Potential sun hours	534	472	385	322	244	211
Sum of minutes with flicker	158	729	492	1297	2684	4443

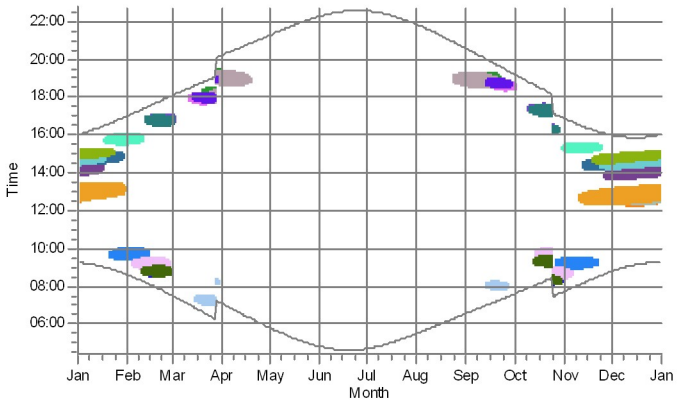
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

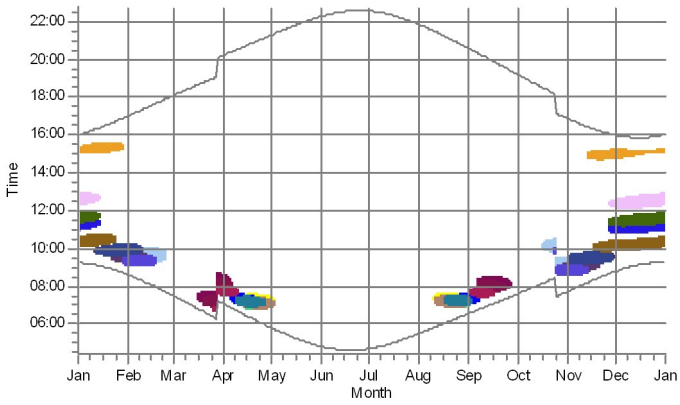
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG, graphical

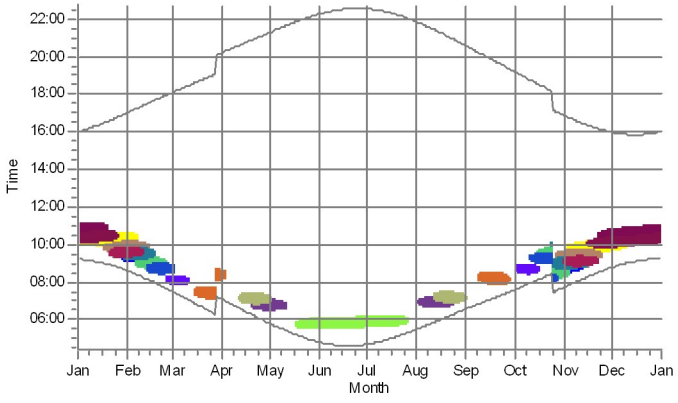
1: V-2_1 (Ventspils-2)



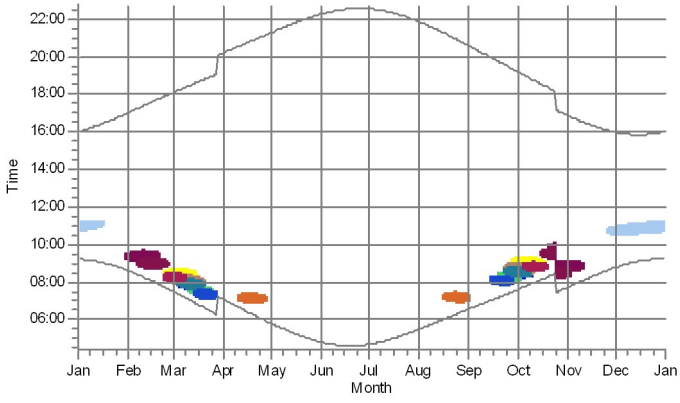
2: V-2_3 (Ventspils-2)



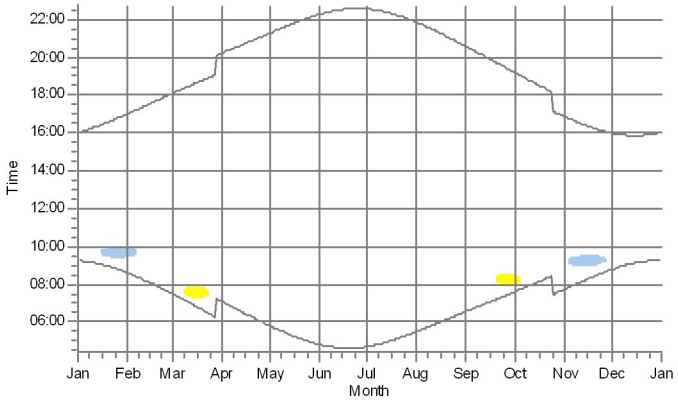
3: V-2_6 (Ventspils-2)



