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SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

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) []

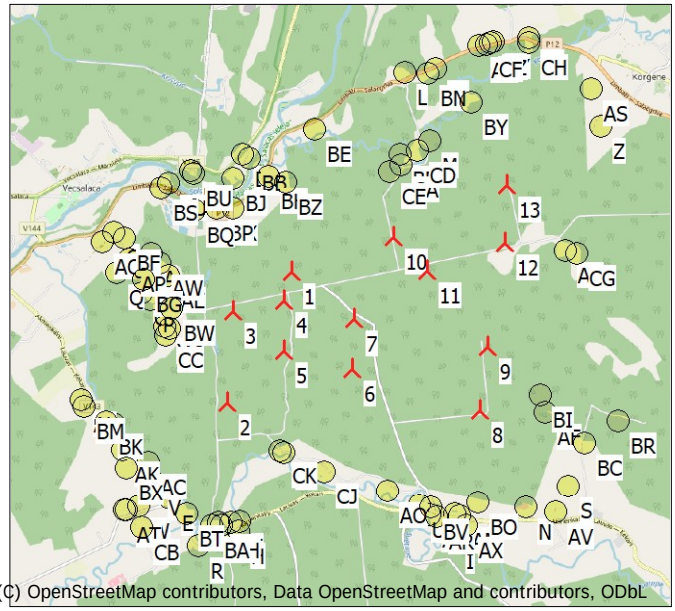
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

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 (7)
Receptor grid resolution: 1,0 m

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



Scale 1:100 000
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	527 357	400 505	26,4	VES "Senlejas"	No	GENVIND	VES-8 000	8 000	140,0	130,0	2 176	16,0
2	526 509	398 765	23,8	Z1	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
3	526 578	399 986	24,0	Z2	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
4	527 252	400 134	26,3	Z3	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
5	527 258	399 468	26,0	Z4	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
6	528 156	399 224	26,7	Z5	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
7	528 185	399 896	28,5	Z6	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
8	529 862	398 686	31,5	Z9	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	175,0	2 344	16,0
9	529 954	399 532	30,1	Z10	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
10	528 702	400 976	29,2	Z12	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
11	529 153	400 543	28,2	Z13	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
12	530 179	400 913	30,5	Z16	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	200,0	2 342	16,0
13	530 196	401 685	32,3	Z17	Yes	NORDEX	N175/6.X-8 000	8 000	200,0	175,0	2 344	16,0

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	Aiviekstes	525 480	400 742	16,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
B	Akmengravas	524 996	398 481	13,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
C	Atputas	524 977	401 018	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
D	Ausekli	526 691	402 050	22,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
E	Auzinas	525 750	397 491	15,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
F	Avotkalni (A)	526 678	397 192	23,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
G	Avotkalni (B)	526 568	397 181	19,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
H	Avotkalni 1	526 669	397 069	23,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
I	Bez nosaukuma (A)	529 534	397 023	32,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
J	Bez nosaukuma (B)	525 174	397 346	13,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
K	Bezdeligas Ligzda	525 994	401 833	20,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
L	Birztalinas	528 840	403 158	33,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
M	Birzuli	529 172	402 254	30,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
N	Caunites	530 478	397 407	36,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
O	Cerini 2	525 358	400 220	15,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
P	Drupas	525 471	400 124	16,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5

To be continued on next page...

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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]
Q	Dundagas	525 026	400 485	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
R	Duneni	526 129	396 865	17,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
S	Eglites	531 045	397 696	39,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
T	Einbluti	529 546	397 309	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
U	Ilgupils	529 075	397 432	21,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
V	Indrani	525 570	397 701	15,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
W	Jaunauzinas	525 341	397 395	14,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
X	Jaunjeceni	526 563	401 353	21,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
Y	Jaunkastanas	525 669	399 774	17,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
Z	Jaunspringi	531 449	402 465	35,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AA	Jaunterces	526 770	402 005	22,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AB	Jaunto š eni	530 976	400 817	34,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AC	Jaunupites	525 453	397 980	15,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AD	Jemekli	529 815	403 515	31,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AE	Kalnmalas	525 716	400 446	17,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AF	Kardes	530 727	398 674	36,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AG	Kraukli (A)	526 404	397 178	18,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AH	Kraukli (B)	526 431	397 149	17,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AI	Krivas	529 241	403 207	34,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AJ	Krusteici	525 734	399 745	17,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AK	Krumini	525 120	398 136	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AL	Kudlei š i	524 561	398 799	11,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AM	Kuikules magazina	529 606	397 295	31,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AN	Kuikuli	529 203	397 297	29,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AO	Kilzumi	528 642	397 619	23,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AP	Lapskalni	525 182	400 666	14,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AQ	Leinieki	524 841	400 889	13,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AR	Lielkuikuli	529 293	397 279	29,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AS	Lielspringi	531 305	402 957	33,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AT	Liepavoti	525 144	397 327	13,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AU	Lojas	525 710	401 675	19,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AV	Mazjesperi	530 883	397 354	38,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AW	Mazkaleji	525 603	400 609	17,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AX	Mazkuikuli	529 699	397 154	35,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AY	Mazspridi š i (A)	530 011	403 563	34,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
AZ	Mazspridi š i (B)	529 962	403 551	33,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BA	Medni	526 317	397 137	19,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BB	Me ž meiniki	526 778	402 010	22,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BC	Namdari	531 253	398 274	38,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BD	Norinas	528 768	402 073	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BE	Olki	527 636	402 396	25,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BF	Paegli	525 121	400 942	14,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BG	Pavasari	525 383	400 397	16,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BH	Pavuli	527 026	401 775	22,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BI	Plesini	530 664	398 903	36,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BJ	Pucites	526 553	401 739	21,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BK	Raudupes	524 905	398 517	13,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BL	Rudzi š i 1	530 473	403 630	31,1	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BM	Saulkrasti	524 605	398 709	11,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BN	Silkaleji	529 147	403 146	34,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BO	Silkalni	529 852	397 464	35,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BP	Silveveri	526 342	401 352	22,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BQ	Smilgas	526 056	401 315	20,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BR	Soles	531 696	398 570	39,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BS	Stienu ž i	525 610	401 610	19,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BT	Straujupites	525 980	397 282	16,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BU	Sunuki	526 033	401 800	20,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BV	Svetupe	529 217	397 397	27,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BW	Tamisari	525 755	400 019	17,8	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BX	Tomsoni	525 170	397 900	14,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BY	Tuiskas	529 716	402 772	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
BZ	Urgas	527 268	401 692	22,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CA	Vaverites	528 791	401 939	30,6	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CB	Vecjennas	525 380	397 106	14,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5

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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]
CC	Veckastani	525 682	399 657	17,4	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CD	Vecmelderi	529 002	402 124	29,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CE	Vecsilupites	528 641	401 842	30,0	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CF	Vecspridi š i	529 913	403 537	32,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CG	Vecto š eni	531 132	400 781	35,5	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CH	Vecupites	530 474	403 557	29,7	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CI	Vedamurgas	527 257	398 125	21,3	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CJ	Vejini	527 799	397 858	21,9	1,5	1,5	1,0	90,0	"Green house mode"	2,5
CK	Zvaigznes	527 206	398 136	21,2	1,5	1,5	1,0	90,0	"Green house mode"	2,5

Calculation Results

Shadow receptor

No.	Name	Shadow, expected values Shadow hours per year [h/year]
A	Aiviekstes	10:21
B	Akmengravas	8:15
C	Atputas	2:11
D	Ausekli	2:01
E	Auzinas	0:00
F	Avotkalni (A)	0:00
G	Avotkalni (B)	0:00
H	Avotkalni 1	0:00
I	Bez nosaukuma (A)	0:00
J	Bez nosaukuma (B)	0:00
K	Bezdeligas Ligzda	2:12
L	Birztalinas	1:10
M	Birzuli	10:11
N	Caunites	0:00
O	Cerini 2	17:30
P	Drupas	22:20
Q	Dundagas	7:40
R	Duneni	0:00
S	Eglites	4:09
T	Einbluti	0:00
U	Ilgupils	0:00
V	Indrani	0:00
W	Jaunauzinas	0:00
X	Jaunjeceni	8:43
Y	Jaunkastanas	47:13
Z	Jaunspringi	5:13
AA	Jaunterces	2:06
AB	Jaunto š eni	46:01
AC	Jaunupites	10:30
AD	Jemekli	0:02
AE	Kalnmalas	20:24
AF	Kardes	23:22
AG	Kraukli (A)	0:00
AH	Kraukli (B)	0:00
AI	Krivas	1:47
AJ	Krusteici	60:06
AK	Krumini	14:50
AL	Kudlei š i	10:06
AM	Kuikules magazina	0:00
AN	Kuikuli	0:00
AO	Kilzumi	3:10
AP	Lapskalni	7:30
AQ	Leinieki	2:14
AR	Lielkuikuli	0:00
AS	Lielspringi	2:57
AT	Liepavoti	0:00
AU	Lojas	3:02

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.	Name	Shadow, expected values Shadow hours per year [h/year]
AV	Mazjesperi	0:00
AW	Mazkaleji	13:50
AX	Mazkuikuli	0:00
AY	Mazspridi š i (A)	0:00
AZ	Mazspridi š i (B)	0:00
BA	Medni	0:00
BB	Me ž meiniki	2:04
BC	Namdari	10:11
BD	Norinas	9:00
BE	Olki	1:35
BF	Paegli	4:29
BG	Pavasari	15:34
BH	Pavuli	4:44
BI	Plesini	18:15
BJ	Pucites	4:34
BK	Raudupes	9:08
BL	Rudzi š i 1	0:00
BM	Saulkrasti	4:07
BN	Silkaleji	1:43
BO	Silkalni	0:00
BP	Silveveri	5:17
BQ	Smilgas	6:35
BR	Soles	12:24
BS	Stienu ž i	3:29
BT	Straujupites	0:00
BU	Sunuki	2:18
BV	Svetupe	0:00
BW	Tamisari	41:41
BX	Tomsoni	13:44
BY	Tuiskas	4:10
BZ	Urgas	7:18
CA	Vaverites	11:22
CB	Vecjennas	0:00
CC	Veckastani	54:36
CD	Vecmelderi	10:33
CE	Vecsilupites	11:40
CF	Vecspridi š i	0:00
CG	Vecto š eni	28:37
CH	Vecupites	0:00
CI	Vedamurgas	0:00
CJ	Vejini	13:42
CK	Zvaigznes	0:00

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

No.	Name	Expected [h/year]
1	VES "Senlejas"	27:35
2	Z1	67:04
3	Z2	133:36
4	Z3	49:36
5	Z4	26:06
6	Z5	0:00
7	Z6	3:40
8	Z9	65:13
9	Z10	12:03
10	Z12	15:57
11	Z13	9:12
12	Z16	51:58
13	Z17	37:26

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.

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Maza Nometnu iela 31
LV-1002 Riga
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SIA Enviroprojekts
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SHADOW - Calendar

Shadow receptor: A - Aiviekstes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May		June	
1	09:07		10:16 (2)	08:27			07:20		07:50 (4)	06:54			05:34		04:33	
	15:46	22	10:38 (2)	16:46			17:52	36	09:07 (3)	20:01			21:08		22:09	
2	09:06		10:16 (2)	08:25			07:17		07:46 (4)	06:51			05:31		04:32	
	15:47	22	10:38 (2)	16:49			17:54	41	09:06 (3)	20:04			21:10		22:10	
3	09:06		10:16 (2)	08:23			07:14		07:44 (4)	06:48			05:29		04:31	
	15:48	22	10:38 (2)	16:51			17:57	42	09:04 (3)	20:06			21:12		22:12	
4	09:06		10:16 (2)	08:21			07:12		07:43 (4)	06:46			05:27		04:30	
	15:50	22	10:38 (2)	16:53			17:59	40	09:02 (3)	20:08			21:14		22:13	
5	09:05		10:18 (2)	08:19		08:50 (5)	07:09		07:42 (4)	06:43			05:24		04:28	
	15:51	21	10:39 (2)	16:56	5	08:55 (5)	18:01	36	08:59 (3)	20:10			21:16		22:15	
6	09:04		10:18 (2)	08:17		08:48 (5)	07:06		07:41 (4)	06:40			05:22		04:27	
	15:53	21	10:39 (2)	16:58	10	08:58 (5)	18:04	23	08:04 (4)	20:12			21:19		22:16	
7	09:04		10:19 (2)	08:14		08:45 (5)	07:04		07:40 (4)	06:37			05:20		04:27	
	15:54	21	10:40 (2)	17:00	14	08:59 (5)	18:06	24	08:04 (4)	20:15			21:21		22:17	
8	09:03		10:19 (2)	08:12		08:44 (5)	07:01		07:40 (4)	06:35			05:17		04:26	
	15:56	21	10:40 (2)	17:03	17	09:01 (5)	18:08	24	08:04 (4)	20:17			21:23		22:18	
9	09:02		10:19 (2)	08:10		08:42 (5)	06:58		07:40 (4)	06:32			05:15		04:25	
	15:58	20	10:39 (2)	17:05	19	09:01 (5)	18:10	25	08:05 (4)	20:19			21:25		22:19	
10	09:01		10:20 (2)	08:08		08:42 (5)	06:55		07:40 (4)	06:29			05:13		04:24	
	15:59	20	10:40 (2)	17:08	21	09:03 (5)	18:13	24	08:04 (4)	20:21			21:27		22:21	
11	09:00		10:21 (2)	08:05		08:42 (5)	06:53		07:40 (4)	06:26			05:11		04:24	
	16:01	19	10:40 (2)	17:10	21	09:03 (5)	18:15	23	08:03 (4)	20:23			21:29		22:22	
12	08:59		10:22 (2)	08:03		08:42 (5)	06:50		07:40 (4)	06:24			05:08		04:23	
	16:03	17	10:39 (2)	17:12	22	09:04 (5)	18:17	22	08:02 (4)	20:26			21:31		22:22	
13	08:58		10:23 (2)	08:00		08:42 (5)	06:47		07:41 (4)	06:21			05:06		04:23	
	16:05	16	10:39 (2)	17:15	23	09:05 (3)	18:19	20	08:01 (4)	20:28			21:34		22:23	
14	08:57		10:24 (2)	07:58		08:41 (5)	06:44		07:43 (4)	06:18			05:04		04:22	
	16:07	14	10:38 (2)	17:17	25	09:06 (3)	18:22	17	08:00 (4)	20:30			21:36		22:24	
15	08:56		10:26 (2)	07:56		08:41 (3)	06:41		07:08 (1)	06:15			05:02		04:22	
	16:09	12	10:38 (2)	17:19	27	09:08 (3)	18:24	17	07:57 (4)	20:32			21:38		22:25	
16	08:55		10:27 (2)	07:53		08:40 (3)	06:39		07:05 (1)	06:13			05:00		04:21	
	16:11	10	10:37 (2)	17:22	29	09:09 (3)	18:26	14	07:53 (4)	20:34			21:40		22:25	
17	08:53		10:30 (2)	07:51		08:40 (3)	06:36		07:02 (1)	06:10			04:58		04:21	
	16:13	4	10:34 (2)	17:24	30	09:10 (3)	18:28	11	07:13 (1)	20:37			21:42		22:26	
18	08:52			07:48		08:39 (3)	06:33		06:59 (1)	06:07			04:56		04:21	
	16:15			17:26	32	09:11 (3)	18:30	14	07:13 (1)	20:39			21:44		22:27	
19	08:50			07:46		08:38 (3)	06:30		06:56 (1)	06:05			04:54		04:21	
	16:17			17:29	33	09:11 (3)	18:33	17	07:13 (1)	20:41			21:46		22:27	
20	08:49			07:43		08:38 (3)	06:28		06:56 (1)	06:02			04:52		04:21	
	16:19			17:31	34	09:12 (3)	18:35	17	07:13 (1)	20:43			21:48		22:27	
21	08:47			07:41		08:37 (3)	06:25		06:56 (1)	05:59			04:50		04:21	
	16:21			17:34	35	09:12 (3)	18:37	16	07:12 (1)	20:46			21:50		22:28	
22	08:46			07:38		08:37 (3)	06:22		06:57 (1)	05:57			04:48		04:21	
	16:23			17:36	34	09:11 (3)	18:39	14	07:11 (1)	20:48			21:52		22:28	
23	08:44			07:36		08:37 (3)	06:19		06:57 (1)	05:54			04:47		04:22	
	16:26			17:38	35	09:12 (3)	18:42	13	07:10 (1)	20:50			21:54		22:28	
24	08:42			07:33		08:37 (3)	06:16		06:59 (1)	05:52			04:45		04:22	
	16:28			17:41	34	09:11 (3)	18:44	8	07:07 (1)	20:52			21:55		22:28	
25	08:41			07:30		08:37 (3)	06:14			05:49			04:43		04:22	
	16:30			17:43	34	09:11 (3)	18:46			20:54			21:57		22:28	
26	08:39			07:28		08:37 (3)	06:11			05:46			04:42		04:23	
	16:32			17:45	33	09:10 (3)	18:48			20:57			21:59		22:28	
27	08:37			07:25		08:38 (3)	06:08			05:44			04:40		04:23	
	16:35			17:47	32	09:10 (3)	18:50			20:59			22:01		22:28	
28	08:35			07:22		08:38 (3)	06:05			05:41			04:39		04:24	
	16:37			17:50	31	09:09 (3)	18:53			21:01			22:02		22:28	
29	08:33						07:02			05:39			04:37		04:25	
	16:39						19:55			21:03			22:04		22:27	
30	08:31						07:00			05:36			04:36		04:25	
	16:42						19:57			21:05			22:06		22:27	
31	08:29						06:57						04:34			
	16:44						19:59						22:07			
Potential sun hours	227			262			365			429			515		539	
Total, worst case		304			630			538								
Sun reduction		0,13			0,22			0,37								
Oper. time red.		0,93			0,93			0,93								
Wind dir. red.		0,42			0,79			0,92								
Total reduction		0,05			0,16			0,31								
Total, real		16			103			168								

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: A - Aiviekstes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:25		08:20 (4)	07:34		08:12 (5)	08:39		10:04 (2)
	22:26		21:42		20:24			19:00	21	08:41 (4)	16:38	20	08:32 (5)	15:43	18	10:22 (2)
2	04:27		05:17		06:23			07:27		08:18 (4)	07:36		08:12 (5)	08:41		10:04 (2)
	22:26		21:39		20:21			18:57	23	08:41 (4)	16:36	19	08:31 (5)	15:42	19	10:23 (2)
3	04:28		05:19		06:25			07:29		08:18 (4)	07:38		08:13 (5)	08:43		10:04 (2)
	22:25		21:37		20:18			18:54	24	08:42 (4)	16:34	18	08:31 (5)	15:41	19	10:23 (2)
4	04:29		05:22		06:27			07:31		08:17 (4)	07:41		08:15 (5)	08:45		10:04 (2)
	22:24		21:35		20:15			18:51	25	08:42 (4)	16:31	14	08:29 (5)	15:41	20	10:24 (2)
5	04:30		05:24		06:30			07:33		08:17 (4)	07:43		08:18 (5)	08:46		10:04 (2)
	22:24		21:33		20:13			18:49	24	08:41 (4)	16:29	10	08:28 (5)	15:40	21	10:25 (2)
6	04:31		05:26		06:32			07:35		08:16 (4)	07:45		08:21 (5)	08:48		10:04 (2)
	22:23		21:30		20:10			18:46	25	08:41 (4)	16:27	4	08:25 (5)	15:39	22	10:26 (2)
7	04:32		05:28		06:34			07:38		08:17 (4)	07:48			08:49		10:04 (2)
	22:22		21:28		20:07			18:43	24	08:41 (4)	16:24			15:38	21	10:25 (2)
8	04:34		05:30		06:36			07:40		08:17 (4)	07:50			08:51		10:04 (2)
	22:21		21:26		20:04			18:40	32	09:32 (3)	16:22			15:38	22	10:26 (2)
9	04:35		05:32		06:38			07:42		08:17 (4)	07:52			08:52		10:05 (2)
	22:20		21:23		20:01			18:38	38	09:35 (3)	16:20			15:37	22	10:27 (2)
10	04:36		05:34		06:40			07:44		08:18 (4)	07:55			08:54		10:05 (2)
	22:19		21:21		19:59			18:35	40	09:37 (3)	16:18			15:36	22	10:27 (2)
11	04:38		05:36		06:42			07:46		08:20 (4)	07:57			08:55		10:06 (2)
	22:18		21:18		19:56			18:32	40	09:39 (3)	16:16			15:36	22	10:28 (2)
12	04:39		05:38		06:44			07:49		08:21 (4)	07:59			08:56		10:06 (2)
	22:17		21:16		19:53			18:29	39	09:40 (3)	16:14			15:36	22	10:28 (2)
13	04:41		05:41		06:47			07:51		08:25 (4)	08:01			08:58		10:06 (2)
	22:15		21:14		19:50			18:27	33	09:41 (3)	16:12			15:35	22	10:28 (2)
14	04:42		05:43		06:49			07:53		09:11 (3)	08:04			08:59		10:07 (2)
	22:14		21:11		19:47			18:24	31	09:42 (3)	16:10			15:35	22	10:29 (2)
15	04:44		05:45		06:51			07:55		09:10 (3)	08:06			09:00		10:07 (2)
	22:13		21:09		19:45			18:21	32	09:42 (3)	16:08			15:35	23	10:30 (2)
16	04:45		05:47		06:53			07:57		09:09 (3)	08:08			09:01		10:08 (2)
	22:11		21:06		19:42			18:19	33	09:42 (3)	16:06			15:35	22	10:30 (2)
17	04:47		05:49		06:55			08:00		09:09 (3)	08:10			09:02		10:08 (2)
	22:10		21:04		19:39			18:16	34	09:43 (3)	16:04			15:35	23	10:31 (2)
18	04:49		05:51		06:57			08:02		09:08 (3)	08:13			09:03		10:09 (2)
	22:08		21:01		19:36			18:13	35	09:43 (3)	16:02			15:35	22	10:31 (2)
19	04:50		05:53		06:59		07:47 (1)	08:04		09:07 (3)	08:15			09:03		10:08 (2)
	22:06		20:58		19:33	7	07:54 (1)	18:11	35	09:42 (3)	16:01			15:36	23	10:31 (2)
20	04:52		05:55		07:01		07:44 (1)	08:06		09:08 (3)	08:17			09:04		10:09 (2)
	22:05		20:56		19:31	12	07:56 (1)	18:08	34	09:42 (3)	15:59			15:36	23	10:32 (2)
21	04:54		05:58		07:03		07:43 (1)	08:09		09:07 (3)	08:19			09:05		10:10 (2)
	22:03		20:53		19:28	14	07:57 (1)	18:06	35	09:42 (3)	15:57			15:36	23	10:33 (2)
22	04:56		06:00		07:05		07:41 (1)	08:11		09:08 (3)	08:21			09:05		10:10 (2)
	22:01		20:51		19:25	16	07:57 (1)	18:03	34	09:42 (3)	15:56			15:37	23	10:33 (2)
23	04:58		06:02		07:08		07:40 (1)	08:13		09:08 (3)	08:23			09:06		10:11 (2)
	22:00		20:48		19:22	17	07:57 (1)	18:00	33	09:41 (3)	15:54			15:37	23	10:34 (2)
24	04:59		06:04		07:10		07:40 (1)	08:15		09:09 (3)	08:25			09:06		10:11 (2)
	21:58		20:45		19:19	17	07:57 (1)	17:58	32	09:41 (3)	15:53			15:38	23	10:34 (2)
25	05:01		06:06		07:12		07:41 (1)	07:18		08:09 (3)	08:28		10:09 (2)	09:07		10:12 (2)
	21:56		20:43		19:16	15	07:56 (1)	16:55	30	08:39 (3)	15:51	3	10:12 (2)	15:38	22	10:34 (2)
26	05:03		06:08		07:14		07:43 (1)	07:20		08:10 (3)	08:30		10:07 (2)	09:07		10:12 (2)
	21:54		20:40		19:14	12	07:55 (1)	16:53	29	08:39 (3)	15:50	9	10:16 (2)	15:39	22	10:34 (2)
27	05:05		06:10		07:16		07:46 (1)	07:22		08:11 (5)	08:32		10:05 (2)	09:07		10:12 (2)
	21:52		20:37		19:11	9	07:55 (1)	16:50	26	08:37 (3)	15:48	12	10:17 (2)	15:40	23	10:35 (2)
28	05:07		06:13		07:18		07:48 (1)	07:25		08:12 (5)	08:34		10:04 (2)	09:07		10:13 (2)
	21:50		20:35		19:08	16	08:37 (4)	16:48	24	08:36 (3)	15:47	14	10:18 (2)	15:41	22	10:35 (2)
29	05:09		06:15		07:20		07:50 (1)	07:27		08:11 (5)	08:35		10:03 (2)	09:07		10:14 (2)
	21:48		20:32		19:05	17	08:39 (4)	16:45	23	08:34 (3)	15:46	16	10:19 (2)	15:42	22	10:36 (2)
30	05:11		06:17		07:23		08:21 (4)	07:29		08:11 (5)	08:37		10:04 (2)	09:07		10:14 (2)
	21:46		20:29		19:02	19	08:40 (4)	16:43	22	08:33 (5)	15:45	17	10:21 (2)	15:43	23	10:37 (2)
31	05:13		06:19					07:32		08:11 (5)				09:07		10:14 (2)
	21:44		20:26					16:41	21	08:32 (5)				15:44	23	10:37 (2)
Potential sun hours	538		474		386			321			241			207		
Total, worst case						171			931			156			679	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,97			0,83			0,62			0,42	
Total reduction						0,39			0,24			0,09			0,05	
Total, real						66			221			14			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: B - Akmengravas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	06:52 (2)	04:33	04:26	05:15	06:21	07:03 (2)	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08 17	07:09 (2)	22:09	22:26	21:41	20:24 2	07:05 (2)	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	06:54 (2)	04:32	04:27	05:18	06:23		07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10 13	07:07 (2)	22:10	22:26	21:39	20:21		18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	06:59 (2)	04:31	04:28	05:20	06:25		07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12 3	07:02 (2)	22:12	22:25	21:37	20:18		18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27		04:30	04:29	05:22	06:28		07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14		22:13	22:24	21:35	20:15		18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24		04:29	04:30	05:24	06:30		07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16		22:15	22:24	21:33	20:13		18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22		04:28	04:31	05:26	06:32		07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19		22:16	22:23	21:30	20:10		18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20		04:27	04:33	05:28	06:34		07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21		22:17	22:22	21:28	20:07		18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17		04:26	04:34	05:30	06:36		07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23		22:18	22:21	21:26	20:04		18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15		04:25	04:35	05:32	06:38		07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25		22:19	22:20	21:23	20:01		18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13		04:24	04:36	05:34	07:05 (2)		06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27		22:20	22:19	21:21 8	07:13 (2)		19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	07:04 (2)	05:11		04:24	04:38	05:36	07:02 (2)		06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23 3	07:07 (2)	21:29		22:21	22:18	21:18 14	07:16 (2)		19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	06:58 (2)	05:08		04:23	04:39	05:39	07:00 (2)		06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26 13	07:11 (2)	21:31		22:22	22:16	21:16 18	07:18 (2)		19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	06:56 (2)	05:06		04:23	04:41	05:41	06:58 (2)		06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28 18	07:14 (2)	21:33		22:23	22:15	21:14 21	07:19 (2)		19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	06:53 (2)	05:04		04:22	04:42	05:43	06:57 (2)		06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30 22	07:15 (2)	21:36		22:24	22:14	21:11 23	07:20 (2)		19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	06:52 (2)	05:02		04:22	04:44	05:45	06:56 (2)		06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32 24	07:16 (2)	21:38		22:25	22:12	21:09 25	07:21 (2)		19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	06:51 (2)	05:00		04:22	04:45	05:47	06:55 (2)		06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34 26	07:17 (2)	21:40		22:25	22:11	21:06 27	07:22 (2)		19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	06:49 (2)	04:58		04:21	04:47	05:49	06:54 (2)		06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37 28	07:17 (2)	21:42		22:26	22:10	21:03 28	07:22 (2)		19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	06:49 (2)	04:56		04:21	04:49	05:51	06:53 (2)		06:57	08:02	08:12	09:02
	16:15	17:27	18:31	20:39 29	07:18 (2)	21:44		22:26	22:08	21:01 29	07:22 (2)		19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	06:48 (2)	04:54		04:21	04:51	05:53	06:53 (2)		06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41 30	07:18 (2)	21:46		22:27	22:06	20:58 30	07:23 (2)		19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	06:47 (2)	04:52		04:21	04:52	05:56	06:52 (2)		07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43 30	07:17 (2)	21:48		22:27	22:05	20:56 31	07:23 (2)		19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	06:47 (2)	04:50		04:21	04:54	05:58	06:52 (2)		07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45 31	07:18 (2)	21:50		22:27	22:03	20:53 31	07:23 (2)		19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	06:47 (2)	04:49		04:22	04:56	06:00	06:52 (2)		07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48 30	07:17 (2)	21:52		22:28	22:01	20:50 30	07:22 (2)		19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	06:47 (2)	04:47		04:22	04:58	06:02	06:52 (2)		07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50 30	07:17 (2)	21:53		22:28	21:59	20:48 30	07:22 (2)		19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	06:47 (2)	04:45		04:22	05:00	06:04	06:52 (2)		07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52 30	07:17 (2)	21:55		22:28	21:58	20:45 29	07:21 (2)		19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	06:47 (2)	04:43		04:22	05:02	06:06	06:52 (2)		07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54 29	07:16 (2)	21:57		22:28	21:56	20:43 29	07:21 (2)		19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	06:48 (2)	04:42		04:23	05:03	06:08	06:52 (2)		07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57 27	07:15 (2)	21:59		22:28	21:54	20:40 28	07:20 (2)		19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	06:48 (2)	04:40		04:23	05:05	06:11	06:53 (2)		07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59 26	07:14 (2)	22:01		22:28	21:52	20:37 26	07:19 (2)		19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	06:49 (2)	04:39		04:24	05:07	06:13	06:53 (2)		07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01 24	07:13 (2)	22:02		22:27	21:50	20:34 24	07:17 (2)		19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	06:50 (2)	04:37		04:25	05:09	06:15	06:54 (2)		07:20	07:27	08:35	09:07
	16:39		19:55	21:03 22	07:12 (2)	22:04		22:27	21:48	20:32 22	07:16 (2)		19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	06:50 (2)	04:36		04:26	05:11	06:17	06:56 (2)		07:23	07:29	08:37	09:07
	16:42		19:57	21:05 20	07:10 (2)	22:06		22:27	21:46	20:29 18	07:14 (2)		19:02	16:43	15:45	15:43
31	08:29		06:57			04:35			05:13	06:19	06:58 (2)			07:31		09:07
	16:44		19:59			22:07			21:44	20:26 13	07:11 (2)			16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case				492	33			534	2			
Sun reduction				0,46	0,58			0,55	0,43			
Oper. time red.				0,93	0,93			0,93	0,93			
Wind dir. red.				0,99	0,99			0,99	0,99			
Total reduction				0,42	0,53			0,50	0,40			
Total, real				209	18			268	1			

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: C - Atputas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February		March	April	May	June	July	August	September	October	November	December
1	09:07	08:27		07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46		17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38 3 08:15 (3)	15:43
2	09:06	08:25		07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49		17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23		07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51		17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:06	08:21		07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:45
	15:50	16:53		17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19		07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56		18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17		07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:36	07:45	08:48
	15:53	16:58		18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14		07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:48	08:49
	15:54	17:00		18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12		07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10		06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05		18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	08:41 (3)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55	08:54
	15:59	17:08 6	08:47 (3)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15:36
11	09:00	08:05	08:37 (3)	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10 13	08:50 (3)	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	15:36
12	08:59	08:03	08:36 (3)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59	08:56
	16:03	17:12 16	08:52 (3)	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29	16:14	15:36
13	08:58	08:01	08:34 (3)	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:58
	16:05	17:15 19	08:53 (3)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	15:35
14	08:57	07:58	08:34 (3)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17 21	08:55 (3)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	08:32 (3)	06:42	06:15	05:02	04:22	04:44	05:45	06:51	07:55	09:12 (3) 08:06	09:00
	16:09	17:19 23	08:55 (3)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21 5	09:17 (3) 16:08	15:35
16	08:55	07:53	08:32 (3)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	09:08 (3) 08:08	09:01
	16:11	17:22 23	08:55 (3)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19 13	09:21 (3) 16:06	15:35
17	08:53	07:51	08:32 (3)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	09:06 (3) 08:10	09:02
	16:13	17:24 24	08:56 (3)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16 17	09:23 (3) 16:04	15:35
18	08:52	07:48	08:31 (3)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	09:04 (3) 08:13	09:03
	16:15	17:27 25	08:56 (3)	18:31	20:39	21:44	22:27	22:08	21:01	19:36	18:13 20	09:24 (3) 16:02	15:35
19	08:50	07:46	08:31 (3)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	09:04 (3) 08:15	09:03
	16:17	17:29 24	08:55 (3)	18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11 21	09:25 (3) 16:01	15:36
20	08:49	07:43	08:32 (3)	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	09:03 (3) 08:17	09:04
	16:19	17:31 24	08:56 (3)	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08 22	09:25 (3) 15:59	15:36
21	08:47	07:41	08:32 (3)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	09:02 (3) 08:19	09:05
	16:21	17:34 23	08:55 (3)	18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:06 23	09:25 (3) 15:57	15:36
22	08:46	07:38	08:32 (3)	06:22	05:57	04:48	04:21	04:56	06:00	07:06	08:11	09:02 (3) 08:21	09:05
	16:23	17:36 22	08:54 (3)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03 24	09:26 (3) 15:56	15:37
23	08:44	07:36	08:33 (3)	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	09:01 (3) 08:23	09:06
	16:26	17:38 21	08:54 (3)	18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00 25	09:26 (3) 15:54	15:37
24	08:42	07:33	08:34 (3)	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	09:02 (3) 08:26	09:06
	16:28	17:41 18	08:52 (3)	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58 24	09:26 (3) 15:53	15:38
25	08:41	07:30	08:35 (3)	06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:01 (3) 08:28	09:07
	16:30	17:43 15	08:50 (3)	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55 24	08:25 (3) 15:51	15:38
26	08:39	07:28	08:37 (3)	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:02 (3) 08:30	09:07
	16:32	17:45 11	08:48 (3)	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53 23	08:25 (3) 15:50	15:39
27	08:37	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:02 (3) 08:32	09:07
	16:35	17:48		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50 22	08:24 (3) 15:48	15:40
28	08:35	07:22		06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:03 (3) 08:34	09:07
	16:37	17:50		18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48 21	08:24 (3) 15:47	15:41
29	08:33			07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:04 (3) 08:36	09:07
	16:39			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45 18	08:22 (3) 15:46	15:42
30	08:31			07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:06 (3) 08:37	09:07
	16:42			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43 15	08:21 (3) 15:45	15:43
31	08:29			06:57		04:34		05:13	06:19		07:32	08:07 (3)	09:07
	16:44			19:59		22:07		21:44	20:26		16:41 12	08:19 (3)	15:44
Potential sun hours	227	262		365	429	515	539	538	474	386	321	241	207
Total, worst case			328								329	3	
Sun reduction			0,22								0,31	0,15	
Oper. time red.			0,93								0,93	0,93	
Wind dir. red.			0,82								0,82	0,82	
Total reduction			0,17								0,23	0,12	
Total, real			55								76	0	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: D - Ausekli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March	April	May	June	July	August	September	October			November	December		
1	09:07		10:38 (1)	08:27			07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25			07:34	08:39		
	15:46	28	11:23 (4)	16:46			17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00			16:38	15:43		
2	09:06		10:39 (1)	08:25			07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27			07:36	08:41		
	15:47	25	11:23 (4)	16:48			17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57			16:36	15:42		
3	09:06		10:40 (1)	08:23			07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29			07:38	08:43		
	15:48	21	11:22 (4)	16:51			17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54			16:33	15:41		
4	09:06		10:41 (1)	08:21			07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31			07:41	08:45		
	15:50	18	11:22 (4)	16:53			17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51			16:31	15:40		
5	09:05		11:11 (4)	08:19			07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33			07:43	08:46		11:00 (4)
	15:51	11	11:22 (4)	16:56			18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48			16:29	15:40	4	11:04 (4)
6	09:04		11:12 (4)	08:17			07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35			07:45	08:48		10:59 (4)
	15:53	9	11:21 (4)	16:58			18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46			16:27	15:39	8	11:07 (4)
7	09:04		11:15 (4)	08:14			07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38			07:48	08:49		10:57 (4)
	15:54	4	11:19 (4)	17:00			18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43			16:24	15:38	11	11:08 (4)
8	09:03			08:12			07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40			07:50	08:51		10:30 (1)
	15:56			17:03			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40			16:22	15:37	17	11:10 (4)
9	09:02			08:10			06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42			07:52	08:52		10:29 (1)
	15:57			17:05			18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37			16:20	15:37	21	11:11 (4)
10	09:01			08:08			06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44			07:55	08:54		10:28 (1)
	15:59			17:07			18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35			16:18	15:36	25	11:12 (4)
11	09:00			08:05			06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46			07:57	08:55		10:28 (1)
	16:01			17:10			18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32			16:16	15:36	27	11:13 (4)
12	08:59			08:03			06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:49			07:59	08:56		10:28 (1)
	16:03			17:12			18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29			16:14	15:36	28	11:13 (4)
13	08:58			08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:55 (10)	08:01	08:58		10:27 (1)
	16:05			17:15			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	3	08:58 (10)	16:12	15:35	31	11:14 (4)
14	08:57			07:58			06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:51 (10)	08:04	08:59		10:28 (1)
	16:07			17:17			18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	11	09:02 (10)	16:10	15:35	31	11:15 (4)
15	08:56			07:56		08:25 (10)	06:41	06:15	05:02	04:22	04:43	05:45	06:51	07:55		08:49 (10)	08:06	09:00		10:28 (1)
	16:09			17:19	2	08:27 (10)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	14	09:03 (10)	16:08	15:35	33	11:16 (4)
16	08:55			07:53		08:22 (10)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:47 (10)	08:08	09:01		10:28 (1)
	16:11			17:22	8	08:30 (10)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	17	09:04 (10)	16:06	15:35	34	11:16 (4)
17	08:53			07:51		08:20 (10)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:47 (10)	08:10	09:02		10:29 (1)
	16:13			17:24	12	08:32 (10)	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	18	09:05 (10)	16:04	15:35	33	11:17 (4)
18	08:52			07:48		08:17 (10)	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02		08:45 (10)	08:13	09:03		10:29 (1)
	16:15			17:26	16	08:33 (10)	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	20	09:05 (10)	16:02	15:35	35	11:18 (4)
19	08:50			07:46		08:15 (10)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04		08:45 (10)	08:15	09:03		10:30 (1)
	16:17			17:29	19	08:34 (10)	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	20	09:05 (10)	16:01	15:35	35	11:19 (4)
20	08:49			07:43		08:15 (10)	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06		08:45 (10)	08:17	09:04		10:29 (1)
	16:19			17:31	20	08:35 (10)	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	20	09:05 (10)	15:59	15:36	36	11:18 (4)
21	08:47			07:41		08:14 (10)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:45 (10)	08:19	09:05		10:30 (1)
	16:21			17:33	21	08:35 (10)	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	20	09:05 (10)	15:57	15:36	36	11:19 (4)
22	08:46			07:38		08:14 (10)	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11		08:45 (10)	08:21	09:05		10:30 (1)
	16:23			17:36	20	08:34 (10)	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	20	09:05 (10)	15:55	15:36	36	11:19 (4)
23	08:44			07:35		08:14 (10)	06:19	05:54	04:47	04:21	04:57	06:02	07:08	08:13		08:45 (10)	08:23	09:06		10:31 (1)
	16:25			17:38	20	08:34 (10)	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	19	09:04 (10)	15:54	15:37	36	11:20 (4)
24	08:42			07:33		08:15 (10)	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15		08:48 (10)	08:25	09:06		10:31 (1)
	16:28			17:40	19	08:34 (10)	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15	09:03 (10)	15:52	15:38	36	11:21 (4)
25	08:41			07:30		08:15 (10)	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18		07:50 (10)	08:28	09:07		10:32 (1)
	16:30			17:43	18	08:33 (10)	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	11	08:01 (10)	15:51	15:38	35	11:21 (4)
26	08:39			07:28		08:15 (10)	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20		07:53 (10)	08:30	09:07		10:32 (1)
	16:32			17:45	17	08:32 (10)	18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	7	08:00 (10)	15:50	15:39	35	11:21 (4)
27	08:37			07:25		08:17 (10)	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22			08:32	09:07		10:33 (1)
	16:34			17:47	14	08:31 (10)	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50			15:48	15:40	34	11:21 (4)
28	08:35			07:22		08:19 (10)	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25			08:34	09:07		10:34 (1)
	16:37			17:50	9	08:28 (10)	18:52	21:01	22:02	22:28	21:50	20:34	19:08	16:48			15:47	15:41	33	11:22 (4)
29	08:33						07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27			08:35	09:07		10:35 (1)
	16:39						19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45			15:46	15:42	31	11:22 (4)
30	08:31						06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29			08:37	09:07		10:36 (1)
	16:41						19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43			15:44	15:43	31	11:23 (4)
31	08:29						06:57		04:34		05:13	06:19		07:31				09:07		10:36 (1)
	16:44						19:59		22:07		21:44	20:26		16:40				15:44	29	11:22 (4)
Potential sun hours	227			262			365	429	515	539	539	475	386	321			241	207		
Total, worst case		116			215										215				781	
Sun reduction		0,13			0,22										0,31				0,13	
Oper. time red.		0,93			0,93										0,93				0,93	
Wind dir. red.		0,27			0,86										0,86				0,29	
Total reduction		0,03			0,18										0,25				0,03	
Total, real		4			38										53				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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: E - Auzinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:12	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: F - Avotkalni (A)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
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	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:35
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26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
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	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
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	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
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31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: G - Avotkalni (B)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
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	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
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16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
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17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
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18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
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20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
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22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
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30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: H - Avotkalni 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
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	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
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	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
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	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
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	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
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	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
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	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
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	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
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	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
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20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
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21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: I - Bez nosaukuma (A)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
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	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
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16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
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17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
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22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: J - Bez nosaukuma (B)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
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	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
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16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
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	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: K - Bezdeligas Ligzda

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:07		09:50 (4)	08:27		09:14 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:26 (4)
	15:46	24	11:20 (3)	16:46	15	09:29 (1)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	20	09:46 (4)
2	09:06		09:49 (4)	08:25		09:15 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:27 (4)
	15:47	25	11:20 (3)	16:48	12	09:27 (1)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	25	10:59 (3)
3	09:06		09:48 (4)	08:23		09:17 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		09:28 (4)
	15:48	26	11:19 (3)	16:51	9	09:26 (1)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	28	11:01 (3)
4	09:06		09:48 (4)	08:21		09:21 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:29 (4)
	15:50	27	11:20 (3)	16:53	2	09:23 (1)	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	30	11:03 (3)
5	09:05		09:47 (4)	08:19			07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		09:30 (4)
	15:51	28	11:20 (3)	16:56			18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29			15:40	30	11:04 (3)
6	09:04		09:46 (4)	08:17			07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		09:32 (4)
	15:53	29	11:20 (3)	16:58			18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	30	11:06 (3)
7	09:04		09:45 (4)	08:14			07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48		08:50 (1)	08:49		09:33 (4)
	15:54	29	11:19 (3)	17:00			18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	4	08:54 (1)	15:38	28	11:06 (3)
8	09:03		09:45 (4)	08:12			07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50		08:47 (1)	08:51		09:35 (4)
	15:56	30	11:19 (3)	17:03			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	10	08:57 (1)	15:37	27	11:07 (3)
9	09:02		09:44 (4)	08:10			06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52		08:45 (1)	08:52		09:37 (4)
	15:58	28	11:17 (3)	17:05			18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	13	08:58 (1)	15:37	26	11:08 (3)
10	09:01		09:44 (4)	08:08			06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55		08:45 (1)	08:54		09:38 (4)
	15:59	26	11:16 (3)	17:07			18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	15	09:00 (1)	15:36	25	11:09 (3)
11	09:00		09:44 (4)	08:05			06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		08:44 (1)	08:55		09:40 (4)
	16:01	20	10:04 (4)	17:10			18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	16	09:00 (1)	15:36	24	11:10 (3)
12	08:59		09:44 (4)	08:03			06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59		08:44 (1)	08:56		10:49 (3)
	16:03	20	10:04 (4)	17:12			18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14	21	09:33 (4)	15:36	21	11:10 (3)
13	08:58		09:44 (4)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		08:44 (1)	08:58		10:49 (3)
	16:05	21	10:05 (4)	17:15			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	29	09:37 (4)	15:35	22	11:11 (3)
14	08:57		09:44 (4)	07:58			06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04		08:44 (1)	08:59		10:50 (3)
	16:07	21	10:05 (4)	17:17			18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	32	09:38 (4)	15:35	22	11:12 (3)
15	08:56		09:44 (4)	07:56			06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06		08:44 (1)	09:00		10:50 (3)
	16:09	23	10:07 (4)	17:19			18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	34	09:40 (4)	15:35	22	11:12 (3)
16	08:55		09:44 (4)	07:53			06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		08:46 (1)	09:01		10:50 (3)
	16:11	23	10:07 (4)	17:22			18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	35	09:41 (4)	15:35	23	11:13 (3)
17	08:53		09:45 (4)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		08:49 (1)	09:02		10:51 (3)
	16:13	23	10:08 (4)	17:24			18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	33	09:42 (4)	15:35	23	11:14 (3)
18	08:52		09:45 (4)	07:48			06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13		08:51 (1)	09:03		10:51 (3)
	16:15	23	10:08 (4)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	31	09:42 (4)	15:35	23	11:14 (3)
19	08:50		09:45 (4)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		08:54 (1)	09:03		10:52 (3)
	16:17	23	10:08 (4)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	30	09:44 (4)	15:35	23	11:15 (3)
20	08:49		09:45 (4)	07:43			06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		08:56 (1)	09:04		10:52 (3)
	16:19	23	10:08 (4)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	28	09:44 (4)	15:36	23	11:15 (3)
21	08:47		09:23 (1)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		08:59 (1)	09:05		10:53 (3)
	16:21	25	10:09 (4)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	25	09:45 (4)	15:36	23	11:16 (3)
22	08:46		09:21 (1)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:21 (4)	09:05		10:53 (3)
	16:23	28	10:09 (4)	17:36			18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	24	09:45 (4)	15:37	23	11:16 (3)
23	08:44		09:19 (1)	07:35			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		09:22 (4)	09:06		10:54 (3)
	16:25	30	10:09 (4)	17:38			18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	23	09:45 (4)	15:37	23	11:17 (3)
24	08:42		09:17 (1)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:22 (4)	09:06		10:54 (3)
	16:28	31	10:08 (4)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	23	09:45 (4)	15:38	23	11:17 (3)
25	08:41		09:15 (1)	07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		09:22 (4)	09:07		10:54 (3)
	16:30	33	10:08 (4)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	23	09:45 (4)	15:38	23	11:17 (3)
26	08:39		09:13 (1)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:23 (4)	09:07		10:55 (3)
	16:32	35	10:08 (4)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	23	09:46 (4)	15:39	22	11:17 (3)
27	08:37		09:11 (1)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:23 (4)	09:07		10:55 (3)
	16:35	34	10:07 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	23	09:46 (4)	15:40	23	11:18 (3)
28	08:35		09:12 (1)	07:22			06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34		09:24 (4)	09:07		10:56 (3)
	16:37	32	10:06 (4)	17:50			18:53	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	22	09:46 (4)	15:41	22	11:18 (3)
29	08:33		09:12 (1)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:24 (4)	09:07		10:57 (3)
	16:39	28	10:05 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	21	09:45 (4)	15:42	22	11:19 (3)
30	08:31		09:12 (1)				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		09:26 (4)	09:07		10:58 (3)
	16:41	19	10:00 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	20	09:46 (4)	15:43	21	11:19 (3)
31	08:29		09:13 (1)				06:57		04:34		05:13	06:19		07:32				09:07		10:58 (3)
	16:44	16	09:29 (1)				19:59		22:07		21:44	20:26		16:41				15:44	21	11:19 (3)
Potential sun hours	227			262			365	429	515	539	538	475	386	321	241			207		
Total, worst case		803			38											558			741	
Sun reduction		0,13			0,22											0,15			0,13	
Oper. time red.		0,93			0,93											0,93			0,93	
Wind dir. red.		0,52			0,68											0,60			0,32	
Total reduction		0,06			0,14											0,09			0,04	
Total, real		51			5											48			28	

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: L - Birztalinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October	November		December
1	09:07		08:27	09:25 (13)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34		08:39
	15:45		16:46 20	09:45 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38		15:43
2	09:06		08:25	09:26 (13)	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36		08:41
	15:47		16:48 18	09:44 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36		15:42
3	09:06		08:23	09:27 (13)	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38		08:43
	15:48		16:51 16	09:43 (13)	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33		15:41
4	09:05		08:21	09:30 (13)	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41		08:44
	15:49		16:53 12	09:42 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31		15:40
5	09:05		08:19	09:33 (13)	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43		08:46
	15:51		16:55 5	09:38 (13)	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29		15:39
6	09:04		08:17		07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	09:02 (13)	08:48
	15:52		16:58		18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:26 6	09:08 (13)	15:39
7	09:04		08:14		07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:48	08:59 (13)	08:49
	15:54		17:00		18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24 13	09:12 (13)	15:38
8	09:03		08:12		07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	08:58 (13)	08:51
	15:56		17:02		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22 16	09:14 (13)	15:37
9	09:02		08:10		06:58	06:32	05:15	04:25	04:34	05:32	06:38	07:42	07:52	08:56 (13)	08:52
	15:57		17:05		18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20 19	09:15 (13)	15:37
10	09:01		08:07		06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:56 (13)	08:54
	15:59		17:07		18:12	20:21	21:27	22:21	22:19	21:21	19:58	18:35	16:18 20	09:16 (13)	15:36
11	09:00		08:05		06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55 (13)	08:55
	16:01		17:10		18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16 21	09:16 (13)	15:36
12	08:59		08:03		06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:55 (13)	08:56
	16:03		17:12		18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14 22	09:17 (13)	15:35
13	08:58		08:00		06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:54 (13)	08:58
	16:04		17:14		18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12 23	09:17 (13)	15:35
14	08:57		07:58		06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04	08:54 (13)	08:59
	16:06		17:17		18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10 24	09:18 (13)	15:35
15	08:56	09:34 (13)	07:56		06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	08:55 (13)	09:00
	16:08 3	09:37 (13)	17:19		18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08 24	09:19 (13)	15:35
16	08:54	09:32 (13)	07:53		06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	08:54 (13)	09:01
	16:10 6	09:38 (13)	17:21		18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06 25	09:19 (13)	15:35
17	08:53	09:30 (13)	07:51		06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	08:55 (13)	09:02
	16:12 9	09:39 (13)	17:24		18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04 24	09:19 (13)	15:35
18	08:52	09:29 (13)	07:48		06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	08:55 (13)	09:03
	16:14 12	09:41 (13)	17:26		18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02 24	09:19 (13)	15:35
19	08:50	09:27 (13)	07:46		06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	08:56 (13)	09:03
	16:17 15	09:42 (13)	17:29		18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00 23	09:19 (13)	15:35
20	08:49	09:25 (13)	07:43		06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	08:56 (13)	09:04
	16:19 18	09:43 (13)	17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59 23	09:19 (13)	15:35
21	08:47	09:23 (13)	07:40		06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	08:59 (13)	09:05
	16:21 20	09:43 (13)	17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57 20	09:19 (13)	15:36
22	08:46	09:21 (13)	07:38		06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:01 (13)	09:05
	16:23 23	09:44 (13)	17:36		18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55 18	09:19 (13)	15:36
23	08:44	09:21 (13)	07:35		06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:03 (13)	09:06
	16:25 23	09:44 (13)	17:38		18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54 15	09:18 (13)	15:37
24	08:42	09:21 (13)	07:33		06:16	05:51	04:45	04:21	04:59	06:04	07:10	08:15	08:25	09:06 (13)	09:06
	16:27 24	09:45 (13)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52 12	09:18 (13)	15:37
25	08:41	09:21 (13)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:08 (13)	09:07
	16:30 24	09:45 (13)	17:43		18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51 9	09:17 (13)	15:38
26	08:39	09:21 (13)	07:27		06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:11 (13)	09:07
	16:32 25	09:46 (13)	17:45		18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:49 6	09:17 (13)	15:39
27	08:37	09:22 (13)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:13 (13)	09:07
	16:34 24	09:46 (13)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48 3	09:16 (13)	15:40
28	08:35	09:22 (13)	07:22		06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:07
	16:37 24	09:46 (13)	17:50		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47		15:41
29	08:33	09:22 (13)			07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:07
	16:39 23	09:45 (13)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45		15:42
30	08:31	09:23 (13)			06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:07
	16:41 23	09:46 (13)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44		15:43
31	08:29	09:24 (13)			06:57		04:34		05:13	06:19		07:31			09:07
	16:44 21	09:45 (13)			19:59		22:07		21:44	20:26		16:40			15:44
Potential sun hours	227		262		365	429	516	539	539	475	386	321	241		207
Total, worst case	317		71										390		
Sun reduction	0,13		0,22										0,15		
Oper. time red.	0,93		0,93										0,93		
Wind dir. red.	0,64		0,64										0,64		
Total reduction	0,08		0,13										0,09		
Total, real	25		9										36		