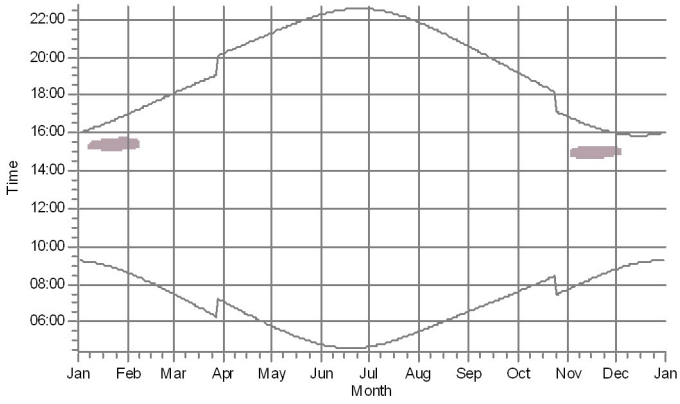
4: V-2_7 (Ventspils-2)



5: V-2_8 (Ventspils-2)



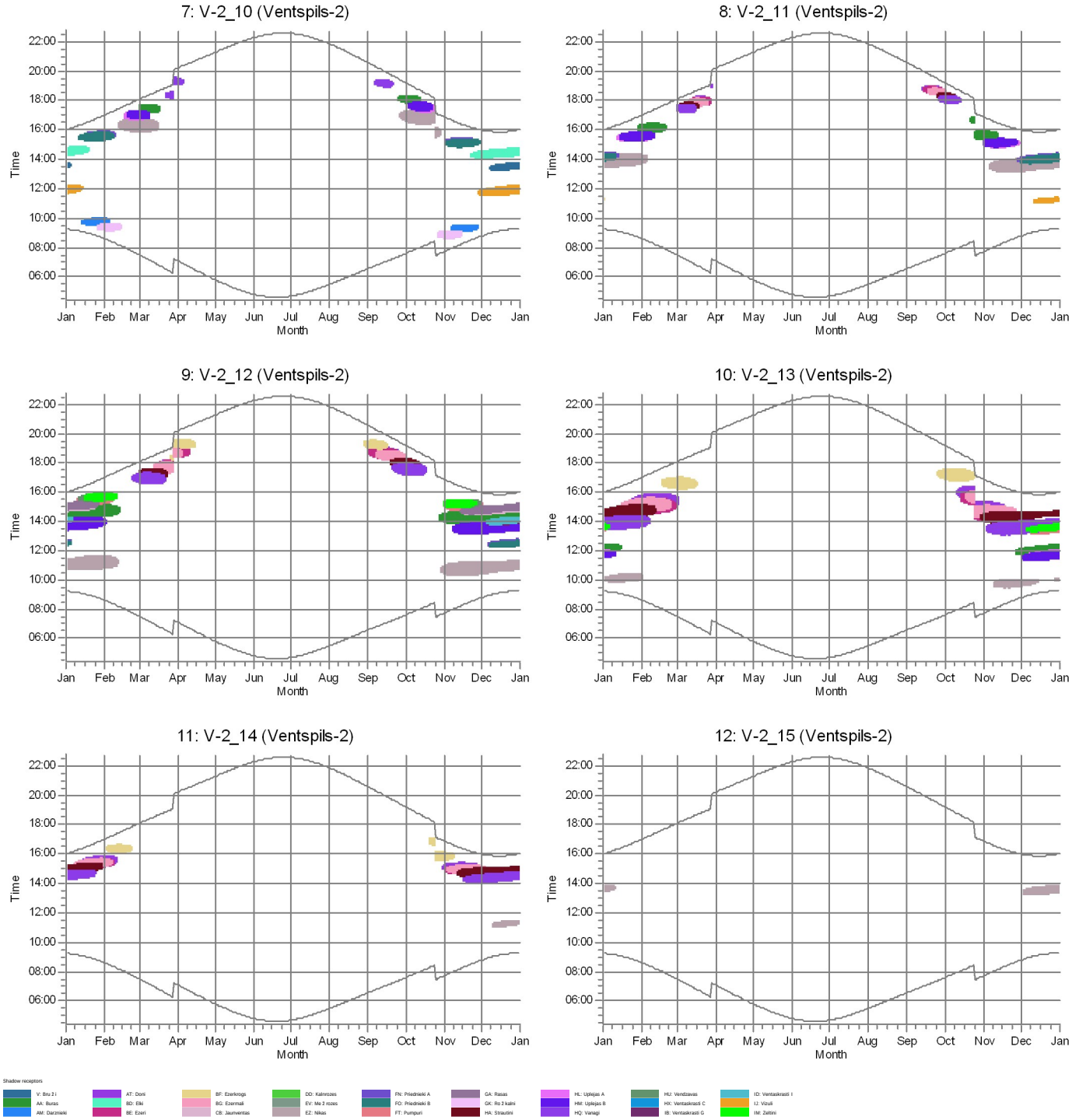
6: V-2_9 (Ventspils-2)





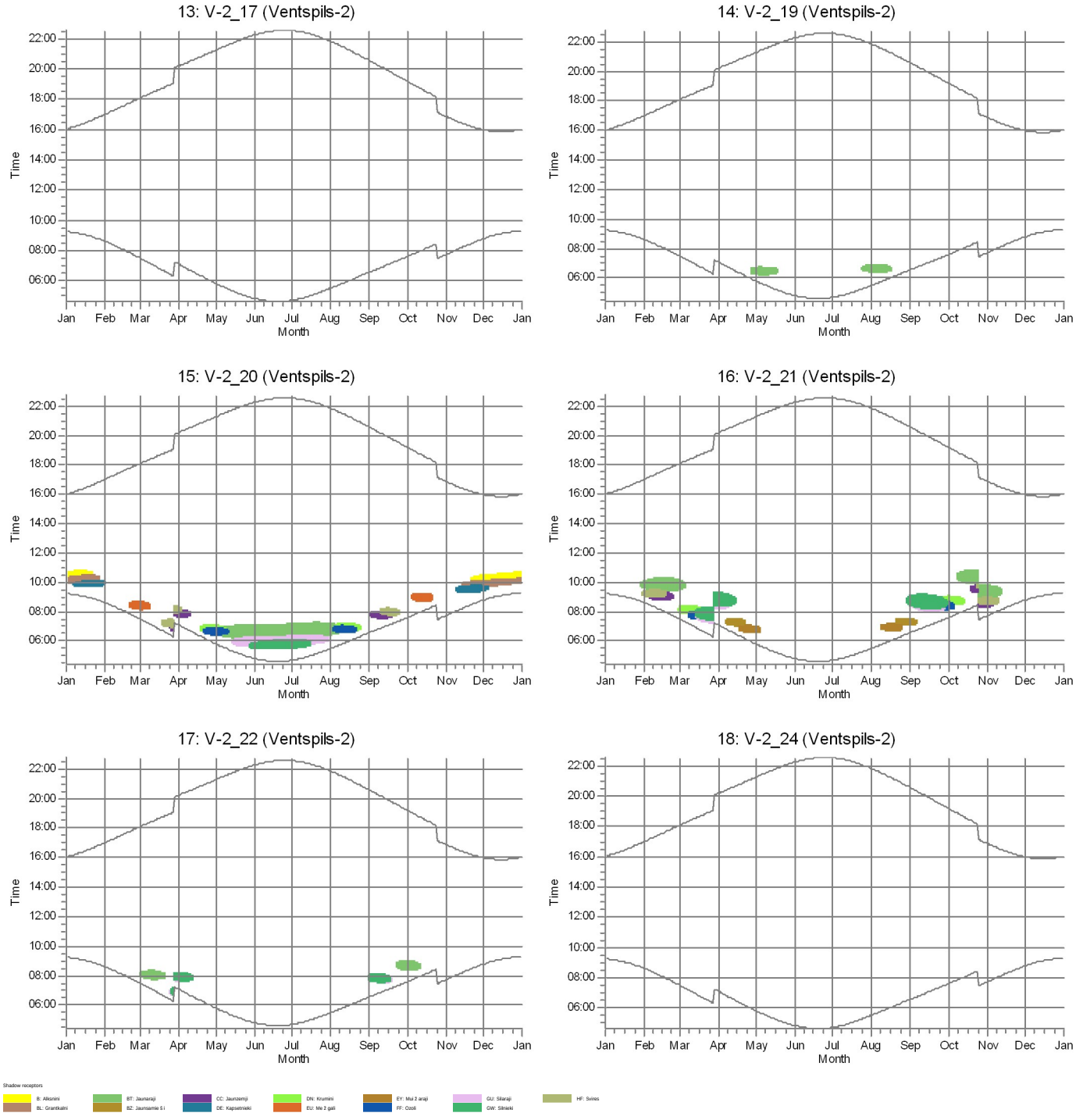
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG, graphical