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: M - Birzuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April	May	June
1	09:07		12:20 (11)	08:27		09:49 (12)	07:20		08:14 (13)	06:54	05:34	04:33
	15:45	52	14:10 (10)	16:46	23	10:12 (12)	17:52	39	08:53 (13)	20:01	21:07	22:09
2	09:06		12:22 (11)	08:25		09:49 (12)	07:17		08:13 (13)	06:51	05:31	04:31
	15:47	51	14:11 (10)	16:48	22	10:11 (12)	17:54	39	08:52 (13)	20:03	21:10	22:10
3	09:06		12:22 (11)	08:23		09:51 (12)	07:14		08:13 (13)	06:48	05:29	04:30
	15:48	50	14:11 (10)	16:51	19	10:10 (12)	17:56	39	08:52 (13)	20:06	21:12	22:12
4	09:05		12:24 (11)	08:21		09:52 (12)	07:11		08:13 (13)	06:45	05:26	04:29
	15:49	48	14:11 (10)	16:53	16	10:08 (12)	17:59	38	08:51 (13)	20:08	21:14	22:13
5	09:05		12:25 (11)	08:19		09:55 (12)	07:09		08:14 (13)	06:43	05:24	04:28
	15:51	47	14:12 (10)	16:55	11	10:06 (12)	18:01	37	08:51 (13)	20:10	21:16	22:15
6	09:04		12:28 (11)	08:16			07:06		08:14 (13)	06:40	05:22	04:27
	15:52	44	14:13 (10)	16:58			18:03	36	08:50 (13)	20:12	21:18	22:16
7	09:04		09:50 (12)	08:14			07:03		08:15 (13)	06:37	05:19	04:26
	15:54	42	14:14 (10)	17:00			18:06	34	08:49 (13)	20:14	21:21	22:17
8	09:03		09:47 (12)	08:12			07:01		08:15 (13)	06:34	05:17	04:25
	15:56	47	14:13 (10)	17:02			18:08	32	08:47 (13)	20:17	21:23	22:18
9	09:02		09:46 (12)	08:10			06:58		08:16 (13)	06:32	05:15	04:25
	15:57	50	14:14 (10)	17:05			18:10	29	08:45 (13)	20:19	21:25	22:19
10	09:01		09:46 (12)	08:07			06:55		08:18 (13)	06:29	05:12	04:24
	15:59	52	14:15 (10)	17:07			18:12	26	08:44 (13)	20:21	21:27	22:20
11	09:00		09:46 (12)	08:05			06:52		08:20 (13)	06:26	05:10	04:23
	16:01	53	14:15 (10)	17:10			18:15	22	08:42 (13)	20:23	21:29	22:21
12	08:59		09:45 (12)	08:03			06:50		08:22 (13)	06:23	05:08	04:23
	16:03	55	14:15 (10)	17:12			18:17	16	08:38 (13)	20:25	21:31	22:22
13	08:58		09:45 (12)	08:00			06:47		08:28 (13)	06:21	05:06	04:22
	16:05	56	14:16 (10)	17:14			18:19	3	08:31 (13)	20:28	21:33	22:23
14	08:57		09:44 (12)	07:58			06:44			06:18	05:04	04:22
	16:06	58	14:16 (10)	17:17			18:21			20:30	21:35	22:24
15	08:56		09:44 (12)	07:55			06:41			06:15	05:02	04:21
	16:08	58	14:16 (10)	17:19			18:24			20:32	21:38	22:25
16	08:54		09:44 (12)	07:53		08:28 (13)	06:38			06:12	05:00	04:21
	16:10	59	14:16 (10)	17:21	13	08:41 (13)	18:26			20:34	21:40	22:25
17	08:53		09:43 (12)	07:51		08:25 (13)	06:36			06:10	04:58	04:21
	16:12	61	14:16 (10)	17:24	19	08:44 (13)	18:28			20:36	21:42	22:26
18	08:52		09:44 (12)	07:48		08:23 (13)	06:33			06:07	04:56	04:21
	16:14	60	14:17 (10)	17:26	23	08:46 (13)	18:30			20:39	21:44	22:26
19	08:50		09:44 (12)	07:46		08:21 (13)	06:30			06:04	04:54	04:21
	16:17	61	14:17 (10)	17:29	27	08:48 (13)	18:32			20:41	21:46	22:27
20	08:49		09:43 (12)	07:43		08:19 (13)	06:27			06:02	04:52	04:21
	16:19	60	14:16 (10)	17:31	30	08:49 (13)	18:35			20:43	21:48	22:27
21	08:47		09:43 (12)	07:40		08:18 (13)	06:25			05:59	04:50	04:21
	16:21	60	14:16 (10)	17:33	33	08:51 (13)	18:37			20:45	21:50	22:28
22	08:46		09:43 (12)	07:38		08:17 (13)	06:22			05:57	04:48	04:21
	16:23	60	14:16 (10)	17:36	34	08:51 (13)	18:39			20:48	21:51	22:28
23	08:44		09:44 (12)	07:35		08:16 (13)	06:19			05:54	04:46	04:21
	16:25	57	14:15 (10)	17:38	36	08:52 (13)	18:41			20:50	21:53	22:28
24	08:42		09:44 (12)	07:33		08:16 (13)	06:16			05:51	04:45	04:22
	16:27	57	14:15 (10)	17:40	37	08:53 (13)	18:43			20:52	21:55	22:28
25	08:41		09:44 (12)	07:30		08:15 (13)	06:13			05:49	04:43	04:22
	16:30	54	14:14 (10)	17:43	38	08:53 (13)	18:46			20:54	21:57	22:28
26	08:39		09:45 (12)	07:27		08:14 (13)	06:10			05:46	04:41	04:22
	16:32	51	14:13 (10)	17:45	39	08:53 (13)	18:48			20:56	21:59	22:28
27	08:37		09:45 (12)	07:25		08:14 (13)	06:08			05:44	04:40	04:23
	16:34	49	14:12 (10)	17:47	39	08:53 (13)	18:50			20:59	22:01	22:28
28	08:35		09:46 (12)	07:22		08:14 (13)	06:05			05:41	04:38	04:24
	16:37	44	14:11 (10)	17:50	39	08:53 (13)	18:52			21:01	22:02	22:27
29	08:33		09:45 (12)				07:02			05:39	04:37	04:24
	16:39	38	14:07 (10)				19:55			21:03	22:04	22:27
30	08:31		09:46 (12)				06:59			05:36	04:35	04:25
	16:41	27	10:13 (12)				19:57			21:05	22:06	22:27
31	08:29		09:47 (12)				06:57				04:34	
	16:44	26	10:13 (12)				19:59				22:07	
Potential sun hours	227			262			365			429	515	539
Total, worst case		1587			498			390				
Sun reduction		0,13			0,22			0,37				
Oper. time red.		0,93			0,93			0,93				
Wind dir. red.		0,44			0,80			0,85				
Total reduction		0,05			0,16			0,29				
Total, real		84			82			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: M - Birzuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October		November			December		
1	04:26	05:15	06:21	07:24		09:03 (13)	07:34			08:39		09:28 (12)
	22:26	21:41	20:23	18:59	12	09:15 (13)	16:38			15:43	53	13:57 (10)
2	04:27	05:17	06:23	07:27		08:59 (13)	07:36			08:41		09:29 (12)
	22:26	21:39	20:21	18:57	19	09:18 (13)	16:36			15:42	53	13:58 (10)
3	04:28	05:19	06:25	07:29		08:56 (13)	07:38			08:43		09:30 (12)
	22:25	21:37	20:18	18:54	24	09:20 (13)	16:33			15:41	50	13:58 (10)
4	04:29	05:21	06:27	07:31		08:55 (13)	07:41			08:44		09:32 (12)
	22:24	21:35	20:15	18:51	28	09:23 (13)	16:31			15:40	47	13:58 (10)
5	04:30	05:23	06:29	07:33		08:53 (13)	07:43			08:46		09:34 (12)
	22:24	21:32	20:12	18:48	31	09:24 (13)	16:29			15:39	44	13:59 (10)
6	04:31	05:25	06:31	07:35		08:52 (13)	07:45		09:24 (12)	08:48		12:13 (11)
	22:23	21:30	20:10	18:46	32	09:24 (13)	16:26	12	09:36 (12)	15:39	44	13:58 (10)
7	04:32	05:27	06:34	07:37		08:50 (13)	07:47		09:22 (12)	08:49		12:12 (11)
	22:22	21:28	20:07	18:43	35	09:25 (13)	16:24	17	09:39 (12)	15:38	47	13:59 (10)
8	04:33	05:30	06:36	07:40		08:50 (13)	07:50		09:20 (12)	08:51		12:12 (11)
	22:21	21:26	20:04	18:40	36	09:26 (13)	16:22	20	09:40 (12)	15:37	48	13:59 (10)
9	04:35	05:32	06:38	07:42		08:49 (13)	07:52		09:20 (12)	08:52		12:12 (11)
	22:20	21:23	20:01	18:37	37	09:26 (13)	16:20	22	09:42 (12)	15:37	49	14:00 (10)
10	04:36	05:34	06:40	07:44		08:48 (13)	07:54		09:19 (12)	08:54		12:11 (11)
	22:19	21:21	19:58	18:35	38	09:26 (13)	16:18	24	09:43 (12)	15:36	51	14:00 (10)
11	04:37	05:36	06:42	07:46		08:47 (13)	07:57		09:18 (12)	08:55		12:11 (11)
	22:18	21:18	19:56	18:32	39	09:26 (13)	16:16	25	09:43 (12)	15:36	53	14:01 (10)
12	04:39	05:38	06:44	07:48		08:47 (13)	07:59		09:18 (12)	08:56		12:11 (11)
	22:16	21:16	19:53	18:29	39	09:26 (13)	16:14	27	09:45 (12)	15:35	53	14:01 (10)
13	04:40	05:40	06:46	07:51		08:47 (13)	08:01		09:17 (12)	08:57		12:10 (11)
	22:15	21:13	19:50	18:26	39	09:26 (13)	16:12	38	13:39 (10)	15:35	55	14:01 (10)
14	04:42	05:42	06:48	07:53		08:46 (13)	08:03		09:18 (12)	08:59		12:11 (11)
	22:14	21:11	19:47	18:24	39	09:25 (13)	16:10	44	13:43 (10)	15:35	55	14:02 (10)
15	04:43	05:44	06:50	07:55		08:47 (13)	08:06		09:17 (12)	09:00		12:11 (11)
	22:12	21:08	19:44	18:21	39	09:26 (13)	16:08	48	13:44 (10)	15:35	55	14:02 (10)
16	04:45	05:47	06:53	07:57		08:46 (13)	08:08		09:17 (12)	09:01		12:12 (11)
	22:11	21:06	19:42	18:18	39	09:25 (13)	16:06	52	13:46 (10)	15:35	54	14:02 (10)
17	04:47	05:49	06:55	07:59		08:46 (13)	08:10		09:18 (12)	09:02		12:12 (11)
	22:09	21:03	19:39	18:16	38	09:24 (13)	16:04	54	13:48 (10)	15:35	55	14:03 (10)
18	04:48	05:51	06:57	08:02		08:47 (13)	08:12		09:18 (12)	09:02		12:12 (11)
	22:08	21:01	19:36	18:13	37	09:24 (13)	16:02	57	13:49 (10)	15:35	56	14:03 (10)
19	04:50	05:53	06:59	08:04		08:47 (13)	08:15		09:19 (12)	09:03		12:12 (11)
	22:06	20:58	19:33	18:10	35	09:22 (13)	16:00	57	13:50 (10)	15:35	55	14:03 (10)
20	04:52	05:55	07:01	08:06		08:49 (13)	08:17		09:18 (12)	09:04		12:13 (11)
	22:05	20:56	19:30	18:08	33	09:22 (13)	15:59	60	13:51 (10)	15:35	55	14:04 (10)
21	04:54	05:57	07:03	08:08		08:49 (13)	08:19		09:19 (12)	09:05		12:13 (11)
	22:03	20:53	19:27	18:05	31	09:20 (13)	15:57	61	13:52 (10)	15:36	56	14:05 (10)
22	04:55	05:59	07:05	08:11		08:51 (13)	08:21		09:19 (12)	09:05		12:13 (11)
	22:01	20:50	19:25	18:03	29	09:20 (13)	15:55	60	13:52 (10)	15:36	56	14:05 (10)
23	04:57	06:02	07:07	08:13		08:51 (13)	08:23		09:20 (12)	09:06		12:14 (11)
	21:59	20:48	19:22	18:00	27	09:18 (13)	15:54	61	13:53 (10)	15:37	56	14:06 (10)
24	04:59	06:04	07:09	08:15		08:53 (13)	08:25		09:21 (12)	09:06		12:15 (11)
	21:58	20:45	19:19	17:58	22	09:15 (13)	15:52	60	13:54 (10)	15:37	55	14:06 (10)
25	05:01	06:06	07:12	07:18		07:56 (13)	08:27		09:21 (12)	09:06		12:15 (11)
	21:56	20:42	19:16	16:55	17	08:13 (13)	15:51	61	13:54 (10)	15:38	56	14:06 (10)
26	05:03	06:08	07:14	07:20		07:59 (13)	08:29		09:23 (12)	09:07		12:16 (11)
	21:54	20:40	19:13	16:53	10	08:09 (13)	15:49	59	13:55 (10)	15:39	55	14:07 (10)
27	05:05	06:10	07:16	07:22			08:31		09:23 (12)	09:07		12:16 (11)
	21:52	20:37	19:11	16:50			15:48	59	13:55 (10)	15:40	55	14:07 (10)
28	05:07	06:12	07:18	07:24			08:33		09:24 (12)	09:07		12:17 (11)
	21:50	20:34	19:08	16:48			15:47	58	13:56 (10)	15:41	55	14:08 (10)
29	05:09	06:14	07:20	07:27			08:35		09:25 (12)	09:07		12:18 (11)
	21:48	20:32	19:05	16:45			15:45	56	13:56 (10)	15:42	55	14:09 (10)
30	05:11	06:17	07:22	07:29			08:37		09:26 (12)	09:07		12:18 (11)
	21:46	20:29	19:02	16:43			15:44	55	13:56 (10)	15:43	53	14:08 (10)
31	05:13	06:19		07:31						09:07		12:19 (11)
	21:44	20:26		16:40						15:44	53	14:09 (10)
Potential sun hours	539	475	386	321			241			207		
Total, worst case					805			1147			1637	
Sun reduction					0,31			0,15			0,13	
Oper. time red.					0,93			0,93			0,93	
Wind dir. red.					0,85			0,48			0,29	
Total reduction					0,24			0,07			0,03	
Total, real					195			80			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: N - Caunites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: O - Cerini 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May	June
1	09:07			08:27		09:44 (2)	07:20		07:51 (5)	06:54		07:38 (4)	05:34	04:33
	15:46			16:46	21	10:05 (2)	17:52	21	08:12 (5)	20:01	53	08:39 (3)	21:08	22:09
2	09:06			08:25		09:44 (2)	07:17		07:51 (5)	06:51		07:38 (4)	05:31	04:32
	15:47			16:49	19	10:03 (2)	17:54	21	08:12 (5)	20:04	51	08:38 (3)	21:10	22:10
3	09:06			08:23		09:46 (2)	07:14		07:50 (5)	06:48		07:38 (4)	05:29	04:31
	15:48			16:51	16	10:02 (2)	17:57	22	08:12 (5)	20:06	46	08:35 (3)	21:12	22:12
4	09:06			08:21		09:48 (2)	07:12		07:50 (5)	06:46		07:40 (4)	05:27	04:30
	15:50			16:53	13	10:01 (2)	17:59	23	08:13 (5)	20:08	40	08:34 (3)	21:14	22:13
5	09:05			08:19		09:52 (2)	07:09		07:50 (5)	06:43		07:09 (1)	05:24	04:29
	15:51			16:56	5	09:57 (2)	18:01	22	08:12 (5)	20:10	36	08:31 (3)	21:16	22:15
6	09:04			08:17			07:06		07:50 (5)	06:40		07:06 (1)	05:22	04:28
	15:53			16:58			18:04	22	08:12 (5)	20:12	28	08:27 (3)	21:19	22:16
7	09:04			08:14			07:04		07:50 (5)	06:37		07:04 (1)	05:20	04:27
	15:54			17:00			18:06	21	08:11 (5)	20:15	11	07:15 (1)	21:21	22:17
8	09:03			08:12			07:01		07:51 (5)	06:35		07:01 (1)	05:17	04:26
	15:56			17:03			18:08	18	08:09 (5)	20:17	13	07:14 (1)	21:23	22:18
9	09:02			08:10			06:58		07:52 (5)	06:32		06:58 (1)	05:15	04:25
	15:58			17:05			18:10	17	08:09 (5)	20:19	16	07:14 (1)	21:25	22:19
10	09:01		09:45 (2)	08:08			06:55		07:54 (5)	06:29		06:57 (1)	05:13	04:24
	15:59	5	09:50 (2)	17:08			18:13	12	08:06 (5)	20:21	16	07:13 (1)	21:27	22:21
11	09:00		09:43 (2)	08:05			06:53		07:57 (5)	06:26		06:58 (1)	05:11	04:24
	16:01	10	09:53 (2)	17:10			18:15	5	08:02 (5)	20:23	15	07:13 (1)	21:29	22:22
12	08:59		09:42 (2)	08:03			06:50			06:24		06:59 (1)	05:08	04:23
	16:03	12	09:54 (2)	17:12			18:17			20:26	12	07:11 (1)	21:31	22:22
13	08:58		09:41 (2)	08:00			06:47			06:21		06:59 (1)	05:06	04:23
	16:05	15	09:56 (2)	17:15			18:19			20:28	10	07:09 (1)	21:34	22:23
14	08:57		09:40 (2)	07:58			06:44			06:18		07:03 (1)	05:04	04:22
	16:07	17	09:57 (2)	17:17			18:22			20:30	4	07:07 (1)	21:36	22:24
15	08:56		09:40 (2)	07:56			06:42		07:23 (3)	06:15			05:02	04:22
	16:09	19	09:59 (2)	17:19			18:24	14	07:37 (3)	20:32			21:38	22:25
16	08:55		09:39 (2)	07:53			06:39		07:19 (3)	06:13			05:00	04:21
	16:11	21	10:00 (2)	17:22			18:26	20	07:39 (3)	20:34			21:40	22:25
17	08:53		09:39 (2)	07:51			06:36		07:17 (3)	06:10			04:58	04:21
	16:13	21	10:00 (2)	17:24			18:28	24	07:41 (3)	20:37			21:42	22:26
18	08:52		09:39 (2)	07:48			06:33		07:15 (3)	06:07			04:56	04:21
	16:15	23	10:02 (2)	17:27			18:30	27	07:42 (3)	20:39			21:44	22:27
19	08:50		09:39 (2)	07:46			06:30		07:13 (3)	06:05			04:54	04:21
	16:17	23	10:02 (2)	17:29			18:33	30	07:43 (3)	20:41			21:46	22:27
20	08:49		09:39 (2)	07:43			06:28		07:12 (3)	06:02			04:52	04:21
	16:19	24	10:03 (2)	17:31			18:35	32	07:44 (3)	20:43			21:48	22:27
21	08:47		09:39 (2)	07:41			06:25		07:11 (3)	05:59			04:50	04:21
	16:21	25	10:04 (2)	17:34			18:37	34	07:45 (3)	20:45			21:50	22:28
22	08:46		09:39 (2)	07:38			06:22		07:10 (3)	05:57			04:48	04:21
	16:23	25	10:04 (2)	17:36			18:39	35	07:45 (3)	20:48			21:52	22:28
23	08:44		09:39 (2)	07:36			06:19		06:47 (4)	05:54			04:47	04:22
	16:26	26	10:05 (2)	17:38			18:42	47	07:45 (3)	20:50			21:54	22:28
24	08:42		09:39 (2)	07:33			06:16		06:44 (4)	05:52			04:45	04:22
	16:28	26	10:05 (2)	17:41			18:44	53	07:45 (3)	20:52			21:55	22:28
25	08:41		09:39 (2)	07:30		07:59 (5)	06:14		06:43 (4)	05:49			04:43	04:22
	16:30	26	10:05 (2)	17:43	7	08:06 (5)	18:46	55	07:45 (3)	20:54			21:57	22:28
26	08:39		09:40 (2)	07:28		07:55 (5)	06:11		06:41 (4)	05:46			04:42	04:23
	16:32	26	10:06 (2)	17:45	14	08:09 (5)	18:48	58	07:45 (3)	20:57			21:59	22:28
27	08:37		09:40 (2)	07:25		07:54 (5)	06:08		06:40 (4)	05:44			04:40	04:23
	16:35	26	10:06 (2)	17:48	17	08:11 (5)	18:50	59	07:44 (3)	20:59			22:01	22:28
28	08:35		09:41 (2)	07:22		07:53 (5)	06:05		06:39 (4)	05:41			04:39	04:24
	16:37	25	10:06 (2)	17:50	19	08:12 (5)	18:53	60	07:43 (3)	21:01			22:02	22:27
29	08:33		09:41 (2)				07:02		07:38 (4)	05:39			04:37	04:25
	16:39	25	10:06 (2)				19:55	59	08:42 (3)	21:03			22:04	22:27
30	08:31		09:41 (2)				07:00		07:39 (4)	05:36			04:36	04:25
	16:42	24	10:05 (2)				19:57	58	08:42 (3)	21:05			22:06	22:27
31	08:29		09:42 (2)				06:57		07:38 (4)				04:34	
	16:44	23	10:05 (2)				19:59	57	08:41 (3)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		467			131			926			351			
Sun reduction		0,13			0,22			0,37			0,46			
Oper. time red.		0,93			0,93			0,93			0,93			
Wind dir. red.		0,59			0,73			0,96			0,99			
Total reduction		0,07			0,15			0,33			0,42			
Total, real		33			20			304			148			

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: O - Cerini 2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August			September			October			November			December		
1	04:26		05:15			06:21		06:57 (1)	07:25			07:34			08:39		09:25 (2)
	22:26		21:42			20:24	15	07:12 (1)	19:00			16:38			15:44	10	09:35 (2)
2	04:27		05:17			06:23		06:56 (1)	07:27			07:36			08:41		09:28 (2)
	22:26		21:39			20:21	16	07:12 (1)	18:57			16:36			15:42	6	09:34 (2)
3	04:28		05:19			06:25		06:56 (1)	07:29		08:33 (5)	07:38			08:43		
	22:25		21:37			20:18	16	07:12 (1)	18:54	10	08:43 (5)	16:34			15:41		
4	04:29		05:22			06:27		06:58 (1)	07:31		08:30 (5)	07:41			08:44		
	22:24		21:35			20:15	14	07:12 (1)	18:51	15	08:45 (5)	16:31			15:41		
5	04:30		05:24			06:30		07:00 (1)	07:33		08:28 (5)	07:43			08:46		
	22:24		21:33			20:13	11	07:11 (1)	18:49	18	08:46 (5)	16:29			15:40		
6	04:31		05:26			06:32		07:02 (1)	07:35		08:27 (5)	07:45		09:20 (2)	08:48		
	22:23		21:30			20:10	27	08:22 (3)	18:46	19	08:46 (5)	16:27	7	09:27 (2)	15:39		
7	04:32		05:28			06:34		07:04 (1)	07:38		08:26 (5)	07:48		09:18 (2)	08:49		
	22:22		21:28			20:07	36	08:26 (3)	18:43	22	08:48 (5)	16:25	13	09:31 (2)	15:38		
8	04:34		05:30			06:36		07:34 (4)	07:40		08:25 (5)	07:50		09:17 (2)	08:51		
	22:21		21:26			20:04	40	08:28 (3)	18:40	23	08:48 (5)	16:22	16	09:33 (2)	15:38		
9	04:35		05:32			06:38		07:33 (4)	07:42		08:25 (5)	07:52		09:15 (2)	08:52		
	22:20		21:23			20:01	46	08:30 (3)	18:38	22	08:47 (5)	16:20	19	09:34 (2)	15:37		
10	04:36		05:34			06:40		07:31 (4)	07:44		08:24 (5)	07:55		09:14 (2)	08:54		
	22:19		21:21			19:59	50	08:31 (3)	18:35	23	08:47 (5)	16:18	21	09:35 (2)	15:37		
11	04:38		05:36			06:42		07:30 (4)	07:46		08:25 (5)	07:57		09:13 (2)	08:55		
	22:18		21:18			19:56	54	08:31 (3)	18:32	22	08:47 (5)	16:16	23	09:36 (2)	15:36		
12	04:39		05:38			06:44		07:30 (4)	07:49		08:25 (5)	07:59		09:13 (2)	08:56		
	22:17		21:16			19:53	56	08:32 (3)	18:29	21	08:46 (5)	16:14	24	09:37 (2)	15:36		
13	04:41		05:41			06:47		07:29 (4)	07:51		08:25 (5)	08:01		09:13 (2)	08:58		
	22:15		21:14			19:50	57	08:32 (3)	18:27	20	08:45 (5)	16:12	25	09:38 (2)	15:36		
14	04:42		05:43			06:49		07:29 (4)	07:53		08:26 (5)	08:04		09:13 (2)	08:59		
	22:14		21:11			19:47	59	08:33 (3)	18:24	18	08:44 (5)	16:10	25	09:38 (2)	15:35		
15	04:44		05:45			06:51		07:29 (4)	07:55		08:27 (5)	08:06		09:13 (2)	09:00		
	22:13		21:09			19:45	59	08:33 (3)	18:21	15	08:42 (5)	16:08	26	09:39 (2)	15:35		
16	04:45		05:47			06:53		07:29 (4)	07:57		08:28 (5)	08:08		09:12 (2)	09:01		
	22:11		21:06			19:42	58	08:32 (3)	18:19	12	08:40 (5)	16:06	27	09:39 (2)	15:35		
17	04:47		05:49			06:55		07:30 (4)	08:00		08:33 (5)	08:10		09:13 (2)	09:02		
	22:10		21:03			19:39	57	08:33 (3)	18:16	4	08:37 (5)	16:04	26	09:39 (2)	15:35		
18	04:49		05:51			06:57		07:30 (4)	08:02			08:13		09:13 (2)	09:03		
	22:08		21:01			19:36	57	08:33 (3)	18:13			16:02	26	09:39 (2)	15:35		
19	04:50		05:53			06:59		07:31 (4)	08:04			08:15		09:14 (2)	09:03		
	22:06		20:58			19:33	53	08:32 (3)	18:11			16:01	26	09:40 (2)	15:36		
20	04:52		05:56			07:01		07:33 (4)	08:06			08:17		09:14 (2)	09:04		
	22:05		20:56			19:31	47	08:31 (3)	18:08			15:59	25	09:39 (2)	15:36		
21	04:54		05:58			07:03		07:37 (4)	08:09			08:19		09:15 (2)	09:05		
	22:03		20:53			19:28	38	08:31 (3)	18:06			15:57	25	09:40 (2)	15:36		
22	04:56		06:00			07:06		07:56 (3)	08:11			08:21		09:15 (2)	09:05		
	22:01		20:51			19:25	34	08:30 (3)	18:03			15:56	24	09:39 (2)	15:37		
23	04:58		06:02			07:08		07:56 (3)	08:13			08:23		09:16 (2)	09:06		
	22:00		20:48			19:22	32	08:28 (3)	18:00			15:54	24	09:40 (2)	15:37		
24	05:00		06:04			07:10		07:56 (3)	08:15			08:25		09:16 (2)	09:06		
	21:58		20:45			19:19	31	08:27 (3)	17:58			15:53	23	09:39 (2)	15:38		
25	05:01		06:06			07:12		07:57 (3)	07:18			08:27		09:17 (2)	09:07		
	21:56		20:43			19:16	28	08:25 (3)	16:55			15:51	21	09:38 (2)	15:39		
26	05:03		06:08			07:14		07:58 (3)	07:20			08:30		09:19 (2)	09:07		
	21:54		20:40			19:14	25	08:23 (3)	16:53			15:50	20	09:39 (2)	15:39		
27	05:05		06:10			07:16		08:00 (3)	07:22			08:32		09:19 (2)	09:07		
	21:52		20:37			19:11	22	08:22 (3)	16:50			15:48	19	09:38 (2)	15:40		
28	05:07		06:13			07:18		08:02 (3)	07:25			08:33		09:20 (2)	09:07		
	21:50		20:34			19:08	17	08:19 (3)	16:48			15:47	17	09:37 (2)	15:41		
29	05:09		06:15		07:03 (1)	07:20		08:06 (3)	07:27			08:35		09:21 (2)	09:07		
	21:48		20:32	5	07:08 (1)	19:05	8	08:14 (3)	16:45			15:46	15	09:36 (2)	15:42		
30	05:11		06:17		07:00 (1)	07:23			07:29			08:37		09:24 (2)	09:07		
	21:46		20:29	10	07:10 (1)	19:02			16:43			15:45	12	09:36 (2)	15:43		
31	05:13		06:19		06:58 (1)				07:31						09:07		
	21:44		20:26	13	07:11 (1)				16:41						15:44		
Potential sun hours	538		474			386			321			241			207		
Total, worst case				28			1063			264			529			16	
Sun reduction				0,55			0,43			0,31			0,15			0,13	
Oper. time red.				0,93			0,93			0,93			0,93			0,93	
Wind dir. red.				1,00			0,98			0,91			0,59			0,59	
Total reduction				0,51			0,39			0,26			0,08			0,07	
Total, real				14			417			69			44			1	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: P - Drupas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April		May	June
1	09:07		08:27		09:46 (2)		07:20		07:49 (5)	06:54		07:29 (4)	05:34	04:33
	15:46		16:46	25	10:11 (2)		17:52	17	08:06 (5)	20:01	65	08:34 (3)	21:08	22:09
2	09:06		08:25		09:47 (2)		07:17		07:48 (5)	06:51		07:28 (4)	05:31	04:32
	15:47		16:49	23	10:10 (2)		17:54	19	08:07 (5)	20:04	65	08:33 (3)	21:10	22:10
3	09:06		08:23		09:48 (2)		07:14		07:46 (5)	06:48		07:27 (4)	05:29	04:31
	15:48		16:51	21	10:09 (2)		17:57	22	08:08 (5)	20:06	66	08:33 (3)	21:12	22:12
4	09:06		08:21		09:50 (2)		07:12		07:46 (5)	06:46		07:27 (4)	05:27	04:30
	15:50		16:53	18	10:08 (2)		17:59	23	08:09 (5)	20:08	66	08:33 (3)	21:14	22:13
5	09:05		08:19		09:51 (2)		07:09		07:45 (5)	06:43		07:27 (4)	05:24	04:29
	15:51		16:56	15	10:06 (2)		18:01	24	08:09 (5)	20:10	65	08:32 (3)	21:16	22:15
6	09:04		08:17		09:55 (2)		07:06		07:45 (5)	06:40		07:26 (4)	05:22	04:28
	15:53		16:58	8	10:03 (2)		18:04	24	08:09 (5)	20:12	64	08:31 (3)	21:19	22:16
7	09:04		08:14				07:04		07:44 (5)	06:37		07:27 (4)	05:20	04:27
	15:54		17:00				18:06	24	08:08 (5)	20:15	62	08:31 (3)	21:21	22:17
8	09:03		08:12				07:01		07:44 (5)	06:35		07:27 (4)	05:17	04:26
	15:56		17:03				18:08	24	08:08 (5)	20:17	59	08:29 (3)	21:23	22:18
9	09:02		09:50 (2)		08:10		06:58		07:45 (5)	06:32		06:58 (1)	05:15	04:25
	15:58	3	09:53 (2)		17:05		18:10	23	08:08 (5)	20:19	55	08:28 (3)	21:25	22:19
10	09:01		09:47 (2)		08:08		06:55		07:45 (5)	06:29		06:55 (1)	05:13	04:24
	15:59	9	09:56 (2)		17:08		18:13	22	08:07 (5)	20:21	56	08:26 (3)	21:27	22:20
11	09:00		09:47 (2)		08:05		06:53		07:45 (5)	06:26		06:53 (1)	05:11	04:24
	16:01	12	09:59 (2)		17:10		18:15	20	08:05 (5)	20:23	52	08:25 (3)	21:29	22:21
12	08:59		09:45 (2)		08:03		06:50		07:46 (5)	06:24		06:50 (1)	05:08	04:23
	16:03	15	10:00 (2)		17:12		18:17	18	08:04 (5)	20:26	47	08:23 (3)	21:31	22:22
13	08:58		09:45 (2)		08:00		06:47		07:48 (5)	06:21		06:47 (1)	05:06	04:23
	16:05	17	10:02 (2)		17:15		18:19	13	08:01 (5)	20:28	37	08:20 (3)	21:34	22:23
14	08:57		09:44 (2)		07:58		06:44		07:51 (5)	06:18		06:45 (1)	05:04	04:22
	16:07	19	10:03 (2)		17:17		18:22	8	07:59 (5)	20:30	35	08:18 (3)	21:36	22:24
15	08:56		09:44 (2)		07:56		06:41			06:15		06:45 (1)	05:02	04:22
	16:09	20	10:04 (2)		17:19		18:24			20:32	25	08:13 (3)	21:38	22:25
16	08:55		09:43 (2)		07:53		06:39			06:13		06:45 (1)	05:00	04:21
	16:11	22	10:05 (2)		17:22		18:26			20:34	16	07:01 (1)	21:40	22:25
17	08:53		09:43 (2)		07:51		06:36			06:10		06:45 (1)	04:58	04:21
	16:13	23	10:06 (2)		17:24		18:28			20:37	15	07:00 (1)	21:42	22:26
18	08:52		09:43 (2)		07:48		06:33			06:07		06:46 (1)	04:56	04:21
	16:15	24	10:07 (2)		17:27		18:30			20:39	12	06:58 (1)	21:44	22:27
19	08:50		09:43 (2)		07:46		06:30			06:05		06:48 (1)	04:54	04:21
	16:17	25	10:08 (2)		17:29		18:33			20:41	9	06:57 (1)	21:46	22:27
20	08:49		09:42 (2)		07:43		06:28			06:02			04:52	04:21
	16:19	26	10:08 (2)		17:31		18:35			20:43			21:48	22:27
21	08:47		09:42 (2)		07:41		06:25		07:10 (3)	05:59			04:50	04:21
	16:21	27	10:09 (2)		17:34		18:37	15	07:25 (3)	20:45			21:50	22:28
22	08:46		09:42 (2)		07:38		06:22		07:06 (3)	05:57			04:48	04:21
	16:23	28	10:10 (2)		17:36		18:39	22	07:28 (3)	20:48			21:52	22:28
23	08:44		09:42 (2)		07:35		06:19		07:03 (3)	05:54			04:47	04:22
	16:26	28	10:10 (2)		17:38		18:42	27	07:30 (3)	20:50			21:53	22:28
24	08:42		09:42 (2)		07:33		06:16		07:01 (3)	05:52			04:45	04:22
	16:28	29	10:11 (2)		17:41		18:44	30	07:31 (3)	20:52			21:55	22:28
25	08:41		09:43 (2)		07:30		06:14		07:00 (3)	05:49			04:43	04:22
	16:30	28	10:11 (2)		17:43		18:46	33	07:33 (3)	20:54			21:57	22:28
26	08:39		09:43 (2)		07:28		06:11		06:59 (3)	05:46			04:42	04:23
	16:32	28	10:11 (2)		17:45		18:48	34	07:33 (3)	20:57			21:59	22:28
27	08:37		09:43 (2)		07:25		07:56 (5)	06:08		06:38 (4)	05:44			04:40	04:23
	16:35	29	10:12 (2)		17:48	5	08:01 (5)	18:50	46	07:34 (3)	20:59			22:01	22:28
28	08:35		09:44 (2)		07:22		07:52 (5)	06:05		06:34 (4)	05:41			04:39	04:24
	16:37	28	10:12 (2)		17:50	12	08:04 (5)	18:53	53	07:34 (3)	21:01			22:02	22:27
29	08:33		09:44 (2)					07:02		07:32 (4)	05:39			04:37	04:25
	16:39	27	10:11 (2)					19:55	58	08:34 (3)	21:03			22:04	22:27
30	08:31		09:44 (2)					07:00		07:31 (4)	05:36			04:36	04:25
	16:42	27	10:11 (2)					19:57	61	08:35 (3)	21:05			22:06	22:27
31	08:29		09:45 (2)					06:57		07:30 (4)				04:34	
	16:44	26	10:11 (2)					19:59	63	08:34 (3)				22:07	
Potential sun hours	227		262					365			429			515	539
Total, worst case		520			127				723			871			
Sun reduction		0,13			0,22				0,37			0,46			
Oper. time red.		0,93			0,93				0,93			0,93			
Wind dir. red.		0,57			0,62				0,96			0,99			
Total reduction		0,07			0,13				0,33			0,42			
Total, real		36			16				237			369			

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: P - Drupas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August			September			October			November			December		
1	04:26		05:15			06:21		06:52 (1)	07:25		08:26 (5)	07:34			08:39		09:29 (2)
	22:26		21:42			20:24	53	08:24 (3)	19:00	16	08:42 (5)	16:38			15:44	12	09:41 (2)
2	04:27		05:17			06:23		06:54 (1)	07:27		08:24 (5)	07:36			08:41		09:30 (2)
	22:26		21:39			20:21	55	08:25 (3)	18:57	19	08:43 (5)	16:36			15:42	10	09:40 (2)
3	04:28		05:19			06:25		06:56 (1)	07:29		08:23 (5)	07:38			08:43		09:33 (2)
	22:25		21:37			20:18	55	08:26 (3)	18:54	22	08:45 (5)	16:34			15:41	5	09:38 (2)
4	04:29		05:22			06:27		07:24 (4)	07:31		08:22 (5)	07:41			08:44		
	22:24		21:35			20:15	60	08:27 (3)	18:51	23	08:45 (5)	16:31			15:41		
5	04:30		05:24			06:30		07:23 (4)	07:33		08:21 (5)	07:43		09:24 (2)	08:46		
	22:24		21:33			20:13	62	08:27 (3)	18:49	24	08:45 (5)	16:29	10	09:34 (2)	15:40		
6	04:31		05:26			06:32		07:22 (4)	07:35		08:20 (5)	07:45		09:21 (2)	08:48		
	22:23		21:30			20:10	64	08:27 (3)	18:46	25	08:45 (5)	16:27	15	09:36 (2)	15:39		
7	04:32		05:28			06:34		07:22 (4)	07:38		08:21 (5)	07:48		09:20 (2)	08:49		
	22:22		21:28			20:07	64	08:27 (3)	18:43	24	08:45 (5)	16:25	18	09:38 (2)	15:38		
8	04:34		05:30			06:36		07:21 (4)	07:40		08:20 (5)	07:50		09:19 (2)	08:51		
	22:21		21:26			20:04	66	08:27 (3)	18:40	24	08:44 (5)	16:22	21	09:40 (2)	15:38		
9	04:35		05:32			06:38		07:21 (4)	07:42		08:20 (5)	07:52		09:17 (2)	08:52		
	22:20		21:23			20:01	66	08:27 (3)	18:38	23	08:43 (5)	16:20	23	09:40 (2)	15:37		
10	04:36		05:34			06:40		07:21 (4)	07:44		08:20 (5)	07:55		09:17 (2)	08:54		
	22:19		21:21			19:59	66	08:27 (3)	18:35	22	08:42 (5)	16:18	25	09:42 (2)	15:37		
11	04:38		05:36			06:42		07:21 (4)	07:46		08:21 (5)	07:57		09:16 (2)	08:55		
	22:18		21:18			19:56	64	08:26 (3)	18:32	21	08:42 (5)	16:16	26	09:42 (2)	15:36		
12	04:39		05:38			06:44		07:21 (4)	07:49		08:22 (5)	07:59		09:16 (2)	08:56		
	22:17		21:16			19:53	64	08:26 (3)	18:29	18	08:40 (5)	16:14	27	09:43 (2)	15:36		
13	04:41		05:41			06:47		07:21 (4)	07:51		08:23 (5)	08:01		09:15 (2)	08:58		
	22:15		21:14			19:50	62	08:25 (3)	18:27	15	08:38 (5)	16:12	28	09:43 (2)	15:36		
14	04:42		05:43			06:49		07:22 (4)	07:53		08:26 (5)	08:04		09:16 (2)	08:59		
	22:14		21:11			19:47	58	08:24 (3)	18:24	10	08:36 (5)	16:10	28	09:44 (2)	15:35		
15	04:44		05:45			06:51		07:24 (4)	07:55			08:06		09:16 (2)	09:00		
	22:13		21:09			19:45	53	08:23 (3)	18:21			16:08	29	09:45 (2)	15:35		
16	04:45		05:47			06:53		07:26 (4)	07:57			08:08		09:16 (2)	09:01		
	22:11		21:06			19:42	46	08:22 (3)	18:19			16:06	28	09:44 (2)	15:35		
17	04:47		05:49			06:55		07:47 (3)	08:00			08:10		09:17 (2)	09:02		
	22:10		21:03			19:39	35	08:22 (3)	18:16			16:04	28	09:45 (2)	15:35		
18	04:49		05:51			06:57		07:48 (3)	08:02			08:13		09:16 (2)	09:03		
	22:08		21:01			19:36	32	08:20 (3)	18:13			16:02	28	09:44 (2)	15:35		
19	04:50		05:53			06:59		07:48 (3)	08:04			08:15		09:17 (2)	09:03		
	22:06		20:58			19:33	31	08:19 (3)	18:11			16:01	28	09:45 (2)	15:36		
20	04:52		05:56			07:01		07:50 (3)	08:06			08:17		09:17 (2)	09:04		
	22:05		20:56			19:31	27	08:17 (3)	18:08			15:59	28	09:45 (2)	15:36		
21	04:54		05:58			07:03		07:51 (3)	08:09			08:19		09:18 (2)	09:05		
	22:03		20:53			19:28	23	08:14 (3)	18:06			15:57	27	09:45 (2)	15:36		
22	04:56		06:00			07:06		07:53 (3)	08:11			08:21		09:18 (2)	09:05		
	22:01		20:51			19:25	18	08:11 (3)	18:03			15:56	27	09:45 (2)	15:37		
23	04:58		06:02		06:55 (1)	07:08		07:57 (3)	08:13			08:23		09:20 (2)	09:06		
	22:00		20:48	2	06:57 (1)	19:22	9	08:06 (3)	18:00			15:54	25	09:45 (2)	15:37		
24	05:00		06:04		06:51 (1)	07:10			08:15			08:25		09:20 (2)	09:06		
	21:58		20:45	10	07:01 (1)	19:19			17:58			15:53	24	09:44 (2)	15:38		
25	05:01		06:06		06:49 (1)	07:12			07:18			08:27		09:21 (2)	09:07		
	21:56		20:43	13	07:02 (1)	19:16			16:55			15:51	23	09:44 (2)	15:39		
26	05:03		06:08		06:48 (1)	07:14			07:20			08:30		09:22 (2)	09:07		
	21:54		20:40	15	07:03 (1)	19:14			16:53			15:50	22	09:44 (2)	15:39		
27	05:05		06:10		06:47 (1)	07:16			07:22			08:32		09:23 (2)	09:07		
	21:52		20:37	16	07:03 (1)	19:11			16:50			15:48	20	09:43 (2)	15:40		
28	05:07		06:13		06:47 (1)	07:18			07:25			08:33		09:24 (2)	09:07		
	21:50		20:34	27	08:16 (3)	19:08			16:48			15:47	19	09:43 (2)	15:41		
29	05:09		06:15		06:46 (1)	07:20			07:27			08:35		09:25 (2)	09:07		
	21:48		20:32	35	08:19 (3)	19:05			16:45			15:46	17	09:42 (2)	15:42		
30	05:11		06:17		06:48 (1)	07:23		08:29 (5)	07:29			08:37		09:27 (2)	09:07		
	21:46		20:29	38	08:21 (3)	19:02	11	08:40 (5)	16:43			15:45	15	09:42 (2)	15:43		
31	05:13		06:19		06:50 (1)				07:31						09:07		
	21:44		20:26	47	08:23 (3)				16:41						15:44		
Potential sun hours	538		474			386			321			241			207		
Total, worst case				203			1144			286			609			27	
Sun reduction				0,55			0,43			0,31			0,15			0,13	
Oper. time red.				0,93			0,93			0,93			0,93			0,93	
Wind dir. red.				0,99			0,99			0,92			0,57			0,57	
Total reduction				0,50			0,40			0,26			0,08			0,07	
Total, real				102			452			75			50			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: Q - Dundagas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April	May	June
1	09:07		08:27	09:36 (2)	07:20		06:54	05:34	04:33
	15:46		16:46 13	09:49 (2)	17:52		20:01	21:08	22:09
2	09:06		08:25	09:38 (2)	07:17		06:51	05:32	04:32
	15:47		16:49 9	09:47 (2)	17:54		20:04	21:10	22:10
3	09:06		08:23		07:14	07:50 (3)	06:48	05:29	04:31
	15:48		16:51		17:57 2	07:52 (3)	20:06	21:12	22:12
4	09:06		08:21		07:12	07:45 (3)	06:46	05:27	04:30
	15:50		16:53		17:59 13	07:58 (3)	20:08	21:14	22:13
5	09:05		08:19		07:09	07:42 (3)	06:43	05:24	04:29
	15:51		16:56		18:01 18	08:00 (3)	20:10	21:16	22:15
6	09:04		08:17		07:06	07:40 (3)	06:40	05:22	04:28
	15:53		16:58		18:04 21	08:01 (3)	20:12	21:19	22:16
7	09:04		08:14		07:04	07:39 (3)	06:37	05:20	04:27
	15:54		17:00		18:06 23	08:02 (3)	20:15	21:21	22:17
8	09:03		08:12		07:01	07:37 (3)	06:35	05:17	04:26
	15:56		17:03		18:08 26	08:03 (3)	20:17	21:23	22:18
9	09:02		08:10		06:58	07:37 (3)	06:32	05:15	04:25
	15:58		17:05		18:10 27	08:04 (3)	20:19	21:25	22:19
10	09:01		08:08		06:55	07:36 (3)	06:29	05:13	04:24
	15:59		17:08		18:13 28	08:04 (3)	20:21	21:27	22:21
11	09:00		08:05		06:53	07:36 (3)	06:26	05:11	04:24
	16:01		17:10		18:15 28	08:04 (3)	20:23	21:29	22:22
12	08:59		08:03		06:50	07:35 (3)	06:24	05:08	04:23
	16:03		17:12		18:17 28	08:03 (3)	20:26	21:31	22:22
13	08:58	09:37 (2)	08:01		06:47	07:13 (4)	06:21	05:06	04:23
	16:05 4	09:41 (2)	17:15		18:19 32	08:03 (3)	20:28	21:34	22:23
14	08:57	09:35 (2)	07:58		06:44	07:11 (4)	06:18	05:04	04:22
	16:07 8	09:43 (2)	17:17		18:22 37	08:03 (3)	20:30	21:36	22:24
15	08:56	09:34 (2)	07:56		06:42	07:08 (4)	06:15	05:02	04:22
	16:09 11	09:45 (2)	17:19		18:24 40	08:02 (3)	20:32	21:38	22:25
16	08:55	09:32 (2)	07:53		06:39	07:05 (4)	06:13	05:00	04:21
	16:11 14	09:46 (2)	17:22		18:26 43	08:01 (3)	20:34	21:40	22:25
17	08:53	09:31 (2)	07:51		06:36	07:04 (4)	06:10	04:58	04:21
	16:13 17	09:48 (2)	17:24		18:28 42	07:59 (3)	20:37	21:42	22:26
18	08:52	09:30 (2)	07:48		06:33	07:03 (4)	06:07	04:56	04:21
	16:15 18	09:48 (2)	17:27		18:31 41	07:58 (3)	20:39	21:44	22:27
19	08:50	09:30 (2)	07:46		06:30	07:03 (4)	06:05	04:54	04:21
	16:17 19	09:49 (2)	17:29		18:33 37	07:55 (3)	20:41	21:46	22:27
20	08:49	09:30 (2)	07:43		06:28	07:03 (4)	06:02	04:52	04:21
	16:19 20	09:50 (2)	17:31		18:35 32	07:53 (3)	20:43	21:48	22:27
21	08:47	09:30 (2)	07:41		06:25	07:03 (4)	05:59	04:50	04:21
	16:21 20	09:50 (2)	17:34		18:37 20	07:23 (4)	20:46	21:50	22:28
22	08:46	09:30 (2)	07:38		06:22	07:03 (4)	05:57	04:48	04:21
	16:23 21	09:51 (2)	17:36		18:39 19	07:22 (4)	20:48	21:52	22:28
23	08:44	09:30 (2)	07:36		06:19	07:03 (4)	05:54	04:47	04:22
	16:26 21	09:51 (2)	17:38		18:42 17	07:20 (4)	20:50	21:54	22:28
24	08:42	09:30 (2)	07:33		06:16	07:04 (4)	05:52	04:45	04:22
	16:28 21	09:51 (2)	17:41		18:44 14	07:18 (4)	20:52	21:55	22:28
25	08:41	09:30 (2)	07:30		06:14	07:07 (4)	05:49	04:43	04:22
	16:30 22	09:52 (2)	17:43		18:46 10	07:17 (4)	20:54	21:57	22:28
26	08:39	09:31 (2)	07:28		06:11		05:46	04:42	04:23
	16:32 21	09:52 (2)	17:45		18:48		20:57	21:59	22:28
27	08:37	09:31 (2)	07:25		06:08		05:44	04:40	04:23
	16:35 21	09:52 (2)	17:48		18:50		20:59	22:01	22:28
28	08:35	09:32 (2)	07:22		06:05		05:41	04:39	04:24
	16:37 20	09:52 (2)	17:50		18:53		21:01	22:02	22:28
29	08:33	09:33 (2)			07:02		05:39	04:37	04:25
	16:39 19	09:52 (2)			19:55		21:03	22:04	22:27
30	08:31	09:33 (2)			07:00		05:36	04:36	04:25
	16:42 18	09:51 (2)			19:57		21:05	22:06	22:27
31	08:29	09:35 (2)			06:57			04:34	
	16:44 15	09:50 (2)			19:59			22:07	
Potential sun hours	227		262		365		429	515	539
Total, worst case	330		22		598				
Sun reduction	0,13		0,22		0,37				
Oper. time red.	0,93		0,93		0,93				
Wind dir. red.	0,62		0,62		0,95				
Total reduction	0,08		0,13		0,32				
Total, real	25		3		194				