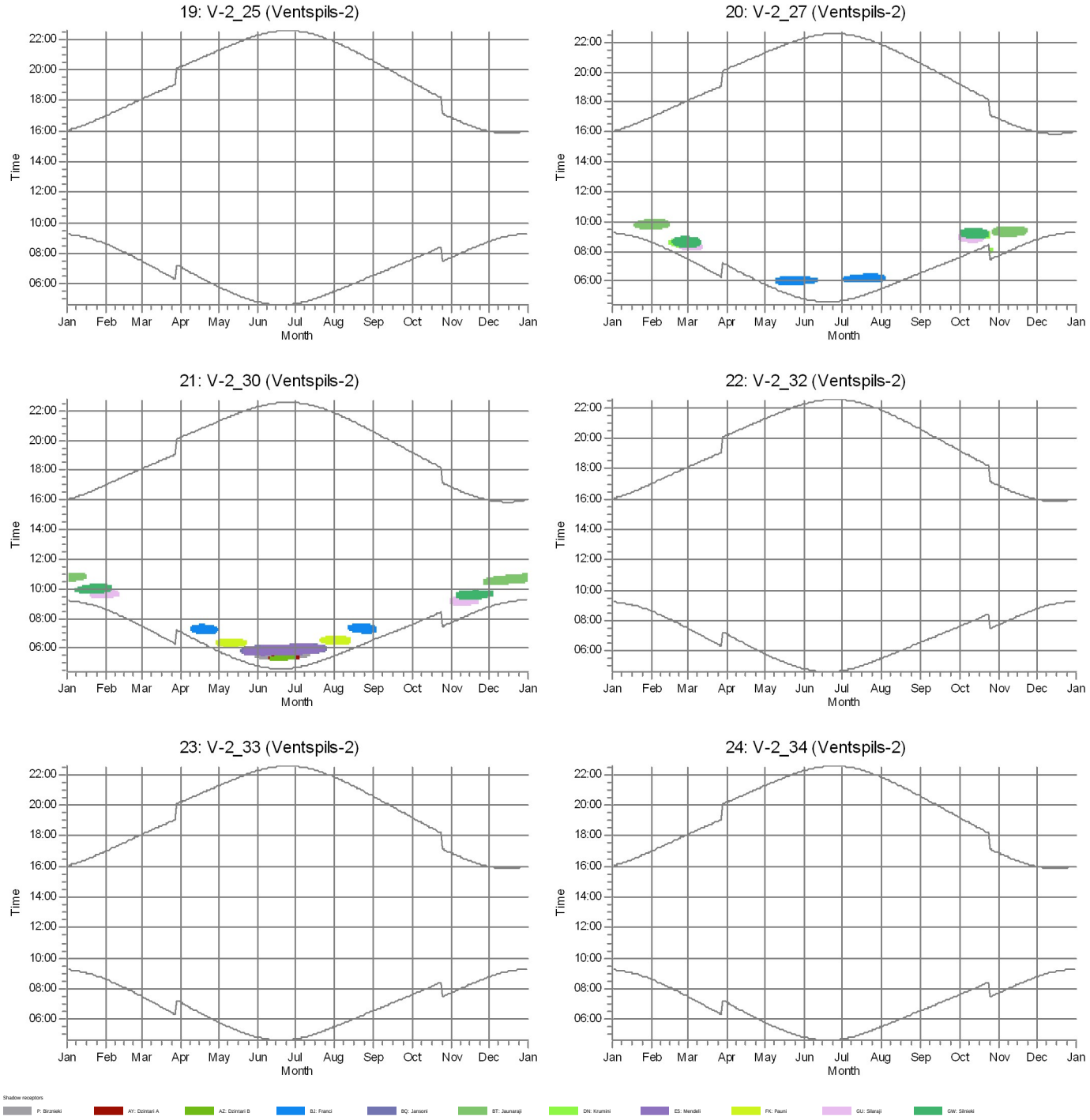
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

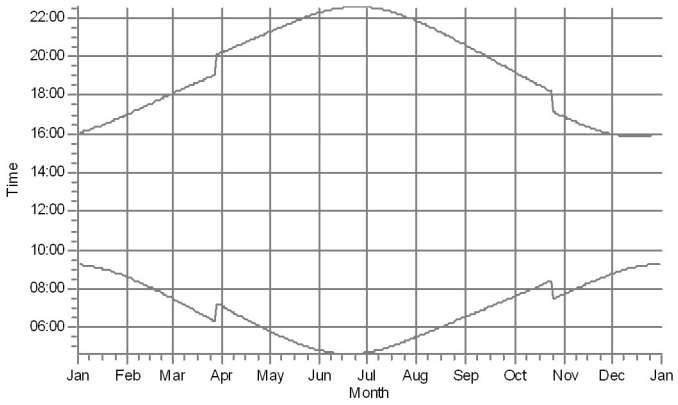
SHADOW - Calendar per WTG, graphical



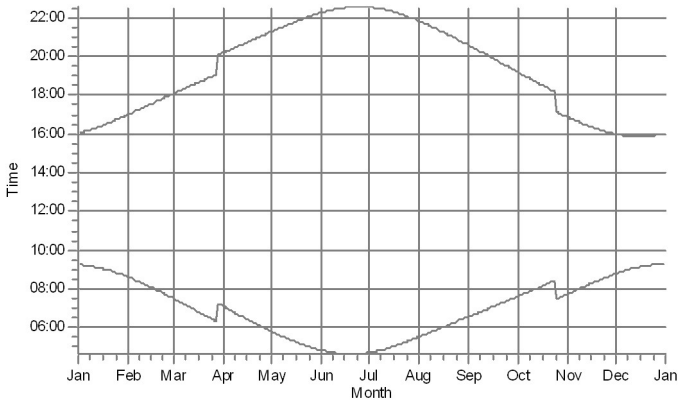
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG, graphical

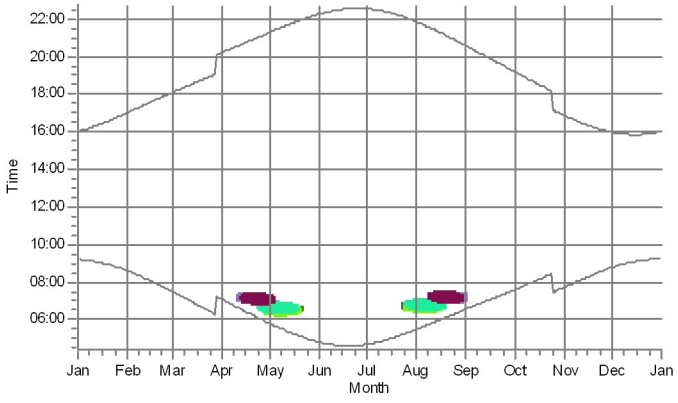
25: V-2_35 (Ventspils-2)



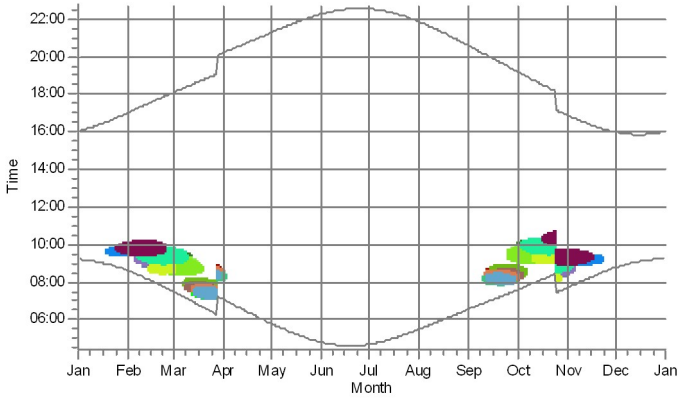
26: V-2_36 (Ventspils-2)



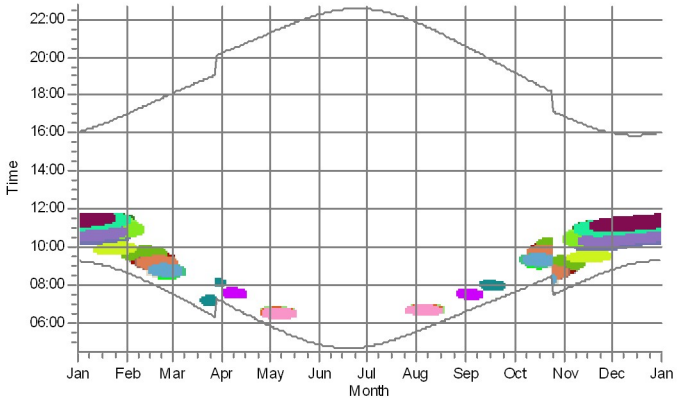
27: V-2_37 (Ventspils-2)



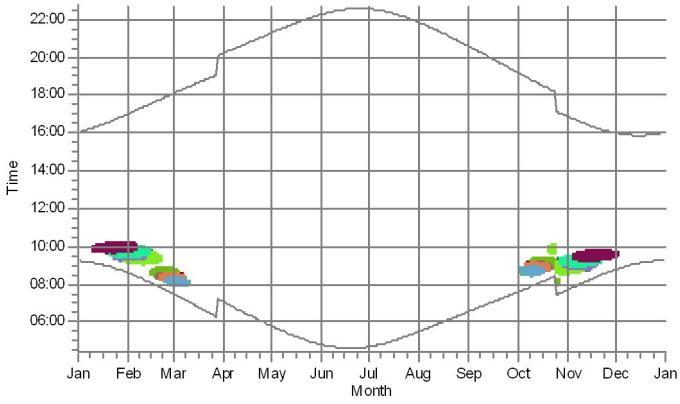
28: V-2_40 (Ventspils-2)