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

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

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16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: Q - Dundagas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December	
1	04:26		05:15		06:21			07:25		08:14 (3)	07:34			08:39	
	22:26		21:42		20:24			19:00	28	08:42 (3)	16:38			15:44	
2	04:27		05:17		06:23			07:27		08:14 (3)	07:36			08:41	
	22:26		21:39		20:21			18:57	28	08:42 (3)	16:36			15:42	
3	04:28		05:19		06:25			07:29		08:14 (3)	07:38			08:43	
	22:25		21:37		20:18			18:54	28	08:42 (3)	16:34			15:41	
4	04:29		05:22		06:28			07:31		08:14 (3)	07:41			08:45	
	22:25		21:35		20:15			18:51	27	08:41 (3)	16:31			15:41	
5	04:30		05:24		06:30			07:33		08:14 (3)	07:43			08:46	
	22:24		21:33		20:13			18:49	26	08:40 (3)	16:29			15:40	
6	04:31		05:26		06:32			07:36		08:14 (3)	07:45			08:48	
	22:23		21:30		20:10			18:46	25	08:39 (3)	16:27			15:39	
7	04:32		05:28		06:34			07:38		08:16 (3)	07:48			08:49	
	22:22		21:28		20:07			18:43	22	08:38 (3)	16:25			15:38	
8	04:34		05:30		06:36			07:40		08:17 (3)	07:50			08:51	
	22:21		21:26		20:04			18:40	19	08:36 (3)	16:22			15:38	
9	04:35		05:32		06:38			07:42		08:18 (3)	07:52		09:09 (2)	08:52	
	22:20		21:23		20:01			18:38	16	08:34 (3)	16:20	9	09:18 (2)	15:37	
10	04:36		05:34		06:40			07:44		08:21 (3)	07:55		09:07 (2)	08:54	
	22:19		21:21		19:59			18:35	9	08:30 (3)	16:18	13	09:20 (2)	15:37	
11	04:38		05:36		06:42			07:46			07:57		09:05 (2)	08:55	
	22:18		21:19		19:56			18:32			16:16	16	09:21 (2)	15:36	
12	04:39		05:38		06:44			07:49			07:59		09:05 (2)	08:56	
	22:17		21:16		19:53			18:29			16:14	18	09:23 (2)	15:36	
13	04:41		05:41		06:47			07:51			08:01		09:05 (2)	08:58	
	22:15		21:14		19:50			18:27			16:12	19	09:24 (2)	15:36	
14	04:42		05:43		06:49			07:53			08:04		09:04 (2)	08:59	
	22:14		21:11		19:47			18:24			16:10	20	09:24 (2)	15:35	
15	04:44		05:45		06:51			07:55			08:06		09:04 (2)	09:00	
	22:13		21:09		19:45			18:21			16:08	21	09:25 (2)	15:35	
16	04:45		05:47		06:53			07:57			08:08		09:04 (2)	09:01	
	22:11		21:06		19:42			18:19			16:06	21	09:25 (2)	15:35	
17	04:47		05:49		06:55			08:00			08:10		09:04 (2)	09:02	
	22:10		21:04		19:39			18:16			16:04	22	09:26 (2)	15:35	
18	04:49		05:51		06:57		07:55 (4)	08:02			08:13		09:04 (2)	09:03	
	22:08		21:01		19:36	8	08:03 (4)	18:13			16:02	21	09:25 (2)	15:35	
19	04:50		05:53		06:59		07:52 (4)	08:04			08:15		09:05 (2)	09:03	
	22:06		20:58		19:33	13	08:05 (4)	18:11			16:01	21	09:26 (2)	15:36	
20	04:52		05:56		07:01		07:50 (4)	08:06			08:17		09:05 (2)	09:04	
	22:05		20:56		19:31	17	08:07 (4)	18:08			15:59	21	09:26 (2)	15:36	
21	04:54		05:58		07:03		07:49 (4)	08:09			08:19		09:06 (2)	09:05	
	22:03		20:53		19:28	18	08:07 (4)	18:06			15:57	20	09:26 (2)	15:36	
22	04:56		06:00		07:06		07:48 (4)	08:11			08:21		09:06 (2)	09:05	
	22:01		20:51		19:25	19	08:07 (4)	18:03			15:56	20	09:26 (2)	15:37	
23	04:58		06:02		07:08		07:47 (4)	08:13			08:23		09:07 (2)	09:06	
	22:00		20:48		19:22	30	08:36 (3)	18:00			15:54	19	09:26 (2)	15:37	
24	05:00		06:04		07:10		07:46 (4)	08:15			08:25		09:08 (2)	09:06	
	21:58		20:45		19:19	36	08:38 (3)	17:58			15:53	17	09:25 (2)	15:38	
25	05:01		06:06		07:12		07:46 (4)	07:18			08:28		09:08 (2)	09:07	
	21:56		20:43		19:16	40	08:40 (3)	16:55			15:51	17	09:25 (2)	15:39	
26	05:03		06:08		07:14		07:46 (4)	07:20			08:30		09:11 (2)	09:07	
	21:54		20:40		19:14	42	08:41 (3)	16:53			15:50	14	09:25 (2)	15:39	
27	05:05		06:10		07:16		07:47 (4)	07:22			08:32		09:13 (2)	09:07	
	21:52		20:37		19:11	42	08:42 (3)	16:50			15:48	11	09:24 (2)	15:40	
28	05:07		06:13		07:18		07:48 (4)	07:25			08:34		09:15 (2)	09:07	
	21:50		20:35		19:08	42	08:43 (3)	16:48			15:47	8	09:23 (2)	15:41	
29	05:09		06:15		07:20		07:50 (4)	07:27			08:35		09:17 (2)	09:07	
	21:48		20:32		19:05	39	08:43 (3)	16:45			15:46	5	09:22 (2)	15:42	
30	05:11		06:17		07:23		07:52 (4)	07:29			08:37			09:07	
	21:46		20:29		19:02	35	08:43 (3)	16:43			15:45			15:43	
31	05:13		06:19					07:32						09:07	
	21:44		20:26					16:41						15:44	
Potential sun hours	538		474		386			321			241			207	
Total, worst case						381			228			353			
Sun reduction						0,43			0,31			0,15			
Oper. time red.						0,93			0,93			0,93			
Wind dir. red.						0,96			0,94			0,62			
Total reduction						0,38			0,27			0,09			
Total, real						146			61			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)

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LV-1002 Riga
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SIA Enviroprojekts
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16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: R - Duneni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
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	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
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	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
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22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: S - Eglites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33		21:27 (8)	04:26	21:24 (8)	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	1	21:28 (8)	22:26	19 21:43 (8)	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32		21:25 (8)	04:27	21:25 (8)	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	4	21:29 (8)	22:25	18 21:43 (8)	21:39	20:20	18:56	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:30		21:23 (8)	04:28	21:26 (8)	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	7	21:30 (8)	22:25	16 21:42 (8)	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29		21:23 (8)	04:29	21:26 (8)	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	9	21:32 (8)	22:24	16 21:42 (8)	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28		21:22 (8)	04:30	21:27 (8)	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	11	21:33 (8)	22:23	14 21:41 (8)	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:22	04:27		21:22 (8)	04:31	21:28 (8)	05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	12	21:34 (8)	22:22	13 21:41 (8)	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26		21:21 (8)	04:32	21:28 (8)	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	14	21:35 (8)	22:21	12 21:40 (8)	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26		21:21 (8)	04:33	21:29 (8)	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	15	21:36 (8)	22:20	10 21:39 (8)	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25		21:20 (8)	04:35	21:30 (8)	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	17	21:37 (8)	22:19	8 21:38 (8)	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		21:21 (8)	04:36	21:31 (8)	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	17	21:38 (8)	22:18	6 21:37 (8)	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23		21:20 (8)	04:37	21:34 (8)	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:14	20:23	21:29	22:21	18	21:38 (8)	22:17	3 21:37 (8)	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23		21:20 (8)	04:39		05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	20	21:40 (8)	22:16		21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22		21:20 (8)	04:40		05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	20	21:40 (8)	22:15		21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22		21:20 (8)	04:42		05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	21	21:41 (8)	22:13		21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22		21:20 (8)	04:44		05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22	21:42 (8)	22:12		21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21		21:20 (8)	04:45		05:47	06:52	07:57	08:08	09:00
	16:11	17:21	18:26	20:34	21:39	22:25	22	21:42 (8)	22:11		21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21		21:20 (8)	04:47		05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	23	21:43 (8)	22:09		21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21		21:21 (8)	04:48		05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22	21:43 (8)	22:07		21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21		21:21 (8)	04:50		05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	23	21:44 (8)	22:06		20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21		21:21 (8)	04:52		05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	23	21:44 (8)	22:04		20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21		21:21 (8)	04:54		05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	23	21:44 (8)	22:03		20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21		21:21 (8)	04:56		05:59	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	23	21:44 (8)	22:01		20:50	19:24	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:47	04:21		21:22 (8)	04:57		06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	23	21:45 (8)	21:59		20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22		21:22 (8)	04:59		06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	22	21:44 (8)	21:57		20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22		21:22 (8)	05:01		06:06	07:11	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	22	21:44 (8)	21:55		20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23		21:22 (8)	05:03		06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	22	21:44 (8)	21:53		20:39	19:13	16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23		21:22 (8)	05:05		06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	22	21:44 (8)	21:51		20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24		21:23 (8)	05:07		06:12	07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:01	22:02	22:27	21	21:44 (8)	21:49		20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24		21:24 (8)	05:09		06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	20	21:44 (8)	21:47		20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25		21:23 (8)	05:11		06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	20	21:43 (8)	21:45		20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34				05:13		06:19		07:31		09:06
	16:44		19:59		22:07				21:43		20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539			538		474	386	321	241	207
Total, worst case							539			135					
Sun reduction							0,53			0,57					
Oper. time red.							0,93			0,93					
Wind dir. red.							0,74			0,74					
Total reduction							0,37			0,39					
Total, real							197			52					

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: T - Einbluti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
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	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
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	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
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	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
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	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
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31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: U - Ilgupils

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
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	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
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	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
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20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
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	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
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23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
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31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: V - Indrani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
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	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
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	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
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	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
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14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: W - Jaunauzinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:41	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: X - Jaunjeceni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June
1	09:07		10:11 (4)	08:27		09:05 (7)	07:20			06:54		05:34	04:33
	15:46	81	12:42 (3)	16:46	69	10:44 (4)	17:52			20:01		21:08	22:09
2	09:06		10:10 (4)	08:25		09:04 (7)	07:17			06:51		05:31	04:32
	15:47	80	12:42 (3)	16:48	69	10:43 (4)	17:54			20:03		21:10	22:10
3	09:06		10:10 (4)	08:23		09:04 (7)	07:14			06:48		05:29	04:31
	15:48	80	12:42 (3)	16:51	64	10:41 (4)	17:57			20:06		21:12	22:12
4	09:06		10:10 (4)	08:21		09:05 (7)	07:12			06:46		05:27	04:29
	15:50	79	12:42 (3)	16:53	58	10:39 (4)	17:59			20:08		21:14	22:13
5	09:05		10:11 (4)	08:19		09:04 (7)	07:09			06:43		05:24	04:28
	15:51	80	12:43 (3)	16:56	50	10:34 (4)	18:01			20:10		21:16	22:15
6	09:04		10:11 (4)	08:17		09:05 (7)	07:06			06:40		05:22	04:27
	15:53	79	12:43 (3)	16:58	45	09:50 (1)	18:03			20:12		21:19	22:16
7	09:04		10:11 (4)	08:14		09:05 (7)	07:03			06:37		05:19	04:26
	15:54	79	12:44 (3)	17:00	43	09:48 (1)	18:06			20:14		21:21	22:17
8	09:03		10:10 (4)	08:12		09:06 (7)	07:01			06:34		05:17	04:26
	15:56	78	12:43 (3)	17:03	42	09:48 (1)	18:08			20:17		21:23	22:18
9	09:02		10:10 (4)	08:10		09:06 (7)	06:58			06:32		05:15	04:25
	15:58	75	12:43 (3)	17:05	39	09:47 (1)	18:10			20:19		21:25	22:19
10	09:01		10:10 (4)	08:08		09:08 (7)	06:55			06:29		05:13	04:24
	15:59	73	12:43 (3)	17:07	34	09:46 (1)	18:13			20:21		21:27	22:21
11	09:00		10:11 (4)	08:05		09:09 (7)	06:53			06:26		05:10	04:23
	16:01	71	12:44 (3)	17:10	27	09:43 (1)	18:15			20:23		21:29	22:22
12	08:59		10:10 (4)	08:03		09:12 (7)	06:50		07:16 (10)	06:23		05:08	04:23
	16:03	62	12:43 (3)	17:12	15	09:40 (1)	18:17	7	07:23 (10)	20:26		21:31	22:22
13	08:58		10:11 (4)	08:00			06:47		07:13 (10)	06:21		05:06	04:22
	16:05	61	12:43 (3)	17:15			18:19	12	07:25 (10)	20:28		21:34	22:23
14	08:57		10:10 (4)	07:58			06:44		07:10 (10)	06:18		05:04	04:22
	16:07	62	12:43 (3)	17:17			18:21	16	07:26 (10)	20:30		21:36	22:24
15	08:56		10:11 (4)	07:56			06:41		07:09 (10)	06:15		05:02	04:22
	16:09	60	12:43 (3)	17:19			18:24	19	07:28 (10)	20:32		21:38	22:25
16	08:55		10:11 (4)	07:53			06:39		07:08 (10)	06:13		05:00	04:21
	16:11	58	12:42 (3)	17:22			18:26	20	07:28 (10)	20:34		21:40	22:25
17	08:53		10:10 (4)	07:51			06:36		07:07 (10)	06:10		04:58	04:21
	16:13	58	12:41 (3)	17:24			18:28	21	07:28 (10)	20:37		21:42	22:26
18	08:52		10:11 (4)	07:48			06:33		07:06 (10)	06:07		04:56	04:21
	16:15	56	12:41 (3)	17:26			18:30	22	07:28 (10)	20:39		21:44	22:27
19	08:50		09:28 (1)	07:46			06:30		07:06 (10)	06:05		04:54	04:21
	16:17	62	12:40 (3)	17:29			18:33	21	07:27 (10)	20:41		21:46	22:27
20	08:49		09:26 (1)	07:43			06:27		07:07 (10)	06:02		04:52	04:21
	16:19	61	12:38 (3)	17:31			18:35	20	07:27 (10)	20:43		21:48	22:27
21	08:47		09:24 (1)	07:41			06:25		07:07 (10)	05:59		04:50	04:21
	16:21	59	12:35 (3)	17:33			18:37	19	07:26 (10)	20:45		21:50	22:28
22	08:46		09:23 (1)	07:38			06:22		07:07 (10)	05:57		04:48	04:21
	16:23	55	10:47 (4)	17:36			18:39	18	07:25 (10)	20:48		21:52	22:28
23	08:44		09:23 (1)	07:35			06:19		07:08 (10)	05:54		04:47	04:21
	16:25	56	10:47 (4)	17:38			18:41	15	07:23 (10)	20:50		21:53	22:28
24	08:42		09:22 (1)	07:33			06:16		07:10 (10)	05:51		04:45	04:22
	16:28	57	10:47 (4)	17:40			18:44	10	07:20 (10)	20:52		21:55	22:28
25	08:41		09:22 (1)	07:30			06:13			05:49		04:43	04:22
	16:30	58	10:47 (4)	17:43			18:46			20:54		21:57	22:28
26	08:39		09:13 (7)	07:28			06:11			05:46		04:42	04:23
	16:32	62	10:47 (4)	17:45			18:48			20:57		21:59	22:28
27	08:37		09:11 (7)	07:25			06:08			05:44		04:40	04:23
	16:34	67	10:47 (4)	17:47			18:50			20:59		22:01	22:28
28	08:35		09:09 (7)	07:22			06:05			05:41		04:38	04:24
	16:37	71	10:47 (4)	17:50			18:52			21:01		22:02	22:27
29	08:33		09:06 (7)				07:02			05:39		04:37	04:24
	16:39	73	10:46 (4)				19:55			21:03		22:04	22:27
30	08:31		09:05 (7)				06:59			05:36		04:36	04:25
	16:41	73	10:46 (4)				19:57			21:05		22:06	22:27
31	08:29		09:05 (7)				06:57					04:34	
	16:44	72	10:45 (4)				19:59					22:07	
Potential sun hours	227			262			365			429		515	539
Total, worst case		2098			555			220					
Sun reduction		0,13			0,22			0,37					
Oper. time red.		0,93			0,93			0,93					
Wind dir. red.		0,36			0,65			0,98					
Total reduction		0,04			0,13			0,33					
Total, real		91			74			73					

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: X - Jaunjeceni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:25		07:54 (10)	07:34		08:37 (7)	08:39		09:53 (4)
	22:26		21:42		20:24			19:00	9	08:03 (10)	16:38	35	09:15 (1)	15:43	70	12:26 (3)
2	04:27		05:17		06:23			07:27		07:56 (10)	07:36		08:36 (7)	08:41		09:53 (4)
	22:26		21:39		20:21			18:57	2	07:58 (10)	16:36	39	09:16 (1)	15:42	75	12:27 (3)
3	04:28		05:19		06:25			07:29			07:38		08:35 (7)	08:43		09:54 (4)
	22:25		21:37		20:18			18:54			16:33	43	09:18 (1)	15:41	76	12:27 (3)
4	04:29		05:21		06:27			07:31			07:41		08:34 (7)	08:44		09:55 (4)
	22:24		21:35		20:15			18:51			16:31	44	09:18 (1)	15:40	77	12:28 (3)
5	04:30		05:24		06:30			07:33			07:43		08:35 (7)	08:46		09:56 (4)
	22:24		21:33		20:13			18:48			16:29	44	09:19 (1)	15:40	79	12:29 (3)
6	04:31		05:26		06:32			07:35			07:45		08:34 (7)	08:48		09:57 (4)
	22:23		21:30		20:10			18:46			16:27	52	10:05 (4)	15:39	79	12:29 (3)
7	04:32		05:28		06:34			07:38			07:48		08:34 (7)	08:49		09:57 (4)
	22:22		21:28		20:07			18:43			16:24	60	10:09 (4)	15:38	79	12:29 (3)
8	04:33		05:30		06:36			07:40			07:50		08:35 (7)	08:51		09:58 (4)
	22:21		21:26		20:04			18:40			16:22	65	10:12 (4)	15:37	79	12:30 (3)
9	04:35		05:32		06:38			07:42			07:52		08:35 (7)	08:52		09:59 (4)
	22:20		21:23		20:01			18:37			16:20	68	10:13 (4)	15:37	80	12:31 (3)
10	04:36		05:34		06:40			07:44			07:55		08:36 (7)	08:54		09:59 (4)
	22:19		21:21		19:59			18:35			16:18	70	10:15 (4)	15:36	80	12:31 (3)
11	04:37		05:36		06:42			07:46			07:57		08:36 (7)	08:55		10:01 (4)
	22:18		21:18		19:56			18:32			16:16	72	10:16 (4)	15:36	81	12:32 (3)
12	04:39		05:38		06:44			07:49			07:59		08:37 (7)	08:56		10:01 (4)
	22:17		21:16		19:53			18:29			16:14	72	10:17 (4)	15:36	80	12:32 (3)
13	04:40		05:40		06:46			07:51			08:01		08:38 (7)	08:58		10:02 (4)
	22:15		21:14		19:50			18:27			16:12	73	10:18 (4)	15:35	79	12:32 (3)
14	04:42		05:43		06:49			07:53			08:04		08:41 (7)	08:59		10:03 (4)
	22:14		21:11		19:47			18:24			16:10	71	10:19 (4)	15:35	80	12:34 (3)
15	04:44		05:45		06:51			07:55			08:06		08:44 (7)	09:00		10:04 (4)
	22:13		21:09		19:45			18:21			16:08	67	10:20 (4)	15:35	79	12:34 (3)
16	04:45		05:47		06:53			07:57			08:08		08:46 (7)	09:01		10:05 (4)
	22:11		21:06		19:42			18:19			16:06	62	10:20 (4)	15:35	78	12:34 (3)
17	04:47		05:49		06:55			08:00			08:10		08:56 (1)	09:02		10:05 (4)
	22:10		21:03		19:39			18:16			16:04	58	10:21 (4)	15:35	78	12:35 (3)
18	04:49		05:51		06:57			08:02			08:13		08:56 (1)	09:03		10:06 (4)
	22:08		21:01		19:36			18:13			16:02	57	10:21 (4)	15:35	78	12:36 (3)
19	04:50		05:53		06:59		07:58 (10)	08:04			08:15		08:58 (1)	09:03		10:06 (4)
	22:06		20:58		19:33	9	08:07 (10)	18:11			16:01	56	10:22 (4)	15:35	78	12:35 (3)
20	04:52		05:55		07:01		07:55 (10)	08:06			08:17		08:58 (1)	09:04		10:07 (4)
	22:05		20:56		19:30	14	08:09 (10)	18:08			15:59	55	10:22 (4)	15:36	77	12:36 (3)
21	04:54		05:58		07:03		07:53 (10)	08:09			08:19		09:00 (1)	09:05		10:08 (4)
	22:03		20:53		19:28	17	08:10 (10)	18:05			15:57	60	12:11 (3)	15:36	76	12:37 (3)
22	04:56		06:00		07:05		07:52 (10)	08:11			08:21		09:02 (1)	09:05		10:08 (4)
	22:01		20:50		19:25	19	08:11 (10)	18:03			15:56	61	12:14 (3)	15:37	76	12:37 (3)
23	04:58		06:02		07:08		07:51 (10)	08:13			08:23		09:05 (1)	09:06		10:09 (4)
	22:00		20:48		19:22	20	08:11 (10)	18:00			15:54	62	12:17 (3)	15:37	77	12:38 (3)
24	04:59		06:04		07:10		07:50 (10)	08:15			08:25		09:48 (4)	09:06		10:09 (4)
	21:58		20:45		19:19	21	08:11 (10)	17:58			15:52	56	12:18 (3)	15:38	77	12:38 (3)
25	05:01		06:06		07:12		07:49 (10)	07:18			08:27		09:49 (4)	09:07		10:09 (4)
	21:56		20:43		19:16	21	08:10 (10)	16:55			15:51	57	12:19 (3)	15:38	78	12:38 (3)
26	05:03		06:08		07:14		07:49 (10)	07:20			08:30		09:50 (4)	09:07		10:09 (4)
	21:54		20:40		19:14	21	08:10 (10)	16:53			15:50	58	12:21 (3)	15:39	79	12:39 (3)
27	05:05		06:10		07:16		07:50 (10)	07:22			08:32		09:50 (4)	09:07		10:10 (4)
	21:52		20:37		19:11	20	08:10 (10)	16:50			15:48	60	12:22 (3)	15:40	78	12:39 (3)
28	05:07		06:12		07:18		07:50 (10)	07:25			08:33		09:50 (4)	09:07		10:10 (4)
	21:50		20:34		19:08	19	08:09 (10)	16:48			15:47	61	12:23 (3)	15:41	78	12:40 (3)
29	05:09		06:15		07:20		07:50 (10)	07:27			08:35		09:51 (4)	09:07		10:10 (4)
	21:48		20:32		19:05	18	08:08 (10)	16:45			15:46	62	12:24 (3)	15:42	78	12:40 (3)
30	05:11		06:17		07:22		07:52 (10)	07:29		08:41 (7)	08:37		09:52 (4)	09:07		10:11 (4)
	21:46		20:29		19:02	14	08:06 (10)	16:43	17	09:10 (1)	15:44	62	12:25 (3)	15:43	79	12:41 (3)
31	05:13		06:19					07:31		08:38 (7)				09:07		10:10 (4)
	21:44		20:26					16:40	29	09:13 (1)				15:44	80	12:41 (3)
Potential sun hours	538		474		386			321			241			207		
Total, worst case						213			57			1762			2418	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,98			0,74			0,50			0,22	
Total reduction						0,39			0,21			0,07			0,03	
Total, real						83			12			126			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)

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SHADOW - Calendar

Shadow receptor: Y - Jaunkastanas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:07			08:27		09:35 (2)	07:20			06:54			05:34		06:03 (1)	04:33		06:48 (3)
	15:46			16:46	35	10:10 (2)	17:52			20:01			21:08	61	07:26 (3)	22:09	29	07:17 (3)
2	09:06			08:25		09:34 (2)	07:17			06:51			05:31		06:01 (1)	04:32		06:49 (3)
	15:47			16:49	36	10:10 (2)	17:54			20:04			21:10	65	07:27 (3)	22:10	27	07:16 (3)
3	09:06			08:23		09:34 (2)	07:14			06:48			05:29		05:59 (1)	04:31		06:49 (3)
	15:48			16:51	36	10:10 (2)	17:57			20:06			21:12	67	07:26 (3)	22:12	26	07:15 (3)
4	09:05			08:21		09:35 (2)	07:12			06:46			05:27		05:59 (1)	04:30		06:50 (3)
	15:50			16:53	36	10:11 (2)	17:59			20:08			21:14	67	07:26 (3)	22:13	24	07:14 (3)
5	09:05			08:19		09:34 (2)	07:09			06:43			05:24		05:59 (1)	04:29		06:51 (3)
	15:51			16:56	36	10:10 (2)	18:01			20:10			21:16	68	07:27 (3)	22:15	22	07:13 (3)
6	09:04			08:17		09:35 (2)	07:06			06:40			05:22		06:00 (1)	04:28		06:52 (3)
	15:53			16:58	36	10:11 (2)	18:04			20:12			21:19	67	07:27 (3)	22:16	20	07:12 (3)
7	09:04			08:14		09:35 (2)	07:04			06:37			05:20		06:00 (1)	04:27		06:54 (3)
	15:54			17:00	35	10:10 (2)	18:06			20:15			21:21	66	07:27 (3)	22:17	18	07:12 (3)
8	09:03			08:12		09:36 (2)	07:01			06:35			05:17		06:01 (1)	04:26		06:55 (3)
	15:56			17:03	34	10:10 (2)	18:08			20:17			21:23	64	07:27 (3)	22:18	16	07:11 (3)
9	09:02			08:10		09:36 (2)	06:58			06:32			05:15		06:02 (1)	04:25		06:56 (3)
	15:58			17:05	34	10:10 (2)	18:10			20:19			21:25	62	07:27 (3)	22:19	13	07:09 (3)
10	09:01			08:08		09:37 (2)	06:55			06:29			05:13		06:03 (1)	04:24		06:58 (3)
	15:59			17:08	33	10:10 (2)	18:13			20:21			21:27	60	07:27 (3)	22:20	11	07:09 (3)
11	09:00			08:05		09:37 (2)	06:53			06:26			05:11		06:06 (1)	04:24		06:59 (3)
	16:01			17:10	31	10:08 (2)	18:15			20:23			21:29	54	07:27 (3)	22:21	7	07:06 (3)
12	08:59			08:03		09:38 (2)	06:50			06:24			05:08		06:37 (3)	04:23		
	16:03			17:12	30	10:08 (2)	18:17			20:26			21:31	50	07:27 (3)	22:22		
13	08:58			08:00		09:39 (2)	06:47		07:19 (5)	06:21			05:06		06:37 (3)	04:23		
	16:05			17:15	28	10:07 (2)	18:19	13	07:32 (5)	20:28			21:34	49	07:26 (3)	22:23		
14	08:57			07:58		09:40 (2)	06:44		07:17 (5)	06:18		06:52 (4)	05:04		06:37 (3)	04:22		
	16:07			17:17	25	10:05 (2)	18:22	18	07:35 (5)	20:30	8	07:00 (4)	21:36	49	07:26 (3)	22:24		
15	08:56			07:56		09:42 (2)	06:41		07:15 (5)	06:15		06:48 (4)	05:02		06:37 (3)	04:22		
	16:09			17:19	22	10:04 (2)	18:24	21	07:36 (5)	20:32	15	07:03 (4)	21:38	48	07:25 (3)	22:25		
16	08:55			07:53		09:44 (2)	06:39		07:13 (5)	06:13		06:46 (4)	05:00		06:37 (3)	04:22		
	16:11			17:22	17	10:01 (2)	18:26	24	07:37 (5)	20:34	19	07:05 (4)	21:40	48	07:25 (3)	22:25		
17	08:53			07:51		09:48 (2)	06:36		07:12 (5)	06:10		06:44 (4)	04:58		06:37 (3)	04:21		
	16:13			17:24	10	09:58 (2)	18:28	25	07:37 (5)	20:37	22	07:06 (4)	21:42	47	07:24 (3)	22:26		
18	08:52			07:48			06:33		07:11 (5)	06:07		06:42 (4)	04:56		06:38 (3)	04:21		
	16:15			17:26			18:30	26	07:37 (5)	20:39	24	07:06 (4)	21:44	47	07:25 (3)	22:26		
19	08:50		09:45 (2)	07:46			06:30		07:10 (5)	06:05		06:42 (4)	04:54		06:38 (3)	04:21		
	16:17	8	09:53 (2)	17:29			18:33	27	07:37 (5)	20:41	25	07:07 (4)	21:46	46	07:24 (3)	22:27		
20	08:49		09:42 (2)	07:43			06:28		07:10 (5)	06:02		06:40 (4)	04:52		06:38 (3)	04:21		
	16:19	14	09:56 (2)	17:31			18:35	28	07:38 (5)	20:43	32	07:12 (3)	21:48	45	07:23 (3)	22:27		
21	08:47		09:41 (2)	07:41			06:25		07:09 (5)	05:59		06:40 (4)	04:50		06:39 (3)	04:21		
	16:21	17	09:58 (2)	17:34			18:37	29	07:38 (5)	20:45	35	07:15 (3)	21:50	44	07:23 (3)	22:28		
22	08:46		09:39 (2)	07:38			06:22		07:09 (5)	05:57		06:39 (4)	04:48		06:39 (3)	04:21		
	16:23	21	10:00 (2)	17:36			18:39	28	07:37 (5)	20:48	38	07:17 (3)	21:52	43	07:22 (3)	22:28		
23	08:44		09:38 (2)	07:35			06:19		07:09 (5)	05:54		06:39 (4)	04:47		06:41 (3)	04:22		
	16:26	23	10:01 (2)	17:38			18:42	27	07:36 (5)	20:50	40	07:19 (3)	21:53	41	07:22 (3)	22:28		
24	08:42		09:37 (2)	07:33			06:16		07:09 (5)	05:52		06:38 (4)	04:45		06:41 (3)	04:22		
	16:28	26	10:03 (2)	17:41			18:44	26	07:35 (5)	20:52	42	07:20 (3)	21:55	40	07:21 (3)	22:28		
25	08:41		09:37 (2)	07:30			06:14		07:09 (5)	05:49		06:39 (4)	04:43		06:42 (3)	04:22		
	16:30	27	10:04 (2)	17:43			18:46	25	07:34 (5)	20:54	43	07:22 (3)	21:57	39	07:21 (3)	22:28		
26	08:39		09:36 (2)	07:28			06:11		07:10 (5)	05:46		06:39 (4)	04:42		06:43 (3)	04:23		
	16:32	29	10:05 (2)	17:45			18:48	24	07:34 (5)	20:57	44	07:23 (3)	21:59	38	07:21 (3)	22:28		
27	08:37		09:36 (2)	07:25			06:08		07:11 (5)	05:44		06:12 (1)	04:40		06:43 (3)	04:23		
	16:35	30	10:06 (2)	17:47			18:50	21	07:32 (5)	20:59	45	07:23 (3)	22:01	36	07:19 (3)	22:28		
28	08:35		09:36 (2)	07:22			06:05		07:12 (5)	05:41		06:10 (1)	04:39		06:44 (3)	04:24		
	16:37	31	10:07 (2)	17:50			18:53	17	07:29 (5)	21:01	50	07:24 (3)	22:02	35	07:19 (3)	22:27		
29	08:33		09:34 (2)				07:02		08:14 (5)	05:39		06:08 (1)	04:37		06:45 (3)	04:25		
	16:39	33	10:07 (2)				19:55	12	08:26 (5)	21:03	54	07:25 (3)	22:04	34	07:19 (3)	22:27		
30	08:31		09:34 (2)				07:00			05:36		06:05 (1)	04:36		06:46 (3)	04:25		
	16:42	34	10:08 (2)				19:57			21:05	58	07:25 (3)	22:06	32	07:18 (3)	22:27		
31	08:29		09:34 (2)				06:57						04:34		06:47 (3)			
	16:44	35	10:09 (2)				19:59						22:07	30	07:17 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		328			514			391			594			1542			213	
Sun reduction		0,13			0,22			0,37			0,46			0,58			0,53	
Oper. time red.		0,93			0,93			0,93			0,93			0,93			0,93	
Wind dir. red.		0,61			0,61			0,97			0,98			0,98			0,98	
Total reduction		0,07			0,12			0,33			0,42			0,53			0,49	
Total, real		24			64			130			250			814			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)

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Calculated:
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Shadow receptor: Y - Jaunkastanas

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Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July			August			September			October			November			December
1	04:26		07:04 (3)	05:15		06:47 (3)	06:21			07:25		08:01 (5)	07:34		09:06 (2)	08:39
	22:26	6	07:10 (3)	21:42	50	07:37 (3)	20:24			19:00	8	08:09 (5)	16:38	33	09:39 (2)	15:44
2	04:27		07:03 (3)	05:17		06:15 (1)	06:23			07:27			07:36		09:05 (2)	08:41
	22:26	9	07:12 (3)	21:39	57	07:37 (3)	20:21			18:57			16:36	34	09:39 (2)	15:42
3	04:28		07:02 (3)	05:19		06:13 (1)	06:25			07:29			07:38		09:05 (2)	08:43
	22:25	12	07:14 (3)	21:37	61	07:37 (3)	20:18			18:54			16:34	35	09:40 (2)	15:41
4	04:29		07:01 (3)	05:22		06:11 (1)	06:27			07:31			07:41		09:04 (2)	08:44
	22:24	15	07:16 (3)	21:35	63	07:36 (3)	20:15			18:51			16:31	36	09:40 (2)	15:41
5	04:30		07:00 (3)	05:24		06:10 (1)	06:30			07:33			07:43		09:05 (2)	08:46
	22:24	17	07:17 (3)	21:33	65	07:36 (3)	20:13			18:49			16:29	36	09:41 (2)	15:40
6	04:31		06:59 (3)	05:26		06:09 (1)	06:32			07:35			07:45		09:04 (2)	08:48
	22:23	19	07:18 (3)	21:30	67	07:36 (3)	20:10			18:46			16:27	36	09:40 (2)	15:39
7	04:32		06:58 (3)	05:28		06:09 (1)	06:34			07:38			07:48		09:04 (2)	08:49
	22:22	21	07:19 (3)	21:28	67	07:36 (3)	20:07			18:43			16:25	37	09:41 (2)	15:38
8	04:34		06:57 (3)	05:30		06:08 (1)	06:36			07:40			07:50		09:05 (2)	08:51
	22:21	23	07:20 (3)	21:26	68	07:36 (3)	20:04			18:40			16:22	36	09:41 (2)	15:38
9	04:35		06:56 (3)	05:32		06:08 (1)	06:38			07:42			07:52		09:05 (2)	08:52
	22:20	25	07:21 (3)	21:23	67	07:36 (3)	20:01			18:38			16:20	35	09:40 (2)	15:37
10	04:36		06:56 (3)	05:34		06:08 (1)	06:40			07:44			07:54		09:05 (2)	08:54
	22:19	27	07:23 (3)	21:21	66	07:35 (3)	19:59			18:35			16:18	36	09:41 (2)	15:37
11	04:38		06:55 (3)	05:36		06:10 (1)	06:42			07:46			07:57		09:05 (2)	08:55
	22:18	29	07:24 (3)	21:18	64	07:35 (3)	19:56			18:32			16:16	35	09:40 (2)	15:36
12	04:39		06:55 (3)	05:38		06:12 (1)	06:44			07:49			07:59		09:06 (2)	08:56
	22:16	30	07:25 (3)	21:16	60	07:34 (3)	19:53			18:29			16:14	34	09:40 (2)	15:36
13	04:41		06:54 (3)	05:41		06:14 (1)	06:46			07:51			08:01		09:06 (2)	08:58
	22:15	31	07:25 (3)	21:14	57	07:34 (3)	19:50			18:27			16:12	33	09:39 (2)	15:36
14	04:42		06:54 (3)	05:43		06:16 (1)	06:49		08:05 (5)	07:53			08:04		09:07 (2)	08:59
	22:14	33	07:27 (3)	21:11	54	07:33 (3)	19:47	11	08:16 (5)	18:24			16:10	32	09:39 (2)	15:35
15	04:44		06:53 (3)	05:45		06:18 (1)	06:51		08:02 (5)	07:55			08:06		09:09 (2)	09:00
	22:12	34	07:27 (3)	21:09	50	07:32 (3)	19:45	17	08:19 (5)	18:21			16:08	30	09:39 (2)	15:35
16	04:45		06:53 (3)	05:47		06:46 (4)	06:53		08:00 (5)	07:57			08:08		09:09 (2)	09:01
	22:11	36	07:29 (3)	21:06	45	07:31 (3)	19:42	20	08:20 (5)	18:19			16:06	29	09:38 (2)	15:35
17	04:47		06:52 (3)	05:49		06:46 (4)	06:55		07:59 (5)	08:00			08:10		09:11 (2)	09:02
	22:10	37	07:29 (3)	21:03	44	07:30 (3)	19:39	23	08:22 (5)	18:16			16:04	27	09:38 (2)	15:35
18	04:49		06:52 (3)	05:51		06:45 (4)	06:57		07:57 (5)	08:02			08:13		09:11 (2)	09:03
	22:08	38	07:30 (3)	21:01	43	07:28 (3)	19:36	25	08:22 (5)	18:13			16:02	26	09:37 (2)	15:35
19	04:50		06:51 (3)	05:53		06:45 (4)	06:59		07:56 (5)	08:04			08:15		09:13 (2)	09:03
	22:06	40	07:31 (3)	20:58	42	07:27 (3)	19:33	27	08:23 (5)	18:11			16:01	23	09:36 (2)	15:36
20	04:52		06:51 (3)	05:56		06:45 (4)	07:01		07:55 (5)	08:06			08:17		09:14 (2)	09:04
	22:05	41	07:32 (3)	20:56	40	07:25 (3)	19:30	28	08:23 (5)	18:08			15:59	21	09:35 (2)	15:36
21	04:54		06:51 (3)	05:58		06:45 (4)	07:03		07:55 (5)	08:09			08:19		09:17 (2)	09:05
	22:03	42	07:33 (3)	20:53	37	07:22 (3)	19:28	28	08:23 (5)	18:06			15:57	17	09:34 (2)	15:36
22	04:56		06:49 (3)	06:00		06:45 (4)	07:05		07:54 (5)	08:11			08:21		09:18 (2)	09:05
	22:01	44	07:33 (3)	20:50	35	07:20 (3)	19:25	28	08:22 (5)	18:03			15:56	14	09:32 (2)	15:37
23	04:58		06:49 (3)	06:02		06:45 (4)	07:08		07:54 (5)	08:13			08:23		09:21 (2)	09:06
	21:59	45	07:34 (3)	20:48	31	07:16 (3)	19:22	28	08:22 (5)	18:00			15:54	8	09:29 (2)	15:37
24	05:00		06:49 (3)	06:04		06:45 (4)	07:10		07:53 (5)	08:15			08:25			09:06
	21:58	45	07:34 (3)	20:45	26	07:11 (4)	19:19	28	08:21 (5)	17:58			15:53			15:38
25	05:01		06:48 (3)	06:06		06:46 (4)	07:12		07:53 (5)	07:18		09:16 (2)	08:27			09:07
	21:56	46	07:34 (3)	20:43	24	07:10 (4)	19:16	27	08:20 (5)	16:55	12	09:28 (2)	15:51			15:39
26	05:03		06:48 (3)	06:08		06:47 (4)	07:14		07:53 (5)	07:20		09:14 (2)	08:29			09:07
	21:54	47	07:35 (3)	20:40	21	07:08 (4)	19:14	26	08:19 (5)	16:53	18	09:32 (2)	15:50			15:39
27	05:05		06:48 (3)	06:10		06:48 (4)	07:16		07:55 (5)	07:22		09:11 (2)	08:31			09:07
	21:52	48	07:36 (3)	20:37	19	07:07 (4)	19:11	24	08:19 (5)	16:50	23	09:34 (2)	15:48			15:40
28	05:07		06:48 (3)	06:13		06:50 (4)	07:18		07:55 (5)	07:25		09:10 (2)	08:33			09:07
	21:50	48	07:36 (3)	20:34	14	07:04 (4)	19:08	22	08:17 (5)	16:48	26	09:36 (2)	15:47			15:41
29	05:09		06:47 (3)	06:15		06:53 (4)	07:20		07:56 (5)	07:27		09:08 (2)	08:35			09:07
	21:48	49	07:36 (3)	20:32	8	07:01 (4)	19:05	19	08:15 (5)	16:45	28	09:36 (2)	15:46			15:42
30	05:11		06:47 (3)	06:17			07:23		07:58 (5)	07:29		09:08 (2)	08:37			09:07
	21:46	49	07:36 (3)	20:29			19:02	15	08:13 (5)	16:43	30	09:38 (2)	15:45			15:43
31	05:13		06:47 (3)	06:19						07:31		09:06 (2)				09:07
	21:44	50	07:37 (3)	20:26						16:41	32	09:38 (2)				15:44
Potential sun hours	538			474			386			321			241			207
Total, worst case		1036			1345			396			177			683		
Sun reduction		0,57			0,55			0,43			0,31			0,15		
Oper. time red.		0,93			0,93			0,93			0,93			0,93		
Wind dir. red.		0,98			0,98			0,97			0,62			0,61		
Total reduction		0,52			0,50			0,39			0,18			0,09		
Total, real		536			667			154			31			59		

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: Z - Jaunspringi
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June
1	09:06			08:27		15:15 (12)	07:19		16:22 (13)	06:54		05:33	04:33
	15:45			16:46	17	15:32 (12)	17:52	22	16:44 (13)	20:01		21:07	22:09
2	09:06			08:25		15:17 (12)	07:17		16:23 (13)	06:51		05:31	04:31
	15:46			16:48	14	15:31 (12)	17:54	19	16:42 (13)	20:03		21:09	22:10
3	09:06			08:23		15:19 (12)	07:14		16:26 (13)	06:48		05:29	04:30
	15:48			16:50	11	15:30 (12)	17:56	12	16:38 (13)	20:05		21:12	22:12
4	09:05			08:21			07:11			06:45		05:26	04:29
	15:49			16:53			17:59			20:08		21:14	22:13
5	09:05			08:19			07:09			06:42		05:24	04:28
	15:51			16:55			18:01			20:10		21:16	22:14
6	09:04			08:16			07:06			06:40		05:21	04:27
	15:52			16:58			18:03			20:12		21:18	22:16
7	09:03			08:14			07:03			06:37		05:19	04:26
	15:54			17:00			18:05			20:14		21:20	22:17
8	09:03			08:12			07:00			06:34		05:17	04:25
	15:55			17:02			18:08			20:16		21:23	22:18
9	09:02			08:10			06:58			06:31		05:15	04:24
	15:57			17:05			18:10			20:19		21:25	22:19
10	09:01			08:07			06:55			06:29		05:12	04:24
	15:59			17:07			18:12			20:21		21:27	22:20
11	09:00		15:15 (12)	08:05		16:28 (13)	06:52			06:26		05:10	04:23
	16:01	3	15:18 (12)	17:09	8	16:36 (13)	18:14			20:23		21:29	22:21
12	08:59		15:13 (12)	08:03		16:25 (13)	06:49			06:23		05:08	04:22
	16:02	6	15:19 (12)	17:12	13	16:38 (13)	18:17			20:25		21:31	22:22
13	08:58		15:12 (12)	08:00		16:24 (13)	06:47			06:20		05:06	04:22
	16:04	10	15:22 (12)	17:14	17	16:41 (13)	18:19			20:27		21:33	22:23
14	08:57		15:11 (12)	07:58		16:22 (13)	06:44			06:18		05:04	04:22
	16:06	13	15:24 (12)	17:17	21	16:43 (13)	18:21			20:30		21:35	22:24
15	08:56		15:11 (12)	07:55		16:21 (13)	06:41			06:15		05:01	04:21
	16:08	15	15:26 (12)	17:19	26	16:47 (13)	18:23			20:32		21:37	22:25
16	08:54		15:10 (12)	07:53		16:20 (13)	06:38			06:12		04:59	04:21
	16:10	18	15:28 (12)	17:21	27	16:47 (13)	18:26			20:34		21:39	22:25
17	08:53		15:10 (12)	07:50		16:19 (13)	06:36			06:10		04:57	04:21
	16:12	20	15:30 (12)	17:24	29	16:48 (13)	18:28			20:36		21:42	22:26
18	08:52		15:09 (12)	07:48		16:19 (13)	06:33			06:07		04:55	04:21
	16:14	21	15:30 (12)	17:26	30	16:49 (13)	18:30			20:38		21:44	22:26
19	08:50		15:10 (12)	07:45		16:18 (13)	06:30			06:04		04:54	04:21
	16:16	22	15:32 (12)	17:28	31	16:49 (13)	18:32			20:41		21:46	22:27
20	08:49		15:10 (12)	07:43		16:17 (13)	06:27			06:02		04:52	04:21
	16:19	23	15:33 (12)	17:31	32	16:49 (13)	18:35			20:43		21:47	22:27
21	08:47		15:10 (12)	07:40		16:18 (13)	06:24			05:59		04:50	04:21
	16:21	23	15:33 (12)	17:33	31	16:49 (13)	18:37			20:45		21:49	22:27
22	08:45		15:10 (12)	07:38		16:17 (13)	06:22			05:56		04:48	04:21
	16:23	24	15:34 (12)	17:35	32	16:49 (13)	18:39			20:47		21:51	22:28
23	08:44		15:10 (12)	07:35		16:17 (13)	06:19			05:54		04:46	04:21
	16:25	24	15:34 (12)	17:38	32	16:49 (13)	18:41			20:50		21:53	22:28
24	08:42		15:10 (12)	07:33		16:17 (13)	06:16			05:51		04:44	04:21
	16:27	24	15:34 (12)	17:40	31	16:48 (13)	18:43			20:52		21:55	22:28
25	08:40		15:10 (12)	07:30		16:18 (13)	06:13			05:49		04:43	04:22
	16:30	25	15:35 (12)	17:42	30	16:48 (13)	18:46			20:54		21:57	22:28
26	08:39		15:11 (12)	07:27		16:18 (13)	06:10			05:46		04:41	04:22
	16:32	24	15:35 (12)	17:45	29	16:47 (13)	18:48			20:56		21:59	22:28
27	08:37		15:11 (12)	07:25		16:19 (13)	06:08			05:43		04:40	04:23
	16:34	24	15:35 (12)	17:47	27	16:46 (13)	18:50			20:58		22:00	22:27
28	08:35		15:11 (12)	07:22		16:20 (13)	06:05			05:41		04:38	04:23
	16:36	23	15:34 (12)	17:49	24	16:44 (13)	18:52			21:01		22:02	22:27
29	08:33		15:12 (12)				07:02			05:38		04:37	04:24
	16:39	22	15:34 (12)				19:54			21:03		22:04	22:27
30	08:31		15:13 (12)				06:59			05:36		04:35	04:25
	16:41	21	15:34 (12)				19:57			21:05		22:06	22:27
31	08:29		15:14 (12)				06:56					04:34	
	16:43	20	15:34 (12)				19:59					22:07	
Potential sun hours	227			262			365			429		516	539
Total, worst case		405			512			53					
Sun reduction		0,13			0,22			0,37					
Oper. time red.		0,93			0,93			0,93					
Wind dir. red.		0,67			0,85			0,87					
Total reduction		0,08			0,18			0,30					
Total, real		33			90			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)