29: V-2_41 (Ventspils-2)



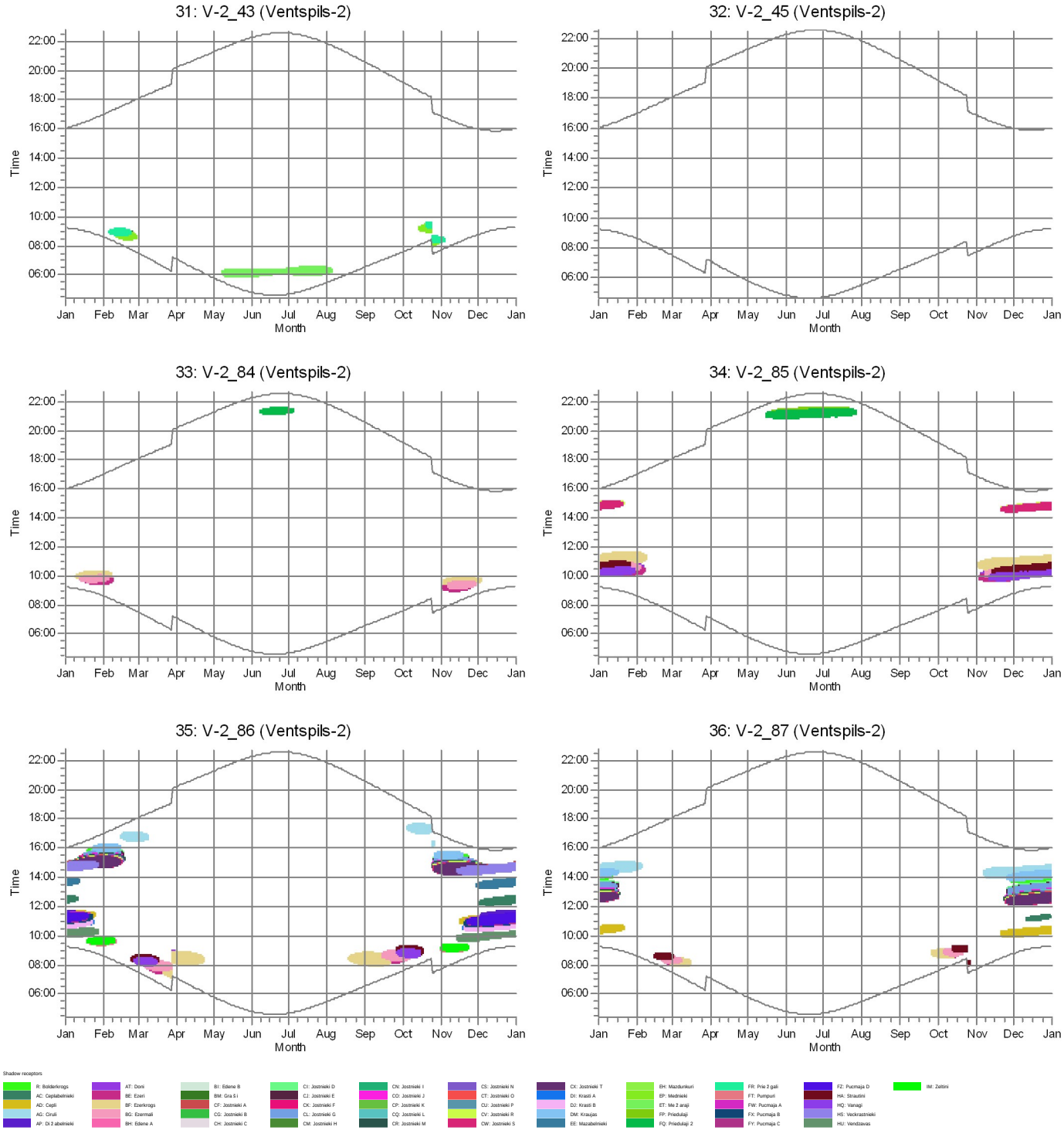
30: V-2_42 (Ventspils-2)





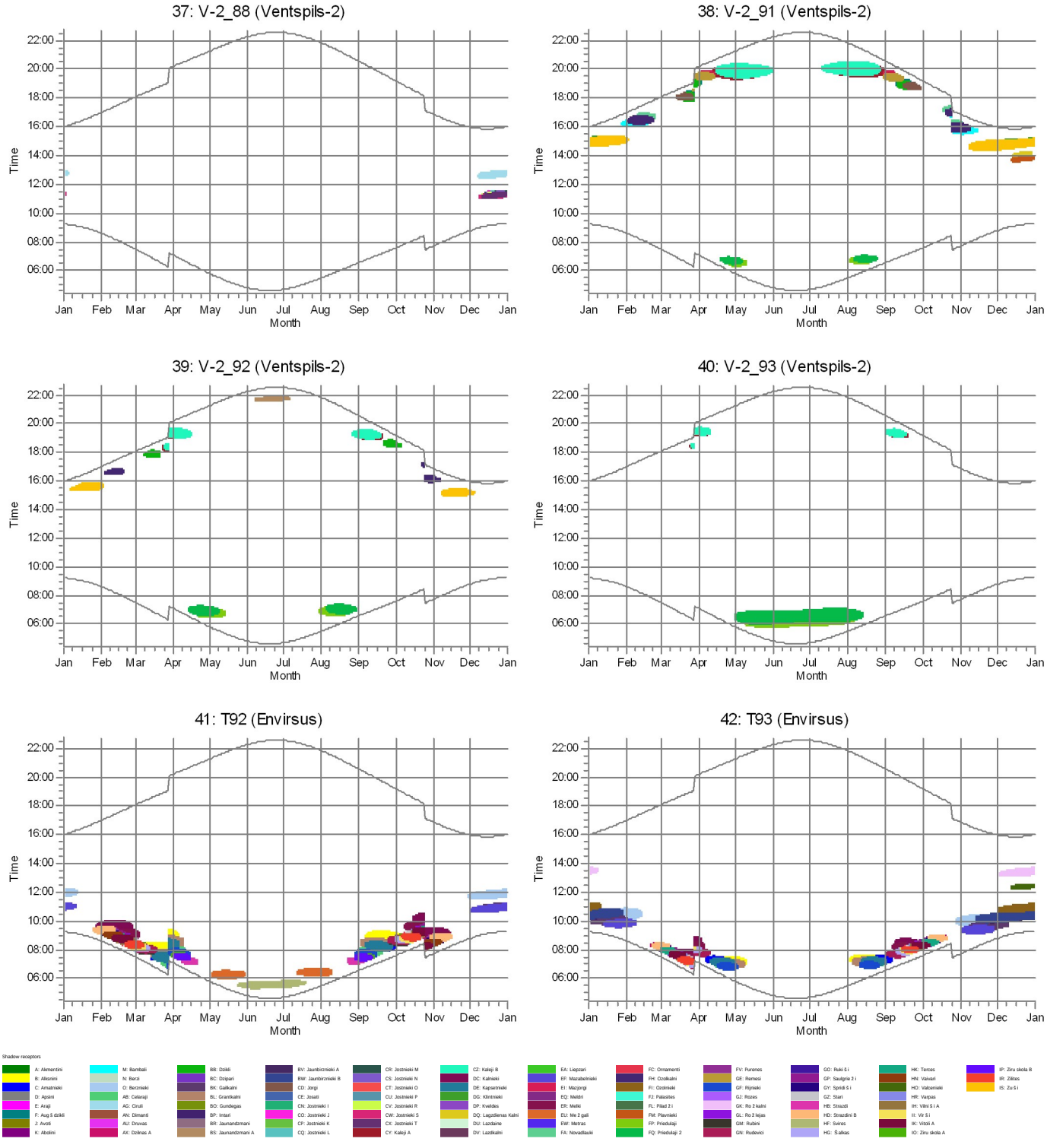
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Calendar per WTG, graphical



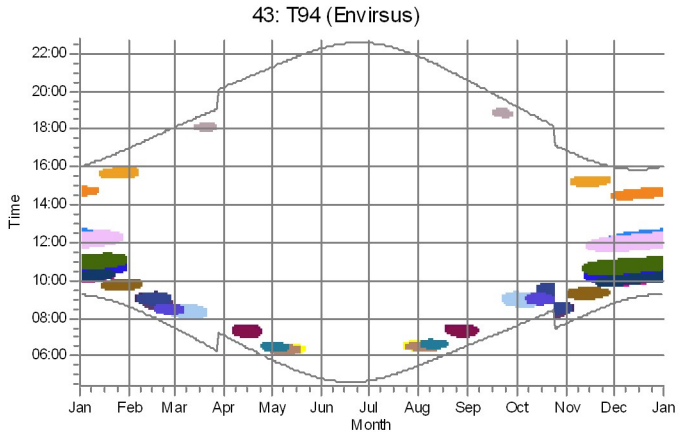
Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