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Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: Z - Jaunspringi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October		November		December	
1	04:26	05:15	06:21	07:24		07:33		08:39	14:56 (12)
	22:26	21:41	20:23	18:59		16:38		15:43	3 14:59 (12)
2	04:26	05:17	06:23	07:26		07:36		08:41	
	22:26	21:39	20:20	18:56		16:35		15:42	
3	04:27	05:19	06:25	07:29		07:38		08:42	
	22:25	21:37	20:18	18:54		16:33		15:41	
4	04:28	05:21	06:27	07:31		07:40		08:44	
	22:24	21:35	20:15	18:51		16:31		15:40	
5	04:29	05:23	06:29	07:33		07:43		08:46	
	22:23	21:32	20:12	18:48		16:28		15:39	
6	04:31	05:25	06:31	07:35		07:45		08:48	
	22:23	21:30	20:09	18:45		16:26		15:38	
7	04:32	05:27	06:33	07:37		07:47	14:53 (12)	08:49	
	22:22	21:28	20:07	18:43		16:24	4 14:57 (12)	15:38	
8	04:33	05:29	06:36	07:39		07:50	14:49 (12)	08:51	
	22:21	21:25	20:04	18:40		16:22	11 15:00 (12)	15:37	
9	04:34	05:32	06:38	07:42		07:52	14:47 (12)	08:52	
	22:20	21:23	20:01	18:37		16:20	15 15:02 (12)	15:36	
10	04:36	05:34	06:40	07:44	17:02 (13)	07:54	14:47 (12)	08:53	
	22:19	21:21	19:58	18:34	9 17:11 (13)	16:18	17 15:04 (12)	15:36	
11	04:37	05:36	06:42	07:46	16:58 (13)	07:57	14:45 (12)	08:55	
	22:18	21:18	19:55	18:32	16 17:14 (13)	16:15	20 15:05 (12)	15:36	
12	04:39	05:38	06:44	07:48	16:56 (13)	07:59	14:45 (12)	08:56	
	22:16	21:16	19:53	18:29	20 17:16 (13)	16:13	21 15:06 (12)	15:35	
13	04:40	05:40	06:46	07:50	16:54 (13)	08:01	14:44 (12)	08:57	
	22:15	21:13	19:50	18:26	23 17:17 (13)	16:11	22 15:06 (12)	15:35	
14	04:42	05:42	06:48	07:53	16:52 (13)	08:03	14:44 (12)	08:58	
	22:14	21:11	19:47	18:24	26 17:18 (13)	16:09	23 15:07 (12)	15:35	
15	04:43	05:44	06:50	07:55	16:52 (13)	08:06	14:43 (12)	09:00	
	22:12	21:08	19:44	18:21	27 17:19 (13)	16:07	24 15:07 (12)	15:35	
16	04:45	05:46	06:52	07:57	16:50 (13)	08:08	14:44 (12)	09:01	
	22:11	21:06	19:41	18:18	29 17:19 (13)	16:06	24 15:08 (12)	15:35	
17	04:46	05:49	06:55	07:59	16:49 (13)	08:10	14:43 (12)	09:01	
	22:09	21:03	19:39	18:16	30 17:19 (13)	16:04	25 15:08 (12)	15:35	
18	04:48	05:51	06:57	08:02	16:49 (13)	08:12	14:44 (12)	09:02	
	22:08	21:01	19:36	18:13	31 17:20 (13)	16:02	24 15:08 (12)	15:35	
19	04:50	05:53	06:59	08:04	16:48 (13)	08:14	14:44 (12)	09:03	
	22:06	20:58	19:33	18:10	32 17:20 (13)	16:00	24 15:08 (12)	15:35	
20	04:52	05:55	07:01	08:06	16:49 (13)	08:17	14:45 (12)	09:04	
	22:05	20:55	19:30	18:08	31 17:20 (13)	15:58	24 15:09 (12)	15:35	
21	04:53	05:57	07:03	08:08	16:48 (13)	08:19	14:45 (12)	09:04	
	22:03	20:53	19:27	18:05	32 17:20 (13)	15:57	23 15:08 (12)	15:36	
22	04:55	05:59	07:05	08:11	16:48 (13)	08:21	14:46 (12)	09:05	
	22:01	20:50	19:24	18:03	31 17:19 (13)	15:55	23 15:09 (12)	15:36	
23	04:57	06:01	07:07	08:13	16:48 (13)	08:23	14:46 (12)	09:06	
	21:59	20:48	19:22	18:00	31 17:19 (13)	15:54	22 15:08 (12)	15:37	
24	04:59	06:04	07:09	08:15	16:48 (13)	08:25	14:47 (12)	09:06	
	21:57	20:45	19:19	17:57	30 17:18 (13)	15:52	22 15:09 (12)	15:37	
25	05:01	06:06	07:11	07:17	15:49 (13)	08:27	14:48 (12)	09:06	
	21:56	20:42	19:16	16:55	29 16:18 (13)	15:51	20 15:08 (12)	15:38	
26	05:03	06:08	07:14	07:20	15:50 (13)	08:29	14:49 (12)	09:07	
	21:54	20:40	19:13	16:52	26 16:16 (13)	15:49	18 15:07 (12)	15:39	
27	05:05	06:10	07:16	07:22	15:51 (13)	08:31	14:50 (12)	09:07	
	21:52	20:37	19:10	16:50	24 16:15 (13)	15:48	16 15:06 (12)	15:40	
28	05:07	06:12	07:18	07:24	15:52 (13)	08:33	14:51 (12)	09:07	
	21:50	20:34	19:08	16:47	20 16:12 (13)	15:47	13 15:04 (12)	15:40	
29	05:09	06:14	07:20	07:27	15:54 (13)	08:35	14:52 (12)	09:07	
	21:48	20:31	19:05	16:45	16 16:10 (13)	15:45	10 15:02 (12)	15:41	
30	05:11	06:16	07:22	07:29	15:55 (13)	08:37	14:54 (12)	09:07	
	21:46	20:29	19:02	16:43	12 16:07 (13)	15:44	6 15:00 (12)	15:42	
31	05:13	06:19		07:31	15:59 (13)			09:07	
	21:43	20:26		16:40	6 16:05 (13)			15:44	
Potential sun hours	539	475	386	321		241		207	
Total, worst case					531		451		3
Sun reduction					0,31		0,15		0,13
Oper. time red.					0,93		0,93		0,93
Wind dir. red.					0,87		0,67		0,67
Total reduction					0,25		0,10		0,08
Total, real					132		43		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	(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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AA - Jaunterces

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May	June
1	09:07		10:47 (1)	08:27			07:20		08:19 (10)	06:54			05:34	04:33
	15:46	25	11:31 (4)	16:46			17:52	8	08:27 (10)	20:01			21:08	22:09
2	09:06		10:48 (1)	08:25			07:17			06:51			05:31	04:32
	15:47	23	11:31 (4)	16:48			17:54			20:03			21:10	22:10
3	09:06		10:50 (1)	08:23			07:14			06:48			05:29	04:30
	15:48	19	11:31 (4)	16:51			17:57			20:06			21:12	22:12
4	09:06		11:17 (4)	08:21			07:12			06:46			05:26	04:29
	15:50	13	11:30 (4)	16:53			17:59			20:08			21:14	22:13
5	09:05		11:19 (4)	08:19			07:09			06:43			05:24	04:28
	15:51	11	11:30 (4)	16:55			18:01			20:10			21:16	22:15
6	09:04		11:20 (4)	08:17			07:06			06:40			05:22	04:27
	15:53	10	11:30 (4)	16:58			18:03			20:12			21:19	22:16
7	09:04		11:23 (4)	08:14			07:03			06:37			05:19	04:26
	15:54	5	11:28 (4)	17:00			18:06			20:14			21:21	22:17
8	09:03			08:12			07:01			06:34			05:17	04:26
	15:56			17:03			18:08			20:17			21:23	22:18
9	09:02			08:10			06:58			06:32			05:15	04:25
	15:57			17:05			18:10			20:19			21:25	22:19
10	09:01			08:08			06:55			06:29			05:13	04:24
	15:59			17:07			18:12			20:21			21:27	22:21
11	09:00			08:05			06:52			06:26			05:10	04:23
	16:01			17:10			18:15			20:23			21:29	22:22
12	08:59			08:03			06:50			06:23			05:08	04:23
	16:03			17:12			18:17			20:26			21:31	22:22
13	08:58			08:00			06:47			06:21			05:06	04:22
	16:05			17:15			18:19			20:28			21:34	22:23
14	08:57			07:58			06:44			06:18			05:04	04:22
	16:07			17:17			18:21			20:30			21:36	22:24
15	08:56			07:56			06:41			06:15			05:02	04:22
	16:09			17:19			18:24			20:32			21:38	22:25
16	08:55			07:53		08:22 (10)	06:39			06:13			05:00	04:21
	16:11			17:22	8	08:30 (10)	18:26			20:34			21:40	22:25
17	08:53			07:51		08:20 (10)	06:36			06:10			04:58	04:21
	16:13			17:24	12	08:32 (10)	18:28			20:37			21:42	22:26
18	08:52			07:48		08:17 (10)	06:33			06:07			04:56	04:21
	16:15			17:26	16	08:33 (10)	18:30			20:39			21:44	22:27
19	08:50			07:46		08:15 (10)	06:30			06:05			04:54	04:21
	16:17			17:29	19	08:34 (10)	18:33			20:41			21:46	22:27
20	08:49			07:43		08:15 (10)	06:27			06:02			04:52	04:21
	16:19			17:31	20	08:35 (10)	18:35			20:43			21:48	22:27
21	08:47			07:41		08:14 (10)	06:25			05:59			04:50	04:21
	16:21			17:33	21	08:35 (10)	18:37			20:45			21:50	22:28
22	08:46			07:38		08:14 (10)	06:22			05:57			04:48	04:21
	16:23			17:36	21	08:35 (10)	18:39			20:48			21:52	22:28
23	08:44			07:35		08:13 (10)	06:19			05:54			04:47	04:21
	16:25			17:38	22	08:35 (10)	18:41			20:50			21:54	22:28
24	08:42			07:33		08:14 (10)	06:16			05:51			04:45	04:22
	16:28			17:40	21	08:35 (10)	18:44			20:52			21:55	22:28
25	08:41			07:30		08:14 (10)	06:13			05:49			04:43	04:22
	16:30			17:43	20	08:34 (10)	18:46			20:54			21:57	22:28
26	08:39			07:28		08:14 (10)	06:11			05:46			04:42	04:23
	16:32			17:45	19	08:33 (10)	18:48			20:57			21:59	22:28
27	08:37			07:25		08:15 (10)	06:08			05:44			04:40	04:23
	16:34			17:47	17	08:32 (10)	18:50			20:59			22:01	22:28
28	08:35			07:22		08:17 (10)	06:05			05:41			04:38	04:24
	16:37			17:50	14	08:31 (10)	18:52			21:01			22:02	22:28
29	08:33						07:02			05:39			04:37	04:24
	16:39						19:55			21:03			22:04	22:27
30	08:31						06:59			05:36			04:36	04:25
	16:41						19:57			21:05			22:06	22:27
31	08:29						06:57						04:34	
	16:44						19:59						22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		106			230			8						
Sun reduction		0,13			0,22			0,37						
Oper. time red.		0,93			0,93			0,93						
Wind dir. red.		0,23			0,86			0,86						
Total reduction		0,03			0,18			0,29						
Total, real		3			41			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
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16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AA - Jaunterces

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October		November	December		
1	04:26	05:15	06:21	07:25		07:34	08:39		
	22:26	21:42	20:24	19:00		16:38	15:43		
2	04:27	05:17	06:23	07:27		07:36	08:41		
	22:26	21:39	20:21	18:57		16:36	15:42		
3	04:28	05:19	06:25	07:29		07:38	08:43		
	22:25	21:37	20:18	18:54		16:33	15:41		
4	04:29	05:21	06:27	07:31		07:41	08:45		
	22:24	21:35	20:15	18:51		16:31	15:40		
5	04:30	05:23	06:29	07:33		07:43	08:46		11:08 (4)
	22:24	21:33	20:13	18:48		16:29	15:40	5	11:13 (4)
6	04:31	05:26	06:32	07:35		07:45	08:48		11:07 (4)
	22:23	21:30	20:10	18:46		16:27	15:39	9	11:16 (4)
7	04:32	05:28	06:34	07:38		07:48	08:49		11:05 (4)
	22:22	21:28	20:07	18:43		16:24	15:38	12	11:17 (4)
8	04:33	05:30	06:36	07:40		07:50	08:51		11:05 (4)
	22:21	21:26	20:04	18:40		16:22	15:37	13	11:18 (4)
9	04:35	05:32	06:38	07:42		07:52	08:52		10:40 (1)
	22:20	21:23	20:01	18:37		16:20	15:37	18	11:20 (4)
10	04:36	05:34	06:40	07:44		07:55	08:54		10:38 (1)
	22:19	21:21	19:59	18:35		16:18	15:36	22	11:20 (4)
11	04:37	05:36	06:42	07:46		07:57	08:55		10:38 (1)
	22:18	21:18	19:56	18:32		16:16	15:36	25	11:22 (4)
12	04:39	05:38	06:44	07:49		07:59	08:56		10:37 (1)
	22:17	21:16	19:53	18:29		16:14	15:36	28	11:22 (4)
13	04:40	05:40	06:46	07:51	08:51 (10)	08:01	08:58		10:36 (1)
	22:15	21:14	19:50	18:27	11 09:02 (10)	16:12	15:35	30	11:22 (4)
14	04:42	05:43	06:49	07:53	08:49 (10)	08:04	08:59		10:37 (1)
	22:14	21:11	19:47	18:24	15 09:04 (10)	16:10	15:35	32	11:24 (4)
15	04:43	05:45	06:51	07:55	08:48 (10)	08:06	09:00		10:37 (1)
	22:13	21:09	19:45	18:21	17 09:05 (10)	16:08	15:35	32	11:24 (4)
16	04:45	05:47	06:53	07:57	08:46 (10)	08:08	09:01		10:37 (1)
	22:11	21:06	19:42	18:19	19 09:05 (10)	16:06	15:35	34	11:25 (4)
17	04:47	05:49	06:55	08:00	08:46 (10)	08:10	09:02		10:38 (1)
	22:10	21:03	19:39	18:16	20 09:06 (10)	16:04	15:35	34	11:26 (4)
18	04:48	05:51	06:57	08:02	08:45 (10)	08:13	09:03		10:38 (1)
	22:08	21:01	19:36	18:13	21 09:06 (10)	16:02	15:35	34	11:26 (4)
19	04:50	05:53	06:59	08:04	08:44 (10)	08:15	09:03		10:38 (1)
	22:06	20:58	19:33	18:11	22 09:06 (10)	16:01	15:35	35	11:27 (4)
20	04:52	05:55	07:01	08:06	08:45 (10)	08:17	09:04		10:38 (1)
	22:05	20:56	19:30	18:08	21 09:06 (10)	15:59	15:36	36	11:27 (4)
21	04:54	05:57	07:03	08:09	08:45 (10)	08:19	09:05		10:39 (1)
	22:03	20:53	19:28	18:05	20 09:05 (10)	15:57	15:36	36	11:28 (4)
22	04:56	06:00	07:05	08:11	08:45 (10)	08:21	09:05		10:39 (1)
	22:01	20:50	19:25	18:03	20 09:05 (10)	15:55	15:36	36	11:28 (4)
23	04:57	06:02	07:08	08:13	08:46 (10)	08:23	09:06		10:40 (1)
	22:00	20:48	19:22	18:00	18 09:04 (10)	15:54	15:37	36	11:29 (4)
24	04:59	06:04	07:10	08:15	08:48 (10)	08:25	09:06		10:40 (1)
	21:58	20:45	19:19	17:58	15 09:03 (10)	15:52	15:38	35	11:29 (4)
25	05:01	06:06	07:12	07:18	07:50 (10)	08:27	09:07		10:41 (1)
	21:56	20:43	19:16	16:55	11 08:01 (10)	15:51	15:38	34	11:29 (4)
26	05:03	06:08	07:14	07:20	07:53 (10)	08:30	09:07		10:41 (1)
	21:54	20:40	19:14	16:53	6 07:59 (10)	15:50	15:39	36	11:30 (4)
27	05:05	06:10	07:16	07:22		08:32	09:07		10:42 (1)
	21:52	20:37	19:11	16:50		15:48	15:40	34	11:30 (4)
28	05:07	06:12	07:18	07:25		08:34	09:07		10:43 (1)
	21:50	20:34	19:08	16:48		15:47	15:41	32	11:30 (4)
29	05:09	06:15	07:20	07:27		08:35	09:07		10:44 (1)
	21:48	20:32	19:05	16:45		15:46	15:42	31	11:31 (4)
30	05:11	06:17	07:22	07:29		08:37	09:07		10:45 (1)
	21:46	20:29	19:02	16:43		15:44	15:43	30	11:31 (4)
31	05:13	06:19		07:31			09:07		10:45 (1)
	21:44	20:26		16:40			15:44	29	11:31 (4)
Potential sun hours	539	475	386	321		241	207		
Total, worst case				236			768		
Sun reduction				0,31			0,13		
Oper. time red.				0,93			0,93		
Wind dir. red.				0,86			0,25		
Total reduction				0,25			0,03		
Total, real				58			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)

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SHADOW - Calendar

Shadow receptor: AB - Jaunto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:06			08:27		15:05 (9)	07:19			06:54		19:24 (10)	05:34		18:45 (12)	04:33		19:10 (12)
	15:45			16:46	28	15:33 (9)	17:52			20:01	8	19:32 (10)	21:07	58	19:43 (12)	22:09	11	19:21 (12)
2	09:06			08:25		15:06 (9)	07:17			06:51		19:22 (10)	05:31		18:44 (12)	04:31		
	15:47			16:48	27	15:33 (9)	17:54			20:03	12	19:34 (10)	21:09	58	19:42 (12)	22:10		
3	09:06			08:23		15:07 (9)	07:14			06:48		19:21 (10)	05:29		18:45 (12)	04:30		
	15:48			16:51	25	15:32 (9)	17:56			20:05	15	19:36 (10)	21:12	57	19:42 (12)	22:12		
4	09:05			08:21		15:07 (9)	07:11			06:45		19:20 (10)	05:26		18:45 (12)	04:29		
	15:49			16:53	24	15:31 (9)	17:59			20:08	18	19:38 (10)	21:14	57	19:42 (12)	22:13		
5	09:05			08:18		15:09 (9)	07:09			06:42		19:20 (10)	05:24		18:45 (12)	04:28		
	15:51			16:55	22	15:31 (9)	18:01			20:10	20	19:40 (10)	21:16	57	19:42 (12)	22:14		
6	09:04			08:16		15:10 (9)	07:06			06:40		19:19 (10)	05:22		18:44 (12)	04:27		
	15:52			16:58	19	15:29 (9)	18:03			20:12	20	19:39 (10)	21:18	57	19:41 (12)	22:16		
7	09:03			08:14		15:12 (9)	07:03			06:37		19:18 (10)	05:19		18:45 (12)	04:26		
	15:54			17:00	16	15:28 (9)	18:05			20:14	21	19:39 (10)	21:20	56	19:41 (12)	22:17		
8	09:03			08:12		15:14 (9)	07:00			06:34		19:18 (10)	05:17		18:45 (12)	04:25		
	15:56			17:02	11	15:25 (9)	18:08			20:16	20	19:38 (10)	21:23	56	19:41 (12)	22:18		
9	09:02			08:10			06:58			06:31		19:19 (10)	05:15		18:45 (12)	04:25		
	15:57			17:05			18:10			20:19	18	19:37 (10)	21:25	56	19:41 (12)	22:19		
10	09:01			08:07			06:55			06:29		19:19 (10)	05:12		18:46 (12)	04:24		
	15:59			17:07			18:12			20:21	17	19:36 (10)	21:27	54	19:40 (12)	22:20		
11	09:00			08:05			06:52			06:26		19:20 (10)	05:10		18:46 (12)	04:23		
	16:01			17:10			18:14			20:23	14	19:34 (10)	21:29	54	19:40 (12)	22:21		
12	08:59		15:10 (9)	08:03			06:49			06:23		19:10 (12)	05:08		18:47 (12)	04:23		
	16:03	6	15:16 (9)	17:12			18:17			20:25	22	19:32 (10)	21:31	52	19:39 (12)	22:22		
13	08:58		15:09 (9)	08:00			06:47			06:20		19:06 (12)	05:06		18:47 (12)	04:22		
	16:04	10	15:19 (9)	17:14			18:19			20:27	23	19:29 (12)	21:33	52	19:39 (12)	22:23		
14	08:57		15:07 (9)	07:58			06:44			06:18		19:02 (12)	05:04		18:48 (12)	04:22		
	16:06	14	15:21 (9)	17:17			18:21			20:30	29	19:31 (12)	21:35	50	19:38 (12)	22:24		
15	08:55		15:06 (9)	07:55			06:41		17:46 (11)	06:15		19:00 (12)	05:02		18:49 (12)	04:21		
	16:08	16	15:22 (9)	17:19			18:23	8	17:54 (11)	20:32	34	19:34 (12)	21:37	50	19:39 (12)	22:24		
16	08:54		15:06 (9)	07:53			06:38		17:44 (11)	06:12		18:58 (12)	05:00		18:50 (12)	04:21		
	16:10	18	15:24 (9)	17:21			18:26	13	17:57 (11)	20:34	37	19:35 (12)	21:39	48	19:38 (12)	22:25		
17	08:53		15:05 (9)	07:50			06:36		17:42 (11)	06:10		18:56 (12)	04:58		18:50 (12)	04:21		
	16:12	20	15:25 (9)	17:24			18:28	17	17:59 (11)	20:36	41	19:37 (12)	21:41	47	19:37 (12)	22:26		
18	08:51		15:04 (9)	07:48			06:33		17:40 (11)	06:07		18:54 (12)	04:56		18:51 (12)	04:21		
	16:14	22	15:26 (9)	17:26			18:30	21	18:01 (11)	20:38	44	19:38 (12)	21:43	45	19:36 (12)	22:26		
19	08:50		15:04 (9)	07:45			06:30		17:39 (11)	06:04		18:53 (12)	04:54		18:52 (12)	04:21		
	16:17	24	15:28 (9)	17:28			18:32	22	18:01 (11)	20:41	46	19:39 (12)	21:45	44	19:36 (12)	22:27		
20	08:49		15:04 (9)	07:43			06:27		17:37 (11)	06:02		18:52 (12)	04:52		18:53 (12)	04:21		
	16:19	25	15:29 (9)	17:31			18:35	24	18:01 (11)	20:43	47	19:39 (12)	21:47	42	19:35 (12)	22:27		
21	08:47		15:04 (9)	07:40			06:24		17:37 (11)	05:59		18:50 (12)	04:50		18:53 (12)	04:21		
	16:21	26	15:30 (9)	17:33			18:37	24	18:01 (11)	20:45	50	19:40 (12)	21:49	41	19:34 (12)	22:27		
22	08:45		15:03 (9)	07:38			06:22		17:37 (11)	05:56		18:50 (12)	04:48		18:55 (12)	04:21		
	16:23	27	15:30 (9)	17:36			18:39	25	18:02 (11)	20:47	51	19:41 (12)	21:51	39	19:34 (12)	22:27		
23	08:44		15:03 (9)	07:35			06:19		17:37 (11)	05:54		18:49 (12)	04:46		18:55 (12)	04:21		
	16:25	28	15:31 (9)	17:38			18:41	24	18:01 (11)	20:50	53	19:42 (12)	21:53	37	19:32 (12)	22:28		
24	08:42		15:03 (9)	07:33			06:16		17:36 (11)	05:51		18:48 (12)	04:45		18:57 (12)	04:22		
	16:27	29	15:32 (9)	17:40			18:43	25	18:01 (11)	20:52	53	19:41 (12)	21:55	35	19:32 (12)	22:28		
25	08:40		15:03 (9)	07:30			06:13		17:36 (11)	05:49		18:48 (12)	04:43		18:59 (12)	04:22		
	16:30	29	15:32 (9)	17:42			18:46	24	18:00 (11)	20:54	54	19:42 (12)	21:57	33	19:32 (12)	22:28		
26	08:39		15:03 (9)	07:27			06:10		17:36 (11)	05:46		18:46 (12)	04:41		18:59 (12)	04:22		
	16:32	30	15:33 (9)	17:45			18:48	22	17:58 (11)	20:56	56	19:42 (12)	21:59	31	19:30 (12)	22:28		
27	08:37		15:04 (9)	07:25			06:08		17:38 (11)	05:44		18:46 (12)	04:40		19:01 (12)	04:23		
	16:34	29	15:33 (9)	17:47			18:50	20	17:58 (11)	20:58	56	19:42 (12)	22:00	28	19:29 (12)	22:27		
28	08:35		15:03 (9)	07:22			06:05		17:39 (11)	05:41		18:45 (12)	04:38		19:03 (12)	04:24		
	16:37	30	15:33 (9)	17:49			18:52	17	17:56 (11)	21:01	57	19:42 (12)	22:02	25	19:28 (12)	22:27		
29	08:33		15:04 (9)				07:02		18:40 (11)	05:39		18:45 (12)	04:37		19:04 (12)	04:24		
	16:39	29	15:33 (9)				19:54	14	18:54 (11)	21:03	57	19:42 (12)	22:04	22	19:26 (12)	22:27		
30	08:31		15:04 (9)				06:59		18:43 (11)	05:36		18:45 (12)	04:35		19:06 (12)	04:25		
	16:41	29	15:33 (9)				19:57	7	18:50 (11)	21:05	58	19:43 (12)	22:05	19	19:25 (12)	22:26		
31	08:29		15:05 (9)				06:56		19:26 (10)				04:34		19:08 (12)			
	16:43	28	15:33 (9)				19:59	3	19:29 (10)				22:07	15	19:23 (12)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		469			172			310			1051			1375			11	
Sun reduction		0,13			0,22			0,37			0,46			0,58			0,53	
Oper. time red.		0,93			0,93			0,93			0,93			0,93			0,93	
Wind dir. red.		0,66			0,66			0,99			0,99			0,99			0,99	
Total reduction		0,08			0,14			0,34			0,42			0,53			0,49	
Total, real		38			23			105			445			732			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AB - Jaunto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October	November		December
1	04:26		05:15	18:57 (12)	06:21	19:20 (10)	07:24	07:33		08:39
	22:26		21:41 53	19:50 (12)	20:23 14	19:34 (10)	18:59	16:38		15:43
2	04:27		05:17	18:56 (12)	06:23	19:18 (10)	07:26	07:36		08:41
	22:25		21:39 54	19:50 (12)	20:20 17	19:35 (10)	18:56	16:35		15:42
3	04:28		05:19	18:56 (12)	06:25	19:17 (10)	07:29	07:38	14:43 (9)	08:42
	22:25		21:37 55	19:51 (12)	20:18 18	19:35 (10)	18:54	16:33 12	14:55 (9)	15:41
4	04:29		05:21	18:56 (12)	06:27	19:16 (10)	07:31	07:40	14:41 (9)	08:44
	22:24		21:35 55	19:51 (12)	20:15 20	19:36 (10)	18:51	16:31 17	14:58 (9)	15:40
5	04:30		05:23	18:55 (12)	06:29	19:15 (10)	07:33	07:43	14:40 (9)	08:46
	22:23		21:32 56	19:51 (12)	20:12 21	19:36 (10)	18:48	16:29 20	15:00 (9)	15:39
6	04:31		05:25	18:55 (12)	06:31	19:15 (10)	07:35	07:45	14:38 (9)	08:47
	22:23		21:30 57	19:52 (12)	20:09 20	19:35 (10)	18:45	16:26 23	15:01 (9)	15:39
7	04:32		05:27	18:55 (12)	06:33	19:15 (10)	07:37	07:47	14:38 (9)	08:49
	22:22		21:28 57	19:52 (12)	20:07 20	19:35 (10)	18:43	16:24 24	15:02 (9)	15:38
8	04:33		05:30	18:54 (12)	06:36	19:15 (10)	07:39	07:50	14:37 (9)	08:51
	22:21		21:25 58	19:52 (12)	20:04 18	19:33 (10)	18:40	16:22 25	15:02 (9)	15:37
9	04:34		05:32	18:54 (12)	06:38	19:15 (10)	07:42	07:52	14:36 (9)	08:52
	22:20		21:23 58	19:52 (12)	20:01 15	19:30 (10)	18:37	16:20 27	15:03 (9)	15:37
10	04:36		05:34	18:54 (12)	06:40	19:15 (10)	07:44	07:54	14:36 (9)	08:53
	22:19		21:21 58	19:52 (12)	19:58 12	19:27 (10)	18:34	16:18 27	15:03 (9)	15:36
11	04:37	19:20 (12)	05:36	18:54 (12)	06:42	19:16 (10)	07:46	07:56	14:36 (9)	08:55
	22:17 7	19:27 (12)	21:18 58	19:52 (12)	19:55 9	19:25 (10)	18:32	16:16 28	15:04 (9)	15:36
12	04:39	19:17 (12)	05:38	18:54 (12)	06:44	19:18 (10)	07:48	07:59	14:36 (9)	08:56
	22:16 14	19:31 (12)	21:16 57	19:51 (12)	19:53 4	19:22 (10)	18:29	16:14 29	15:05 (9)	15:35
13	04:40	19:15 (12)	05:40	18:54 (12)	06:46	18:36 (11)	07:50	08:01	14:35 (9)	08:57
	22:15 18	19:33 (12)	21:13 57	19:51 (12)	19:50 4	18:40 (11)	18:26	16:12 30	15:05 (9)	15:35
14	04:42	19:13 (12)	05:42	18:53 (12)	06:48	18:31 (11)	07:53	08:03	14:36 (9)	08:58
	22:14 21	19:34 (12)	21:11 57	19:50 (12)	19:47 13	18:44 (11)	18:24	16:10 29	15:05 (9)	15:35
15	04:43	19:12 (12)	05:44	18:53 (12)	06:50	18:29 (11)	07:55	08:06	14:36 (9)	08:59
	22:12 24	19:36 (12)	21:08 56	19:49 (12)	19:44 16	18:45 (11)	18:21	16:08 29	15:05 (9)	15:35
16	04:45	19:10 (12)	05:47	18:53 (12)	06:52	18:27 (11)	07:57	08:08	14:36 (9)	09:00
	22:11 27	19:37 (12)	21:06 56	19:49 (12)	19:41 19	18:46 (11)	18:18	16:06 30	15:06 (9)	15:35
17	04:47	19:10 (12)	05:49	18:53 (12)	06:55	18:25 (11)	07:59	08:10	14:36 (9)	09:01
	22:09 29	19:39 (12)	21:03 55	19:48 (12)	19:39 22	18:47 (11)	18:16	16:04 29	15:05 (9)	15:35
18	04:48	19:08 (12)	05:51	18:53 (12)	06:57	18:24 (11)	08:02	08:12	14:37 (9)	09:02
	22:08 32	19:40 (12)	21:01 55	19:48 (12)	19:36 23	18:47 (11)	18:13	16:02 29	15:06 (9)	15:35
19	04:50	19:07 (12)	05:53	18:53 (12)	06:59	18:23 (11)	08:04	08:14	14:37 (9)	09:03
	22:06 34	19:41 (12)	20:58 54	19:47 (12)	19:33 24	18:47 (11)	18:10	16:00 28	15:05 (9)	15:35
20	04:52	19:07 (12)	05:55	18:54 (12)	07:01	18:22 (11)	08:06	08:17	14:38 (9)	09:04
	22:04 36	19:43 (12)	20:55 52	19:46 (12)	19:30 25	18:47 (11)	18:08	15:59 27	15:05 (9)	15:35
21	04:54	19:05 (12)	05:57	18:54 (12)	07:03	18:23 (11)	08:08	08:19	14:39 (9)	09:04
	22:03 38	19:43 (12)	20:53 51	19:45 (12)	19:27 25	18:48 (11)	18:05	15:57 26	15:05 (9)	15:36
22	04:55	19:05 (12)	05:59	18:55 (12)	07:05	18:22 (11)	08:11	08:21	14:40 (9)	09:05
	22:01 39	19:44 (12)	20:50 49	19:44 (12)	19:25 25	18:47 (11)	18:03	15:55 25	15:05 (9)	15:36
23	04:57	19:03 (12)	06:02	18:56 (12)	07:07	18:22 (11)	08:13	08:23	14:40 (9)	09:05
	21:59 42	19:45 (12)	20:48 47	19:43 (12)	19:22 24	18:46 (11)	18:00	15:54 24	15:04 (9)	15:37
24	04:59	19:03 (12)	06:04	18:56 (12)	07:09	18:22 (11)	08:15	08:25	14:42 (9)	09:06
	21:57 43	19:46 (12)	20:45 46	19:42 (12)	19:19 23	18:45 (11)	17:57	15:52 22	15:04 (9)	15:37
25	05:01	19:02 (12)	06:06	18:57 (12)	07:11	18:22 (11)	07:17	08:27	14:43 (9)	09:06
	21:55 45	19:47 (12)	20:42 43	19:40 (12)	19:16 22	18:44 (11)	16:55	15:51 20	15:03 (9)	15:38
26	05:03	19:02 (12)	06:08	18:58 (12)	07:14	18:23 (11)	07:20	08:29	14:44 (9)	09:06
	21:54 46	19:48 (12)	20:40 40	19:38 (12)	19:13 19	18:42 (11)	16:52	15:49 18	15:02 (9)	15:39
27	05:05	19:00 (12)	06:10	19:00 (12)	07:16	18:24 (11)	07:22	08:31	14:46 (9)	09:07
	21:52 47	19:47 (12)	20:37 37	19:37 (12)	19:10 15	18:39 (11)	16:50	15:48 16	15:02 (9)	15:40
28	05:07	19:00 (12)	06:12	19:01 (12)	07:18	18:26 (11)	07:24	08:33	14:47 (9)	09:07
	21:50 48	19:48 (12)	20:34 33	19:34 (12)	19:08 10	18:36 (11)	16:47	15:47 14	15:01 (9)	15:41
29	05:09	18:59 (12)	06:14	19:03 (12)	07:20		07:27	08:35	14:49 (9)	09:07
	21:48 50	19:49 (12)	20:31 29	19:32 (12)	19:05		16:45	15:45 11	15:00 (9)	15:42
30	05:11	18:59 (12)	06:16	19:06 (12)	07:22		07:29	08:37	14:51 (9)	09:07
	21:45 51	19:50 (12)	20:29 23	19:29 (12)	19:02		16:43	15:44 7	14:58 (9)	15:43
31	05:13	18:58 (12)	06:19	19:10 (12)			07:31			09:07
	21:43 52	19:50 (12)	20:26 21	19:31 (10)			16:40			15:44
Potential sun hours	538		474		386		321	241		207
Total, worst case	743		1537		497			646		
Sun reduction	0,57		0,55		0,43			0,15		
Oper. time red.	0,93		0,93		0,93			0,93		
Wind dir. red.	0,99		0,99		0,99			0,66		
Total reduction	0,52		0,50		0,40			0,09		
Total, real	386		770		197			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AC - Jaunupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	05:10 (5)	04:26	05:07 (5)	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09 12	05:33 (2)	22:26 41	05:48 (2)	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	05:09 (5)	04:27	05:07 (5)	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10 19	05:36 (2)	22:26 41	05:48 (2)	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	05:08 (5)	04:28	05:08 (5)	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12 25	05:38 (2)	22:25 40	05:48 (2)	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	05:07 (5)	04:29	05:09 (5)	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13 29	05:39 (2)	22:24 39	05:48 (2)	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	05:06 (5)	04:30	05:10 (5)	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14 32	05:40 (2)	22:24 38	05:48 (2)	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	05:05 (5)	04:31	05:11 (5)	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16 35	05:41 (2)	22:23 36	05:47 (2)	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	05:05 (5)	04:33	05:12 (5)	05:28	06:34	07:38	07:48	08:49
	15:54	17:00	18:06	20:15	21:21	22:17 37	05:42 (2)	22:22 34	05:47 (2)	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	05:04 (5)	04:34	05:13 (5)	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18 39	05:43 (2)	22:21 30	05:46 (2)	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	05:03 (5)	04:35	05:14 (5)	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19 40	05:43 (2)	22:20 27	05:45 (2)	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	05:03 (5)	04:36	05:16 (5)	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20 41	05:44 (2)	22:19 21	05:44 (2)	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	05:03 (5)	04:38	05:17 (5)	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21 41	05:44 (2)	22:18 16	05:42 (2)	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	05:03 (5)	04:39	05:18 (5)	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22 42	05:45 (2)	22:16 4	05:22 (5)	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	05:04 (5)	04:41	05:20 (5)	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23 42	05:46 (2)	22:15 1	05:21 (5)	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	05:03 (5)	04:42		05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24 42	05:45 (2)	22:14		21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	05:03 (5)	04:44		05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25 43	05:46 (2)	22:12		21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	05:04 (5)	04:45		05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25 43	05:47 (2)	22:11		21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	05:04 (5)	04:47		05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26 43	05:47 (2)	22:09		21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	05:04 (5)	04:49		05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26 43	05:47 (2)	22:08		21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	05:04 (5)	04:51		05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27 44	05:48 (2)	22:06		20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	05:04 (5)	04:52		05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27 44	05:48 (2)	22:05		20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	05:04 (5)	04:54		05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27 44	05:48 (2)	22:03		20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	05:05 (5)	04:56		06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28 44	05:49 (2)	22:01		20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	05:05 (5)	04:58		06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28 44	05:49 (2)	21:59		20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:05 (5)	05:00		06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28 43	05:48 (2)	21:58		20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	04:22	05:06 (5)	05:02		06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28 43	05:49 (2)	21:56		20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:06 (5)	05:03		06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28 43	05:49 (2)	21:54		20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:06 (5)	05:05		06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28 43	05:49 (2)	21:52		20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:06 (5)	05:07		06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27 43	05:49 (2)	21:50		20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:07 (5)	05:09		06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27 42	05:49 (2)	21:48		20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:07 (5)	05:11		06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27 42	05:49 (2)	21:46		20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35 05:11 (5)			05:13		06:19		07:31		09:07
	16:44		19:59		22:07 3 05:14 (5)			21:44		20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539		538		474	386	321	241	207
Total, worst case					3		1167	368						
Sun reduction					0,58		0,53	0,57						
Oper. time red.					0,93		0,93	0,93						
Wind dir. red.					0,80		0,82	0,82						
Total reduction					0,43		0,40	0,43						
Total, real					1		471	158						

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AD - Jemekli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December		
1	09:07	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39		
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43		
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41		
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42		
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43		
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41		
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44		
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40		
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46		
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39		
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48		
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38		
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49		
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38		
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51		
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37		
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52		
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37		
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54		
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36		
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55		
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36		
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56		
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35		
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57		
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35		
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59		11:25 (13)
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35	2	11:27 (13)
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00		11:23 (13)
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35	6	11:29 (13)
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01		11:23 (13)
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35	7	11:30 (13)
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02		11:23 (13)
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35	9	11:32 (13)
18	08:52	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	09:03		11:23 (13)
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35	10	11:33 (13)
19	08:50	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03		11:22 (13)
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35	11	11:33 (13)
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04		11:23 (13)
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:35	11	11:34 (13)
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05		11:24 (13)
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36	10	11:34 (13)
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05		11:24 (13)
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36	10	11:34 (13)
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06		11:25 (13)
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37	11	11:36 (13)
24	08:42	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25	09:06		11:25 (13)
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37	11	11:36 (13)
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06		11:26 (13)
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38	10	11:36 (13)
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07		11:26 (13)
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39	10	11:36 (13)
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07		11:27 (13)
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40	9	11:36 (13)
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07		11:29 (13)
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40	6	11:35 (13)
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07		11:31 (13)
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41	4	11:35 (13)
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07		
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43		
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07		
	16:43		19:59		22:07		21:44	20:26		16:40		15:44		
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207		
Total, worst case													137	
Sun reduction													0,13	
Oper. time red.													0,93	
Wind dir. red.													0,16	
Total reduction													0,02	
Total, real													3	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AE - Kalnmalas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April		May	June
1	09:07		10:23 (2)		08:27		07:20		08:17 (3)	06:54		07:21 (1)	05:34	04:33
	15:46	27	10:50 (2)		16:46		07:52	38	08:55 (3)	20:01	20	07:41 (1)	21:08	22:09
2	09:06		10:24 (2)		08:25		07:17		08:16 (3)	06:51		07:20 (1)	05:31	04:32
	15:47	27	10:51 (2)		16:49		07:54	40	08:56 (3)	20:04	20	07:40 (1)	21:10	22:10
3	09:06		10:24 (2)		08:23		07:14		08:14 (3)	06:48		07:20 (1)	05:29	04:31
	15:48	27	10:51 (2)		16:51		07:57	42	08:56 (3)	20:06	19	07:39 (1)	21:12	22:12
4	09:06		10:24 (2)		08:21		07:12		08:14 (3)	06:46		07:21 (1)	05:27	04:30
	15:50	27	10:51 (2)		16:53		07:59	44	08:58 (3)	20:08	18	07:39 (1)	21:14	22:13
5	09:05		10:26 (2)		08:19		07:09		08:13 (3)	06:43		07:21 (1)	05:24	04:28
	15:51	26	10:52 (2)		16:56		08:01	45	08:58 (3)	20:10	17	07:38 (1)	21:16	22:15
6	09:04		10:26 (2)		08:17		07:06		08:12 (3)	06:40		07:21 (1)	05:22	04:28
	15:53	27	10:53 (2)		16:58		08:04	46	08:58 (3)	20:12	16	07:37 (1)	21:19	22:16
7	09:04		10:27 (2)		08:14		07:04		08:12 (3)	06:37		07:22 (1)	05:20	04:27
	15:54	26	10:53 (2)		17:00		08:06	46	08:58 (3)	20:15	13	07:35 (1)	21:21	22:17
8	09:03		10:26 (2)		08:12		07:01		08:11 (3)	06:35		07:25 (1)	05:17	04:26
	15:56	26	10:52 (2)		17:03		08:08	46	08:57 (3)	20:17	7	07:32 (1)	21:23	22:18
9	09:02		10:27 (2)		08:10		06:58		08:12 (3)	06:32			05:15	04:25
	15:58	26	10:53 (2)		17:05		08:10	46	08:58 (3)	20:19			21:25	22:19
10	09:01		10:28 (2)		08:08		06:55		08:11 (3)	06:29			05:13	04:24
	15:59	25	10:53 (2)		17:08		08:13	46	08:57 (3)	20:21			21:27	22:21
11	09:00		10:29 (2)		08:05		08:38 (5)	06:53		08:11 (3)	06:26			05:11	04:24
	16:01	25	10:54 (2)		17:10	9	08:47 (5)	18:15	46	08:57 (3)	20:23			21:29	22:21
12	08:59		10:29 (2)		08:03		08:36 (5)	06:50		07:23 (4)	06:24			05:08	04:23
	16:03	24	10:53 (2)		17:12	14	08:50 (5)	18:17	55	08:56 (3)	20:26			21:31	22:22
13	08:58		10:30 (2)		08:00		08:34 (5)	06:47		07:20 (4)	06:21			05:06	04:23
	16:05	24	10:54 (2)		17:15	17	08:51 (5)	18:19	60	08:55 (3)	20:28			21:34	22:23
14	08:57		10:30 (2)		07:58		08:32 (5)	06:44		07:18 (4)	06:18			05:04	04:22
	16:07	23	10:53 (2)		17:17	20	08:52 (5)	18:22	63	08:55 (3)	20:30			21:36	22:24
15	08:56		10:32 (2)		07:56		08:32 (5)	06:41		07:16 (4)	06:15			05:02	04:22
	16:09	22	10:54 (2)		17:19	22	08:54 (5)	18:24	65	08:54 (3)	20:32			21:38	22:25
16	08:55		10:32 (2)		07:53		08:31 (5)	06:39		07:15 (4)	06:13			05:00	04:21
	16:11	21	10:53 (2)		17:22	23	08:54 (5)	18:26	66	08:53 (3)	20:34			21:40	22:25
17	08:53		10:33 (2)		07:51		08:31 (5)	06:36		07:14 (4)	06:10			04:58	04:21
	16:13	19	10:52 (2)		17:24	24	08:55 (5)	18:28	65	08:51 (3)	20:37			21:42	22:26
18	08:52		10:35 (2)		07:48		08:30 (5)	06:33		07:12 (4)	06:07			04:56	04:21
	16:15	17	10:52 (2)		17:26	25	08:55 (5)	18:30	65	08:50 (3)	20:39			21:44	22:27
19	08:50		10:36 (2)		07:46		08:29 (5)	06:30		07:12 (4)	06:05			04:54	04:21
	16:17	15	10:51 (2)		17:29	26	08:55 (5)	18:33	62	08:48 (3)	20:41			21:46	22:27
20	08:49		10:38 (2)		07:43		08:30 (5)	06:28		07:12 (4)	06:02			04:52	04:21
	16:19	12	10:50 (2)		17:31	26	08:56 (5)	18:35	59	08:46 (3)	20:43			21:48	22:27
21	08:47		10:41 (2)		07:41		08:30 (5)	06:25		07:11 (4)	05:59			04:50	04:21
	16:21	6	10:47 (2)		17:34	25	08:55 (5)	18:37	57	08:44 (3)	20:45			21:50	22:28
22	08:46				07:38		08:30 (5)	06:22		07:11 (4)	05:57			04:48	04:21
	16:23				17:36	24	08:54 (5)	18:39	51	08:41 (3)	20:48			21:52	22:28
23	08:44				07:35		08:29 (3)	06:19		07:11 (4)	05:54			04:47	04:22
	16:26				17:38	24	08:53 (5)	18:42	42	08:36 (3)	20:50			21:53	22:28
24	08:42				07:33		08:26 (3)	06:16		07:11 (4)	05:52			04:45	04:22
	16:28				17:41	27	08:53 (5)	18:44	27	07:38 (4)	20:52			21:55	22:28
25	08:41				07:30		08:24 (3)	06:14		07:11 (4)	05:49			04:43	04:22
	16:30				17:43	28	08:52 (5)	18:46	26	07:37 (4)	20:54			21:57	22:28
26	08:39				07:28		08:21 (3)	06:11		07:13 (4)	05:46			04:42	04:23
	16:32				17:45	31	08:52 (3)	18:48	23	07:36 (4)	20:57			21:59	22:28
27	08:37				07:25		08:20 (3)	06:08		06:34 (1)	05:44			04:40	04:23
	16:35				17:47	34	08:54 (3)	18:50	23	07:34 (4)	20:59			22:01	22:28
28	08:35				07:22		08:18 (3)	06:05		06:31 (1)	05:41			04:39	04:24
	16:37				17:50	37	08:55 (3)	18:53	24	07:32 (4)	21:01			22:02	22:27
29	08:33							07:02		07:28 (1)	05:39			04:37	04:25
	16:39							19:55	23	08:29 (4)	21:03			22:04	22:27
30	08:31							07:00		07:26 (1)	05:36			04:36	04:25
	16:42							19:57	15	07:41 (1)	21:05			22:06	22:27
31	08:29							06:57		07:23 (1)				04:34	
	16:44							19:59	18	07:41 (1)				22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		472			436			1374			130			
Sun reduction		0,13			0,22			0,37			0,46			
Oper. time red.		0,93			0,93			0,93			0,93			
Wind dir. red.		0,39			0,83			0,90			1,00			
Total reduction		0,05			0,17			0,31			0,43			
Total, real		22			74			421			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AE - Kalnmalas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October		November		December	
1	04:26		05:15		06:21		07:25		08:01 (4)		08:39	
	22:26		21:42		20:24		19:00	58	09:35 (3)		15:43	25
2	04:27		05:17		06:23		07:27		08:06 (4)		08:41	
	22:26		21:39		20:21		18:57	48	09:35 (3)		15:42	25
3	04:28		05:19		06:25		07:29		08:49 (3)		08:43	
	22:25		21:37		20:18		18:54	47	09:36 (3)		15:41	26
4	04:29		05:22		06:27		07:31		08:49 (3)		08:44	
	22:24		21:35		20:15	7	07:29 (1)	46	09:35 (3)		15:41	27
5	04:30		05:24		06:30		07:19 (1)		08:48 (3)		08:46	
	22:24		21:33		20:13	13	07:32 (1)	47	09:35 (3)		15:40	26
6	04:31		05:26		06:32		07:17 (1)		08:48 (3)		08:48	
	22:23		21:30		20:10	16	07:33 (1)	46	09:34 (3)		15:39	27
7	04:32		05:28		06:34		07:16 (1)		08:49 (3)		08:49	
	22:22		21:28		20:07	17	07:33 (1)	45	09:34 (3)		15:38	26
8	04:34		05:30		06:36		07:15 (1)		08:48 (3)		08:51	
	22:21		21:26		20:04	19	07:34 (1)	45	09:33 (3)		15:38	27
9	04:35		05:32		06:38		07:14 (1)		08:48 (3)		08:52	
	22:20		21:23		20:01	20	07:34 (1)	44	09:32 (3)		15:37	27
10	04:36		05:34		06:40		07:14 (1)		08:48 (3)		08:54	
	22:19		21:21		19:59	19	07:33 (1)	43	09:31 (3)		15:36	27
11	04:38		05:36		06:42		07:13 (1)		08:50 (3)		08:55	
	22:18		21:18		19:56	20	07:33 (1)	41	09:31 (3)		15:36	27
12	04:39		05:38		06:44		07:14 (1)		08:50 (3)		08:56	
	22:17		21:16		19:53	18	07:32 (1)	39	09:29 (3)		15:36	27
13	04:41		05:41		06:46		07:16 (1)		08:50 (3)		08:58	
	22:15		21:14		19:50	15	07:31 (1)	38	09:28 (3)		15:35	27
14	04:42		05:43		06:49		07:18 (1)		08:52 (3)		08:59	
	22:14		21:11		19:47	23	08:19 (4)	35	09:27 (3)		15:35	27
15	04:44		05:45		06:51		07:20 (1)		08:53 (3)		09:00	
	22:13		21:09		19:45	25	08:21 (4)	32	09:25 (3)		15:35	26
16	04:45		05:47		06:53		07:22 (1)		08:54 (3)		09:01	
	22:11		21:06		19:42	24	08:23 (4)	29	09:23 (3)		15:35	27
17	04:47		05:49		06:55		08:01 (4)		08:56 (3)		09:02	
	22:10		21:03		19:39	24	08:25 (4)	28	09:24 (5)		15:35	26
18	04:49		05:51		06:57		08:00 (4)		08:59 (3)		09:03	
	22:08		21:01		19:36	25	08:25 (4)	26	09:25 (5)		15:35	27
19	04:50		05:53		06:59		07:59 (4)		09:01 (5)		09:03	
	22:06		20:58		19:33	26	08:25 (4)	24	09:25 (5)		15:36	26
20	04:52		05:55		07:01		07:58 (4)		09:01 (5)		09:04	
	22:05		20:56		19:30	38	09:21 (3)	25	09:26 (5)		15:36	26
21	04:54		05:58		07:03		07:57 (4)		09:00 (5)		09:05	
	22:03		20:53		19:28	48	09:25 (3)	25	09:25 (5)		15:36	26
22	04:56		06:00		07:05		07:56 (4)		09:00 (5)		09:05	
	22:01		20:51		19:25	54	09:28 (3)	26	09:26 (5)		15:37	26
23	04:58		06:02		07:08		07:56 (4)		09:00 (5)		09:06	
	22:00		20:48		19:22	59	09:30 (3)	25	09:25 (5)		15:37	26
24	05:00		06:04		07:10		07:55 (4)		09:00 (5)		09:06	
	21:58		20:45		19:19	62	09:31 (3)	25	09:25 (5)		15:38	26
25	05:01		06:06		07:12		07:55 (4)		08:00 (5)		09:07	
	21:56		20:43		19:16	64	09:32 (3)	24	08:24 (5)		15:38	27
26	05:03		06:08		07:14		07:55 (4)		08:01 (5)		09:07	
	21:54		20:40		19:14	65	09:33 (3)	23	08:24 (5)		15:39	27
27	05:05		06:10		07:16		07:56 (4)		08:01 (5)		09:07	
	21:52		20:37		19:11	66	09:34 (3)	22	08:23 (5)		15:40	27
28	05:07		06:13		07:18		07:57 (4)		08:03 (5)		09:07	
	21:50		20:34		19:08	66	09:35 (3)	19	08:22 (5)		15:41	27
29	05:09		06:15		07:20		07:58 (4)		08:03 (5)		09:07	
	21:48		20:32		19:05	64	09:35 (3)	17	08:20 (5)		15:42	27
30	05:11		06:17		07:23		07:59 (4)		08:06 (5)		09:07	
	21:46		20:29		19:02	62	09:35 (3)	13	08:19 (5)		15:43	27
31	05:13		06:19				07:31		08:08 (5)		09:07	
	21:44		20:26				16:41	7	08:15 (5)		15:44	26
Potential sun hours	538		474		386		321		241		207	
Total, worst case						959		1012		182		821
Sun reduction						0,43		0,31		0,15		0,13
Oper. time red.						0,93		0,93		0,93		0,93
Wind dir. red.						0,93		0,85		0,39		0,39
Total reduction						0,37		0,24		0,06		0,05
Total, real						358		245		10		38

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AF - Kardes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	18:52 (8)	05:34	18:44 (8)	04:33	04:26	05:15	06:21	18:37 (8)	07:24	07:33	08:39
	15:45	16:46	17:52	20:01 29	19:21 (8)	21:07 32	19:16 (8)	22:08	22:26	21:41	20:23 51	19:28 (8)	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	18:49 (8)	05:31	18:45 (8)	04:32	04:27	05:17	06:23	18:37 (8)	07:26	07:36	08:41
	15:47	16:48	17:54	20:03 34	19:23 (8)	21:09 29	19:14 (8)	22:10	22:25	21:39	20:20 51	19:28 (8)	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	18:47 (8)	05:29	18:48 (8)	04:30	04:28	05:19	06:25	18:37 (8)	07:29	07:38	08:42
	15:48	16:51	17:56	20:05 37	19:24 (8)	21:12 24	19:12 (8)	22:11	22:25	21:37	20:18 50	19:27 (8)	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	18:45 (8)	05:26	18:51 (8)	04:29	04:29	05:21	06:27	18:38 (8)	07:31	07:40	08:44
	15:49	16:53	17:59	20:08 40	19:25 (8)	21:14 18	19:09 (8)	22:13	22:24	21:34	20:15 48	19:26 (8)	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	18:44 (8)	05:24	18:55 (8)	04:28	04:30	05:23	06:29	18:38 (8)	07:33	07:43	08:46
	15:51	16:55	18:01	20:10 43	19:27 (8)	21:16 10	19:05 (8)	22:14	22:23	21:32	20:12 47	19:25 (8)	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	18:42 (8)	05:22		04:27	04:31	05:25	06:31	18:38 (8)	07:35	07:45	08:47
	15:52	16:58	18:03	20:12 45	19:27 (8)	21:18		22:15	22:22	21:30	20:09 45	19:23 (8)	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	18:41 (8)	05:19		04:26	04:32	05:28	06:34	18:39 (8)	07:37	07:47	08:49
	15:54	17:00	18:05	20:14 46	19:27 (8)	21:20		22:17	22:22	21:28	20:07 43	19:22 (8)	18:43	16:24	15:38
8	09:03	08:12	07:00	06:34	18:40 (8)	05:17		04:26	04:33	05:30	19:03 (8)	06:36	18:40 (8)	07:39	07:50	08:50
	15:56	17:02	18:08	20:16 48	19:28 (8)	21:22		22:18	22:21	21:25 13	19:16 (8)	20:04 40	19:20 (8)	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	18:39 (8)	05:15		04:25	04:35	05:32	18:59 (8)	06:38	18:41 (8)	07:42	07:52	08:52
	15:57	17:05	18:10	20:19 50	19:29 (8)	21:25		22:19	22:20	21:23 20	19:19 (8)	20:01 37	19:18 (8)	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	18:38 (8)	05:13		04:24	04:36	05:34	18:56 (8)	06:40	18:42 (8)	07:44	07:54	08:53
	15:59	17:07	18:12	20:21 51	19:29 (8)	21:27		22:20	22:18	21:20 26	19:22 (8)	19:58 34	19:16 (8)	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	18:37 (8)	05:10		04:23	04:37	05:36	18:54 (8)	06:42	18:44 (8)	07:46	07:56	08:55
	16:01	17:10	18:15	20:23 51	19:28 (8)	21:29		22:21	22:17	21:18 29	19:23 (8)	19:55 30	19:14 (8)	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	18:37 (8)	05:08		04:23	04:39	05:38	18:52 (8)	06:44	18:46 (8)	07:48	07:59	08:56
	16:03	17:12	18:17	20:25 52	19:29 (8)	21:31		22:22	22:16	21:16 33	19:25 (8)	19:53 25	19:11 (8)	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	18:36 (8)	05:06		04:22	04:40	05:40	18:51 (8)	06:46	18:49 (8)	07:50	08:01	08:57
	16:05	17:14	18:19	20:27 53	19:29 (8)	21:33		22:23	22:15	21:13 35	19:26 (8)	19:50 18	19:07 (8)	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	18:35 (8)	05:04		04:22	04:42	05:42	18:49 (8)	06:48	18:56 (8)	07:53	08:03	08:58
	16:07	17:17	18:21	20:30 53	19:28 (8)	21:35		22:24	22:13	21:11 38	19:27 (8)	19:47 4	19:00 (8)	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	18:36 (8)	05:02		04:22	04:43	05:45	18:48 (8)	06:50		07:55	08:05	08:59
	16:09	17:19	18:23	20:32 53	19:29 (8)	21:37		22:24	22:12	21:08 40	19:28 (8)	19:44		18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	18:35 (8)	05:00		04:21	04:45	05:47	18:46 (8)	06:52		07:57	08:08	09:00
	16:11	17:21	18:26	20:34 53	19:28 (8)	21:39		22:25	22:11	21:06 43	19:29 (8)	19:41		18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	18:36 (8)	04:58		04:21	04:47	05:49	18:45 (8)	06:55		07:59	08:10	09:01
	16:13	17:24	18:28	20:36 52	19:28 (8)	21:41		22:26	22:09	21:03 45	19:30 (8)	19:39		18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	18:35 (8)	04:56		04:21	04:48	05:51	18:43 (8)	06:57		08:02	08:12	09:02
	16:15	17:26	18:30	20:38 53	19:28 (8)	21:43		22:26	22:08	21:01 46	19:29 (8)	19:36		18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	18:36 (8)	04:54		04:21	04:50	05:53	18:42 (8)	06:59		08:04	08:14	09:03
	16:17	17:29	18:32	20:41 52	19:28 (8)	21:45		22:26	22:06	20:58 48	19:30 (8)	19:33		18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	18:35 (8)	04:52		04:21	04:52	05:55	18:41 (8)	07:01		08:06	08:16	09:04
	16:19	17:31	18:35	20:43 52	19:27 (8)	21:47		22:27	22:04	20:55 49	19:30 (8)	19:30		18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	18:36 (8)	04:50		04:21	04:54	05:57	18:40 (8)	07:03		08:08	08:19	09:04
	16:21	17:33	18:37	20:45 51	19:27 (8)	21:49		22:27	22:03	20:53 50	19:30 (8)	19:27		18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	18:36 (8)	04:48		04:21	04:56	05:59	18:40 (8)	07:05		08:11	08:21	09:05
	16:23	17:36	18:39	20:47 50	19:26 (8)	21:51		22:27	22:01	20:50 50	19:30 (8)	19:25		18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	18:37 (8)	04:46		04:21	04:57	06:02	18:39 (8)	07:07		08:13	08:23	09:05
	16:25	17:38	18:41	20:50 48	19:25 (8)	21:53		22:27	21:59	20:47 51	19:30 (8)	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	18:37 (8)	04:45		04:22	04:59	06:04	18:38 (8)	07:09		08:15	08:25	09:06
	16:28	17:40	18:43	20:52 47	19:24 (8)	21:55		22:28	21:57	20:45 52	19:30 (8)	19:19		17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	18:38 (8)	04:43		04:22	05:01	06:06	18:38 (8)	07:12		07:17	08:27	09:06
	16:30	17:43	18:46	20:54 45	19:23 (8)	21:57		22:27	21:55	20:42 52	19:30 (8)	19:16		16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	18:38 (8)	04:41		04:23	05:03	06:08	18:37 (8)	07:14		07:20	08:29	09:06
	16:32	17:45	18:48	20:56 44	19:22 (8)	21:59		22:27	21:53	20:39 53	19:30 (8)	19:13		16:53	15:49	15:39
27	08:37	07:25	06:08	05:44	18:39 (8)	04:40		04:23	05:05	06:10	18:37 (8)	07:16		07:22	08:31	09:07
	16:34	17:47	18:50	20:58 42	19:21 (8)	22:00		22:27	21:51	20:37 53	19:30 (8)	19:10		16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	18:40 (8)	04:38		04:24	05:07	06:12	18:38 (8)	07:18		07:24	08:33	09:07
	16:37	17:49	18:52	21:01 40	19:20 (8)	22:02		22:27	21:49	20:34 53	19:31 (8)	19:08		16:48	15:47	15:41
29	08:33		07:02	05:39	18:41 (8)	04:37		04:24	05:09	06:14	18:37 (8)	07:20		07:26	08:35	09:07
	16:39		19:54	21:03 38	19:19 (8)	22:04		22:27	21:47	20:31 53	19:30 (8)	19:05		16:45	15:46	15:42
30	08:31		06:59	18:58 (8) 05:36	18:42 (8)	04:36		04:25	05:11	06:17	18:37 (8)	07:22		07:29	08:37	09:07
	16:41		19:57 17	19:15 (8) 21:05 35	19:17 (8)	22:05		22:26	21:45	20:29 53	19:30 (8)	19:02		16:43	15:44	15:43
31	08:29		06:56	18:54 (8)		04:34			05:13	06:19	18:37 (8)			07:31		09:06
	16:44		19:59 24	19:18 (8)		22:07			21:43	20:26 52	19:29 (8)			16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case			41	1387	113			1037	523			
Sun reduction			0,37	0,46	0,58			0,55	0,43			
Oper. time red.			0,93	0,93	0,93			0,93	0,93			
Wind dir. red.			1,00	1,00	1,00			1,00	1,00			
Total reduction			0,34	0,43	0,54			0,51	0,40			
Total, real			14	593	61			526	209			

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AG - Kraukli (A)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AH - Kraukli (B)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:22	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AI - Krivas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		09:55 (13)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34			08:39		09:40 (13)
	15:45	26	10:21 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	28	10:08 (13)
2	09:06		09:55 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		09:40 (13)
	15:47	26	10:21 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	28	10:08 (13)
3	09:06		09:55 (13)	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38			08:43		09:41 (13)
	15:48	26	10:21 (13)	16:51	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	27	10:08 (13)
4	09:05		09:55 (13)	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:41 (13)
	15:49	26	10:21 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	28	10:09 (13)
5	09:05		09:56 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:42 (13)
	15:51	27	10:23 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	27	10:09 (13)
6	09:04		09:56 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		09:41 (13)
	15:52	27	10:23 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	27	10:08 (13)
7	09:04		09:57 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:47			08:49		09:42 (13)
	15:54	27	10:24 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	27	10:09 (13)
8	09:03		09:56 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:43 (13)
	15:56	27	10:23 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	27	10:10 (13)
9	09:02		09:57 (13)	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52			08:52		09:44 (13)
	15:57	27	10:24 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	26	10:10 (13)
10	09:01		09:57 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54			08:54		09:44 (13)
	15:59	28	10:25 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18			15:36	26	10:10 (13)
11	09:00		09:58 (13)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		09:45 (13)
	16:01	28	10:26 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16			15:36	26	10:11 (13)
12	08:59		09:58 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59			08:56		09:45 (13)
	16:03	27	10:25 (13)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14			15:35	26	10:11 (13)
13	08:58		09:59 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01			08:58		09:45 (13)
	16:04	27	10:26 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12			15:35	26	10:11 (13)
14	08:57		09:59 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04			08:59		09:47 (13)
	16:06	27	10:26 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10			15:35	25	10:12 (13)
15	08:56		10:00 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06			09:00		09:47 (13)
	16:08	27	10:27 (13)	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08			15:35	25	10:12 (13)
16	08:54		10:00 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:46 (13)	09:01		09:48 (13)
	16:10	26	10:26 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	7	09:53 (13)	15:35	24	10:12 (13)
17	08:53		10:00 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		09:44 (13)	09:02		09:48 (13)
	16:12	26	10:26 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	12	09:56 (13)	15:35	25	10:13 (13)
18	08:52		10:02 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		09:42 (13)	09:03		09:49 (13)
	16:14	25	10:27 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	16	09:58 (13)	15:35	24	10:13 (13)
19	08:50		10:02 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:41 (13)	09:03		09:49 (13)
	16:17	25	10:27 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	19	10:00 (13)	15:35	24	10:13 (13)
20	08:49		10:03 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:40 (13)	09:04		09:49 (13)
	16:19	23	10:26 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	20	10:00 (13)	15:35	24	10:13 (13)
21	08:47		10:04 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:40 (13)	09:05		09:50 (13)
	16:21	22	10:26 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	22	10:02 (13)	15:36	24	10:14 (13)
22	08:46		10:05 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:39 (13)	09:05		09:50 (13)
	16:23	20	10:25 (13)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	23	10:02 (13)	15:36	24	10:14 (13)
23	08:44		10:06 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:38 (13)	09:06		09:51 (13)
	16:25	19	10:25 (13)	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	25	10:03 (13)	15:37	24	10:15 (13)
24	08:42		10:08 (13)	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:39 (13)	09:06		09:52 (13)
	16:27	16	10:24 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	25	10:04 (13)	15:37	24	10:16 (13)
25	08:41		10:10 (13)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:38 (13)	09:07		09:52 (13)
	16:30	12	10:22 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	26	10:04 (13)	15:38	24	10:16 (13)
26	08:39		10:13 (13)	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:39 (13)	09:07		09:52 (13)
	16:32	6	10:19 (13)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	27	10:06 (13)	15:39	24	10:16 (13)
27	08:37			07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:39 (13)	09:07		09:53 (13)
	16:34			17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	27	10:06 (13)	15:40	24	10:17 (13)
28	08:35			07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:39 (13)	09:07		09:53 (13)
	16:37			17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	27	10:06 (13)	15:41	25	10:18 (13)
29	08:33				07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:39 (13)	09:07		09:54 (13)
	16:39				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	27	10:06 (13)	15:42	24	10:18 (13)
30	08:31				06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:40 (13)	09:07		09:54 (13)
	16:41				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	27	10:07 (13)	15:43	25	10:19 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31				09:07		09:54 (13)
	16:43				19:59		22:07		21:44	20:26		16:40				15:44	25	10:19 (13)
Potential sun hours	227			262	365	430	516	539	539	475	386	321	241			207		
Total, worst case		623												330			787	
Sun reduction		0,13												0,15			0,13	
Oper. time red.		0,93												0,93			0,93	
Wind dir. red.		0,49												0,49			0,49	
Total reduction		0,06												0,07			0,06	
Total, real		38												23			46	

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AJ - Krusteici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:07			08:27		09:40 (2)	07:20			06:54			05:34		06:03 (1)	04:33		06:30 (3)
	15:46			16:46	37	10:17 (2)	17:52			20:01			21:08	49	07:15 (3)	22:09	49	07:19 (3)
2	09:06			08:25		09:39 (2)	07:17			06:51			05:31		06:01 (1)	04:32		06:31 (3)
	15:47			16:49	38	10:17 (2)	17:54			20:04			21:10	52	07:16 (3)	22:10	48	07:19 (3)
3	09:06			08:23		09:40 (2)	07:14			06:48			05:29		05:58 (1)	04:31		06:31 (3)
	15:48			16:51	37	10:17 (2)	17:57			20:06			21:12	57	07:16 (3)	22:12	48	07:19 (3)
4	09:05			08:21		09:40 (2)	07:12			06:46			05:27		05:56 (1)	04:30		06:31 (3)
	15:50			16:53	38	10:18 (2)	17:59			20:08			21:14	61	07:17 (3)	22:13	47	07:18 (3)
5	09:05			08:19		09:40 (2)	07:09			06:43			05:24		05:54 (1)	04:29		06:32 (3)
	15:51			16:56	38	10:18 (2)	18:01			20:10			21:16	66	07:18 (3)	22:15	46	07:18 (3)
6	09:04			08:17		09:40 (2)	07:06			06:40			05:22		05:53 (1)	04:28		06:32 (3)
	15:53			16:58	38	10:18 (2)	18:04			20:12			21:19	67	07:18 (3)	22:16	46	07:18 (3)
7	09:04			08:14		09:40 (2)	07:04			06:37			05:20		05:53 (1)	04:27		06:33 (3)
	15:54			17:00	37	10:17 (2)	18:06			20:15			21:21	69	07:19 (3)	22:17	45	07:18 (3)
8	09:03			08:12		09:41 (2)	07:01			06:35			05:17		05:53 (1)	04:26		06:33 (3)
	15:56			17:03	36	10:17 (2)	18:08			20:17			21:23	69	07:19 (3)	22:18	45	07:18 (3)
9	09:02			08:10		09:41 (2)	06:58			06:32			05:15		05:53 (1)	04:25		06:33 (3)
	15:58			17:05	36	10:17 (2)	18:10			20:19			21:25	70	07:20 (3)	22:19	44	07:17 (3)
10	09:01			08:08		09:42 (2)	06:55			06:29			05:13		05:54 (1)	04:24		06:34 (3)
	15:59			17:08	35	10:17 (2)	18:13			20:21			21:27	69	07:20 (3)	22:20	44	07:18 (3)
11	09:00			08:05		09:42 (2)	06:53			06:26			05:11		05:54 (1)	04:24		06:34 (3)
	16:01			17:10	33	10:15 (2)	18:15			20:23			21:29	68	07:20 (3)	22:21	43	07:17 (3)
12	08:59			08:03		09:44 (2)	06:50			06:24			05:08		05:55 (1)	04:23		06:35 (3)
	16:03			17:12	31	10:15 (2)	18:17			20:26			21:31	67	07:20 (3)	22:22	42	07:17 (3)
13	08:58			08:00		09:44 (2)	06:47			06:21			05:06		05:56 (1)	04:23		06:35 (3)
	16:05			17:15	30	10:14 (2)	18:19			20:28			21:34	65	07:20 (3)	22:23	43	07:18 (3)
14	08:57			07:58		09:45 (2)	06:44		07:18 (5)	06:18			05:04		05:57 (1)	04:22		06:35 (3)
	16:07			17:17	27	10:12 (2)	18:22	13	07:31 (5)	20:30			21:36	63	07:20 (3)	22:24	42	07:17 (3)
15	08:56			07:56		09:47 (2)	06:41		07:15 (5)	06:15			05:02		06:00 (1)	04:22		06:36 (3)
	16:09			17:19	24	10:11 (2)	18:24	18	07:33 (5)	20:32			21:38	58	07:20 (3)	22:25	41	07:17 (3)
16	08:55			07:53		09:49 (2)	06:39		07:13 (5)	06:13			05:00		06:26 (3)	04:22		06:36 (3)
	16:11			17:22	19	10:08 (2)	18:26	21	07:34 (5)	20:34			21:40	54	07:20 (3)	22:25	41	07:17 (3)
17	08:53		09:53 (2)	07:51		09:53 (2)	06:36		07:11 (5)	06:10		06:44 (4)	04:58		06:26 (3)	04:21		06:37 (3)
	16:13	2	09:55 (2)	17:24	12	10:05 (2)	18:28	24	07:35 (5)	20:37	12	06:56 (4)	21:42	54	07:20 (3)	22:26	41	07:18 (3)
18	08:52		09:49 (2)	07:48			06:33		07:10 (5)	06:07		06:41 (4)	04:56		06:27 (3)	04:21		06:37 (3)
	16:15	12	10:01 (2)	17:26			18:30	26	07:36 (5)	20:39	17	06:58 (4)	21:44	54	07:21 (3)	22:26	41	07:18 (3)
19	08:50		09:47 (2)	07:46			06:30		07:08 (5)	06:05		06:39 (4)	04:54		06:26 (3)	04:21		06:37 (3)
	16:17	16	10:03 (2)	17:29			18:33	28	07:36 (5)	20:41	21	07:00 (4)	21:46	54	07:20 (3)	22:27	41	07:18 (3)
20	08:49		09:46 (2)	07:43			06:28		07:08 (5)	06:02		06:37 (4)	04:52		06:26 (3)	04:21		06:37 (3)
	16:19	19	10:05 (2)	17:31			18:35	29	07:37 (5)	20:43	24	07:01 (4)	21:48	54	07:20 (3)	22:27	41	07:18 (3)
21	08:47		09:44 (2)	07:41			06:25		07:07 (5)	05:59		06:37 (4)	04:50		06:27 (3)	04:21		06:37 (3)
	16:21	23	10:07 (2)	17:34			18:37	30	07:37 (5)	20:45	25	07:02 (4)	21:50	53	07:20 (3)	22:28	41	07:18 (3)
22	08:46		09:43 (2)	07:38			06:22		07:07 (5)	05:57		06:35 (4)	04:48		06:27 (3)	04:21		06:37 (3)
	16:23	25	10:08 (2)	17:36			18:39	29	07:36 (5)	20:48	27	07:02 (4)	21:52	53	07:20 (3)	22:28	41	07:18 (3)
23	08:44		09:42 (2)	07:35			06:19		07:06 (5)	05:54		06:35 (4)	04:47		06:27 (3)	04:22		06:38 (3)
	16:26	27	10:09 (2)	17:38			18:42	30	07:36 (5)	20:50	28	07:03 (4)	21:53	53	07:20 (3)	22:28	41	07:19 (3)
24	08:42		09:42 (2)	07:33			06:16		07:06 (5)	05:52		06:34 (4)	04:45		06:27 (3)	04:22		06:38 (3)
	16:28	29	10:11 (2)	17:41			18:44	29	07:35 (5)	20:52	29	07:03 (4)	21:55	53	07:20 (3)	22:28	41	07:19 (3)
25	08:41		09:41 (2)	07:30			06:14		07:06 (5)	05:49		06:33 (4)	04:43		06:28 (3)	04:22		06:39 (3)
	16:30	31	10:12 (2)	17:43			18:46	28	07:34 (5)	20:54	30	07:03 (4)	21:57	52	07:20 (3)	22:28	41	07:20 (3)
26	08:39		09:41 (2)	07:28			06:11		07:07 (5)	05:46		06:34 (4)	04:42		06:28 (3)	04:23		06:38 (3)
	16:32	32	10:13 (2)	17:45			18:48	27	07:34 (5)	20:57	33	07:07 (3)	21:59	52	07:20 (3)	22:28	42	07:20 (3)
27	08:37		09:41 (2)	07:25			06:08		07:07 (5)	05:44		06:33 (4)	04:40		06:28 (3)	04:23		06:39 (3)
	16:35	33	10:14 (2)	17:47			18:50	26	07:33 (5)	20:59	36	07:09 (3)	22:01	51	07:19 (3)	22:28	41	07:20 (3)
28	08:35		09:41 (2)	07:22			06:05		07:08 (5)	05:41		06:33 (4)	04:39		06:28 (3)	04:24		06:38 (3)
	16:37	34	10:15 (2)	17:50			18:53	23	07:31 (5)	21:01	38	07:11 (3)	22:02	51	07:19 (3)	22:27	42	07:20 (3)
29	08:33		09:39 (2)				07:02		08:08 (5)	05:39		06:33 (4)	04:37		06:29 (3)	04:25		06:39 (3)
	16:39	36	10:15 (2)				19:55	21	08:29 (5)	21:03	40	07:13 (3)	22:04	50	07:19 (3)	22:27	42	07:21 (3)
30	08:31		09:39 (2)				07:00		08:11 (5)	05:36		06:05 (1)	04:36		06:30 (3)	04:25		06:39 (3)
	16:42	37	10:16 (2)				19:57	17	08:28 (5)	21:05	43	07:13 (3)	22:06	49	07:19 (3)	22:27	43	07:22 (3)
31	08:29		09:40 (2)				06:57		08:13 (5)				04:34		06:30 (3)			
	16:44	36	10:16 (2)				19:59	11	08:24 (5)				22:07	49	07:19 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		392			546			430			403			1786			1293	
Sun reduction		0,13			0,22			0,37			0,46			0,58			0,53	
Oper. time red.		0,93			0,93			0,93			0,93			0,93			0,93	
Wind dir. red.		0,58			0,58			0,97			0,98			0,97			0,97	
Total reduction		0,07			0,12			0,33			0,42			0,52			0,48	
Total, real		28			66			143			169			933			622	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AJ - Krusteici

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October		November		December	
1	04:26		06:38 (3)	05:15		06:05 (1)	06:21		07:25		07:34	09:11 (2)	08:39
	22:26	43	07:21 (3)	21:41	68	07:31 (3)	20:24		19:00		16:38	35	09:46 (2)	15:44
2	04:27		06:38 (3)	05:17		06:04 (1)	06:23		07:27		07:36		09:10 (2)	08:41
	22:26	44	07:22 (3)	21:39	69	07:30 (3)	20:21		18:57		16:36	36	09:46 (2)	15:42
3	04:28		06:39 (3)	05:19		06:04 (1)	06:25		07:29		07:38		09:10 (2)	08:43
	22:25	43	07:22 (3)	21:37	69	07:30 (3)	20:18		18:54		16:34	37	09:47 (2)	15:41
4	04:29		06:39 (3)	05:22		06:03 (1)	06:27		07:31		07:41		09:10 (2)	08:44
	22:24	44	07:23 (3)	21:35	69	07:29 (3)	20:15		18:51		16:31	37	09:47 (2)	15:41
5	04:30		06:39 (3)	05:24		06:02 (1)	06:30		07:33		07:43		09:10 (2)	08:46
	22:24	44	07:23 (3)	21:33	70	07:29 (3)	20:13		18:49		16:29	38	09:48 (2)	15:40
6	04:31		06:38 (3)	05:26		06:02 (1)	06:32		07:35		07:45		09:09 (2)	08:48
	22:23	46	07:24 (3)	21:30	68	07:28 (3)	20:10		18:46		16:27	38	09:47 (2)	15:39
7	04:32		06:38 (3)	05:28		06:02 (1)	06:34		07:38		07:48		09:10 (2)	08:49
	22:22	46	07:24 (3)	21:28	67	07:27 (3)	20:07		18:43		16:25	38	09:48 (2)	15:38
8	04:34		06:38 (3)	05:30		06:04 (1)	06:36		07:40		07:50		09:10 (2)	08:51
	22:21	47	07:25 (3)	21:26	64	07:27 (3)	20:04		18:40		16:22	38	09:48 (2)	15:38
9	04:35		06:38 (3)	05:32		06:06 (1)	06:38		07:42		07:52		09:10 (2)	08:52
	22:20	47	07:25 (3)	21:23	59	07:26 (3)	20:01		18:38		16:20	38	09:48 (2)	15:37
10	04:36		06:38 (3)	05:34		06:08 (1)	06:40		07:44		07:54		09:11 (2)	08:54
	22:19	48	07:26 (3)	21:21	55	07:25 (3)	19:59		18:35		16:18	37	09:48 (2)	15:37
11	04:38		06:38 (3)	05:36		06:10 (1)	06:42		07:46		07:57		09:10 (2)	08:55
	22:18	48	07:26 (3)	21:18	51	07:24 (3)	19:56		18:32		16:16	37	09:47 (2)	15:36
12	04:39		06:38 (3)	05:38		06:12 (1)	06:44	08:05 (5)	07:49		07:59		09:11 (2)	08:56
	22:16	49	07:27 (3)	21:16	47	07:23 (3)	19:53	10 08:15 (5)	18:29		16:14	36	09:47 (2)	15:36
13	04:41		06:37 (3)	05:41		06:14 (1)	06:46	08:01 (5)	07:51		08:01		09:11 (2)	08:58
	22:15	50	07:27 (3)	21:14	42	07:21 (3)	19:50	17 08:18 (5)	18:27		16:12	36	09:47 (2)	15:36
14	04:42		06:38 (3)	05:43		06:41 (4)	06:49	07:59 (5)	07:53		08:04		09:12 (2)	08:59
	22:14	50	07:28 (3)	21:11	39	07:20 (3)	19:47	20 08:19 (5)	18:24		16:10	35	09:47 (2)	15:35
15	04:44		06:37 (3)	05:45		06:40 (4)	06:51	07:57 (5)	07:55		08:06		09:14 (2)	09:00
	22:12	51	07:28 (3)	21:09	38	07:18 (3)	19:45	23 08:20 (5)	18:21		16:08	33	09:47 (2)	15:35
16	04:45		06:38 (3)	05:47		06:40 (4)	06:53	07:56 (5)	07:57		08:08		09:14 (2)	09:01
	22:11	51	07:29 (3)	21:06	35	07:15 (3)	19:42	25 08:21 (5)	18:19		16:06	32	09:46 (2)	15:35
17	04:47		06:37 (3)	05:49		06:40 (4)	06:55	07:56 (5)	08:00		08:10		09:15 (2)	09:02
	22:10	52	07:29 (3)	21:03	33	07:13 (3)	19:39	27 08:23 (5)	18:16		16:04	31	09:46 (2)	15:35
18	04:49		06:37 (3)	05:51		06:40 (4)	06:57	07:55 (5)	08:02		08:13		09:16 (2)	09:03
	22:08	52	07:29 (3)	21:01	30	07:10 (4)	19:36	28 08:23 (5)	18:13		16:02	29	09:45 (2)	15:35
19	04:50		06:37 (3)	05:53		06:40 (4)	06:59	07:54 (5)	08:04		08:15		09:17 (2)	09:03
	22:06	52	07:29 (3)	20:58	29	07:09 (4)	19:33	29 08:23 (5)	18:11		16:01	27	09:44 (2)	15:36
20	04:52		06:37 (3)	05:56		06:40 (4)	07:01	07:53 (5)	08:06		08:17		09:18 (2)	09:04
	22:05	53	07:30 (3)	20:56	28	07:08 (4)	19:30	29 08:22 (5)	18:08		15:59	25	09:43 (2)	15:36
21	04:54		06:37 (3)	05:58		06:41 (4)	07:03	07:52 (5)	08:09		08:19		09:20 (2)	09:05
	22:03	54	07:31 (3)	20:53	27	07:08 (4)	19:28	30 08:22 (5)	18:06		15:57	23	09:43 (2)	15:36
22	04:56		06:37 (3)	06:00		06:41 (4)	07:05	07:52 (5)	08:11		08:21		09:22 (2)	09:05
	22:01	53	07:30 (3)	20:50	26	07:07 (4)	19:25	29 08:21 (5)	18:03		15:56	19	09:41 (2)	15:37
23	04:58		06:37 (3)	06:02		06:42 (4)	07:08	07:52 (5)	08:13		08:23		09:23 (2)	09:06
	21:59	54	07:31 (3)	20:48	23	07:05 (4)	19:22	29 08:21 (5)	18:00		15:54	16	09:39 (2)	15:37
24	05:00		06:37 (3)	06:04		06:43 (4)	07:10	07:52 (5)	08:15	10:28 (2)	08:25		09:26 (2)	09:06
	21:58	54	07:31 (3)	20:45	21	07:04 (4)	19:19	28 08:20 (5)	17:58	2 10:30 (2)	15:53	12	09:38 (2)	15:38
25	05:01		06:37 (3)	06:06		06:45 (4)	07:12	07:52 (5)	07:18	09:21 (2)	08:27		09:30 (2)	09:07
	21:56	54	07:31 (3)	20:43	17	07:02 (4)	19:16	27 08:19 (5)	16:55	15 09:36 (2)	15:51	4	09:34 (2)	15:39
26	05:03		06:37 (3)	06:08		06:47 (4)	07:14	07:52 (5)	07:20	09:19 (2)	08:29			09:07
	21:54	54	07:31 (3)	20:40	12	06:59 (4)	19:14	25 08:17 (5)	16:53	20 09:39 (2)	15:50			15:39
27	05:05		06:37 (3)	06:10			07:16	07:54 (5)	07:22	09:16 (2)	08:31			09:07
	21:52	54	07:31 (3)	20:37			19:11	23 08:17 (5)	16:50	25 09:41 (2)	15:48			15:40
28	05:07		06:37 (3)	06:13			07:18	07:55 (5)	07:25	09:15 (2)	08:33			09:07
	21:50	54	07:31 (3)	20:34			19:08	20 08:15 (5)	16:48	28 09:43 (2)	15:47			15:41
29	05:09		06:09 (1)	06:15			07:20	07:57 (5)	07:27	09:14 (2)	08:35			09:07
	21:48	60	07:31 (3)	20:32			19:05	15 08:12 (5)	16:45	29 09:43 (2)	15:46			15:42
30	05:11		06:07 (1)	06:17			07:23	08:00 (5)	07:29	09:13 (2)	08:37			09:07
	21:46	65	07:31 (3)	20:29			19:02	8 08:08 (5)	16:43	32 09:45 (2)	15:45			15:43
31	05:13		06:06 (1)	06:19					07:31	09:12 (2)				09:07
	21:44	67	07:31 (3)	20:26					16:41	33 09:45 (2)				15:44
Potential sun hours	538			474			386		321		241			207
Total, worst case		1583			1156			442		184		767		
Sun reduction		0,57			0,55			0,43		0,31		0,15		
Oper. time red.		0,93			0,93			0,93		0,93		0,93		
Wind dir. red.		0,97			0,97			0,97		0,58		0,58		
Total reduction		0,51			0,49			0,39		0,17		0,08		
Total, real		810			569			172		31		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AK - Krumini
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	06:03 (2)	04:26	05:15	06:07 (2)	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09 21	06:24 (2)	22:26	21:41 30	06:37 (2)	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	06:03 (2)	04:27	05:18	06:08 (2)	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10 20	06:23 (2)	22:26	21:39 29	06:37 (2)	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29 06:08 (2)	04:31	06:04 (2)	04:28	05:20	06:08 (2)	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12 10	06:18 (2) 22:12 18	06:22 (2)	22:25	21:37 28	06:36 (2)	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	06:04 (2) 04:30	06:05 (2)	04:29 06:16 (2)	05:22	06:09 (2)	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14 16	06:20 (2) 22:13 17	06:22 (2)	22:24 6	06:22 (2)	21:35 27	06:36 (2)	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	06:03 (2) 04:29	06:06 (2)	04:30	06:15 (2)	05:24	06:09 (2)	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16 18	06:21 (2) 22:14 15	06:21 (2)	22:24 9	06:24 (2)	21:33 25	06:34 (2)	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	06:01 (2) 04:28	06:07 (2)	04:31	06:14 (2)	05:26	06:10 (2)	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19 22	06:23 (2) 22:16 13	06:20 (2)	22:23 12	06:26 (2)	21:30 23	06:33 (2)	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	06:00 (2) 04:27	06:09 (2)	04:33	06:13 (2)	05:28	06:11 (2)	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21 24	06:24 (2) 22:17 10	06:19 (2)	22:22 14	06:27 (2)	21:28 21	06:32 (2)	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	05:59 (2) 04:26	06:10 (2)	04:34	06:12 (2)	05:30	06:13 (2)	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23 26	06:25 (2) 22:18 8	06:18 (2)	22:21 16	06:28 (2)	21:26 17	06:30 (2)	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	05:58 (2) 04:25	06:12 (2)	04:35	06:11 (2)	05:32	06:15 (2)	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25 28	06:26 (2) 22:19 4	06:16 (2)	22:20 17	06:28 (2)	21:23 13	06:28 (2)	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13	05:58 (2) 04:24		04:36	06:11 (2)	05:34	06:18 (2)	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27 28	06:26 (2) 22:20		22:19 19	06:30 (2)	21:21 7	06:25 (2)	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	05:57 (2) 04:24		04:38	06:10 (2)	05:36		06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29 30	06:27 (2) 22:21		22:18 21	06:31 (2)	21:18		19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	05:57 (2) 04:23		04:39	06:10 (2)	05:39		06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31 30	06:27 (2) 22:22		22:16 21	06:31 (2)	21:16		19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	05:56 (2) 04:23		04:41	06:10 (2)	05:41		06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33 31	06:27 (2) 22:23		22:15 23	06:33 (2)	21:14		19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	05:56 (2) 04:22		04:42	06:09 (2)	05:43		06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36 31	06:27 (2) 22:24		22:14 24	06:33 (2)	21:11		19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02	05:56 (2) 04:22		04:44	06:08 (2)	05:45		06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38 31	06:27 (2) 22:25		22:12 25	06:33 (2)	21:09		19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	05:55 (2) 04:22		04:45	06:08 (2)	05:47		06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40 32	06:27 (2) 22:25		22:11 27	06:35 (2)	21:06		19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	05:56 (2) 04:21		04:47	06:08 (2)	05:49		06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42 32	06:28 (2) 22:26		22:09 27	06:35 (2)	21:03		19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	05:56 (2) 04:21		04:49	06:08 (2)	05:51		06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44 32	06:28 (2) 22:26		22:08 28	06:36 (2)	21:01		19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	05:56 (2) 04:21		04:51	06:07 (2)	05:53		06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46 31	06:27 (2) 22:27		22:06 29	06:36 (2)	20:58		19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	05:57 (2) 04:21		04:52	06:07 (2)	05:56		07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48 31	06:28 (2) 22:27		22:05 29	06:36 (2)	20:56		19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	05:56 (2) 04:21		04:54	06:07 (2)	05:58		07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50 31	06:27 (2) 22:27		22:03 30	06:37 (2)	20:53		19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	05:56 (2) 04:22		04:56	06:06 (2)	06:00		07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:52 31	06:27 (2) 22:28		22:01 31	06:37 (2)	20:50		19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	05:57 (2) 04:22		04:58	06:07 (2)	06:02		07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53 30	06:27 (2) 22:28		21:59 31	06:38 (2)	20:48		19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	05:57 (2) 04:22		05:00	06:07 (2)	06:04		07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55 29	06:26 (2) 22:28		21:58 31	06:38 (2)	20:45		19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	05:58 (2) 04:23		05:02	06:06 (2)	06:06		07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57 28	06:26 (2) 22:28		21:56 32	06:38 (2)	20:43		19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	05:59 (2) 04:23		05:04	06:06 (2)	06:08		07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	21:59 27	06:26 (2) 22:28		21:54 32	06:38 (2)	20:40		19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	05:59 (2) 04:24		05:05	06:06 (2)	06:11		07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01 26	06:25 (2) 22:28		21:52 32	06:38 (2)	20:37		19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	05:59 (2) 04:24		05:07	06:07 (2)	06:13		07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02 26	06:25 (2) 22:27		21:50 31	06:38 (2)	20:34		19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	06:00 (2) 04:25		05:09	06:06 (2)	06:15		07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04 25	06:25 (2) 22:27		21:48 32	06:38 (2)	20:32		19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	06:01 (2) 04:26		05:11	06:06 (2)	06:17		07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06 23	06:24 (2) 22:27		21:46 32	06:38 (2)	20:29		19:02	16:43	15:45	15:43
31	08:29		06:57		04:35	06:02 (2)		05:13	06:07 (2)	06:19			07:31		09:07
	16:44		19:59		22:07 22	06:24 (2)		21:44 30	06:37 (2)	20:26			16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case					781	126	691	220				
Sun reduction					0,58	0,53	0,57	0,55				
Oper. time red.					0,93	0,93	0,93	0,93				
Wind dir. red.					0,93	0,93	0,93	0,93				
Total reduction					0,50	0,46	0,49	0,47				
Total, real					391	58	338	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AL - Kudlei 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
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March			April			May			June		
1	09:07		08:27		07:20			06:54		07:32 (2)	05:34			04:33		05:39 (3)
	15:46		16:46		17:52			20:01	24	07:56 (2)	21:08			22:09	12	05:51 (3)
2	09:06		08:25		07:17			06:51		07:32 (2)	05:32			04:32		05:40 (3)
	15:47		16:49		17:54			20:04	23	07:55 (2)	21:10			22:10	11	05:51 (3)
3	09:06		08:23		07:14			06:48		07:32 (2)	05:29			04:31		05:42 (3)
	15:48		16:51		17:57			20:06	23	07:55 (2)	21:12			22:12	8	05:50 (3)
4	09:05		08:21		07:12			06:46		07:32 (2)	05:27			04:30		05:43 (3)
	15:50		16:53		17:59			20:08	22	07:54 (2)	21:14			22:13	5	05:48 (3)
5	09:05		08:19		07:09			06:43		07:33 (2)	05:24			04:29		
	15:51		16:56		18:01			20:10	20	07:53 (2)	21:16			22:15		
6	09:04		08:17		07:06			06:40		07:33 (2)	05:22			04:28		
	15:53		16:58		18:04			20:12	18	07:51 (2)	21:19			22:16		
7	09:04		08:14		07:04			06:37		07:35 (2)	05:20			04:27		
	15:54		17:01		18:06			20:15	15	07:50 (2)	21:21			22:17		
8	09:03		08:12		07:01			06:35		07:37 (2)	05:17			04:26		
	15:56		17:03		18:08			20:17	9	07:46 (2)	21:23			22:18		
9	09:02		08:10		06:58			06:32			05:15			04:25		
	15:58		17:05		18:10			20:19			21:25			22:19		
10	09:01		08:08		06:55			06:29			05:13		05:44 (3)	04:24		
	16:00		17:08		18:13			20:21			21:27	2	05:46 (3)	22:20		
11	09:00		08:05		06:53			06:26			05:11		05:42 (3)	04:24		
	16:01		17:10		18:15			20:23			21:29	7	05:49 (3)	22:21		
12	08:59		08:03		06:50			06:24			05:09		05:40 (3)	04:23		
	16:03		17:12		18:17			20:26			21:31	11	05:51 (3)	22:22		
13	08:58		08:01		06:47			06:21			05:06		05:38 (3)	04:23		
	16:05		17:15		18:19			20:28			21:34	14	05:52 (3)	22:23		
14	08:57		07:58		06:44			06:18			05:04		05:36 (3)	04:22		
	16:07		17:17		18:22			20:30			21:36	16	05:52 (3)	22:24		
15	08:56		07:56		06:42			06:16			05:02		05:35 (3)	04:22		
	16:09		17:20		18:24			20:32			21:38	18	05:53 (3)	22:25		
16	08:55		07:53		06:39			06:13			05:00		05:34 (3)	04:22		
	16:11		17:22		18:26			20:34			21:40	19	05:53 (3)	22:25		
17	08:53		07:51		06:36			06:10			04:58		05:34 (3)	04:21		
	16:13		17:24		18:28			20:37			21:42	20	05:54 (3)	22:26		
18	08:52		07:48		06:33			06:07			04:56		05:34 (3)	04:21		
	16:15		17:27		18:31			20:39			21:44	20	05:54 (3)	22:26		
19	08:50		07:46		06:30			06:05			04:54		05:33 (3)	04:21		
	16:17		17:29		18:33			20:41			21:46	21	05:54 (3)	22:27		
20	08:49		07:43		06:28			06:02			04:52		05:34 (3)	04:21		
	16:19		17:31		18:35			20:43			21:48	21	05:55 (3)	22:27		
21	08:47		07:41		06:25			06:00			04:50		05:34 (3)	04:21		
	16:21		17:34		18:37			20:46			21:50	21	05:55 (3)	22:28		
22	08:46		07:38		06:22			05:57			04:49		05:33 (3)	04:22		
	16:24		17:36		18:39			20:48			21:52	21	05:54 (3)	22:28		
23	08:44		07:36		06:19			05:54			04:47		05:34 (3)	04:22		
	16:26		17:38		18:42			20:50			21:53	20	05:54 (3)	22:28		
24	08:42		07:33		06:16			05:52			04:45		05:34 (3)	04:22		
	16:28		17:41		18:44			20:52			21:55	20	05:54 (3)	22:28		
25	08:41		07:30		06:14		06:42 (2)	05:49			04:43		05:35 (3)	04:22		
	16:30		17:43		18:46	10	06:52 (2)	20:54			21:57	19	05:54 (3)	22:28		
26	08:39		07:28		06:11		06:39 (2)	05:47			04:42		05:35 (3)	04:23		
	16:32		17:45		18:48	15	06:54 (2)	20:57			21:59	19	05:54 (3)	22:28		
27	08:37		07:25		06:08		06:37 (2)	05:44			04:40		05:35 (3)	04:23		
	16:35		17:48		18:50	18	06:55 (2)	20:59			22:01	18	05:53 (3)	22:28		
28	08:35		07:22		06:05		06:35 (2)	05:42			04:39		05:36 (3)	04:24		
	16:37		17:50		18:53	20	06:55 (2)	21:01			22:02	17	05:53 (3)	22:27		
29	08:33				07:02		07:34 (2)	05:39			04:37		05:37 (3)	04:25		
	16:39				19:55	22	07:56 (2)	21:03			22:04	16	05:53 (3)	22:27		
30	08:31				07:00		07:34 (2)	05:37			04:36		05:38 (3)	04:26		
	16:42				19:57	23	07:57 (2)	21:05			22:06	15	05:53 (3)	22:27		
31	08:29				06:57		07:33 (2)				04:35		05:38 (3)			
	16:44				19:59	23	07:56 (2)				22:07	14	05:52 (3)			
Potential sun hours	227		262		365			429			515			539		
Total, worst case						131			154			369			36	
Sun reduction						0,37			0,46			0,58			0,53	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						1,00			1,00			0,88			0,88	
Total reduction						0,34			0,43			0,48			0,44	
Total, real						45			66			176			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AL - Kudlei 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
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October	November	December
1	04:26		05:15	05:51 (3)	06:21		07:25	07:34	08:39
	22:26		21:42	9 06:00 (3)	20:24		19:00	16:38	15:44
2	04:27		05:18	05:53 (3)	06:23		07:27	07:36	08:41
	22:26		21:39	6 05:59 (3)	20:21		18:57	16:36	15:43
3	04:28		05:20		06:25		07:29	07:38	08:43
	22:25		21:37		20:18		18:54	16:34	15:42
4	04:29		05:22		06:28	07:34 (2)	07:31	07:41	08:44
	22:24		21:35		20:15	9 07:43 (2)	18:51	16:31	15:41
5	04:30		05:24		06:30	07:31 (2)	07:33	07:43	08:46
	22:24		21:33		20:13	15 07:46 (2)	18:49	16:29	15:40
6	04:31		05:26		06:32	07:29 (2)	07:36	07:45	08:48
	22:23		21:30		20:10	18 07:47 (2)	18:46	16:27	15:39
7	04:33		05:28		06:34	07:28 (2)	07:38	07:48	08:49
	22:22		21:28		20:07	20 07:48 (2)	18:43	16:25	15:38
8	04:34	05:51 (3)	05:30		06:36	07:27 (2)	07:40	07:50	08:51
	22:21	2 05:53 (3)	21:26		20:04	21 07:48 (2)	18:40	16:22	15:38
9	04:35	05:49 (3)	05:32		06:38	07:26 (2)	07:42	07:52	08:52
	22:20	6 05:55 (3)	21:23		20:01	22 07:48 (2)	18:38	16:20	15:37
10	04:36	05:48 (3)	05:34		06:40	07:25 (2)	07:44	07:55	08:54
	22:19	10 05:58 (3)	21:21		19:59	23 07:48 (2)	18:35	16:18	15:37
11	04:38	05:47 (3)	05:36		06:42	07:24 (2)	07:46	07:57	08:55
	22:18	12 05:59 (3)	21:18		19:56	24 07:48 (2)	18:32	16:16	15:36
12	04:39	05:46 (3)	05:39		06:44	07:24 (2)	07:49	07:59	08:56
	22:17	13 05:59 (3)	21:16		19:53	24 07:48 (2)	18:29	16:14	15:36
13	04:41	05:46 (3)	05:41		06:47	07:24 (2)	07:51	08:01	08:58
	22:15	15 06:01 (3)	21:14		19:50	23 07:47 (2)	18:27	16:12	15:36
14	04:42	05:46 (3)	05:43		06:49	07:24 (2)	07:53	08:04	08:59
	22:14	15 06:01 (3)	21:11		19:47	22 07:46 (2)	18:24	16:10	15:35
15	04:44	05:45 (3)	05:45		06:51	07:24 (2)	07:55	08:06	09:00
	22:13	16 06:01 (3)	21:09		19:45	21 07:45 (2)	18:21	16:08	15:35
16	04:45	05:45 (3)	05:47		06:53	07:26 (2)	07:57	08:08	09:01
	22:11	18 06:03 (3)	21:06		19:42	18 07:44 (2)	18:19	16:06	15:35
17	04:47	05:44 (3)	05:49		06:55	07:27 (2)	08:00	08:10	09:02
	22:10	19 06:03 (3)	21:04		19:39	16 07:43 (2)	18:16	16:04	15:35
18	04:49	05:44 (3)	05:51		06:57	07:29 (2)	08:02	08:13	09:03
	22:08	20 06:04 (3)	21:01		19:36	11 07:40 (2)	18:13	16:03	15:36
19	04:51	05:44 (3)	05:53		06:59		08:04	08:15	09:03
	22:06	19 06:03 (3)	20:58		19:33		18:11	16:01	15:36
20	04:52	05:44 (3)	05:56		07:01		08:06	08:17	09:04
	22:05	20 06:04 (3)	20:56		19:31		18:08	15:59	15:36
21	04:54	05:44 (3)	05:58		07:03		08:09	08:19	09:05
	22:03	21 06:05 (3)	20:53		19:28		18:06	15:57	15:36
22	04:56	05:43 (3)	06:00		07:06		08:11	08:21	09:05
	22:01	21 06:04 (3)	20:51		19:25		18:03	15:56	15:37
23	04:58	05:44 (3)	06:02		07:08		08:13	08:23	09:06
	21:59	21 06:05 (3)	20:48		19:22		18:00	15:54	15:37
24	05:00	05:44 (3)	06:04		07:10		08:15	08:25	09:06
	21:58	21 06:05 (3)	20:45		19:19		17:58	15:53	15:38
25	05:02	05:44 (3)	06:06		07:12		07:18	08:27	09:07
	21:56	20 06:04 (3)	20:43		19:16		16:55	15:51	15:39
26	05:04	05:44 (3)	06:08		07:14		07:20	08:30	09:07
	21:54	20 06:04 (3)	20:40		19:14		16:53	15:50	15:39
27	05:05	05:45 (3)	06:11		07:16		07:22	08:32	09:07
	21:52	19 06:04 (3)	20:37		19:11		16:50	15:48	15:40
28	05:07	05:45 (3)	06:13		07:18		07:25	08:33	09:07
	21:50	19 06:04 (3)	20:35		19:08		16:48	15:47	15:41
29	05:09	05:45 (3)	06:15		07:20		07:27	08:35	09:07
	21:48	18 06:03 (3)	20:32		19:05		16:46	15:46	15:42
30	05:11	05:47 (3)	06:17		07:23		07:29	08:37	09:07
	21:46	15 06:02 (3)	20:29		19:02		16:43	15:45	15:43
31	05:13	05:49 (3)	06:19				07:32		09:07
	21:44	13 06:02 (3)	20:26				16:41		15:44
Potential sun hours	538		474		386		321	241	207
Total, worst case		393		15		287			
Sun reduction		0,57		0,55		0,43			
Oper. time red.		0,93		0,93		0,93			
Wind dir. red.		0,88		0,88		1,00			
Total reduction		0,46		0,45		0,40			
Total, real		183		7		114			