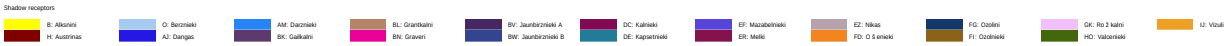
SHADOW - Calendar per WTG, graphical



Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

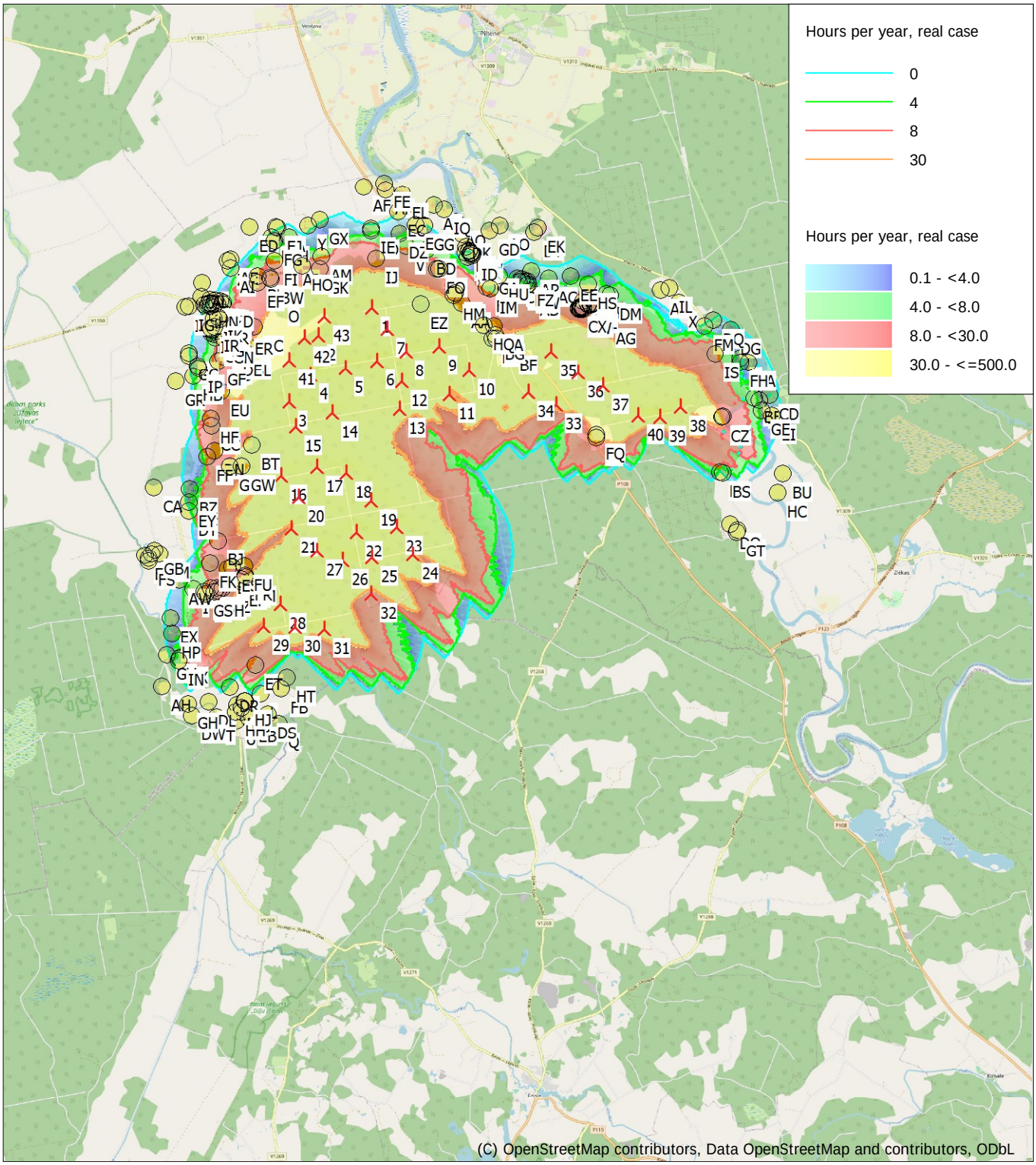
SHADOW - Calendar per WTG, graphical





Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
26.09.2025 07:01/4.1.287

SHADOW - Map



0 2.5 5 7.5 10km

Map: EMD OpenStreetMap , Print scale 1:125 000, Map center Latvian TM LKS92-LKS92 (LV) East: 359 550 North: 332 910

New WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: ground.wpg (1)

Time step: 4 minutes, Day step: 14 days, Map resolution: 30 m, Visibility resolution: 15 m, Eye height: 1.5 m