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AM - Kuikules magazina
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:02	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AN - Kuikuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AO - Kilzumi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June		July		August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33		04:26		05:06 (8)	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:09		22:26	15	05:21 (8)	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32		04:27		05:07 (8)	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10		22:25	14	05:21 (8)	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31		04:28		05:08 (8)	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:05	21:12	22:11		22:25	13	05:21 (8)	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30		04:29		05:09 (8)	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13		22:24	11	05:20 (8)	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29		04:30		05:10 (8)	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14		22:23	9	05:19 (8)	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28		04:31		05:11 (8)	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:16	6	05:11 (8)	22:22	7	05:18 (8)	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27		05:04 (8)	04:32		05:12 (8)	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	8	05:12 (8)	22:22	4	05:16 (8)	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26		05:04 (8)	04:34			05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	10	05:14 (8)	22:21			21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25		05:03 (8)	04:35			05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	12	05:15 (8)	22:20			21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24		05:03 (8)	04:36			05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	13	05:16 (8)	22:19			21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24		05:02 (8)	04:38			05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	15	05:17 (8)	22:17			21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23		05:02 (8)	04:39			05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	16	05:18 (8)	22:16			21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23		05:02 (8)	04:41			05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	17	05:19 (8)	22:15			21:13	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22		05:01 (8)	04:42			05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	17	05:18 (8)	22:14			21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22		05:01 (8)	04:44			05:45	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	18	05:19 (8)	22:12			21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21		05:01 (8)	04:45			05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	19	05:20 (8)	22:11			21:06	19:42	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21		05:01 (8)	04:47			05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	19	05:20 (8)	22:09			21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21		05:01 (8)	04:49			05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	19	05:20 (8)	22:08			21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21		05:01 (8)	04:50			05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:27	20	05:21 (8)	22:06			20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21		05:01 (8)	04:52			05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	20	05:21 (8)	22:04			20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21		05:01 (8)	04:54			05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	20	05:21 (8)	22:03			20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21		05:01 (8)	04:56			06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	20	05:21 (8)	22:01			20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22		05:02 (8)	04:58			06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:28	20	05:22 (8)	21:59			20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22		05:02 (8)	04:59			06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	20	05:22 (8)	21:57			20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22		05:03 (8)	05:01			06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	19	05:22 (8)	21:55			20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:11	05:46	04:42	04:23		05:03 (8)	05:03			06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	19	05:22 (8)	21:54			20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23		05:04 (8)	05:05			06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:58	22:00	22:27	18	05:22 (8)	21:52			20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24		05:04 (8)	05:07			06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	18	05:22 (8)	21:50			20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25		05:05 (8)	05:09			06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	17	05:22 (8)	21:48			20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25		05:05 (8)	05:11			06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	16	05:21 (8)	21:45			20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34				05:13			06:19		07:31		09:07
	16:44		19:59		22:07				21:43			20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539		538		474	386	321	241	207	
Total, worst case							416		73						
Sun reduction							0,53		0,57						
Oper. time red.							0,93		0,93						
Wind dir. red.							0,78		0,78						
Total reduction							0,39		0,41						
Total, real							161		30						

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AP - Lapskalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May	June
1	09:07		09:50 (2)	08:27			07:20		08:06 (3)	06:54			05:34	04:33
	15:46	13	10:03 (2)	16:46			17:52	29	08:35 (3)	20:01			21:08	22:09
2	09:06		09:49 (2)	08:25			07:17		08:05 (3)	06:51			05:31	04:32
	15:47	15	10:04 (2)	16:49			17:54	30	08:35 (3)	20:04			21:10	22:10
3	09:06		09:48 (2)	08:23			07:14		08:05 (3)	06:48			05:29	04:31
	15:48	16	10:04 (2)	16:51			17:57	30	08:35 (3)	20:06			21:12	22:12
4	09:06		09:48 (2)	08:21			07:12		08:06 (3)	06:46			05:27	04:30
	15:50	17	10:05 (2)	16:53			17:59	29	08:35 (3)	20:08			21:14	22:13
5	09:05		09:49 (2)	08:19			07:09		08:06 (3)	06:43			05:24	04:29
	15:51	18	10:07 (2)	16:56			18:01	28	08:34 (3)	20:10			21:16	22:15
6	09:04		09:49 (2)	08:17			07:06		07:34 (4)	06:40			05:22	04:28
	15:53	18	10:07 (2)	16:58			18:04	31	08:33 (3)	20:12			21:19	22:16
7	09:04		09:49 (2)	08:14			07:04		07:30 (4)	06:37			05:20	04:27
	15:54	19	10:08 (2)	17:00			18:06	37	08:32 (3)	20:15			21:21	22:17
8	09:03		09:49 (2)	08:12			07:01		07:27 (4)	06:35			05:17	04:26
	15:56	20	10:09 (2)	17:03			18:08	40	08:31 (3)	20:17			21:23	22:18
9	09:02		09:48 (2)	08:10			06:58		07:26 (4)	06:32			05:15	04:25
	15:58	21	10:09 (2)	17:05			18:10	40	08:30 (3)	20:19			21:25	22:19
10	09:01		09:49 (2)	08:08			06:55		07:25 (4)	06:29			05:13	04:24
	15:59	20	10:09 (2)	17:08			18:13	37	08:27 (3)	20:21			21:27	22:21
11	09:00		09:49 (2)	08:05			06:53		07:24 (4)	06:26			05:11	04:24
	16:01	21	10:10 (2)	17:10			18:15	33	08:24 (3)	20:23			21:29	22:22
12	08:59		09:49 (2)	08:03			06:50		07:23 (4)	06:24			05:08	04:23
	16:03	21	10:10 (2)	17:12			18:17	22	07:45 (4)	20:26			21:31	22:22
13	08:58		09:50 (2)	08:01			06:47		07:23 (4)	06:21			05:06	04:23
	16:05	21	10:11 (2)	17:15			18:19	21	07:44 (4)	20:28			21:34	22:23
14	08:57		09:50 (2)	07:58			06:44		07:24 (4)	06:18			05:04	04:22
	16:07	21	10:11 (2)	17:17			18:22	21	07:45 (4)	20:30			21:36	22:24
15	08:56		09:51 (2)	07:56			06:42		07:24 (4)	06:15			05:02	04:22
	16:09	21	10:12 (2)	17:19			18:24	20	07:44 (4)	20:32			21:38	22:25
16	08:55		09:51 (2)	07:53			06:39		07:24 (4)	06:13			05:00	04:21
	16:11	21	10:12 (2)	17:22			18:26	19	07:43 (4)	20:34			21:40	22:25
17	08:53		09:52 (2)	07:51			06:36		07:24 (4)	06:10			04:58	04:21
	16:13	21	10:13 (2)	17:24			18:28	17	07:41 (4)	20:37			21:42	22:26
18	08:52		09:52 (2)	07:48			06:33		07:25 (4)	06:07			04:56	04:21
	16:15	21	10:13 (2)	17:27			18:30	14	07:39 (4)	20:39			21:44	22:27
19	08:50		09:53 (2)	07:46			06:30		07:28 (4)	06:05			04:54	04:21
	16:17	19	10:12 (2)	17:29			18:33	8	07:36 (4)	20:41			21:46	22:27
20	08:49		09:53 (2)	07:43			06:28			06:02			04:52	04:21
	16:19	19	10:12 (2)	17:31			18:35			20:43			21:48	22:27
21	08:47		09:54 (2)	07:41		08:17 (3)	06:25			05:59			04:50	04:21
	16:21	18	10:12 (2)	17:34	9	08:26 (3)	18:37			20:46			21:50	22:28
22	08:46		09:55 (2)	07:38		08:14 (3)	06:22			05:57			04:48	04:21
	16:23	16	10:11 (2)	17:36	15	08:29 (3)	18:39			20:48			21:52	22:28
23	08:44		09:56 (2)	07:36		08:12 (3)	06:19			05:54			04:47	04:22
	16:26	15	10:11 (2)	17:38	20	08:32 (3)	18:42			20:50			21:54	22:28
24	08:42		09:58 (2)	07:33		08:10 (3)	06:16			05:52			04:45	04:22
	16:28	12	10:10 (2)	17:41	23	08:33 (3)	18:44			20:52			21:55	22:28
25	08:41		10:00 (2)	07:30		08:09 (3)	06:14			05:49			04:43	04:22
	16:30	8	10:08 (2)	17:43	24	08:33 (3)	18:46			20:54			21:57	22:28
26	08:39			07:28		08:07 (3)	06:11			05:46			04:42	04:23
	16:32			17:45	27	08:34 (3)	18:48			20:57			21:59	22:28
27	08:37			07:25		08:07 (3)	06:08			05:44			04:40	04:23
	16:35			17:48	28	08:35 (3)	18:50			20:59			22:01	22:28
28	08:35			07:22		08:07 (3)	06:05			05:41			04:39	04:24
	16:37			17:50	28	08:35 (3)	18:53			21:01			22:02	22:28
29	08:33						07:02			05:39			04:37	04:25
	16:39						19:55			21:03			22:04	22:27
30	08:31						07:00			05:36			04:36	04:25
	16:42						19:57			21:05			22:06	22:27
31	08:29						06:57						04:34	
	16:44						19:59						22:07	
Potential sun hours	227			262			365			429			515	539
Total, worst case		452			174			506						
Sun reduction		0,13			0,22			0,37						
Oper. time red.		0,93			0,93			0,93						
Wind dir. red.		0,54			0,88			0,91						
Total reduction		0,07			0,18			0,31						
Total, real		29			31			158						

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AP - Lapskalni
Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:25		08:02 (4)	07:34			08:39		09:32 (2)
	22:26		21:42		20:24			19:00	22	08:24 (4)	16:38			15:44	20	09:52 (2)
2	04:27		05:17		06:23			07:27		08:02 (4)	07:36			08:41		09:32 (2)
	22:26		21:39		20:21			18:57	30	09:01 (3)	16:36			15:42	21	09:53 (2)
3	04:28		05:19		06:25			07:29		08:03 (4)	07:38			08:43		09:33 (2)
	22:25		21:37		20:18			18:54	35	09:04 (3)	16:34			15:41	20	09:53 (2)
4	04:29		05:22		06:28			07:31		08:03 (4)	07:41			08:45		09:33 (2)
	22:25		21:35		20:15			18:51	39	09:06 (3)	16:31			15:41	20	09:53 (2)
5	04:30		05:24		06:30			07:33		08:04 (4)	07:43			08:46		09:34 (2)
	22:24		21:33		20:13			18:49	39	09:07 (3)	16:29			15:40	19	09:53 (2)
6	04:31		05:26		06:32			07:35		08:05 (4)	07:45			08:48		09:35 (2)
	22:23		21:30		20:10			18:46	38	09:08 (3)	16:27			15:39	18	09:53 (2)
7	04:32		05:28		06:34			07:38		08:08 (4)	07:48			08:49		09:35 (2)
	22:22		21:28		20:07			18:43	35	09:09 (3)	16:25			15:38	18	09:53 (2)
8	04:34		05:30		06:36			07:40		08:41 (3)	07:50			08:51		09:36 (2)
	22:21		21:26		20:04			18:40	28	09:09 (3)	16:22			15:38	17	09:53 (2)
9	04:35		05:32		06:38			07:42		08:40 (3)	07:52			08:52		09:37 (2)
	22:20		21:23		20:01			18:38	29	09:09 (3)	16:20			15:37	17	09:54 (2)
10	04:36		05:34		06:40			07:44		08:39 (3)	07:55			08:54		09:38 (2)
	22:19		21:21		19:59			18:35	30	09:09 (3)	16:18			15:37	15	09:53 (2)
11	04:38		05:36		06:42			07:46		08:40 (3)	07:57			08:55		09:40 (2)
	22:18		21:19		19:56			18:32	29	09:09 (3)	16:16			15:36	14	09:54 (2)
12	04:39		05:38		06:44			07:49		08:39 (3)	07:59			08:56		09:41 (2)
	22:17		21:16		19:53			18:29	30	09:09 (3)	16:14			15:36	12	09:53 (2)
13	04:41		05:41		06:47			07:51		08:39 (3)	08:01			08:58		09:42 (2)
	22:15		21:14		19:50			18:27	29	09:08 (3)	16:12			15:35	11	09:53 (2)
14	04:42		05:43		06:49			07:53		08:40 (3)	08:04			08:59		09:44 (2)
	22:14		21:11		19:47			18:24	28	09:08 (3)	16:10			15:35	10	09:54 (2)
15	04:44		05:45		06:51			07:55		08:40 (3)	08:06			09:00		09:45 (2)
	22:13		21:09		19:45			18:21	27	09:07 (3)	16:08			15:35	9	09:54 (2)
16	04:45		05:47		06:53			07:57		08:40 (3)	08:08			09:01		09:46 (2)
	22:11		21:06		19:42			18:19	26	09:06 (3)	16:06			15:35	8	09:54 (2)
17	04:47		05:49		06:55			08:00		08:41 (3)	08:10		09:34 (2)	09:02		09:47 (2)
	22:10		21:04		19:39			18:16	24	09:05 (3)	16:04	8	09:42 (2)	15:35	7	09:54 (2)
18	04:49		05:51		06:57			08:02		08:42 (3)	08:13		09:32 (2)	09:03		09:48 (2)
	22:08		21:01		19:36			18:13	21	09:03 (3)	16:02	12	09:44 (2)	15:35	7	09:55 (2)
19	04:50		05:53		06:59			08:04		08:43 (3)	08:15		09:31 (2)	09:03		09:48 (2)
	22:06		20:58		19:33			18:11	18	09:01 (3)	16:01	15	09:46 (2)	15:36	6	09:54 (2)
20	04:52		05:56		07:01			08:06		08:46 (3)	08:17		09:30 (2)	09:04		09:49 (2)
	22:05		20:56		19:31			18:08	13	08:59 (3)	15:59	16	09:46 (2)	15:36	6	09:55 (2)
21	04:54		05:58		07:03			08:09		08:50 (3)	08:19		09:30 (2)	09:05		09:50 (2)
	22:03		20:53		19:28			18:06	4	08:54 (3)	15:57	18	09:48 (2)	15:36	6	09:56 (2)
22	04:56		06:00		07:06			08:11			08:21		09:29 (2)	09:05		09:50 (2)
	22:01		20:51		19:25			18:03			15:56	19	09:48 (2)	15:37	6	09:56 (2)
23	04:58		06:02		07:08			08:13			08:23		09:30 (2)	09:06		09:51 (2)
	22:00		20:48		19:22			18:00			15:54	19	09:49 (2)	15:37	6	09:57 (2)
24	05:00		06:04		07:10		08:13 (4)	08:15			08:25		09:29 (2)	09:06		09:51 (2)
	21:58		20:45		19:19	5	08:18 (4)	17:58			15:53	21	09:50 (2)	15:38	6	09:57 (2)
25	05:01		06:06		07:12		08:09 (4)	07:18			08:28		09:29 (2)	09:07		09:51 (2)
	21:56		20:43		19:16	12	08:21 (4)	16:55			15:51	21	09:50 (2)	15:38	6	09:57 (2)
26	05:03		06:08		07:14		08:07 (4)	07:20			08:30		09:30 (2)	09:07		09:51 (2)
	21:54		20:40		19:14	16	08:23 (4)	16:53			15:50	21	09:51 (2)	15:39	7	09:58 (2)
27	05:05		06:10		07:16		08:06 (4)	07:22			08:32		09:30 (2)	09:07		09:51 (2)
	21:52		20:37		19:11	18	08:24 (4)	16:50			15:48	21	09:51 (2)	15:40	8	09:59 (2)
28	05:07		06:13		07:18		08:05 (4)	07:25			08:34		09:30 (2)	09:07		09:51 (2)
	21:50		20:35		19:08	20	08:25 (4)	16:48			15:47	21	09:51 (2)	15:41	9	10:00 (2)
29	05:09		06:15		07:20		08:04 (4)	07:27			08:35		09:30 (2)	09:07		09:51 (2)
	21:48		20:32		19:05	21	08:25 (4)	16:45			15:46	21	09:51 (2)	15:42	10	10:01 (2)
30	05:11		06:17		07:23		08:03 (4)	07:29			08:37		09:31 (2)	09:07		09:51 (2)
	21:46		20:29		19:02	21	08:24 (4)	16:43			15:45	21	09:52 (2)	15:43	11	10:02 (2)
31	05:13		06:19					07:32						09:07		09:50 (2)
	21:44		20:26					16:41						15:44	12	10:02 (2)
Potential sun hours	538		474		386			321			241			207		
Total, worst case						113			574			254			362	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,96			0,90			0,54			0,54	
Total reduction						0,38			0,25			0,08			0,06	
Total, real						43			146			20			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AQ - Leinieki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February		March		April	May	June	July	August	September	October		November	December
1	09:07	08:27		07:20	08:13 (3)	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34	08:39
	15:46	16:46		17:52	20 08:33 (3)	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	15:44
2	09:06	08:25		07:17	08:13 (3)	06:51	05:32	04:32	04:27	05:17	06:23	07:27		07:36	08:41
	15:47	16:49		17:54	19 08:32 (3)	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	15:42
3	09:06	08:23		07:14	08:15 (3)	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38	08:43
	15:48	16:51		17:57	16 08:31 (3)	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34	15:41
4	09:06	08:21		07:12	08:17 (3)	06:46	05:27	04:30	04:29	05:22	06:28	07:31		07:41	08:45
	15:50	16:53		17:59	11 08:28 (3)	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31	15:41
5	09:05	08:19		07:09		06:43	05:24	04:29	04:30	05:24	06:30	07:33		07:43	08:46
	15:51	16:56		18:01		20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29	15:40
6	09:04	08:17		07:06		06:40	05:22	04:28	04:31	05:26	06:32	07:36		07:45	08:48
	15:53	16:58		18:04		20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	15:39
7	09:04	08:14		07:04		06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48	08:49
	15:54	17:00		18:06		20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:25	15:38
8	09:03	08:12		07:01		06:35	05:17	04:26	04:34	05:30	06:36	07:40		07:50	08:51
	15:56	17:03		18:08		20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	15:38
9	09:02	08:10		06:58		06:32	05:15	04:25	04:35	05:32	06:38	07:42	08:54 (3)	07:52	08:52
	15:58	17:05		18:10		20:19	21:25	22:20	22:20	21:23	20:01	18:38	6 09:00 (3)	16:20	15:37
10	09:01	08:08		06:55		06:29	05:13	04:24	04:36	05:34	06:40	07:44	08:50 (3)	07:55	08:54
	15:59	17:08		18:13		20:21	21:27	22:21	22:19	21:21	19:59	18:35	13 09:03 (3)	16:18	15:37
11	09:00	08:05		06:53		06:26	05:11	04:24	04:38	05:36	06:42	07:46	08:49 (3)	07:57	08:55
	16:01	17:10		18:15		20:23	21:29	22:22	22:18	21:19	19:56	18:32	16 09:05 (3)	16:16	15:36
12	08:59	08:03		06:50		06:24	05:08	04:23	04:39	05:38	06:44	07:49	08:47 (3)	07:59	08:56
	16:03	17:12		18:17		20:26	21:32	22:23	22:17	21:16	19:53	18:29	19 09:06 (3)	16:14	15:36
13	08:58	08:01		06:47		06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:45 (3)	08:01	08:58
	16:05	17:15		18:19		20:28	21:34	22:23	22:15	21:14	19:50	18:27	21 09:06 (3)	16:12	15:35
14	08:57	07:58		06:44		06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:45 (3)	08:04	08:59
	16:07	17:17		18:22		20:30	21:36	22:24	22:14	21:11	19:47	18:24	22 09:07 (3)	16:10	15:35
15	08:56	07:56		06:42		06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:44 (3)	08:06	09:00
	16:09	17:19		18:24		20:32	21:38	22:25	22:13	21:09	19:45	18:21	23 09:07 (3)	16:08	15:35
16	08:55	07:53		06:39		06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:43 (3)	08:08	09:01
	16:11	17:22		18:26		20:34	21:40	22:26	22:11	21:06	19:42	18:19	24 09:07 (3)	16:06	15:35
17	08:53	07:51	08:23 (3)	06:36		06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:44 (3)	08:10	09:02
	16:13	17:24	3 08:26 (3)	18:28		20:37	21:42	22:26	22:10	21:04	19:39	18:16	23 09:07 (3)	16:04	15:35
18	08:52	07:48	08:18 (3)	06:33		06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:43 (3)	08:13	09:03
	16:15	17:27	12 08:30 (3)	18:31		20:39	21:44	22:27	22:08	21:01	19:36	18:13	24 09:07 (3)	16:02	15:35
19	08:50	07:46	08:16 (3)	06:30		06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:44 (3)	08:15	09:03
	16:17	17:29	16 08:32 (3)	18:33		20:41	21:46	22:27	22:07	20:58	19:33	18:11	23 09:07 (3)	16:01	15:36
20	08:49	07:43	08:15 (3)	06:28		06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:44 (3)	08:17	09:04
	16:19	17:31	19 08:34 (3)	18:35		20:43	21:48	22:27	22:05	20:56	19:31	18:08	22 09:06 (3)	15:59	15:36
21	08:47	07:41	08:14 (3)	06:25		05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:44 (3)	08:19	09:05
	16:21	17:34	20 08:34 (3)	18:37		20:46	21:50	22:28	22:03	20:53	19:28	18:06	20 09:04 (3)	15:57	15:36
22	08:46	07:38	08:13 (3)	06:22		05:57	04:48	04:21	04:56	06:00	07:06	08:11	08:46 (3)	08:21	09:05
	16:23	17:36	22 08:35 (3)	18:39		20:48	21:52	22:28	22:01	20:51	19:25	18:03	18 09:04 (3)	15:56	15:37
23	08:44	07:36	08:13 (3)	06:19		05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:47 (3)	08:23	09:06
	16:26	17:38	23 08:36 (3)	18:42		20:50	21:54	22:28	22:00	20:48	19:22	18:00	14 09:01 (3)	15:54	15:37
24	08:42	07:33	08:12 (3)	06:16		05:52	04:45	04:22	05:00	06:04	07:10	08:16	08:49 (3)	08:26	09:06
	16:28	17:41	24 08:36 (3)	18:44		20:52	21:55	22:28	21:58	20:45	19:19	17:58	11 09:00 (3)	15:53	15:38
25	08:41	07:30	08:12 (3)	06:14		05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:28	09:07
	16:30	17:43	23 08:35 (3)	18:46		20:54	21:57	22:28	21:56	20:43	19:16	16:55		15:51	15:38
26	08:39	07:28	08:11 (3)	06:11		05:46	04:42	04:23	05:03	06:08	07:14	07:20		08:30	09:07
	16:32	17:45	24 08:35 (3)	18:48		20:57	21:59	22:28	21:54	20:40	19:14	16:53		15:50	15:39
27	08:37	07:25	08:12 (3)	06:08		05:44	04:40	04:23	05:05	06:10	07:16	07:22		08:32	09:07
	16:35	17:48	23 08:35 (3)	18:50		20:59	22:01	22:28	21:52	20:37	19:11	16:50		15:48	15:40
28	08:35	07:22	08:12 (3)	06:05		05:41	04:39	04:24	05:07	06:13	07:18	07:25		08:34	09:07
	16:37	17:50	22 08:34 (3)	18:53		21:01	22:03	22:28	21:50	20:35	19:08	16:48		15:47	15:41
29	08:33			07:02		05:39	04:37	04:25	05:09	06:15	07:20	07:27		08:36	09:07
	16:39			19:55		21:03	22:04	22:27	21:48	20:32	19:05	16:45		15:46	15:42
30	08:31			07:00		05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:37	09:07
	16:42			19:57		21:05	22:06	22:27	21:46	20:29	19:02	16:43		15:45	15:43
31	08:29			06:57			04:34		05:13	06:19		07:32			09:07
	16:44			19:59			22:07		21:44	20:26		16:41			15:44
Potential sun hours	227	262		365		429	515	539	538	474	386	321		241	207
Total, worst case			231		66								299		
Sun reduction			0,22		0,37								0,31		
Oper. time red.			0,93		0,93								0,93		
Wind dir. red.			0,87		0,87								0,87		
Total reduction			0,18		0,30								0,25		
Total, real			41		19								74		

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AR - Lielkuikuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AS - Lielspringi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:06		14:21 (12)	08:27		15:16 (13)	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:33			08:39		14:09 (12)
	15:45	22	14:43 (12)	16:46	28	15:44 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	18	14:27 (12)
2	09:06		14:22 (12)	08:25		15:17 (13)	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:26	07:36			08:41		14:10 (12)
	15:46	22	14:44 (12)	16:48	27	15:44 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35			15:42	19	14:29 (12)
3	09:06		14:23 (12)	08:23		15:19 (13)	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38		14:56 (13)	08:43		14:10 (12)
	15:48	21	14:44 (12)	16:50	25	15:44 (13)	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	11	15:07 (13)	15:41	20	14:30 (12)
4	09:05		14:23 (12)	08:21		15:19 (13)	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40		14:53 (13)	08:44		14:10 (12)
	15:49	21	14:44 (12)	16:53	23	15:42 (13)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	16	15:09 (13)	15:40	20	14:30 (12)
5	09:05		14:23 (12)	08:19		15:20 (13)	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43		14:52 (13)	08:46		14:10 (12)
	15:51	21	14:44 (12)	16:55	22	15:42 (13)	18:01	20:10	21:16	22:14	22:24	21:32	20:12	18:48	16:28	19	15:11 (13)	15:39	20	14:30 (12)
6	09:04		14:24 (12)	08:16		15:21 (13)	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45		14:50 (13)	08:48		14:10 (12)
	15:52	21	14:45 (12)	16:58	19	15:40 (13)	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	22	15:12 (13)	15:38	21	14:31 (12)
7	09:03		14:24 (12)	08:14		15:24 (13)	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47		14:49 (13)	08:49		14:11 (12)
	15:54	21	14:45 (12)	17:00	15	15:39 (13)	18:05	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	24	15:13 (13)	15:38	20	14:31 (12)
8	09:03		14:25 (12)	08:12		15:27 (13)	07:00	06:34	05:17	04:25	04:33	05:29	06:36	07:39	07:50		14:48 (13)	08:51		14:11 (12)
	15:55	20	14:45 (12)	17:02	10	15:37 (13)	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	25	15:13 (13)	15:37	21	14:32 (12)
9	09:02		14:26 (12)	08:10			06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52		14:48 (13)	08:52		14:11 (12)
	15:57	19	14:45 (12)	17:05			18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	26	15:14 (13)	15:36	21	14:32 (12)
10	09:01		14:27 (12)	08:07			06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54		14:48 (13)	08:54		14:12 (12)
	15:59	19	14:46 (12)	17:07			18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	27	15:15 (13)	15:36	21	14:33 (12)
11	09:00		14:28 (12)	08:05			06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		14:47 (13)	08:55		14:13 (12)
	16:01	18	14:46 (12)	17:09			18:14	20:23	21:29	22:21	22:18	21:18	19:55	18:32	16:15	28	15:15 (13)	15:36	21	14:34 (12)
12	08:59		14:28 (12)	08:03			06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59		14:48 (13)	08:56		14:13 (12)
	16:02	17	14:45 (12)	17:12			18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	28	15:16 (13)	15:35	21	14:34 (12)
13	08:58		14:30 (12)	08:00			06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:50	08:01		14:47 (13)	08:57		14:13 (12)
	16:04	16	14:46 (12)	17:14			18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:11	29	15:16 (13)	15:35	21	14:34 (12)
14	08:57		14:31 (12)	07:58			06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03		14:48 (13)	08:58		14:13 (12)
	16:06	17	15:23 (13)	17:17			18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	28	15:16 (13)	15:35	21	14:34 (12)
15	08:56		14:33 (12)	07:55			06:41	06:15	05:01	04:21	04:43	05:44	06:50	07:55	08:06		14:47 (13)	09:00		14:14 (12)
	16:08	19	15:26 (13)	17:19			18:23	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:07	29	15:16 (13)	15:35	22	14:36 (12)
16	08:54		14:34 (12)	07:53			06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08		14:48 (13)	09:01		14:15 (12)
	16:10	19	15:28 (13)	17:21			18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	29	15:17 (13)	15:35	21	14:36 (12)
17	08:53		14:36 (12)	07:50			06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10		14:48 (13)	09:02		14:15 (12)
	16:12	18	15:30 (13)	17:24			18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	28	15:16 (13)	15:35	21	14:36 (12)
18	08:52		15:17 (13)	07:48			06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12		14:49 (13)	09:02		14:16 (12)
	16:14	17	15:34 (13)	17:26			18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	27	15:16 (13)	15:35	21	14:37 (12)
19	08:50		15:17 (13)	07:45			06:30	06:04	04:53	04:20	04:50	05:53	06:59	08:04	08:14		14:49 (13)	09:03		14:15 (12)
	16:16	19	15:36 (13)	17:28			18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	27	15:16 (13)	15:35	22	14:37 (12)
20	08:49		15:16 (13)	07:43			06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17		14:50 (13)	09:04		14:16 (12)
	16:19	22	15:38 (13)	17:31			18:35	20:43	21:48	22:27	22:05	20:55	19:30	18:08	15:58	26	15:16 (13)	15:35	22	14:38 (12)
21	08:47		15:16 (13)	07:40			06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19		14:51 (13)	09:05		14:17 (12)
	16:21	24	15:40 (13)	17:33			18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	24	15:15 (13)	15:36	21	14:38 (12)
22	08:45		15:15 (13)	07:38			06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		14:52 (13)	09:05		14:17 (12)
	16:23	26	15:41 (13)	17:35			18:39	20:47	21:51	22:28	22:01	20:50	19:24	18:03	15:55	22	15:14 (13)	15:36	21	14:38 (12)
23	08:44		15:15 (13)	07:35			06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23		14:53 (13)	09:06		14:17 (12)
	16:25	27	15:42 (13)	17:38			18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	19	15:12 (13)	15:37	21	14:38 (12)
24	08:42		15:15 (13)	07:33			06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25		14:54 (13)	09:06		14:18 (12)
	16:27	27	15:42 (13)	17:40			18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:57	15:52	17	15:11 (13)	15:37	22	14:40 (12)
25	08:40		15:15 (13)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:11	07:17	08:27		14:15 (12)	09:06		14:19 (12)
	16:30	28	15:43 (13)	17:42			18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	18	15:09 (13)	15:38	21	14:40 (12)
26	08:39		15:15 (13)	07:27			06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		14:12 (12)	09:07		14:19 (12)
	16:32	29	15:44 (13)	17:45			18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	20	15:07 (13)	15:39	21	14:40 (12)
27	08:37		15:15 (13)	07:25			06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31		14:12 (12)	09:07		14:19 (12)
	16:34	29	15:44 (13)	17:47			18:50	20:58	22:01	22:28	21:52	20:37	19:10	16:50	15:48	20	15:06 (13)	15:40	22	14:41 (12)
28	08:35		15:15 (13)	07:22			06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		14:11 (12)	09:07		14:20 (12)
	16:36	29	15:44 (13)	17:49			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:46	18	15:04 (13)	15:40	21	14:41 (12)
29	08:33		15:15 (13)				07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35		14:10 (12)	09:07		14:21 (12)
	16:39	29	15:44 (13)				19:54	21:03	22:04	22:27	21:48	20:31	19:05	16:45	15:45	16	14:26 (12)	15:41	21	14:42 (12)
30	08:31		15:16 (13)				06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37		14:10 (12)	09:07		14:20 (12)
	16:41	28	15:44 (13)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	17	14:27 (12)	15:42	22	14:42 (12)
31	08:29		15:17 (13)				06:56		04:34		05:13	06:19		07:31				09:07		14:21 (12)
	16:43	28	15:45 (13)				19:59		22:07		21:43	20:26		16:40				15:44	22	14:43 (12)
Potential sun hours	227			262			365	429	516	539	539	475	386	321	241			207		
Total, worst case		693			169											640			649	
Sun reduction		0,13			0,22											0,15			0,13	
Oper. time red.		0,93			0,93											0,93			0,93	
Wind dir. red.		0,62			0,69											0,67			0,52	
Total reduction		0,08			0,14											0,10			0,06	
Total, real		52			24											62			40	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AT - Liepavoti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:42	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AU - Lojas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October	November		December		
1	09:07	10:16 (3)	08:27		09:16 (4)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34		08:10 (1)	08:39		10:02 (3)
	15:46	26 10:42 (3)	16:46	22	09:38 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	16	08:26 (1)	15:43	26	10:28 (3)
2	09:06	10:16 (3)	08:25		09:15 (4)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36		08:10 (1)	08:41		10:02 (3)
	15:47	26 10:42 (3)	16:48	22	09:37 (4)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	16	08:26 (1)	15:42	26	10:28 (3)
3	09:06	10:16 (3)	08:23		09:16 (4)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38		08:13 (1)	08:43		10:03 (3)
	15:48	26 10:42 (3)	16:51	21	09:37 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	23	09:02 (4)	15:41	25	10:28 (3)
4	09:06	10:17 (3)	08:21		08:53 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41		08:15 (1)	08:45		10:03 (3)
	15:50	26 10:43 (3)	16:53	21	09:37 (4)	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31	25	09:03 (4)	15:40	26	10:29 (3)
5	09:05	10:17 (3)	08:19		08:50 (1)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43		08:18 (1)	08:46		10:03 (3)
	15:51	27 10:44 (3)	16:56	23	09:36 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29	23	09:05 (4)	15:40	26	10:29 (3)
6	09:04	10:18 (3)	08:17		08:48 (1)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45		08:21 (1)	08:48		10:04 (3)
	15:53	26 10:44 (3)	16:58	24	09:35 (4)	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	23	09:07 (4)	15:39	26	10:30 (3)
7	09:04	10:18 (3)	08:14		08:45 (1)	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38		07:48		08:23 (1)	08:49		10:03 (3)
	15:54	26 10:44 (3)	17:00	24	09:33 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	21	09:07 (4)	15:38	27	10:30 (3)
8	09:03	10:19 (3)	08:12		08:43 (1)	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40		07:50		08:47 (4)	08:51		10:04 (3)
	15:56	26 10:45 (3)	17:03	23	09:32 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	21	09:08 (4)	15:37	26	10:30 (3)
9	09:02	10:18 (3)	08:10		08:40 (1)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52		08:46 (4)	08:52		10:05 (3)
	15:58	26 10:44 (3)	17:05	16	08:56 (1)	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37		16:20	22	09:08 (4)	15:37	26	10:31 (3)
10	09:01	10:19 (3)	08:08		08:41 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55		08:46 (4)	08:54		10:05 (3)
	15:59	26 10:45 (3)	17:07	16	08:57 (1)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	22	09:08 (4)	15:36	26	10:31 (3)
11	09:00	10:20 (3)	08:05		08:41 (1)	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46		07:57		08:46 (4)	08:55		10:06 (3)
	16:01	25 10:45 (3)	17:10	15	08:56 (1)	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32		16:16	22	09:08 (4)	15:36	26	10:32 (3)
12	08:59	10:20 (3)	08:03		08:42 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59		08:47 (4)	08:56		10:06 (3)
	16:03	25 10:45 (3)	17:12	14	08:56 (1)	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29		16:14	22	09:09 (4)	15:36	26	10:32 (3)
13	08:58	10:21 (3)	08:01		08:43 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01		08:47 (4)	08:58		10:06 (3)
	16:05	25 10:46 (3)	17:15	11	08:54 (1)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	22	09:09 (4)	15:35	26	10:32 (3)
14	08:57	10:21 (3)	07:58		08:45 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04		08:47 (4)	08:59		10:07 (3)
	16:07	24 10:45 (3)	17:17	8	08:53 (1)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	21	09:08 (4)	15:35	26	10:33 (3)
15	08:56	10:23 (3)	07:56			06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06		08:48 (4)	09:00		10:08 (3)
	16:09	23 10:46 (3)	17:19			18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08	20	09:08 (4)	15:35	25	10:33 (3)
16	08:55	10:23 (3)	07:53			06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08		08:48 (4)	09:01		10:08 (3)
	16:11	22 10:45 (3)	17:22			18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19		16:06	20	09:08 (4)	15:35	26	10:34 (3)
17	08:53	10:25 (3)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10		08:50 (4)	09:02		10:09 (3)
	16:13	21 10:46 (3)	17:24			18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16		16:04	18	09:08 (4)	15:35	25	10:34 (3)
18	08:52	10:26 (3)	07:48			06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02		08:13		08:51 (4)	09:03		10:09 (3)
	16:15	19 10:45 (3)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13		16:02	15	09:06 (4)	15:35	26	10:35 (3)
19	08:50	10:27 (3)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04		08:15		08:54 (4)	09:03		10:10 (3)
	16:17	17 10:44 (3)	17:29			18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11		16:01	12	09:06 (4)	15:35	25	10:35 (3)
20	08:49	10:28 (3)	07:43			06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06		08:17		08:56 (4)	09:04		10:10 (3)
	16:19	15 10:43 (3)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08		15:59	15	10:14 (3)	15:36	25	10:35 (3)
21	08:47	09:23 (4)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:19		08:59 (4)	09:05		10:11 (3)
	16:21	16 10:42 (3)	17:33			18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05		15:57	16	10:18 (3)	15:36	25	10:36 (3)
22	08:46	09:21 (4)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11		08:21		10:04 (3)	09:05		10:11 (3)
	16:23	15 10:39 (3)	17:36			18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03		15:56	15	10:19 (3)	15:37	25	10:36 (3)
23	08:44	09:19 (4)	07:36			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13		08:23		10:04 (3)	09:06		10:12 (3)
	16:26	12 09:31 (4)	17:38			18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00		15:54	17	10:21 (3)	15:37	25	10:37 (3)
24	08:42	09:17 (4)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15		08:25		10:03 (3)	09:06		10:12 (3)
	16:28	15 09:32 (4)	17:41			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58		15:52	19	10:22 (3)	15:38	25	10:37 (3)
25	08:41	09:16 (4)	07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:28		10:02 (3)	09:07		10:12 (3)
	16:30	18 09:34 (4)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55		15:51	21	10:23 (3)	15:38	25	10:37 (3)
26	08:39	09:15 (4)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20		08:30		10:02 (3)	09:07		10:13 (3)
	16:32	20 09:35 (4)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53		15:50	22	10:24 (3)	15:39	25	10:38 (3)
27	08:37	09:15 (4)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22		08:32		10:02 (3)	09:07		10:13 (3)
	16:35	21 09:36 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	2	08:19 (1)	15:48	23	10:25 (3)	15:40	25	10:38 (3)
28	08:35	09:15 (4)	07:22			06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25		08:14 (1)	08:34		10:01 (3)	09:07		10:14 (3)
	16:37	21 09:36 (4)	17:50			18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	9	08:23 (1)	15:47	24	10:25 (3)	15:41	25	10:39 (3)
29	08:33	09:15 (4)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27		08:12 (1)	08:35		10:01 (3)	09:07		10:14 (3)
	16:39	22 09:37 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	12	08:24 (1)	15:46	25	10:26 (3)	15:42	26	10:40 (3)
30	08:31	09:15 (4)				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:11 (1)	08:37		10:02 (3)	09:07		10:15 (3)
	16:41	22 09:37 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15	08:26 (1)	15:45	25	10:27 (3)	15:43	26	10:41 (3)
31	08:29	09:15 (4)				06:57		04:34		05:13	06:19		07:32		08:10 (1)				09:07		10:15 (3)
	16:44	22 09:37 (4)				19:59		22:07		21:44	20:26		16:41	16	08:26 (1)				15:44	25	10:40 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321			241			207		
Total, worst case		681		260										54		606				793
Sun reduction		0,13		0,22										0,31		0,15				0,13
Oper. time red.		0,93		0,93										0,93		0,93				0,93
Wind dir. red.		0,49		0,73										0,79		0,60				0,42
Total reduction		0,06		0,15										0,22		0,09				0,05
Total, real		40		39										12		52				39

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AV - Mazjesperi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:26	07:36	08:40
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:04	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:45	16:26	15:39
7	09:03	08:14	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:33	05:30	06:36	07:39	07:49	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:20	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:31	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:56	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:23	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:23	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:52	07:57	08:08	09:00
	16:11	17:21	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:01	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:07	21:00	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:10	16:00	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:10	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:55	15:37
23	08:44	07:35	06:19	05:54	04:47	04:21	04:57	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:49	21:53	22:27	21:59	20:47	19:22	18:00	15:54	15:37
24	08:42	07:32	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:39	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:49	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:26	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:06
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AW - Mazkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April	May	June
1	09:07		10:21 (2)		08:27		07:20	08:29 (3)	06:54	05:34	04:33
	15:46	24	10:45 (2)		16:46		17:52	39	09:08 (3)	20:01	21:08	22:09
2	09:06		10:21 (2)		08:25		07:17		08:28 (3)	06:51	05:31	04:32
	15:47	24	10:45 (2)		16:49		17:54	40	09:08 (3)	20:04	21:10	22:10
3	09:06		10:21 (2)		08:23		07:14		08:28 (3)	06:48	05:29	04:31
	15:48	24	10:45 (2)		16:51		17:57	39	09:07 (3)	20:06	21:12	22:12
4	09:06		10:21 (2)		08:21		07:12		08:29 (3)	06:46	05:27	04:30
	15:50	24	10:45 (2)		16:53		17:59	38	09:07 (3)	20:08	21:14	22:13
5	09:05		10:23 (2)		08:19		07:09		07:42 (4)	06:43	05:24	04:28
	15:51	23	10:46 (2)		16:56		18:01	42	09:06 (3)	20:10	21:16	22:15
6	09:04		10:23 (2)		08:17		07:06		07:37 (4)	06:40	05:22	04:27
	15:53	24	10:47 (2)		16:58		18:04	49	09:05 (3)	20:12	21:19	22:16
7	09:04		10:24 (2)		08:14		08:46 (5)	07:04		07:35 (4)	06:37	05:20	04:27
	15:54	23	10:47 (2)		17:00	6	08:52 (5)	18:06	50	09:03 (3)	20:15	21:21	22:17
8	09:03		10:23 (2)		08:12		08:43 (5)	07:01		07:33 (4)	06:35	05:17	04:26
	15:56	23	10:46 (2)		17:03	13	08:56 (5)	18:08	51	09:02 (3)	20:17	21:23	22:18
9	09:02		10:24 (2)		08:10		08:41 (5)	06:58		07:32 (4)	06:32	05:15	04:25
	15:58	22	10:46 (2)		17:05	16	08:57 (5)	18:10	51	09:01 (3)	20:19	21:25	22:19
10	09:01		10:25 (2)		08:08		08:40 (5)	06:55		07:31 (4)	06:29	05:13	04:24
	15:59	22	10:47 (2)		17:08	19	08:59 (5)	18:13	49	08:58 (3)	20:21	21:27	22:21
11	09:00		10:26 (2)		08:05		08:39 (5)	06:53		07:30 (4)	06:26	05:11	04:24
	16:01	21	10:47 (2)		17:10	20	08:59 (5)	18:15	45	08:55 (3)	20:23	21:29	22:22
12	08:59		10:26 (2)		08:03		08:39 (5)	06:50		07:29 (4)	06:24	05:08	04:23
	16:03	20	10:46 (2)		17:12	21	09:00 (5)	18:17	39	08:51 (3)	20:26	21:31	22:22
13	08:58		10:28 (2)		08:00		08:38 (5)	06:47		07:29 (4)	06:21	05:06	04:23
	16:05	19	10:47 (2)		17:15	23	09:01 (5)	18:19	26	07:55 (4)	20:28	21:34	22:23
14	08:57		10:28 (2)		07:58		08:37 (5)	06:44		07:29 (4)	06:18	05:04	04:22
	16:07	18	10:46 (2)		17:17	24	09:01 (5)	18:22	27	07:56 (4)	20:30	21:36	22:24
15	08:56		10:30 (2)		07:56		08:38 (5)	06:41		07:29 (4)	06:15	05:02	04:22
	16:09	16	10:46 (2)		17:19	23	09:01 (5)	18:24	26	07:55 (4)	20:32	21:38	22:25
16	08:55		10:31 (2)		07:53		08:37 (5)	06:39		07:29 (4)	06:13	05:00	04:21
	16:11	14	10:45 (2)		17:22	24	09:01 (5)	18:26	25	07:54 (4)	20:34	21:40	22:25
17	08:53		10:33 (2)		07:51		08:38 (5)	06:36		07:29 (4)	06:10	04:58	04:21
	16:13	11	10:44 (2)		17:24	23	09:01 (5)	18:28	24	07:53 (4)	20:37	21:42	22:26
18	08:52		10:36 (2)		07:48		08:37 (3)	06:33		07:29 (4)	06:07	04:56	04:21
	16:15	6	10:42 (2)		17:26	26	09:03 (3)	18:30	23	07:52 (4)	20:39	21:44	22:27
19	08:50				07:46		08:35 (3)	06:30		07:30 (4)	06:05	04:54	04:21
	16:17				17:29	29	09:04 (3)	18:33	20	07:50 (4)	20:41	21:46	22:27
20	08:49				07:43		08:34 (3)	06:28		06:54 (1)	06:02	04:52	04:21
	16:19				17:31	32	09:06 (3)	18:35	21	07:49 (4)	20:43	21:48	22:27
21	08:47				07:41		08:33 (3)	06:25		06:51 (1)	05:59	04:50	04:21
	16:21				17:34	33	09:06 (3)	18:37	20	07:46 (4)	20:45	21:50	22:28
22	08:46				07:38		08:32 (3)	06:22		06:48 (1)	05:57	04:48	04:21
	16:23				17:36	35	09:07 (3)	18:39	12	07:00 (1)	20:48	21:52	22:28
23	08:44				07:35		08:30 (3)	06:19		06:45 (1)	05:54	04:47	04:22
	16:26				17:38	37	09:07 (3)	18:42	15	07:00 (1)	20:50	21:54	22:28
24	08:42				07:33		08:30 (3)	06:16		06:42 (1)	05:52	04:45	04:22
	16:28				17:41	38	09:08 (3)	18:44	18	07:00 (1)	20:52	21:55	22:28
25	08:41				07:30		08:30 (3)	06:14		06:41 (1)	05:49	04:43	04:22
	16:30				17:43	38	09:08 (3)	18:46	18	06:59 (1)	20:54	21:57	22:28
26	08:39				07:28		08:29 (3)	06:11		06:42 (1)	05:46	04:42	04:23
	16:32				17:45	39	09:08 (3)	18:48	18	07:00 (1)	20:57	21:59	22:28
27	08:37				07:25		08:29 (3)	06:08		06:41 (1)	05:44	04:40	04:23
	16:35				17:47	40	09:09 (3)	18:50	18	06:59 (1)	20:59	22:01	22:28
28	08:35				07:22		08:29 (3)	06:05		06:42 (1)	05:41	04:39	04:24
	16:37				17:50	40	09:09 (3)	18:53	15	06:57 (1)	21:01	22:02	22:27
29	08:33							07:02		07:42 (1)	05:39	04:37	04:25
	16:39							19:55	14	07:56 (1)	21:03	22:04	22:27
30	08:31							07:00		07:45 (1)	05:36	04:36	04:25
	16:42							19:57	9	07:54 (1)	21:05	22:06	22:27
31	08:29							06:57				04:34	
	16:44							19:59				22:07	
Potential sun hours	227			262			365			429	515	539	
Total, worst case		358			599			881					
Sun reduction		0,13			0,22			0,37					
Oper. time red.		0,93			0,93			0,93					
Wind dir. red.		0,40			0,81			0,90					
Total reduction		0,05			0,17			0,31					
Total, real		17			100			271					

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AW - Mazkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:25		08:08 (4)	07:34		08:10 (5)	08:39		10:08 (2)
	22:26		21:42		20:24			19:00	33	09:27 (3)	16:38	18	08:28 (5)	15:43	21	10:29 (2)
2	04:27		05:17		06:23			07:27		08:08 (4)	07:36		08:11 (5)	08:41		10:08 (2)
	22:26		21:39		20:21			18:57	42	09:32 (3)	16:36	15	08:26 (5)	15:42	22	10:30 (2)
3	04:28		05:19		06:25			07:29		08:09 (4)	07:38		08:13 (5)	08:43		10:08 (2)
	22:25		21:37		20:18			18:54	47	09:35 (3)	16:34	12	08:25 (5)	15:41	23	10:31 (2)
4	04:29		05:22		06:27			07:31		08:09 (4)	07:41		08:16 (5)	08:44		10:09 (2)
	22:24		21:35		20:15			18:51	50	09:37 (3)	16:31	5	08:21 (5)	15:41	22	10:31 (2)
5	04:30		05:24		06:30			07:33		08:09 (4)	07:43			08:46		10:09 (2)
	22:24		21:33		20:13			18:49	51	09:38 (3)	16:29			15:40	23	10:32 (2)
6	04:31		05:26		06:32			07:35		08:10 (4)	07:45			08:48		10:09 (2)
	22:23		21:30		20:10			18:46	51	09:39 (3)	16:27			15:39	24	10:33 (2)
7	04:32		05:28		06:34			07:38		08:12 (4)	07:48			08:49		10:09 (2)
	22:22		21:28		20:07			18:43	50	09:40 (3)	16:24			15:38	23	10:32 (2)
8	04:34		05:30		06:36			07:40		08:15 (4)	07:50			08:51		10:09 (2)
	22:21		21:26		20:04			18:40	46	09:41 (3)	16:22			15:38	24	10:33 (2)
9	04:35		05:32		06:38			07:42		09:04 (3)	07:52			08:52		10:10 (2)
	22:20		21:23		20:01			18:38	37	09:41 (3)	16:20			15:37	24	10:34 (2)
10	04:36		05:34		06:40			07:44		09:03 (3)	07:55			08:54		10:10 (2)
	22:19		21:21		19:59			18:35	38	09:41 (3)	16:18			15:36	24	10:34 (2)
11	04:38		05:36		06:42			07:46		09:03 (3)	07:57			08:55		10:11 (2)
	22:18		21:18		19:56			18:32	39	09:42 (3)	16:16			15:36	24	10:35 (2)
12	04:39		05:38		06:44			07:49		09:02 (3)	07:59			08:56		10:11 (2)
	22:17		21:16		19:53			18:29	40	09:42 (3)	16:14			15:36	24	10:35 (2)
13	04:41		05:41		06:46		07:35 (1)	07:51		09:01 (3)	08:01			08:58		10:11 (2)
	22:15		21:14		19:50	9	07:44 (1)	18:27	40	09:41 (3)	16:12			15:35	24	10:35 (2)
14	04:42		05:43		06:49		07:33 (1)	07:53		09:02 (3)	08:04			08:59		10:12 (2)
	22:14		21:11		19:47	13	07:46 (1)	18:24	40	09:42 (3)	16:10			15:35	24	10:36 (2)
15	04:44		05:45		06:51		07:31 (1)	07:55		09:01 (3)	08:06			09:00		10:12 (2)
	22:13		21:09		19:45	16	07:47 (1)	18:21	40	09:41 (3)	16:08			15:35	25	10:37 (2)
16	04:45		05:47		06:53		07:30 (1)	07:57		09:01 (3)	08:08			09:01		10:13 (2)
	22:11		21:06		19:42	17	07:47 (1)	18:19	39	09:40 (3)	16:06			15:35	24	10:37 (2)
17	04:47		05:49		06:55		07:30 (1)	08:00		09:02 (3)	08:10			09:02		10:13 (2)
	22:10		21:03		19:39	18	07:48 (1)	18:16	38	09:40 (3)	16:04			15:35	25	10:38 (2)
18	04:49		05:51		06:57		07:29 (1)	08:02		09:02 (3)	08:13			09:03		10:14 (2)
	22:08		21:01		19:36	19	07:48 (1)	18:13	37	09:39 (3)	16:02			15:35	24	10:38 (2)
19	04:50		05:53		06:59		07:29 (1)	08:04		09:02 (3)	08:15			09:03		10:13 (2)
	22:06		20:58		19:33	18	07:47 (1)	18:11	36	09:38 (3)	16:01			15:36	25	10:38 (2)
20	04:52		05:55		07:01		07:31 (1)	08:06		09:03 (3)	08:17			09:04		10:14 (2)
	22:05		20:56		19:30	16	07:47 (1)	18:08	35	09:38 (3)	15:59			15:36	25	10:39 (2)
21	04:54		05:58		07:03		07:33 (1)	08:09		09:03 (3)	08:19			09:05		10:15 (2)
	22:03		20:53		19:28	12	07:45 (1)	18:06	33	09:36 (3)	15:57			15:36	24	10:39 (2)
22	04:56		06:00		07:05		07:35 (1)	08:11		09:05 (3)	08:21			09:05		10:15 (2)
	22:01		20:51		19:25	18	08:29 (4)	18:03	31	09:36 (3)	15:56			15:37	24	10:39 (2)
23	04:58		06:02		07:08		07:37 (1)	08:13		09:05 (3)	08:23			09:06		10:16 (2)
	22:00		20:48		19:22	20	08:32 (4)	18:00	29	09:34 (3)	15:54			15:37	25	10:41 (2)
24	04:59		06:04		07:10		08:14 (4)	08:15		09:07 (3)	08:25		10:13 (2)	09:06		10:16 (2)
	21:58		20:45		19:19	19	08:33 (4)	17:58	26	09:33 (3)	15:53	6	10:19 (2)	15:38	25	10:41 (2)
25	05:01		06:06		07:12		08:13 (4)	07:18		08:08 (5)	08:27		10:11 (2)	09:07		10:17 (2)
	21:56		20:43		19:16	21	08:34 (4)	16:55	23	08:31 (5)	15:51	11	10:22 (2)	15:38	24	10:41 (2)
26	05:03		06:08		07:14		08:11 (4)	07:20		08:08 (5)	08:30		10:10 (2)	09:07		10:17 (2)
	21:54		20:40		19:14	24	08:35 (4)	16:53	23	08:31 (5)	15:50	14	10:24 (2)	15:39	24	10:41 (2)
27	05:05		06:10		07:16		08:11 (4)	07:22		08:07 (5)	08:32		10:09 (2)	09:07		10:18 (2)
	21:52		20:37		19:11	25	08:36 (4)	16:50	24	08:31 (5)	15:48	16	10:25 (2)	15:40	24	10:42 (2)
28	05:07		06:13		07:18		08:10 (4)	07:25		08:08 (5)	08:34		10:09 (2)	09:07		10:18 (2)
	21:50		20:34		19:08	26	08:36 (4)	16:48	23	08:31 (5)	15:47	17	10:26 (2)	15:41	24	10:42 (2)
29	05:09		06:15		07:20		08:09 (4)	07:27		08:08 (5)	08:35		10:08 (2)	09:07		10:19 (2)
	21:48		20:32		19:05	27	08:36 (4)	16:45	22	08:30 (5)	15:46	19	10:27 (2)	15:42	24	10:43 (2)
30	05:11		06:17		07:23		08:09 (4)	07:29		08:09 (5)	08:37		10:09 (2)	09:07		10:20 (2)
	21:46		20:29		19:02	26	08:35 (4)	16:43	21	08:30 (5)	15:45	20	10:29 (2)	15:43	24	10:44 (2)
31	05:13		06:19					07:31		08:09 (5)				09:07		10:19 (2)
	21:44		20:26					16:41	20	08:29 (5)				15:44	25	10:44 (2)
Potential sun hours	538		474		386			321			241			207		
Total, worst case						344			1104			153			741	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,97			0,83			0,53			0,40	
Total reduction						0,39			0,24			0,08			0,05	
Total, real						133			262			12			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AX - Mazkuikuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:05	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:19	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:02	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AY - Mazspridi 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
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: AZ - Mazspridi š i (B)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BA - Medni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
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	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:04
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
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25	08:40	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
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26	08:39	07:28	06:11	05:47	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
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	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BB - Me ž meiniki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April	May	June
1	09:07		10:50 (1)		08:27		07:20	08:21 (10)	06:54	05:34	04:33
	15:46	23	11:32 (4)		16:46		17:52	6 08:27 (10)	20:01	21:08	22:09
2	09:06		10:51 (1)		08:25		07:17		06:51	05:31	04:32
	15:47	20	11:32 (4)		16:48		17:54		20:03	21:10	22:10
3	09:06		11:17 (4)		08:23		07:14		06:48	05:29	04:30
	15:48	14	11:31 (4)		16:51		17:57		20:06	21:12	22:12
4	09:06		11:18 (4)		08:21		07:12		06:46	05:26	04:29
	15:50	13	11:31 (4)		16:53		17:59		20:08	21:14	22:13
5	09:05		11:21 (4)		08:19		07:09		06:43	05:24	04:28
	15:51	10	11:31 (4)		16:55		18:01		20:10	21:16	22:15
6	09:04		11:22 (4)		08:17		07:06		06:40	05:22	04:27
	15:53	8	11:30 (4)		16:58		18:03		20:12	21:19	22:16
7	09:04		11:26 (4)		08:14		07:03		06:37	05:19	04:26
	15:54	1	11:27 (4)		17:00		18:06		20:14	21:21	22:17
8	09:03				08:12		07:01		06:34	05:17	04:26
	15:56				17:03		18:08		20:17	21:23	22:18
9	09:02				08:10		06:58		06:32	05:15	04:25
	15:57				17:05		18:10		20:19	21:25	22:19
10	09:01				08:08		06:55		06:29	05:13	04:24
	15:59				17:07		18:12		20:21	21:27	22:21
11	09:00				08:05		06:52		06:26	05:10	04:23
	16:01				17:10		18:15		20:23	21:29	22:22
12	08:59				08:03		06:50		06:23	05:08	04:23
	16:03				17:12		18:17		20:26	21:31	22:22
13	08:58				08:00		06:47		06:21	05:06	04:22
	16:05				17:15		18:19		20:28	21:34	22:23
14	08:57				07:58		06:44		06:18	05:04	04:22
	16:07				17:17		18:21		20:30	21:36	22:24
15	08:56				07:56		08:25 (10)	06:41	06:15	05:02	04:22
	16:09				17:19	3	08:28 (10)	18:24	20:32	21:38	22:25
16	08:55				07:53		08:22 (10)	06:39	06:13	05:00	04:21
	16:11				17:22	9	08:31 (10)	18:26	20:34	21:40	22:25
17	08:53				07:51		08:20 (10)	06:36	06:10	04:58	04:21
	16:13				17:24	14	08:34 (10)	18:28	20:37	21:42	22:26
18	08:52				07:48		08:17 (10)	06:33	06:07	04:56	04:21
	16:15				17:26	17	08:34 (10)	18:30	20:39	21:44	22:27
19	08:50				07:46		08:16 (10)	06:30	06:05	04:54	04:21
	16:17				17:29	19	08:35 (10)	18:33	20:41	21:46	22:27
20	08:49				07:43		08:16 (10)	06:27	06:02	04:52	04:21
	16:19				17:31	20	08:36 (10)	18:35	20:43	21:48	22:27
21	08:47				07:41		08:15 (10)	06:25	05:59	04:50	04:21
	16:21				17:33	21	08:36 (10)	18:37	20:45	21:50	22:28
22	08:46				07:38		08:14 (10)	06:22	05:57	04:48	04:21
	16:23				17:36	22	08:36 (10)	18:39	20:48	21:52	22:28
23	08:44				07:35		08:14 (10)	06:19	05:54	04:47	04:21
	16:25				17:38	21	08:35 (10)	18:41	20:50	21:54	22:28
24	08:42				07:33		08:15 (10)	06:16	05:51	04:45	04:22
	16:28				17:40	21	08:36 (10)	18:44	20:52	21:55	22:28
25	08:41				07:30		08:15 (10)	06:13	05:49	04:43	04:22
	16:30				17:43	20	08:35 (10)	18:46	20:54	21:57	22:28
26	08:39				07:28		08:16 (10)	06:11	05:46	04:42	04:23
	16:32				17:45	18	08:34 (10)	18:48	20:57	21:59	22:28
27	08:37				07:25		08:16 (10)	06:08	05:44	04:40	04:23
	16:34				17:47	16	08:32 (10)	18:50	20:59	22:01	22:28
28	08:35				07:22		08:19 (10)	06:05	05:41	04:38	04:24
	16:37				17:50	12	08:31 (10)	18:52	21:01	22:02	22:28
29	08:33							07:02	05:39	04:37	04:24
	16:39							19:55	21:03	22:04	22:27
30	08:31							06:59	05:36	04:36	04:25
	16:41							19:57	21:05	22:06	22:27
31	08:29							06:57		04:34	
	16:44							19:59		22:07	
Potential sun hours	227		262		365			429	515	539	
Total, worst case		89		233		6					
Sun reduction		0,13		0,22		0,37					
Oper. time red.		0,93		0,93		0,93					
Wind dir. red.		0,22		0,86		0,86					
Total reduction		0,03		0,18		0,29					
Total, real		2		41		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)

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Enviroprojekts, SIA
Maza Nometnu iela 31
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16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BB - Me ž meiniki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October		November	December		
1	04:26	05:15	06:21	07:25		07:34	08:39		
	22:26	21:42	20:24	19:00		16:38	15:43		
2	04:27	05:17	06:23	07:27		07:36	08:41		
	22:26	21:39	20:21	18:57		16:36	15:42		
3	04:28	05:19	06:25	07:29		07:38	08:43		
	22:25	21:37	20:18	18:54		16:33	15:41		
4	04:29	05:21	06:27	07:31		07:41	08:45		
	22:24	21:35	20:15	18:51		16:31	15:40		
5	04:30	05:23	06:29	07:33		07:43	08:46		
	22:24	21:33	20:12	18:48		16:29	15:40		
6	04:31	05:26	06:32	07:35		07:45	08:48		11:09 (4)
	22:23	21:30	20:10	18:46		16:27	15:39	7	11:16 (4)
7	04:32	05:28	06:34	07:38		07:48	08:49		11:07 (4)
	22:22	21:28	20:07	18:43		16:24	15:38	10	11:17 (4)
8	04:33	05:30	06:36	07:40		07:50	08:51		11:07 (4)
	22:21	21:26	20:04	18:40		16:22	15:37	12	11:19 (4)
9	04:35	05:32	06:38	07:42		07:52	08:52		11:07 (4)
	22:20	21:23	20:01	18:37		16:20	15:37	13	11:20 (4)
10	04:36	05:34	06:40	07:44		07:55	08:54		10:41 (1)
	22:19	21:21	19:59	18:35		16:18	15:36	18	11:21 (4)
11	04:37	05:36	06:42	07:46		07:57	08:55		10:40 (1)
	22:18	21:18	19:56	18:32		16:16	15:36	23	11:22 (4)
12	04:39	05:38	06:44	07:49		07:59	08:56		10:39 (1)
	22:17	21:16	19:53	18:29		16:14	15:36	26	11:23 (4)
13	04:40	05:40	06:46	07:51	08:53 (10)	08:01	08:58		10:39 (1)
	22:15	21:14	19:50	18:27	9 09:02 (10)	16:12	15:35	27	11:23 (4)
14	04:42	05:43	06:49	07:53	08:51 (10)	08:04	08:59		10:39 (1)
	22:14	21:11	19:47	18:24	14 09:05 (10)	16:10	15:35	29	11:25 (4)
15	04:43	05:45	06:51	07:55	08:49 (10)	08:06	09:00		10:39 (1)
	22:13	21:09	19:45	18:21	17 09:06 (10)	16:08	15:35	30	11:25 (4)
16	04:45	05:47	06:53	07:57	08:47 (10)	08:08	09:01		10:39 (1)
	22:11	21:06	19:42	18:19	19 09:06 (10)	16:06	15:35	32	11:26 (4)
17	04:47	05:49	06:55	08:00	08:47 (10)	08:10	09:02		10:40 (1)
	22:10	21:03	19:39	18:16	20 09:07 (10)	16:04	15:35	33	11:27 (4)
18	04:48	05:51	06:57	08:02	08:46 (10)	08:13	09:03		10:40 (1)
	22:08	21:01	19:36	18:13	21 09:07 (10)	16:02	15:35	32	11:27 (4)
19	04:50	05:53	06:59	08:04	08:45 (10)	08:15	09:03		10:40 (1)
	22:06	20:58	19:33	18:11	22 09:07 (10)	16:01	15:35	34	11:28 (4)
20	04:52	05:55	07:01	08:06	08:46 (10)	08:17	09:04		10:40 (1)
	22:05	20:56	19:30	18:08	21 09:07 (10)	15:59	15:36	34	11:28 (4)
21	04:54	05:57	07:03	08:09	08:45 (10)	08:19	09:05		10:41 (1)
	22:03	20:53	19:28	18:05	21 09:06 (10)	15:57	15:36	34	11:29 (4)
22	04:56	06:00	07:05	08:11	08:46 (10)	08:21	09:05		10:41 (1)
	22:01	20:50	19:25	18:03	20 09:06 (10)	15:55	15:36	34	11:29 (4)
23	04:57	06:02	07:08	08:13	08:46 (10)	08:23	09:06		10:42 (1)
	22:00	20:48	19:22	18:00	19 09:05 (10)	15:54	15:37	34	11:30 (4)
24	04:59	06:04	07:10	08:15	08:48 (10)	08:25	09:06		10:42 (1)
	21:58	20:45	19:19	17:58	16 09:04 (10)	15:52	15:38	34	11:30 (4)
25	05:01	06:06	07:12	07:18	07:50 (10)	08:27	09:07		10:43 (1)
	21:56	20:43	19:16	16:55	13 08:03 (10)	15:51	15:38	33	11:30 (4)
26	05:03	06:08	07:14	07:20	07:53 (10)	08:30	09:07		10:43 (1)
	21:54	20:40	19:14	16:53	8 08:01 (10)	15:50	15:39	34	11:31 (4)
27	05:05	06:10	07:16	07:22		08:32	09:07		10:44 (1)
	21:52	20:37	19:11	16:50		15:48	15:40	32	11:31 (4)
28	05:07	06:12	07:18	07:25		08:34	09:07		10:45 (1)
	21:50	20:34	19:08	16:48		15:47	15:41	31	11:31 (4)
29	05:09	06:15	07:20	07:27		08:35	09:07		10:46 (1)
	21:48	20:32	19:05	16:45		15:46	15:42	30	11:32 (4)
30	05:11	06:17	07:22	07:29		08:37	09:07		10:47 (1)
	21:46	20:29	19:02	16:43		15:44	15:43	29	11:32 (4)
31	05:13	06:19		07:31			09:07		10:48 (1)
	21:44	20:26		16:40			15:44	27	11:32 (4)
Potential sun hours	539	475	386	321		241	207		
Total, worst case				240			712		
Sun reduction				0,31			0,13		
Oper. time red.				0,93			0,93		
Wind dir. red.				0,86			0,24		
Total reduction				0,24			0,03		
Total, real				59			21		

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

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

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Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BC - Namdari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April			May			June		July			August			September	October	November	December
1	09:06		08:27		07:19		06:54			05:34			19:46 (8)		04:33			04:26			05:15			20:05 (8)		06:21		07:24		07:33		08:39
	15:45		16:46		17:52		20:01			21:07		33	20:19 (8)		22:08			22:26			21:41		15	20:20 (8)		20:23		18:59		16:38		15:43
2	09:06		08:25		07:17		06:51			05:31			19:46 (8)		04:32			04:27			05:17			20:02 (8)		06:23		07:26		07:36		08:40
	15:47		16:48		17:54		20:03			21:09		32	20:18 (8)		22:10			22:25			21:39		19	20:21 (8)		20:20		18:56		16:36		15:42
3	09:05		08:23		07:14		06:48			05:29			19:46 (8)		04:30			04:28			05:19			20:01 (8)		06:25		07:29		07:38		08:42
	15:48		16:51		17:56		20:05			21:12		32	20:18 (8)		22:11			22:25			21:37		21	20:22 (8)		20:18		18:54		16:33		15:41
4	09:05		08:21		07:11		06:45			05:26			19:47 (8)		04:29			04:29			05:21			20:00 (8)		06:27		07:31		07:40		08:44
	15:49		16:53		17:59		20:08			21:14		30	20:17 (8)		22:13			22:24			21:34		23	20:23 (8)		20:15		18:51		16:31		15:40
5	09:04		08:18		07:09		06:42			05:24			19:47 (8)		04:28			04:30			05:23			19:59 (8)		06:29		07:33		07:43		08:46
	15:51		16:55		18:01		20:10			21:16		30	20:17 (8)		22:14			22:23			21:32		25	20:24 (8)		20:12		18:48		16:29		15:39
6	09:04		08:16		07:06		06:40			05:22			19:48 (8)		04:27			04:31			05:25			19:58 (8)		06:31		07:35		07:45		08:47
	15:52		16:58		18:03		20:12			21:18		28	20:16 (8)		22:15			22:22			21:30		27	20:25 (8)		20:09		18:45		16:26		15:39
7	09:03		08:14		07:03		06:37			05:19			19:48 (8)		04:26			04:32			05:28			19:57 (8)		06:33		07:37		07:47		08:49
	15:54		17:00		18:05		20:14			21:20		27	20:15 (8)		22:17			22:21			21:28		29	20:26 (8)		20:07		18:43		16:24		15:38
8	09:02		08:12		07:00		06:34			05:17			19:49 (8)		04:26			04:33			05:30			19:57 (8)		06:36		07:39		07:49		08:50
	15:56		17:02		18:08		20:16			21:22		25	20:14 (8)		22:18			22:20			21:25		29	20:26 (8)		20:04		18:40		16:22		15:37
9	09:02		08:09		06:58		06:31			05:15			19:50 (8)		04:25			04:35			05:32			19:56 (8)		06:38		07:42		07:52		08:52
	15:57		17:05		18:10		20:19			21:25		23	20:13 (8)		22:19			22:19			21:23		31	20:27 (8)		20:01		18:37		16:20		15:37
10	09:01		08:07		06:55		06:29			05:12			19:51 (8)		04:24			04:36			05:34			19:56 (8)		06:40		07:44		07:54		08:53
	15:59		17:07		18:12		20:21			21:27		20	20:11 (8)		22:20			22:18			21:20		31	20:27 (8)		19:58		18:34		16:18		15:36
11	09:00		08:05		06:52		06:26			05:10			19:53 (8)		04:23			04:37			05:36			19:55 (8)		06:42		07:46		07:56		08:55
	16:01		17:10		18:14		20:23			21:29		17	20:10 (8)		22:21			22:17			21:18		32	20:27 (8)		19:55		18:32		16:16		15:36
12	08:59		08:02		06:49		06:23			05:08			19:55 (8)		04:23			04:39			05:38			19:55 (8)		06:44		07:48		07:59		08:56
	16:03		17:12		18:17		20:25			21:31		13	20:08 (8)		22:22			22:16			21:16		32	20:27 (8)		19:53		18:29		16:14		15:36
13	08:58		08:00		06:47		06:21			05:06			19:58 (8)		04:22			04:40			05:40			19:55 (8)		06:46		07:50		08:01		08:57
	16:05		17:14		18:19		20:27			21:33		6	20:04 (8)		22:23			22:15			21:13		32	20:27 (8)		19:50		18:26		16:12		15:35
14	08:57		07:58		06:44		06:18			05:04					04:22			04:42			05:42			19:54 (8)		06:48		07:53		08:03		08:58
	16:07		17:17		18:21		20:30			21:35					22:24			22:13			21:11		33	20:27 (8)		19:47		18:24		16:10		15:35
15	08:55		07:55		06:41		06:15			05:02					04:22			04:43			05:45			19:54 (8)		06:50		07:55		08:05		08:59
	16:08		17:19		18:23		20:32			21:37					22:24			22:12			21:08		33	20:27 (8)		19:44		18:21		16:08		15:35
16	08:54		07:53		06:38		06:12			05:00					04:21			04:45			05:47			19:53 (8)		06:52		07:57		08:08		09:00
	16:10		17:21		18:26		20:34			21:39					22:25			22:11			21:06		33	20:26 (8)		19:41		18:18		16:06		15:35
17	08:53		07:50		06:36		06:10			04:58					04:21			04:47			05:49			19:54 (8)		06:55		07:59		08:10		09:01
	16:13		17:24		18:28		20:36			21:41					22:25			22:09			21:03		31	20:25 (8)		19:39		18:16		16:04		15:35
18	08:51		07:48		06:33		06:07		19:59 (8)	04:56					04:21			04:48			05:51			19:54 (8)		06:57		08:01		08:12		09:02
	16:15		17:26		18:30		20:38	8	20:07 (8)	21:43					22:26			22:08			21:00		30	20:24 (8)		19:36		18:13		16:02		15:35
19	08:50		07:45		06:30		06:04		19:56 (8)	04:54					04:21			04:50			05:53			19:54 (8)		06:59		08:04		08:14		09:03
	16:17		17:29		18:32		20:41	14	20:10 (8)	21:45					22:26			22:06			20:58		30	20:24 (8)		19:33		18:10		16:00		15:35
20	08:48		07:43		06:27		06:02		19:54 (8)	04:52					04:21			04:52			05:55			19:55 (8)		07:01		08:06		08:16		09:04
	16:19		17:31		18:35		20:43	17	20:11 (8)	21:47					22:27			22:04			20:55		27	20:22 (8)		19:30		18:08		15:59		15:36
21	08:47		07:40		06:24		05:59		19:53 (8)	04:50					04:21			04:54			05:57			19:55 (8)		07:03		08:08		08:19		09:04
	16:21		17:33		18:37		20:45	21	20:14 (8)	21:49					22:27			22:03			20:53		25	20:20 (8)		19:27		18:05		15:57		15:36
22	08:45		07:38		06:22		05:56		19:51 (8)	04:48					04:21			04:56			05:59			19:56 (8)		07:05		08:10		08:21		09:05
	16:23		17:36		18:39		20:47	24	20:15 (8)	21:51					22:27			22:01			20:50		21	20:17 (8)		19:24		18:03		15:55		15:36
23	08:44		07:35		06:19		05:54		19:50 (8)	04:46					04:21			04:57			06:02			19:58 (8)		07:07		08:13		08:23		09:05
	16:25		17:38		18:41		20:49	28	20:18 (8)	21:53					22:27			21:59			20:47		17	20:15 (8)		19:22		18:00		15:54		15:37
24	08:42		07:32		06:16		05:51		19:49 (8)	04:45					04:22			04:59			06:04			19:59 (8)		07:09		08:15		08:25		09:06
	16:28		17:40		18:43		20:52	29	20:18 (8)	21:55					22:27			21:57			20:45		13	20:12 (8)		19:19		17:58		15:52		15:38
25	08:40		07:30		06:13		05:49		19:48 (8)	04:43					04:22			05:01			06:06			20:02 (8)		07:11		07:17		08:27		09:06
	16:30		17:43		18:46		20:54	31	20:19 (8)	21:57					22:27			21:55			20:42		8	20:10 (8)		19:16		16:55		15:51		15:38
26	08:38		07:27		06:10		05:46		19:47 (8)	04:41					04:23			05:03			06:08					07:14		07:20		08:29		09:06
	16:32		17:45		18:48		20:56	32	20:19 (8)	21:58					22:27			21:53			20:39					19:13		16:52		15:49		15:39
27	08:37		07:25		06:08		05:44		19:47 (8)	04:40					04:23			05:05			06:10					07:16		07:22		08:31		09:06
	16:34		17:47		18:50		20:58	32	20:19 (8)	22:00					22:27			21:51			20:37					19:10		16:50		15:48		15:40
28	08:35		07:22		06:05		05:41		19:47 (8)	04:38					04:24			05:07			06:12					07:18		07:24		08:33		09:07
	16:37		17:49		18:52		21:01	32	20:19 (8)	22:02					22:27			21:49			20:34					19:08		16:48		15:47		15:41
29	08:33				07:02		05:39		19:46 (8)	04:37					04:24			05:09			06:14					07:20		07:26		08:35		09:07
	16:39				19:54		21:03	33	20:19 (8)	22:04					22:27			21:47			20:31					19:05		16:45		15:46		15:42
30	08:31				06:59		05:36		19:46 (8)	04:35					04:25			05:11			06:17					07:22		07:29		08:37		09:07
	16:41				19:57		21:05	33	20:19 (8)	22:05					22:26			21:45			20:29					19:02		16:43		15:44		15:43
31	08:29				06:56					04:34								05:13		20:08 (8)	06:19							07:31				09:06
	16:44				19:59					22:07								21:43	9	20:17 (8)	20:26							16:40				15:44
Potential sun hours	227		262		365		429			515			539		538			474			386			321		241		207	
Total, worst case								334			316					9			647										
Sun reduction								0,46			0,58					0,57			0,55										
Oper. time red.								0,93			0,93					0,93			0,93										
Wind dir. red.								0,95			0,95					0,95			0,95										
Total reduction								0,41			0,51					0,50			0,48										
Total, real								135			161					4			311										

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BD - Norinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June	
1	09:07		11:09 (11)	08:27		09:01 (12)	07:20			06:54		05:34	04:33	
	15:45	74	13:02 (10)	16:46	23	12:57 (10)	17:52			20:01		21:07	22:09	
2	09:06		11:10 (11)	08:25		08:58 (12)	07:17			06:51		05:31	04:32	
	15:47	74	13:03 (10)	16:48	17	09:15 (12)	17:54			20:03		21:10	22:10	
3	09:06		11:11 (11)	08:23		08:58 (12)	07:14			06:48		05:29	04:30	
	15:48	74	13:04 (10)	16:51	19	09:17 (12)	17:56			20:06		21:12	22:12	
4	09:05		11:11 (11)	08:21		08:56 (12)	07:11			06:45		05:26	04:29	
	15:49	73	13:04 (10)	16:53	21	09:17 (12)	17:59			20:08		21:14	22:13	
5	09:05		11:12 (11)	08:19		08:56 (12)	07:09		07:36 (13)	06:43		05:24	04:28	
	15:51	72	13:04 (10)	16:55	23	09:19 (12)	18:01	11	07:47 (13)	20:10		21:16	22:15	
6	09:04		11:13 (11)	08:16		08:56 (12)	07:06		07:33 (13)	06:40		05:22	04:27	
	15:52	73	13:06 (10)	16:58	24	09:20 (12)	18:03	16	07:49 (13)	20:12		21:18	22:16	
7	09:04		11:14 (11)	08:14		08:55 (12)	07:03		07:30 (13)	06:37		05:19	04:26	
	15:54	72	13:06 (10)	17:00	25	09:20 (12)	18:06	21	07:51 (13)	20:14		21:21	22:17	
8	09:03		11:14 (11)	08:12		08:55 (12)	07:01		07:28 (13)	06:34		05:17	04:25	
	15:56	72	13:06 (10)	17:02	26	09:21 (12)	18:08	24	07:52 (13)	20:17		21:23	22:18	
9	09:02		11:15 (11)	08:10		08:55 (12)	06:58		07:26 (13)	06:32		05:15	04:25	
	15:57	70	13:06 (10)	17:05	25	09:20 (12)	18:10	27	07:53 (13)	20:19		21:25	22:19	
10	09:01		11:16 (11)	08:07		08:55 (12)	06:55		07:26 (13)	06:29		05:12	04:24	
	15:59	70	13:07 (10)	17:07	26	09:21 (12)	18:12	28	07:54 (13)	20:21		21:27	22:20	
11	09:00		11:17 (11)	08:05		08:55 (12)	06:52		07:25 (13)	06:26		05:10	04:23	
	16:01	69	13:08 (10)	17:10	26	09:21 (12)	18:15	29	07:54 (13)	20:23		21:29	22:21	
12	08:59		11:18 (11)	08:03		08:56 (12)	06:50		07:24 (13)	06:23		05:08	04:23	
	16:03	66	13:07 (10)	17:12	25	09:21 (12)	18:17	30	07:54 (13)	20:25		21:31	22:22	
13	08:58		11:19 (11)	08:00		08:56 (12)	06:47		07:23 (13)	06:21		05:06	04:22	
	16:05	65	13:08 (10)	17:14	24	09:20 (12)	18:19	31	07:54 (13)	20:28		21:33	22:23	
14	08:57		11:20 (11)	07:58		08:56 (12)	06:44		07:23 (13)	06:18		05:04	04:22	
	16:06	63	13:08 (10)	17:17	23	09:19 (12)	18:21	31	07:54 (13)	20:30		21:36	22:24	
15	08:56		11:22 (11)	07:55		08:57 (12)	06:41		07:23 (13)	06:15		05:02	04:21	
	16:08	61	13:09 (10)	17:19	22	09:19 (12)	18:24	31	07:54 (13)	20:32		21:38	22:25	
16	08:54		11:24 (11)	07:53		08:58 (12)	06:38		07:23 (13)	06:12		05:00	04:21	
	16:10	59	15:28 (1)	17:22	19	09:17 (12)	18:26	31	07:54 (13)	20:34		21:40	22:25	
17	08:53		11:26 (11)	07:51		08:59 (12)	06:36		07:23 (13)	06:10		04:58	04:21	
	16:12	57	15:31 (1)	17:24	17	09:16 (12)	18:28	30	07:53 (13)	20:36		21:42	22:26	
18	08:52		12:27 (10)	07:48		09:01 (12)	06:33		07:23 (13)	06:07		04:56	04:21	
	16:15	49	15:34 (1)	17:26	13	09:14 (12)	18:30	29	07:52 (13)	20:39		21:44	22:26	
19	08:50		12:27 (10)	07:46		09:05 (12)	06:30		07:23 (13)	06:04		04:54	04:21	
	16:17	51	15:36 (1)	17:29	4	09:09 (12)	18:32	27	07:50 (13)	20:41		21:46	22:27	
20	08:49		12:27 (10)	07:43			06:27		07:24 (13)	06:02		04:52	04:21	
	16:19	53	15:38 (1)	17:31			18:35	25	07:49 (13)	20:43		21:48	22:27	
21	08:47		12:28 (10)	07:40			06:25		07:26 (13)	05:59		04:50	04:21	
	16:21	55	15:41 (1)	17:33			18:37	22	07:48 (13)	20:45		21:50	22:28	
22	08:46		12:29 (10)	07:38			06:22		07:27 (13)	05:57		04:48	04:21	
	16:23	55	15:43 (1)	17:36			18:39	19	07:46 (13)	20:48		21:52	22:28	
23	08:44		12:30 (10)	07:35			06:19		07:29 (13)	05:54		04:46	04:21	
	16:25	53	15:43 (1)	17:38			18:41	13	07:42 (13)	20:50		21:53	22:28	
24	08:42		12:31 (10)	07:33			06:16			05:51		04:45	04:22	
	16:28	51	15:43 (1)	17:40			18:44			20:52		21:55	22:28	
25	08:41		12:32 (10)	07:30			06:13			05:49		04:43	04:22	
	16:30	48	15:43 (1)	17:43			18:46			20:54		21:57	22:28	
26	08:39		12:33 (10)	07:27			06:11			05:46		04:41	04:22	
	16:32	45	15:42 (1)	17:45			18:48			20:56		21:59	22:28	
27	08:37		12:34 (10)	07:25			06:08			05:44		04:40	04:23	
	16:34	41	15:42 (1)	17:47			18:50			20:59		22:01	22:28	
28	08:35		12:36 (10)	07:22			06:05			05:41		04:38	04:24	
	16:37	32	15:39 (1)	17:50			18:52			21:01		22:02	22:27	
29	08:33		12:37 (10)				07:02			05:39		04:37	04:24	
	16:39	26	13:03 (10)				19:55			21:03		22:04	22:27	
30	08:31		12:39 (10)				06:59			05:36		04:35	04:25	
	16:41	23	13:02 (10)				19:57			21:05		22:06	22:27	
31	08:29		09:03 (12)				06:57					04:34		
	16:44	25	13:00 (10)				19:59					22:07		
Potential sun hours	227			262			365			429		515	539	
Total, worst case		1771			402			475						
Sun reduction		0,13			0,22			0,37						
Oper. time red.		0,93			0,93			0,93						
Wind dir. red.		0,17			0,73			0,95						
Total reduction		0,02			0,15			0,32						
Total, real		37			60			154						

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BD - Norinas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:24		08:03 (13)	07:34		08:25 (12)	08:39		11:00 (11)
	22:26		21:41		20:23			18:59	31	08:34 (13)	16:38	26	08:51 (12)	15:43	68	12:50 (10)
2	04:27		05:17		06:23			07:27		08:03 (13)	07:36		08:24 (12)	08:41		10:59 (11)
	22:26		21:39		20:21			18:57	30	08:33 (13)	16:36	26	08:50 (12)	15:42	70	12:50 (10)
3	04:28		05:19		06:25			07:29		08:03 (13)	07:38		08:25 (12)	08:43		10:59 (11)
	22:25		21:37		20:18			18:54	29	08:32 (13)	16:33	25	08:50 (12)	15:41	70	12:50 (10)
4	04:29		05:21		06:27			07:31		08:04 (13)	07:41		08:25 (12)	08:44		10:59 (11)
	22:24		21:35		20:15			18:51	27	08:31 (13)	16:31	24	08:49 (12)	15:40	72	12:51 (10)
5	04:30		05:23		06:29			07:33		08:05 (13)	07:43		08:26 (12)	08:46		10:59 (11)
	22:24		21:33		20:12			18:48	25	08:30 (13)	16:29	23	08:49 (12)	15:39	72	12:51 (10)
6	04:31		05:25		06:31			07:35		08:05 (13)	07:45		08:26 (12)	08:48		10:58 (11)
	22:23		21:30		20:10			18:46	23	08:28 (13)	16:26	22	08:48 (12)	15:39	73	12:51 (10)
7	04:32		05:28		06:34			07:37		08:07 (13)	07:47		08:27 (12)	08:49		10:59 (11)
	22:22		21:28		20:07			18:43	19	08:26 (13)	16:24	21	08:48 (12)	15:38	72	12:51 (10)
8	04:33		05:30		06:36			07:40		08:10 (13)	07:50		08:29 (12)	08:51		10:59 (11)
	22:21		21:26		20:04			18:40	14	08:24 (13)	16:22	18	08:47 (12)	15:37	73	12:52 (10)
9	04:35		05:32		06:38			07:42		08:13 (13)	07:52		08:29 (12)	08:52		11:00 (11)
	22:20		21:23		20:01			18:37	6	08:19 (13)	16:20	16	08:45 (12)	15:37	73	12:53 (10)
10	04:36		05:34		06:40			07:44			07:54		08:32 (12)	08:54		11:00 (11)
	22:19		21:21		19:58			18:35			16:18	23	12:28 (10)	15:36	74	12:53 (10)
11	04:37		05:36		06:42			07:46			07:57		08:34 (12)	08:55		11:00 (11)
	22:18		21:18		19:56			18:32			16:16	25	12:31 (10)	15:36	74	12:53 (10)
12	04:39		05:38		06:44			07:48			07:59		12:11 (10)	08:56		11:00 (11)
	22:16		21:16		19:53			18:29			16:14	23	12:34 (10)	15:35	74	12:53 (10)
13	04:40		05:40		06:46			07:51			08:01		12:09 (10)	08:57		11:00 (11)
	22:15		21:13		19:50			18:26			16:12	26	12:35 (10)	15:35	74	12:53 (10)
14	04:42		05:42		06:48			07:53			08:03		12:08 (10)	08:59		11:01 (11)
	22:14		21:11		19:47			18:24			16:10	32	15:11 (1)	15:35	75	12:55 (10)
15	04:43		05:45		06:50			07:55			08:06		12:06 (10)	09:00		11:02 (11)
	22:12		21:08		19:44			18:21			16:08	40	15:13 (1)	15:35	74	12:55 (10)
16	04:45		05:47		06:53			07:57			08:08		12:06 (10)	09:01		11:02 (11)
	22:11		21:06		19:42			18:18			16:06	45	15:15 (1)	15:35	74	12:55 (10)
17	04:47		05:49		06:55			07:59			08:10		12:06 (10)	09:02		11:02 (11)
	22:09		21:03		19:39			18:16			16:04	48	15:17 (1)	15:35	75	12:56 (10)
18	04:48		05:51		06:57			08:02			08:12		12:05 (10)	09:02		11:03 (11)
	22:08		21:01		19:36			18:13			16:02	51	15:17 (1)	15:35	74	12:56 (10)
19	04:50		05:53		06:59			08:04			08:15		12:05 (10)	09:03		11:03 (11)
	22:06		20:58		19:33			18:10			16:00	53	15:18 (1)	15:35	74	12:56 (10)
20	04:52		05:55		07:01		08:17 (13)	08:06			08:17		12:04 (10)	09:04		11:03 (11)
	22:05		20:56		19:30	11	08:28 (13)	18:08			15:59	55	15:18 (1)	15:36	76	12:57 (10)
21	04:54		05:57		07:03		08:13 (13)	08:08			08:19		12:04 (10)	09:05		11:04 (11)
	22:03		20:53		19:27	18	08:31 (13)	18:05			15:57	55	15:17 (1)	15:36	74	12:57 (10)
22	04:55		06:00		07:05		08:11 (13)	08:11			08:21		12:04 (10)	09:05		11:04 (11)
	22:01		20:50		19:25	21	08:32 (13)	18:03			15:55	52	15:14 (1)	15:36	74	12:57 (10)
23	04:57		06:02		07:07		08:09 (13)	08:13		09:34 (12)	08:23		12:03 (10)	09:06		11:05 (11)
	21:59		20:48		19:22	24	08:33 (13)	18:00	7	09:41 (12)	15:54	51	15:12 (1)	15:37	76	12:59 (10)
24	04:59		06:04		07:10		08:08 (13)	08:15		09:30 (12)	08:25		12:04 (10)	09:06		11:06 (11)
	21:58		20:45		19:19	26	08:34 (13)	17:58	14	09:44 (12)	15:52	49	15:11 (1)	15:37	74	12:59 (10)
25	05:01		06:06		07:12		08:06 (13)	07:18		08:29 (12)	08:27		11:04 (11)	09:06		11:06 (11)
	21:56		20:42		19:16	28	08:34 (13)	16:55	17	08:46 (12)	15:51	57	15:09 (1)	15:38	74	12:59 (10)
26	05:03		06:08		07:14		08:05 (13)	07:20		08:27 (12)	08:29		11:03 (11)	09:07		11:06 (11)
	21:54		20:40		19:13	29	08:34 (13)	16:53	20	08:47 (12)	15:49	60	15:08 (1)	15:39	74	12:59 (10)
27	05:05		06:10		07:16		08:04 (13)	07:22		08:26 (12)	08:31		11:02 (11)	09:07		11:07 (11)
	21:52		20:37		19:11	30	08:34 (13)	16:50	22	08:48 (12)	15:48	60	12:48 (10)	15:40	74	13:00 (10)
28	05:07		06:12		07:18		08:04 (13)	07:24		08:25 (12)	08:33		11:00 (11)	09:07		11:07 (11)
	21:50		20:34		19:08	31	08:35 (13)	16:48	24	08:49 (12)	15:47	63	12:48 (10)	15:41	75	13:01 (10)
29	05:09		06:14		07:20		08:04 (13)	07:27		08:25 (12)	08:35		11:00 (11)	09:07		11:08 (11)
	21:48		20:32		19:05	31	08:35 (13)	16:45	25	08:50 (12)	15:45	64	12:48 (10)	15:42	74	13:01 (10)
30	05:11		06:17		07:22		08:03 (13)	07:29		08:24 (12)	08:37		10:59 (11)	09:07		11:08 (11)
	21:46		20:29		19:02	31	08:34 (13)	16:43	25	08:49 (12)	15:44	66	12:48 (10)	15:43	75	13:01 (10)
31	05:13		06:19					07:31		08:24 (12)				09:07		11:09 (11)
	21:44		20:26					16:40	26	08:50 (12)				15:44	74	13:02 (10)
Potential sun hours	539		475		386			321			241			207		
Total, worst case						280			384			1199			2279	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,95			0,85			0,29			0,14	
Total reduction						0,38			0,24			0,04			0,02	
Total, real						107			93			51			39	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BE - Olki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October	November	December
1	09:07		08:27	09:50 (10)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39 09:27 (10)
	15:45		16:46 20	10:10 (10)	17:52	20:01	21:08	22:09	22:26	21:42	20:23	18:59	16:38	15:43 18 09:45 (10)
2	09:06		08:25	09:51 (10)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41 09:28 (10)
	15:47		16:48 17	10:08 (10)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:42 16 09:44 (10)
3	09:06		08:23	09:53 (10)	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38	08:43 09:30 (10)
	15:48		16:51 14	10:07 (10)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41 14 09:44 (10)
4	09:06		08:21	09:57 (10)	07:12	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41	08:44 09:31 (10)
	15:49		16:53 7	10:04 (10)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40 12 09:43 (10)
5	09:05		08:19		07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46 09:33 (10)
	15:51		16:55		18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39 9 09:42 (10)
6	09:04	09:50 (10)	08:17		07:06	06:40	05:22	04:27	04:31	05:25	06:32	07:35	07:45	08:48 09:36 (10)
	15:52 4	09:54 (10)	16:58		18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27	15:39 4 09:40 (10)
7	09:04	09:48 (10)	08:14		07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48 09:26 (10)	08:49
	15:54 9	09:57 (10)	17:00		18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24 8 09:34 (10)	15:38
8	09:03	09:47 (10)	08:12		07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50 09:24 (10)	08:51
	15:56 12	09:59 (10)	17:03		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22 14 09:38 (10)	15:37
9	09:02	09:46 (10)	08:10		06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52 09:21 (10)	08:52
	15:57 13	09:59 (10)	17:05		18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20 18 09:39 (10)	15:37
10	09:01	09:45 (10)	08:07		06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54 09:21 (10)	08:54
	15:59 16	10:01 (10)	17:07		18:12	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18 20 09:41 (10)	15:36
11	09:00	09:45 (10)	08:05		06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57 09:19 (10)	08:55
	16:01 18	10:03 (10)	17:10		18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32	16:16 22 09:41 (10)	15:36
12	08:59	09:44 (10)	08:03		06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59 09:19 (10)	08:56
	16:03 19	10:03 (10)	17:12		18:17	20:25	21:31	22:22	22:17	21:16	19:53	18:29	16:14 24 09:43 (10)	15:35
13	08:58	09:44 (10)	08:00		06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01 09:18 (10)	08:58
	16:05 21	10:05 (10)	17:14		18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:26	16:12 25 09:43 (10)	15:35
14	08:57	09:44 (10)	07:58		06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04 09:18 (10)	08:59
	16:07 21	10:05 (10)	17:17		18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10 26 09:44 (10)	15:35
15	08:56	09:44 (10)	07:56		06:41	06:15	05:02	04:21	04:43	05:45	06:51	07:55	08:06 09:19 (10)	09:00
	16:08 23	10:07 (10)	17:19		18:24	20:32	21:38	22:25	22:13	21:08	19:44	18:21	16:08 26 09:45 (10)	15:35
16	08:55	09:43 (10)	07:53		06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08 09:18 (10)	09:01
	16:10 24	10:07 (10)	17:22		18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06 27 09:45 (10)	15:35
17	08:53	09:43 (10)	07:51		06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10 09:18 (10)	09:02
	16:13 25	10:08 (10)	17:24		18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16	16:04 28 09:46 (10)	15:35
18	08:52	09:44 (10)	07:48		06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:13 09:18 (10)	09:03
	16:15 25	10:09 (10)	17:26		18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02 27 09:45 (10)	15:35
19	08:50	09:44 (10)	07:46		06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15 09:19 (10)	09:03
	16:17 26	10:10 (10)	17:29		18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:00 27 09:46 (10)	15:35
20	08:49	09:43 (10)	07:43		06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17 09:19 (10)	09:04
	16:19 27	10:10 (10)	17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59 27 09:46 (10)	15:36
21	08:47	09:43 (10)	07:41		06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:09	08:19 09:19 (10)	09:05
	16:21 27	10:10 (10)	17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57 27 09:46 (10)	15:36
22	08:46	09:44 (10)	07:38		06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21 09:20 (10)	09:05
	16:23 27	10:11 (10)	17:36		18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55 26 09:46 (10)	15:36
23	08:44	09:44 (10)	07:35		06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23 09:21 (10)	09:06
	16:25 27	10:11 (10)	17:38		18:41	20:50	21:53	22:28	22:00	20:48	19:22	18:00	15:54 26 09:47 (10)	15:37
24	08:42	09:44 (10)	07:33		06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25 09:21 (10)	09:06
	16:28 27	10:11 (10)	17:40		18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52 25 09:46 (10)	15:38
25	08:41	09:44 (10)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27 09:21 (10)	09:07
	16:30 28	10:12 (10)	17:43		18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51 25 09:46 (10)	15:38
26	08:39	09:45 (10)	07:28		06:11	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29 09:23 (10)	09:07
	16:32 27	10:12 (10)	17:45		18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:49 23 09:46 (10)	15:39
27	08:37	09:46 (10)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31 09:23 (10)	09:07
	16:34 26	10:12 (10)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48 23 09:46 (10)	15:40
28	08:35	09:46 (10)	07:22		06:05	05:41	04:38	04:24	05:07	06:12	07:18	07:25	08:33 09:24 (10)	09:07
	16:37 26	10:12 (10)	17:50		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47 21 09:45 (10)	15:41
29	08:33	09:46 (10)			07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35 09:24 (10)	09:07
	16:39 25	10:11 (10)			19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46 21 09:45 (10)	15:42
30	08:31	09:47 (10)			06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37 09:26 (10)	09:07
	16:41 24	10:11 (10)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44 19 09:45 (10)	15:43
31	08:29	09:49 (10)			06:57		04:34		05:13	06:19		07:31		09:07
	16:44 21	10:10 (10)			19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227		262		365	429	516	539	539	475	386	321	241	207
Total, worst case	568		58										555	73
Sun reduction	0,13		0,22										0,15	0,13
Oper. time red.	0,93		0,93										0,93	0,93
Wind dir. red.	0,56		0,56										0,56	0,56
Total reduction	0,07		0,12										0,08	0,07
Total, real	39		7										45	5

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BF - Paegli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February		March		April	May	June	July	August	September	October		November		December
1	09:07	08:27		07:20		07:49 (4)	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34		08:14 (3)	08:39
	15:46	16:46		17:52	18	08:07 (4)	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	4	08:18 (3)	15:43
2	09:06	08:25		07:17		07:48 (4)	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36			08:41
	15:47	16:49		17:54	19	08:07 (4)	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36			15:42
3	09:06	08:23		07:14		07:47 (4)	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38			08:43
	15:48	16:51		17:57	20	08:07 (4)	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:34			15:41
4	09:06	08:21		07:12		07:47 (4)	06:46	05:27	04:30	04:29	05:22	06:28	07:31	08:29 (4)	07:41			08:45
	15:50	16:53		17:59	21	08:08 (4)	20:08	21:14	22:13	22:25	21:35	20:15	18:51	9 08:38 (4)	16:31			15:41
5	09:05	08:19		07:09		07:47 (4)	06:43	05:24	04:28	04:30	05:24	06:30	07:33	08:26 (4)	07:43			08:46
	15:51	16:56		18:01	20	08:07 (4)	20:10	21:16	22:15	22:24	21:33	20:13	18:49	14 08:40 (4)	16:29			15:40
6	09:04	08:17		07:06		07:47 (4)	06:40	05:22	04:28	04:31	05:26	06:32	07:36	08:24 (4)	07:45			08:48
	15:53	16:58		18:04	19	08:06 (4)	20:12	21:19	22:16	22:23	21:30	20:10	18:46	17 08:41 (4)	16:27			15:39
7	09:04	08:14		07:04		07:48 (4)	06:37	05:20	04:27	04:32	05:28	06:34	07:38	08:24 (4)	07:48			08:49
	15:54	17:00		18:06	17	08:05 (4)	20:15	21:21	22:17	22:22	21:28	20:07	18:43	18 08:42 (4)	16:25			15:38
8	09:03	08:12		07:01		07:48 (4)	06:35	05:17	04:26	04:34	05:30	06:36	07:40	08:23 (4)	07:50			08:51
	15:56	17:03		18:08	16	08:04 (4)	20:17	21:23	22:18	22:21	21:26	20:04	18:40	19 08:42 (4)	16:22			15:38
9	09:02	08:10		06:58		07:51 (4)	06:32	05:15	04:25	04:35	05:32	06:38	07:42	08:22 (4)	07:52			08:52
	15:58	17:05		18:10	11	08:02 (4)	20:19	21:25	22:20	22:20	21:23	20:01	18:38	20 08:42 (4)	16:20			15:37
10	09:01	08:08		06:55		07:54 (4)	06:29	05:13	04:24	04:36	05:34	06:40	07:44	08:21 (4)	07:55			08:54
	15:59	17:08	7 08:50 (3)	18:13	4	07:58 (4)	20:21	21:27	22:21	22:19	21:21	19:59	18:35	21 08:42 (4)	16:18			15:36
11	09:00	08:05	08:40 (3)	06:53			06:26	05:11	04:24	04:38	05:36	06:42	07:46	08:22 (4)	07:57			08:55
	16:01	17:10	13 08:53 (3)	18:15			20:23	21:29	22:22	22:18	21:19	19:56	18:32	20 08:42 (4)	16:16			15:36
12	08:59	08:03	08:38 (3)	06:50			06:24	05:08	04:23	04:39	05:38	06:44	07:49	08:22 (4)	07:59			08:56
	16:03	17:12	17 08:55 (3)	18:17			20:26	21:32	22:22	22:17	21:16	19:53	18:29	19 08:41 (4)	16:14			15:36
13	08:58	08:01	08:36 (3)	06:47			06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:22 (4)	08:01			08:58
	16:05	17:15	20 08:56 (3)	18:19			20:28	21:34	22:23	22:15	21:14	19:50	18:27	18 08:40 (4)	16:12			15:35
14	08:57	07:58	08:36 (3)	06:44			06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:24 (4)	08:04			08:59
	16:07	17:17	22 08:58 (3)	18:22			20:30	21:36	22:24	22:14	21:11	19:47	18:24	25 09:23 (3)	16:10			15:35
15	08:56	07:56	08:35 (3)	06:42			06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:26 (4)	08:06			09:00
	16:09	17:19	23 08:58 (3)	18:24			20:32	21:38	22:25	22:13	21:09	19:45	18:21	26 09:25 (3)	16:08			15:35
16	08:55	07:53	08:34 (3)	06:39			06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:28 (4)	08:08			09:01
	16:11	17:22	25 08:59 (3)	18:26			20:34	21:40	22:26	22:11	21:06	19:42	18:19	25 09:27 (3)	16:06			15:35
17	08:53	07:51	08:34 (3)	06:36			06:10	04:58	04:21	04:47	05:49	06:55	08:00	09:07 (3)	08:10			09:02
	16:13	17:24	26 09:00 (3)	18:28			20:37	21:42	22:26	22:10	21:04	19:39	18:16	21 09:28 (3)	16:04			15:35
18	08:52	07:48	08:33 (3)	06:33			06:07	04:56	04:21	04:49	05:51	06:57	08:02	09:05 (3)	08:13			09:03
	16:15	17:27	27 09:00 (3)	18:30			20:39	21:44	22:27	22:08	21:01	19:36	18:13	24 09:29 (3)	16:02			15:35
19	08:50	07:46	08:32 (3)	06:30			06:05	04:54	04:21	04:50	05:53	06:59	08:04	09:04 (3)	08:15			09:03
	16:17	17:29	27 08:59 (3)	18:33			20:41	21:46	22:27	22:06	20:58	19:33	18:11	25 09:29 (3)	16:01			15:36
20	08:49	07:43	08:33 (3)	06:28			06:02	04:52	04:21	04:52	05:56	07:01	08:06	09:04 (3)	08:17			09:04
	16:19	17:31	27 09:00 (3)	18:35			20:43	21:48	22:27	22:05	20:56	19:31	18:08	26 09:30 (3)	15:59			15:36
21	08:47	07:41	08:33 (3)	06:25			05:59	04:50	04:21	04:54	05:58	07:03	08:09	09:03 (3)	08:19			09:05
	16:21	17:34	26 08:59 (3)	18:37			20:46	21:50	22:28	22:03	20:53	19:28	18:06	27 09:30 (3)	15:57			15:36
22	08:46	07:38	08:33 (3)	06:22			05:57	04:48	04:21	04:56	06:00	07:06	08:11	09:03 (3)	08:21			09:05
	16:23	17:36	26 08:59 (3)	18:39			20:48	21:52	22:28	22:01	20:51	19:25	18:03	27 09:30 (3)	15:56			15:37
23	08:44	07:36	08:34 (3)	06:19			05:54	04:47	04:22	04:58	06:02	07:08	08:13	09:03 (3)	08:23			09:06
	16:26	17:38	25 08:59 (3)	18:42			20:50	21:54	22:28	22:00	20:48	19:22	18:00	27 09:30 (3)	15:54			15:37
24	08:42	07:33	08:34 (3)	06:16			05:52	04:45	04:22	05:00	06:04	07:10	08:15	09:03 (3)	08:25			09:06
	16:28	17:41	23 08:57 (3)	18:44			20:52	21:55	22:28	21:58	20:45	19:19	17:58	27 09:30 (3)	15:53			15:38
25	08:41	07:30	08:35 (3)	06:14			05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:03 (3)	08:28			09:07
	16:30	17:43	21 08:56 (3)	18:46			20:54	21:57	22:28	21:56	20:43	19:16	16:55	26 08:29 (3)	15:51			15:38
26	08:39	07:28	07:55 (4)	06:11			05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:04 (3)	08:30			09:07
	16:32	17:45	26 08:54 (3)	18:48			20:57	21:59	22:28	21:54	20:40	19:14	16:53	25 08:29 (3)	15:50			15:39
27	08:37	07:25	07:53 (4)	06:08			05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:04 (3)	08:32			09:07
	16:35	17:48	26 08:52 (3)	18:50			20:59	22:01	22:28	21:52	20:37	19:11	16:50	24 08:28 (3)	15:48			15:40
28	08:35	07:22	07:50 (4)	06:05			05:41	04:39	04:24	05:07	06:13	07:18	07:25	08:05 (3)	08:34			09:07
	16:37	17:50	23 08:48 (3)	18:53			21:01	22:03	22:28	21:50	20:35	19:08	16:48	22 08:27 (3)	15:47			15:41
29	08:33			07:02			05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:06 (3)	08:35			09:07
	16:39			19:55			21:03	22:04	22:27	21:48	20:32	19:05	16:45	19 08:25 (3)	15:46			15:42
30	08:31			07:00			05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:08 (3)	08:37			09:07
	16:42			19:57			21:05	22:06	22:27	21:46	20:29	19:02	16:43	16 08:24 (3)	15:45			15:43
31	08:29			06:57				04:34		05:13	06:19		07:32	08:10 (3)				09:07
	16:44			19:59				22:07		21:44	20:26		16:41	12 08:22 (3)				15:44
Potential sun hours	227	262		365		429	515	539	538	474	386	321		241		207		
Total, worst case			430		165								599		4			
Sun reduction			0,22		0,37								0,31		0,15			
Oper. time red.			0,93		0,93								0,93		0,93			
Wind dir. red.			0,82		0,92								0,85		0,81			
Total reduction			0,17		0,31								0,24		0,12			
Total, real			73		52								145		0			

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BG - Pavasari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April		May		June
1	09:07		09:51 (2)		08:27		07:20		08:08 (5)	06:54	07:20 (1)	05:34	04:33
	15:46	13	10:04 (2)		16:46		17:52	20	08:28 (5)	20:01	14	07:34 (1)	21:08	22:09
2	09:06		09:51 (2)		08:25		07:17		08:09 (5)	06:51		07:17 (1)	05:31	04:32
	15:47	15	10:06 (2)		16:49		17:54	17	08:26 (5)	20:04	16	07:33 (1)	21:10	22:10
3	09:06		09:51 (2)		08:23		07:14		08:10 (5)	06:48		07:16 (1)	05:29	04:31
	15:48	16	10:07 (2)		16:51		17:57	14	08:24 (5)	20:06	16	07:32 (1)	21:12	22:12
4	09:06		09:50 (2)		08:21		07:12		07:54 (3)	06:46		07:17 (1)	05:27	04:30
	15:50	17	10:07 (2)		16:53		17:59	22	08:23 (5)	20:08	15	07:32 (1)	21:14	22:13
5	09:05		09:51 (2)		08:19		07:09		07:50 (3)	06:43		07:18 (1)	05:24	04:29
	15:51	18	10:09 (2)		16:56		18:01	18	08:08 (3)	20:10	13	07:31 (1)	21:16	22:15
6	09:04		09:51 (2)		08:17		07:06		07:47 (3)	06:40		07:18 (1)	05:22	04:28
	15:53	19	10:10 (2)		16:58		18:04	23	08:10 (3)	20:12	11	07:29 (1)	21:19	22:16
7	09:04		09:51 (2)		08:14		07:04		07:45 (3)	06:37		07:22 (1)	05:20	04:27
	15:54	20	10:11 (2)		17:00		18:06	26	08:11 (3)	20:15	4	07:26 (1)	21:21	22:17
8	09:03		09:50 (2)		08:12		07:01		07:43 (3)	06:35			05:17	04:26
	15:56	21	10:11 (2)		17:03		18:08	29	08:12 (3)	20:17			21:23	22:18
9	09:02		09:50 (2)		08:10		06:58		07:43 (3)	06:32			05:15	04:25
	15:58	22	10:12 (2)		17:05		18:10	31	08:14 (3)	20:19			21:25	22:19
10	09:01		09:51 (2)		08:08		06:55		07:42 (3)	06:29			05:13	04:24
	15:59	22	10:13 (2)		17:08		18:13	32	08:14 (3)	20:21			21:27	22:21
11	09:00		09:51 (2)		08:05		06:53		07:41 (3)	06:26			05:11	04:24
	16:01	23	10:14 (2)		17:10		18:15	34	08:15 (3)	20:23			21:29	22:22
12	08:59		09:51 (2)		08:03		06:50		07:40 (3)	06:24			05:08	04:23
	16:03	23	10:14 (2)		17:12		18:17	35	08:15 (3)	20:26			21:31	22:22
13	08:58		09:51 (2)		08:00		06:47		07:39 (3)	06:21			05:06	04:23
	16:05	24	10:15 (2)		17:15		18:19	35	08:14 (3)	20:28			21:34	22:23
14	08:57		09:51 (2)		07:58		06:44		07:39 (3)	06:18			05:04	04:22
	16:07	24	10:15 (2)		17:17		18:22	36	08:15 (3)	20:30			21:36	22:24
15	08:56		09:52 (2)		07:56		06:42		07:12 (4)	06:15			05:02	04:22
	16:09	24	10:16 (2)		17:19		18:24	39	08:15 (3)	20:32			21:38	22:25
16	08:55		09:51 (2)		07:53		06:39		07:07 (4)	06:13			05:00	04:21
	16:11	25	10:16 (2)		17:22		18:26	48	08:14 (3)	20:34			21:40	22:25
17	08:53		09:51 (2)		07:51		06:36		07:04 (4)	06:10			04:58	04:21
	16:13	25	10:16 (2)		17:24		18:28	52	08:13 (3)	20:37			21:42	22:26
18	08:52		09:53 (2)		07:48		08:18 (5)		06:33	07:02 (4)	06:07		04:56	04:21
	16:15	24	10:17 (2)		17:27	3	08:21 (5)		18:30	55	08:13 (3)	20:39		21:44	22:27
19	08:50		09:53 (2)		07:46		08:14 (5)		06:30	07:01 (4)	06:05		04:54	04:21
	16:17	24	10:17 (2)		17:29	11	08:25 (5)		18:33	55	08:12 (3)	20:41		21:46	22:27
20	08:49		09:53 (2)		07:43		08:12 (5)		06:28	07:01 (4)	06:02		04:52	04:21
	16:19	24	10:17 (2)		17:31	15	08:27 (5)		18:35	55	08:11 (3)	20:43		21:48	22:27
21	08:47		09:53 (2)		07:41		08:10 (5)		06:25	07:00 (4)	05:59		04:50	04:21
	16:21	24	10:17 (2)		17:34	18	08:28 (5)		18:37	54	08:10 (3)	20:45		21:50	22:28
22	08:46		09:54 (2)		07:38		08:09 (5)		06:22	06:59 (4)	05:57		04:48	04:21
	16:23	23	10:17 (2)		17:36	20	08:29 (5)		18:39	52	08:08 (3)	20:48		21:52	22:28
23	08:44		09:55 (2)		07:36		08:09 (5)		06:19	06:59 (4)	05:54		04:47	04:22
	16:26	22	10:17 (2)		17:38	21	08:30 (5)		18:42	49	08:06 (3)	20:50		21:54	22:28
24	08:42		09:55 (2)		07:33		08:08 (5)		06:16	06:58 (4)	05:52		04:45	04:22
	16:28	22	10:17 (2)		17:41	22	08:30 (5)		18:44	45	08:04 (3)	20:52		21:55	22:28
25	08:41		09:56 (2)		07:30		08:08 (5)		06:14	06:59 (4)	05:49		04:43	04:22
	16:30	21	10:17 (2)		17:43	22	08:30 (5)		18:46	38	08:01 (3)	20:54		21:57	22:28
26	08:39		09:57 (2)		07:28		08:07 (5)		06:11	06:59 (4)	05:46		04:42	04:23
	16:32	19	10:16 (2)		17:45	23	08:30 (5)		18:48	28	07:56 (3)	20:57		21:59	22:28
27	08:37		09:59 (2)		07:25		08:08 (5)		06:08	07:00 (4)	05:44		04:40	04:23
	16:35	17	10:16 (2)		17:48	22	08:30 (5)		18:50	20	07:20 (4)	20:59		22:01	22:28
28	08:35		10:01 (2)		07:22		08:08 (5)		06:05	07:00 (4)	05:41		04:39	04:24
	16:37	13	10:14 (2)		17:50	21	08:29 (5)		18:53	18	07:18 (4)	21:01		22:02	22:27
29	08:33		10:03 (2)						07:02	07:28 (1)	05:39		04:37	04:25
	16:39	10	10:13 (2)						19:55	17	08:15 (4)	21:03		22:04	22:27
30	08:31								07:00	07:26 (1)	05:36		04:36	04:25
	16:42								19:57	15	08:13 (4)	21:05		22:06	22:27
31	08:29								06:57	07:23 (1)			04:34	
	16:44								19:59	11	07:34 (1)			22:07	
Potential sun hours	227			262			365			429			515	539	
Total, worst case		594			198			1023			89				
Sun reduction		0,13			0,22			0,37			0,46				
Oper. time red.		0,93			0,93			0,93			0,93				
Wind dir. red.		0,53			0,88			0,94			1,00				
Total reduction		0,06			0,18			0,32			0,43				
Total, real		38			36			329			38				

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BG - Pavasari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:25		08:19 (3)	07:34			08:39		09:33 (2)
	22:26		21:42		20:24			19:00	35	08:54 (3)	16:38			15:44	23	09:56 (2)
2	04:27		05:17		06:23			07:27		08:18 (3)	07:36			08:41		09:34 (2)
	22:26		21:39		20:21			18:57	35	08:53 (3)	16:36			15:42	22	09:56 (2)
3	04:28		05:19		06:25			07:29		08:19 (3)	07:38			08:43		09:35 (2)
	22:25		21:37		20:18			18:54	34	08:53 (3)	16:34			15:41	21	09:56 (2)
4	04:29		05:22		06:27			07:31		08:20 (3)	07:41			08:45		09:35 (2)
	22:24		21:35		20:15			18:51	32	08:52 (3)	16:31			15:41	21	09:56 (2)
5	04:30		05:24		06:30		07:18 (1)	07:33		08:20 (3)	07:43			08:46		09:36 (2)
	22:24		21:33		20:13	4	07:22 (1)	18:49	30	08:50 (3)	16:29			15:40	20	09:56 (2)
6	04:31		05:26		06:32		07:15 (1)	07:35		08:21 (3)	07:45			08:48		09:36 (2)
	22:23		21:30		20:10	10	07:25 (1)	18:46	27	08:48 (3)	16:27			15:39	19	09:55 (2)
7	04:32		05:28		06:34		07:13 (1)	07:38		08:23 (3)	07:48			08:49		09:37 (2)
	22:22		21:28		20:07	13	07:26 (1)	18:43	24	08:47 (3)	16:25			15:38	18	09:55 (2)
8	04:34		05:30		06:36		07:11 (1)	07:40		08:24 (3)	07:50			08:51		09:38 (2)
	22:21		21:26		20:04	15	07:26 (1)	18:40	21	08:45 (3)	16:22			15:38	17	09:55 (2)
9	04:35		05:32		06:38		07:11 (1)	07:42		08:26 (3)	07:52			08:52		09:40 (2)
	22:20		21:23		20:01	16	07:27 (1)	18:38	20	08:54 (5)	16:20			15:37	16	09:56 (2)
10	04:36		05:34		06:40		07:10 (1)	07:44		08:30 (3)	07:55			08:54		09:40 (2)
	22:19		21:21		19:59	16	07:26 (1)	18:35	19	08:58 (5)	16:18			15:37	15	09:55 (2)
11	04:38		05:36		06:42		07:12 (1)	07:46		08:44 (5)	07:57			08:55		09:42 (2)
	22:18		21:18		19:56	14	07:26 (1)	18:32	16	09:00 (5)	16:16			15:36	13	09:55 (2)
12	04:39		05:38		06:44		07:14 (1)	07:49		08:43 (5)	07:59			08:56		09:42 (2)
	22:17		21:16		19:53	11	07:25 (1)	18:29	18	09:01 (5)	16:14			15:36	13	09:55 (2)
13	04:41		05:41		06:47		07:16 (1)	07:51		08:41 (5)	08:01		09:35 (2)	08:58		09:43 (2)
	22:15		21:14		19:50	14	08:02 (4)	18:27	20	09:01 (5)	16:12	10	09:45 (2)	15:35	12	09:55 (2)
14	04:42		05:43		06:49		07:18 (1)	07:53		08:41 (5)	08:04		09:32 (2)	08:59		09:45 (2)
	22:14		21:11		19:47	17	08:05 (4)	18:24	21	09:02 (5)	16:10	14	09:46 (2)	15:35	10	09:55 (2)
15	04:44		05:45		06:51		07:50 (4)	07:55		08:40 (5)	08:06		09:32 (2)	09:00		09:46 (2)
	22:13		21:09		19:45	17	08:07 (4)	18:21	22	09:02 (5)	16:08	16	09:48 (2)	15:35	9	09:55 (2)
16	04:45		05:47		06:53		07:48 (4)	07:57		08:39 (5)	08:08		09:30 (2)	09:01		09:46 (2)
	22:11		21:06		19:42	20	08:08 (4)	18:19	23	09:02 (5)	16:06	19	09:49 (2)	15:35	9	09:55 (2)
17	04:47		05:49		06:55		07:48 (4)	08:00		08:40 (5)	08:10		09:30 (2)	09:02		09:48 (2)
	22:10		21:04		19:39	21	08:09 (4)	18:16	22	09:02 (5)	16:04	21	09:51 (2)	15:35	7	09:55 (2)
18	04:49		05:51		06:57		07:47 (4)	08:02		08:39 (5)	08:13		09:29 (2)	09:03		09:49 (2)
	22:08		21:01		19:36	37	08:48 (3)	18:13	22	09:01 (5)	16:02	22	09:51 (2)	15:35	6	09:55 (2)
19	04:50		05:53		06:59		07:46 (4)	08:04		08:39 (5)	08:15		09:30 (2)	09:03		09:49 (2)
	22:06		20:58		19:33	44	08:51 (3)	18:11	21	09:00 (5)	16:01	22	09:52 (2)	15:36	5	09:54 (2)
20	04:52		05:56		07:01		07:45 (4)	08:06		08:41 (5)	08:17		09:29 (2)	09:04		09:50 (2)
	22:05		20:56		19:31	48	08:52 (3)	18:08	19	09:00 (5)	15:59	23	09:52 (2)	15:36	4	09:54 (2)
21	04:54		05:58		07:03		07:45 (4)	08:09		08:41 (5)	08:19		09:29 (2)	09:05		09:51 (2)
	22:03		20:53		19:28	51	08:53 (3)	18:06	17	08:58 (5)	15:57	24	09:53 (2)	15:36	4	09:55 (2)
22	04:56		06:00		07:06		07:44 (4)	08:11		08:43 (5)	08:21		09:29 (2)	09:05		09:51 (2)
	22:01		20:51		19:25	53	08:54 (3)	18:03	14	08:57 (5)	15:56	24	09:53 (2)	15:37	4	09:55 (2)
23	04:58		06:02		07:08		07:44 (4)	08:13		08:45 (5)	08:23		09:30 (2)	09:06		09:52 (2)
	22:00		20:48		19:22	55	08:55 (3)	18:00	9	08:54 (5)	15:54	24	09:54 (2)	15:37	4	09:56 (2)
24	05:00		06:04		07:10		07:44 (4)	08:15			08:25		09:30 (2)	09:06		09:52 (2)
	21:58		20:45		19:19	55	08:55 (3)	17:58			15:53	24	09:54 (2)	15:38	5	09:57 (2)
25	05:01		06:06		07:12		07:45 (4)	07:18			08:28		09:30 (2)	09:07		09:52 (2)
	21:56		20:43		19:16	54	08:55 (3)	16:55			15:51	24	09:54 (2)	15:38	6	09:58 (2)
26	05:03		06:08		07:14		07:46 (4)	07:20			08:30		09:31 (2)	09:07		09:52 (2)
	21:54		20:40		19:14	52	08:55 (3)	16:53			15:50	24	09:55 (2)	15:39	6	09:58 (2)
27	05:05		06:10		07:16		07:48 (4)	07:22			08:32		09:31 (2)	09:07		09:51 (2)
	21:52		20:37		19:11	50	08:56 (3)	16:50			15:48	24	09:55 (2)	15:40	8	09:59 (2)
28	05:07		06:13		07:18		07:51 (4)	07:25			08:34		09:31 (2)	09:07		09:51 (2)
	21:50		20:35		19:08	43	08:56 (3)	16:48			15:47	24	09:55 (2)	15:41	9	10:00 (2)
29	05:09		06:15		07:20		08:19 (3)	07:27			08:35		09:31 (2)	09:07		09:52 (2)
	21:48		20:32		19:05	36	08:55 (3)	16:45			15:46	24	09:55 (2)	15:42	10	10:02 (2)
30	05:11		06:17		07:23		08:19 (3)	07:29			08:37		09:33 (2)	09:07		09:52 (2)
	21:46		20:29		19:02	36	08:55 (3)	16:43			15:45	23	09:56 (2)	15:43	11	10:03 (2)
31	05:13		06:19					07:32						09:07		09:51 (2)
	21:44		20:26					16:41						15:44	12	10:03 (2)
Potential sun hours	538		474		386			321			241			207		
Total, worst case						802			521			386			359	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,96			0,90			0,53			0,53	
Total reduction						0,38			0,26			0,08			0,06	
Total, real						308			134			29			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BH - Pavuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June
1	09:07		09:59 (7)	08:27			07:20		08:04 (10)	06:54		05:34	04:33
	15:46	83	13:39 (3)	16:46			17:52	25	08:29 (10)	20:01		21:08	22:09
2	09:06		09:59 (7)	08:25			07:17		08:04 (10)	06:51		05:31	04:32
	15:47	81	13:39 (3)	16:48			17:54	24	08:28 (10)	20:03		21:10	22:10
3	09:06		09:59 (7)	08:23			07:14		08:04 (10)	06:48		05:29	04:30
	15:48	78	13:39 (3)	16:51			17:57	23	08:27 (10)	20:06		21:12	22:12
4	09:06		09:59 (7)	08:21			07:12		08:05 (10)	06:46		05:26	04:29
	15:50	76	13:38 (3)	16:53			17:59	22	08:27 (10)	20:08		21:14	22:13
5	09:05		10:00 (7)	08:19			07:09		08:06 (10)	06:43		05:24	04:28
	15:51	71	13:39 (3)	16:55			18:01	20	08:26 (10)	20:10		21:16	22:15
6	09:04		10:00 (7)	08:17			07:06		08:07 (10)	06:40		05:22	04:27
	15:53	67	13:39 (3)	16:58			18:03	17	08:24 (10)	20:12		21:19	22:16
7	09:04		10:01 (7)	08:14			07:03		08:09 (10)	06:37		05:19	04:26
	15:54	57	13:39 (3)	17:00			18:06	12	08:21 (10)	20:14		21:21	22:17
8	09:03		10:01 (7)	08:12			07:01		08:13 (10)	06:34		05:17	04:26
	15:56	54	13:38 (3)	17:03			18:08	3	08:16 (10)	20:17		21:23	22:18
9	09:02		10:01 (7)	08:10			06:58			06:32		05:15	04:25
	15:57	48	13:36 (3)	17:05			18:10			20:19		21:25	22:19
10	09:01		10:01 (7)	08:08			06:55			06:29		05:13	04:24
	15:59	43	13:35 (3)	17:07			18:12			20:21		21:27	22:21
11	09:00		10:02 (7)	08:05			06:52			06:26		05:10	04:23
	16:01	34	12:02 (4)	17:10			18:15			20:23		21:29	22:22
12	08:59		10:02 (7)	08:03			06:50			06:23		05:08	04:23
	16:03	28	11:59 (4)	17:12			18:17			20:26		21:31	22:22
13	08:58		10:03 (7)	08:00			06:47			06:21		05:06	04:22
	16:05	22	10:25 (7)	17:15			18:19			20:28		21:34	22:23
14	08:57		10:03 (7)	07:58			06:44			06:18		05:04	04:22
	16:07	22	10:25 (7)	17:17			18:21			20:30		21:36	22:24
15	08:56		10:04 (7)	07:56			06:41			06:15		05:02	04:22
	16:09	21	10:25 (7)	17:19			18:24			20:32		21:38	22:25
16	08:55		10:05 (7)	07:53			06:39			06:13		05:00	04:21
	16:11	20	10:25 (7)	17:22			18:26			20:34		21:40	22:25
17	08:53		10:05 (7)	07:51			06:36			06:10		04:58	04:21
	16:13	19	10:24 (7)	17:24			18:28			20:37		21:42	22:26
18	08:52		10:07 (7)	07:48			06:33			06:07		04:56	04:21
	16:15	18	10:25 (7)	17:26			18:30			20:39		21:44	22:27
19	08:50		10:08 (7)	07:46			06:30			06:05		04:54	04:21
	16:17	16	10:24 (7)	17:29			18:33			20:41		21:46	22:27
20	08:49		10:09 (7)	07:43		08:15 (10)	06:27			06:02		04:52	04:21
	16:19	15	10:24 (7)	17:31	6	08:21 (10)	18:35			20:43		21:48	22:27
21	08:47		10:10 (7)	07:41		08:11 (10)	06:25			05:59		04:50	04:21
	16:21	12	10:22 (7)	17:33	13	08:24 (10)	18:37			20:45		21:50	22:28
22	08:46		10:12 (7)	07:38		08:09 (10)	06:22			05:57		04:48	04:21
	16:23	9	10:21 (7)	17:36	17	08:26 (10)	18:39			20:48		21:52	22:28
23	08:44			07:35		08:07 (10)	06:19			05:54		04:47	04:21
	16:25			17:38	20	08:27 (10)	18:41			20:50		21:53	22:28
24	08:42			07:33		08:06 (10)	06:16			05:51		04:45	04:22
	16:28			17:40	22	08:28 (10)	18:44			20:52		21:55	22:28
25	08:41			07:30		08:05 (10)	06:13			05:49		04:43	04:22
	16:30			17:43	24	08:29 (10)	18:46			20:54		21:57	22:28
26	08:39			07:28		08:04 (10)	06:11			05:46		04:42	04:23
	16:32			17:45	25	08:29 (10)	18:48			20:57		21:59	22:28
27	08:37			07:25		08:04 (10)	06:08			05:44		04:40	04:23
	16:34			17:47	25	08:29 (10)	18:50			20:59		22:01	22:28
28	08:35			07:22		08:04 (10)	06:05			05:41		04:38	04:24
	16:37			17:50	25	08:29 (10)	18:52			21:01		22:02	22:27
29	08:33						07:02			05:39		04:37	04:24
	16:39						19:55			21:03		22:04	22:27
30	08:31						06:59			05:36		04:36	04:25
	16:41						19:57			21:05		22:06	22:27
31	08:29						06:57					04:34	
	16:44						19:59					22:07	
Potential sun hours	227			262			365			429		515	539
Total, worst case		894			177			146					
Sun reduction		0,13			0,22			0,37					
Oper. time red.		0,93			0,93			0,93					
Wind dir. red.		0,33			0,88			0,88					
Total reduction		0,04			0,18			0,30					
Total, real		36			32			44					

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BH - Pavuli

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October			November			December		
1	04:26	05:15	06:21	07:25			07:34			08:39		09:44 (7)
	22:26	21:42	20:24	19:00			16:38			15:43	34	11:44 (4)
2	04:27	05:17	06:23	07:27			07:36			08:41		09:45 (7)
	22:26	21:39	20:21	18:57			16:36			15:42	41	13:18 (3)
3	04:28	05:19	06:25	07:29			07:38			08:43		09:45 (7)
	22:25	21:37	20:18	18:54			16:33			15:41	47	13:20 (3)
4	04:29	05:21	06:27	07:31			07:41			08:44		09:45 (7)
	22:24	21:35	20:15	18:51			16:31			15:40	53	13:22 (3)
5	04:30	05:23	06:29	07:33			07:43			08:46		09:46 (7)
	22:24	21:33	20:12	18:48			16:29			15:40	57	13:24 (3)
6	04:31	05:26	06:32	07:35		08:46 (10)	07:45			08:48		09:46 (7)
	22:23	21:30	20:10	18:46	10	08:56 (10)	16:27			15:39	67	13:25 (3)
7	04:32	05:28	06:34	07:38		08:43 (10)	07:48			08:49		09:46 (7)
	22:22	21:28	20:07	18:43	15	08:58 (10)	16:24			15:38	71	13:25 (3)
8	04:33	05:30	06:36	07:40		08:42 (10)	07:50			08:51		09:47 (7)
	22:21	21:26	20:04	18:40	18	09:00 (10)	16:22			15:37	74	13:26 (3)
9	04:35	05:32	06:38	07:42		08:40 (10)	07:52			08:52		09:48 (7)
	22:20	21:23	20:01	18:37	21	09:01 (10)	16:20			15:37	78	13:28 (3)
10	04:36	05:34	06:40	07:44		08:39 (10)	07:54			08:54		09:48 (7)
	22:19	21:21	19:59	18:35	22	09:01 (10)	16:18			15:36	80	13:28 (3)
11	04:37	05:36	06:42	07:46		08:39 (10)	07:57			08:55		09:49 (7)
	22:18	21:18	19:56	18:32	23	09:02 (10)	16:16			15:36	83	13:29 (3)
12	04:39	05:38	06:44	07:49		08:38 (10)	07:59			08:56		09:49 (7)
	22:17	21:16	19:53	18:29	24	09:02 (10)	16:14			15:36	85	13:30 (3)
13	04:40	05:40	06:46	07:51		08:37 (10)	08:01			08:58		09:49 (7)
	22:15	21:14	19:50	18:27	25	09:02 (10)	16:12			15:35	86	13:30 (3)
14	04:42	05:43	06:48	07:53		08:37 (10)	08:04			08:59		09:51 (7)
	22:14	21:11	19:47	18:24	25	09:02 (10)	16:10			15:35	87	13:31 (3)
15	04:43	05:45	06:51	07:55		08:37 (10)	08:06			09:00		09:51 (7)
	22:13	21:09	19:44	18:21	25	09:02 (10)	16:08			15:35	89	13:32 (3)
16	04:45	05:47	06:53	07:57		08:37 (10)	08:08			09:01		09:52 (7)
	22:11	21:06	19:42	18:19	24	09:01 (10)	16:06			15:35	89	13:32 (3)
17	04:47	05:49	06:55	08:00		08:38 (10)	08:10			09:02		09:52 (7)
	22:10	21:03	19:39	18:16	22	09:00 (10)	16:04			15:35	89	13:33 (3)
18	04:48	05:51	06:57	08:02		08:38 (10)	08:13			09:03		09:53 (7)
	22:08	21:01	19:36	18:13	21	08:59 (10)	16:02			15:35	91	13:34 (3)
19	04:50	05:53	06:59	08:04		08:38 (10)	08:15			09:03		09:53 (7)
	22:06	20:58	19:33	18:11	19	08:57 (10)	16:00			15:35	89	13:33 (3)
20	04:52	05:55	07:01	08:06		08:40 (10)	08:17		09:47 (7)	09:04		09:53 (7)
	22:05	20:56	19:30	18:08	16	08:56 (10)	15:59	9	09:56 (7)	15:36	91	13:34 (3)
21	04:54	05:57	07:03	08:09		08:42 (10)	08:19		09:46 (7)	09:05		09:54 (7)
	22:03	20:53	19:28	18:05	12	08:54 (10)	15:57	12	09:58 (7)	15:36	93	13:35 (3)
22	04:56	06:00	07:05	08:11		08:47 (10)	08:21		09:45 (7)	09:05		09:54 (7)
	22:01	20:50	19:25	18:03	2	08:49 (10)	15:55	15	10:00 (7)	15:36	93	13:35 (3)
23	04:57	06:02	07:08	08:13			08:23		09:45 (7)	09:06		09:55 (7)
	22:00	20:48	19:22	18:00			15:54	16	10:01 (7)	15:37	91	13:36 (3)
24	04:59	06:04	07:10	08:15			08:25		09:44 (7)	09:06		09:56 (7)
	21:58	20:45	19:19	17:58			15:52	18	10:02 (7)	15:38	89	13:36 (3)
25	05:01	06:06	07:12	07:18			08:27		09:43 (7)	09:07		09:56 (7)
	21:56	20:42	19:16	16:55			15:51	20	10:03 (7)	15:38	90	13:37 (3)
26	05:03	06:08	07:14	07:20			08:30		09:44 (7)	09:07		09:56 (7)
	21:54	20:40	19:14	16:53			15:50	20	10:04 (7)	15:39	90	13:37 (3)
27	05:05	06:10	07:16	07:22			08:32		09:44 (7)	09:07		09:56 (7)
	21:52	20:37	19:11	16:50			15:48	20	10:04 (7)	15:40	90	13:37 (3)
28	05:07	06:12	07:18	07:25			08:33		09:43 (7)	09:07		09:57 (7)
	21:50	20:34	19:08	16:48			15:47	22	10:05 (7)	15:41	88	13:38 (3)
29	05:09	06:15	07:20	07:27			08:35		09:43 (7)	09:07		09:57 (7)
	21:48	20:32	19:05	16:45			15:46	22	10:05 (7)	15:42	88	13:38 (3)
30	05:11	06:17	07:22	07:29			08:37		09:44 (7)	09:07		09:58 (7)
	21:46	20:29	19:02	16:43			15:44	27	11:41 (4)	15:43	87	13:39 (3)
31	05:13	06:19		07:31						09:07		09:58 (7)
	21:44	20:26		16:40						15:44	85	13:38 (3)
Potential sun hours	538	475	386	321			241			207		
Total, worst case					324			201			2465	
Sun reduction					0,31			0,15			0,13	
Oper. time red.					0,93			0,93			0,93	
Wind dir. red.					0,88			0,48			0,27	
Total reduction					0,25			0,07			0,03	
Total, real					81			14			78	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BI - Plesini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	17:48 (8)	05:34	04:33	04:26	05:15	06:21	18:01 (8)	07:24	17:40 (8)	07:33	08:39
	15:45	16:46	17:52	20:01 50	18:38 (8)	21:07	22:08	22:26	21:41	20:23 18	18:19 (8)	18:59 35	18:15 (8)	16:38	15:43
2	09:06	08:25	07:17	06:51	17:48 (8)	05:31	04:32	04:27	05:17	06:23	17:57 (8)	07:26	17:41 (8)	07:36	08:41
	15:47	16:48	17:54	20:03 49	18:37 (8)	21:09	22:10	22:25	21:39	20:20 25	18:22 (8)	18:57 31	18:12 (8)	16:36	15:42
3	09:06	08:23	07:14	06:48	17:48 (8)	05:29	04:30	04:28	05:19	06:25	17:54 (8)	07:29	17:43 (8)	07:38	08:42
	15:48	16:51	17:56	20:05 47	18:35 (8)	21:12	22:11	22:25	21:37	20:18 30	18:24 (8)	18:54 26	18:09 (8)	16:33	15:41
4	09:05	08:21	07:11	06:45	17:49 (8)	05:26	04:29	04:29	05:21	06:27	17:52 (8)	07:31	17:46 (8)	07:40	08:44
	15:49	16:53	17:59	20:08 45	18:34 (8)	21:14	22:13	22:24	21:35	20:15 33	18:25 (8)	18:51 20	18:06 (8)	16:31	15:40
5	09:05	08:18	07:09	06:43	17:50 (8)	05:24	04:28	04:30	05:23	06:29	17:49 (8)	07:33	17:52 (8)	07:43	08:46
	15:51	16:55	18:01	20:10 43	18:33 (8)	21:16	22:14	22:23	21:32	20:12 38	18:27 (8)	18:48 8	18:00 (8)	16:29	15:39
6	09:04	08:16	07:06	06:40	17:51 (8)	05:22	04:27	04:31	05:25	06:31	17:47 (8)	07:35		07:45	08:47
	15:52	16:58	18:03	20:12 41	18:32 (8)	21:18	22:15	22:22	21:30	20:09 41	18:28 (8)	18:45		16:26	15:39
7	09:03	08:14	07:03	06:37	17:52 (8)	05:19	04:26	04:32	05:28	06:34	17:46 (8)	07:37		07:47	08:49
	15:54	17:00	18:05	20:14 38	18:30 (8)	21:20	22:17	22:22	21:28	20:07 42	18:28 (8)	18:43		16:24	15:38
8	09:03	08:12	07:00	06:34	17:54 (8)	05:17	04:26	04:33	05:30	06:36	17:44 (8)	07:39		07:50	08:50
	15:56	17:02	18:08	20:16 33	18:27 (8)	21:22	22:18	22:21	21:25	20:04 45	18:29 (8)	18:40		16:22	15:37
9	09:02	08:09	06:58	17:11 (8) 06:31	17:56 (8)	05:15	04:25	04:35	05:32	06:38	17:43 (8)	07:42		07:52	08:52
	15:57	17:05	18:10 15	17:26 (8) 20:19 30	18:26 (8)	21:25	22:19	22:20	21:23	20:01 47	18:30 (8)	18:37		16:20	15:37
10	09:01	08:07	06:55	17:06 (8) 06:29	17:58 (8)	05:12	04:24	04:36	05:34	06:40	17:41 (8)	07:44		07:54	08:53
	15:59	17:07	18:12 24	17:30 (8) 20:21 25	18:23 (8)	21:27	22:20	22:18	21:20	19:58 49	18:30 (8)	18:34		16:18	15:36
11	09:00	08:05	06:52	17:04 (8) 06:26	18:01 (8)	05:10	04:23	04:37	05:36	06:42	17:40 (8)	07:46		07:56	08:55
	16:01	17:10	18:15 29	17:33 (8) 20:23 18	18:19 (8)	21:29	22:21	22:17	21:18	19:55 50	18:30 (8)	18:32		16:16	15:36
12	08:59	08:02	06:49	17:01 (8) 06:23		05:08	04:23	04:39	05:38	06:44	17:39 (8)	07:48		07:59	08:56
	16:03	17:12	18:17 34	17:35 (8) 20:25		21:31	22:22	22:16	21:16	19:53 51	18:30 (8)	18:29		16:14	15:36
13	08:58	08:00	06:47	16:59 (8) 06:21		05:06	04:22	04:40	05:40	06:46	17:38 (8)	07:50		08:01	08:57
	16:05	17:14	18:19 38	17:37 (8) 20:27		21:33	22:23	22:15	21:13	19:50 52	18:30 (8)	18:26		16:12	15:35
14	08:57	07:58	06:44	16:57 (8) 06:18		05:04	04:22	04:42	05:42	06:48	17:37 (8)	07:53		08:03	08:58
	16:07	17:17	18:21 41	17:38 (8) 20:30		21:35	22:24	22:13	21:11	19:47 53	18:30 (8)	18:24		16:10	15:35
15	08:55	07:55	06:41	16:55 (8) 06:15		05:02	04:22	04:43	05:45	06:50	17:36 (8)	07:55		08:05	08:59
	16:08	17:19	18:23 44	17:39 (8) 20:32		21:37	22:24	22:12	21:08	19:44 54	18:30 (8)	18:21		16:08	15:35
16	08:54	07:53	06:38	16:55 (8) 06:12		05:00	04:21	04:45	05:47	06:52	17:36 (8)	07:57		08:08	09:00
	16:10	17:21	18:26 45	17:40 (8) 20:34		21:39	22:25	22:11	21:06	19:41 54	18:30 (8)	18:18		16:06	15:35
17	08:53	07:50	06:36	16:53 (8) 06:10		04:58	04:21	04:47	05:49	06:55	17:35 (8)	07:59		08:10	09:01
	16:13	17:24	18:28 48	17:41 (8) 20:36		21:41	22:26	22:09	21:03	19:39 54	18:29 (8)	18:16		16:04	15:35
18	08:51	07:48	06:33	16:52 (8) 06:07		04:56	04:21	04:48	05:51	06:57	17:35 (8)	08:02		08:12	09:02
	16:15	17:26	18:30 49	17:41 (8) 20:38		21:43	22:26	22:08	21:01	19:36 54	18:29 (8)	18:13		16:02	15:35
19	08:50	07:45	06:30	16:51 (8) 06:04		04:54	04:21	04:50	05:53	06:59	17:34 (8)	08:04		08:14	09:03
	16:17	17:29	18:32 50	17:41 (8) 20:41		21:45	22:26	22:06	20:58	19:33 55	18:29 (8)	18:10		16:00	15:35
20	08:48	07:43	06:27	16:50 (8) 06:02		04:52	04:21	04:52	05:55	07:01	17:34 (8)	08:06		08:17	09:04
	16:19	17:31	18:35 51	17:41 (8) 20:43		21:47	22:27	22:04	20:55	19:30 54	18:28 (8)	18:08		15:59	15:36
21	08:47	07:40	06:24	16:49 (8) 05:59		04:50	04:21	04:54	05:57	07:03	17:35 (8)	08:08		08:19	09:04
	16:21	17:33	18:37 52	17:41 (8) 20:45		21:49	22:27	22:03	20:53	19:27 53	18:28 (8)	18:05		15:57	15:36
22	08:45	07:38	06:22	16:49 (8) 05:57		04:48	04:21	04:56	05:59	07:05	17:34 (8)	08:11		08:21	09:05
	16:23	17:36	18:39 53	17:42 (8) 20:47		21:51	22:27	22:01	20:50	19:25 53	18:27 (8)	18:03		15:55	15:36
23	08:44	07:35	06:19	16:48 (8) 05:54		04:46	04:21	04:57	06:02	07:07	17:34 (8)	08:13		08:23	09:05
	16:25	17:38	18:41 54	17:42 (8) 20:50		21:53	22:27	21:59	20:47	19:22 52	18:26 (8)	18:00		15:54	15:37
24	08:42	07:33	06:16	16:48 (8) 05:51		04:45	04:22	04:59	06:04	07:09	17:34 (8)	08:15		08:25	09:06
	16:28	17:40	18:43 54	17:42 (8) 20:52		21:55	22:28	21:57	20:45	19:19 51	18:25 (8)	17:58		15:52	15:38
25	08:40	07:30	06:13	16:47 (8) 05:49		04:43	04:22	05:01	06:06	07:12	17:35 (8)	07:17		08:27	09:06
	16:30	17:43	18:46 54	17:41 (8) 20:54		21:57	22:28	21:55	20:42	19:16 49	18:24 (8)	16:55		15:51	15:38
26	08:38	07:27	06:10	16:47 (8) 05:46		04:41	04:23	05:03	06:08	07:14	17:35 (8)	07:20		08:29	09:06
	16:32	17:45	18:48 54	17:41 (8) 20:56		21:59	22:27	21:53	20:39	19:13 48	18:23 (8)	16:53		15:49	15:39
27	08:37	07:25	06:08	16:47 (8) 05:44		04:40	04:23	05:05	06:10	07:16	17:35 (8)	07:22		08:31	09:07
	16:34	17:47	18:50 54	17:41 (8) 20:58		22:00	22:27	21:51	20:37	19:10 46	18:21 (8)	16:50		15:48	15:40
28	08:35	07:22	06:05	16:47 (8) 05:41		04:38	04:24	05:07	06:12	07:18	17:36 (8)	07:24		08:33	09:07
	16:37	17:49	18:52 54	17:41 (8) 21:01		22:02	22:27	21:49	20:34	19:08 44	18:20 (8)	16:48		15:47	15:41
29	08:33		07:02	17:47 (8) 05:39		04:37	04:24	05:09	06:14	07:20	17:38 (8)	07:26		08:35	09:07
	16:39		19:54 53	18:40 (8) 21:03		22:04	22:27	21:47	20:31	19:05 41	18:19 (8)	16:45		15:46	15:42
30	08:31		06:59	17:47 (8) 05:36		04:35	04:25	05:11	06:17	07:22	17:39 (8)	07:29		08:37	09:07
	16:41		19:57 52	18:39 (8) 21:05		22:05	22:26	21:45	20:29	19:02 38	18:17 (8)	16:43		15:44	15:43
31	08:29		06:56	17:47 (8)		04:34		05:13	06:19 18:10 (8)			07:31			09:06
	16:44		19:59 51	18:38 (8)		22:07		21:43	20:26 1 18:11 (8)			16:40			15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321		241	207		
Total, worst case			1053	419				1	1374	120					
Sun reduction			0,37	0,46				0,55	0,43	0,31					
Oper. time red.			0,93	0,93				0,93	0,93	0,93					
Wind dir. red.			0,98	0,98				0,98	0,98	0,98					
Total reduction			0,33	0,42				0,50	0,39	0,28					
Total, real			350	175				0	536	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)

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Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
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16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BJ - Pucites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April	May	June
1	09:07		09:53 (1)	08:27			07:20		07:47 (10)	06:54	05:34	04:33
	15:46	65	12:31 (3)	16:46			17:52	14	08:01 (10)	20:01	21:08	22:09
2	09:06		09:53 (1)	08:25			07:17		07:44 (10)	06:51	05:31	04:32
	15:47	63	12:30 (3)	16:48			17:54	18	08:02 (10)	20:03	21:10	22:10
3	09:06		09:53 (1)	08:23			07:14		07:43 (10)	06:48	05:29	04:31
	15:48	63	12:30 (3)	16:51			17:57	19	08:02 (10)	20:06	21:12	22:12
4	09:06		09:53 (1)	08:21			07:12		07:43 (10)	06:46	05:27	04:29
	15:50	61	12:29 (3)	16:53			17:59	20	08:03 (10)	20:08	21:14	22:13
5	09:05		09:54 (1)	08:19			07:09		07:43 (10)	06:43	05:24	04:28
	15:51	59	12:29 (3)	16:56			18:01	20	08:03 (10)	20:10	21:16	22:15
6	09:04		09:54 (1)	08:17			07:06		07:42 (10)	06:40	05:22	04:27
	15:53	53	12:26 (3)	16:58			18:03	20	08:02 (10)	20:12	21:19	22:16
7	09:04		09:54 (1)	08:14			07:03		07:42 (10)	06:37	05:19	04:26
	15:54	52	11:01 (4)	17:00			18:06	20	08:02 (10)	20:14	21:21	22:17
8	09:03		09:55 (1)	08:12			07:01		07:43 (10)	06:34	05:17	04:26
	15:56	51	11:02 (4)	17:03			18:08	18	08:01 (10)	20:17	21:23	22:18
9	09:02		09:54 (1)	08:10			06:58		07:44 (10)	06:32	05:15	04:25
	15:57	51	11:01 (4)	17:05			18:10	16	08:00 (10)	20:19	21:25	22:19
10	09:01		09:55 (1)	08:08			06:55		07:45 (10)	06:29	05:13	04:24
	15:59	51	11:02 (4)	17:07			18:13	13	07:58 (10)	20:21	21:27	22:21
11	09:00		09:56 (1)	08:05			06:53		07:47 (10)	06:26	05:10	04:23
	16:01	50	11:02 (4)	17:10			18:15	8	07:55 (10)	20:23	21:29	22:22
12	08:59		09:55 (1)	08:03			06:50			06:23	05:08	04:23
	16:03	49	11:01 (4)	17:12			18:17			20:26	21:31	22:22
13	08:58		09:56 (1)	08:00			06:47			06:21	05:06	04:22
	16:05	49	11:02 (4)	17:15			18:19			20:28	21:34	22:23
14	08:57		09:56 (1)	07:58			06:44			06:18	05:04	04:22
	16:07	48	11:01 (4)	17:17			18:21			20:30	21:36	22:24
15	08:56		09:57 (1)	07:56			06:41			06:15	05:02	04:22
	16:09	47	11:02 (4)	17:19			18:24			20:32	21:38	22:25
16	08:55		09:58 (1)	07:53			06:39			06:13	05:00	04:21
	16:11	44	11:01 (4)	17:22			18:26			20:34	21:40	22:25
17	08:53		09:59 (1)	07:51			06:36			06:10	04:58	04:21
	16:13	43	11:02 (4)	17:24			18:28			20:37	21:42	22:26
18	08:52		09:59 (1)	07:48			06:33			06:07	04:56	04:21
	16:15	40	11:01 (4)	17:26			18:30			20:39	21:44	22:27
19	08:50		10:00 (1)	07:46			06:30			06:05	04:54	04:21
	16:17	37	11:00 (4)	17:29			18:33			20:41	21:46	22:27
20	08:49		10:01 (1)	07:43			06:27			06:02	04:52	04:21
	16:19	32	10:58 (4)	17:31			18:35			20:43	21:48	22:27
21	08:47		10:02 (1)	07:41			06:25			05:59	04:50	04:21
	16:21	26	10:56 (4)	17:33			18:37			20:45	21:50	22:28
22	08:46		10:03 (1)	07:38			06:22			05:57	04:48	04:21
	16:23	15	10:18 (1)	17:36			18:39			20:48	21:52	22:28
23	08:44		10:05 (1)	07:35			06:19			05:54	04:47	04:21
	16:25	12	10:17 (1)	17:38			18:41			20:50	21:54	22:28
24	08:42		10:07 (1)	07:33			06:16			05:51	04:45	04:22
	16:28	8	10:15 (1)	17:40			18:44			20:52	21:55	22:28
25	08:41			07:30			06:13			05:49	04:43	04:22
	16:30			17:43			18:46			20:54	21:57	22:28
26	08:39			07:28			06:11			05:46	04:42	04:23
	16:32			17:45			18:48			20:57	21:59	22:28
27	08:37			07:25		07:53 (10)	06:08			05:44	04:40	04:23
	16:34			17:47	5	07:58 (10)	18:50			20:59	22:01	22:28
28	08:35			07:22		07:50 (10)	06:05			05:41	04:38	04:24
	16:37			17:50	10	08:00 (10)	18:52			21:01	22:02	22:28
29	08:33						07:02			05:39	04:37	04:24
	16:39						19:55			21:03	22:04	22:27
30	08:31						06:59			05:36	04:36	04:25
	16:41						19:57			21:05	22:06	22:27
31	08:29						06:57				04:34	
	16:44						19:59				22:07	
Potential sun hours	227			262			365			429	515	539
Total, worst case		1069			15			186				
Sun reduction		0,13			0,22			0,37				
Oper. time red.		0,93			0,93			0,93				
Wind dir. red.		0,41			0,93			0,93				
Total reduction		0,05			0,19			0,32				
Total, real		53			3			59				

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

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

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Maza Nometnu iela 31
LV-1002 Riga
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Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BJ - Pucites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October			November			December		
1	04:26	05:15	06:21	07:25			07:34			08:39		09:38 (1)
	22:26	21:42	20:24	19:00			16:38			15:43	49	10:44 (4)
2	04:27	05:17	06:23	07:27		08:28 (10)	07:36			08:41		09:38 (1)
	22:26	21:39	20:21	18:57	3	08:31 (10)	16:36			15:42	51	10:45 (4)
3	04:28	05:19	06:25	07:29		08:24 (10)	07:38			08:43		09:38 (1)
	22:25	21:37	20:18	18:54	11	08:35 (10)	16:33			15:41	51	10:45 (4)
4	04:29	05:21	06:27	07:31		08:22 (10)	07:41			08:45		09:39 (1)
	22:24	21:35	20:15	18:51	15	08:37 (10)	16:31			15:40	51	10:46 (4)
5	04:30	05:23	06:30	07:33		08:20 (10)	07:43			08:46		09:39 (1)
	22:24	21:33	20:13	18:48	17	08:37 (10)	16:29			15:40	52	10:46 (4)
6	04:31	05:26	06:32	07:35		08:19 (10)	07:45			08:48		09:40 (1)
	22:23	21:30	20:10	18:46	19	08:38 (10)	16:27			15:39	51	10:47 (4)
7	04:32	05:28	06:34	07:38		08:19 (10)	07:48			08:49		09:40 (1)
	22:22	21:28	20:07	18:43	20	08:39 (10)	16:24			15:38	60	12:15 (3)
8	04:33	05:30	06:36	07:40		08:18 (10)	07:50			08:51		09:41 (1)
	22:21	21:26	20:04	18:40	20	08:38 (10)	16:22			15:37	61	12:17 (3)
9	04:35	05:32	06:38	07:42		08:17 (10)	07:52			08:52		09:42 (1)
	22:20	21:23	20:01	18:37	21	08:38 (10)	16:20			15:37	63	12:19 (3)
10	04:36	05:34	06:40	07:44		08:17 (10)	07:55			08:54		09:42 (1)
	22:19	21:21	19:59	18:35	20	08:37 (10)	16:18			15:36	64	12:20 (3)
11	04:37	05:36	06:42	07:46		08:18 (10)	07:57			08:55		09:43 (1)
	22:18	21:18	19:56	18:32	19	08:37 (10)	16:16			15:36	65	12:21 (3)
12	04:39	05:38	06:44	07:49		08:19 (10)	07:59			08:56		09:43 (1)
	22:17	21:16	19:53	18:29	17	08:36 (10)	16:14			15:36	66	12:22 (3)
13	04:40	05:40	06:46	07:51		08:21 (10)	08:01			08:58		09:43 (1)
	22:15	21:14	19:50	18:27	13	08:34 (10)	16:12			15:35	66	12:22 (3)
14	04:42	05:43	06:49	07:53		08:24 (10)	08:04			08:59		09:45 (1)
	22:14	21:11	19:47	18:24	9	08:33 (10)	16:10			15:35	67	12:24 (3)
15	04:44	05:45	06:51	07:55		08:26 (10)	08:06			09:00		09:45 (1)
	22:13	21:09	19:45	18:21	3	08:29 (10)	16:08			15:35	68	12:24 (3)
16	04:45	05:47	06:53	07:57			08:08			09:01		09:46 (1)
	22:11	21:06	19:42	18:19			16:06			15:35	66	12:25 (3)
17	04:47	05:49	06:55	08:00			08:10			09:02		09:47 (1)
	22:10	21:03	19:39	18:16			16:04			15:35	68	12:26 (3)
18	04:49	05:51	06:57	08:02			08:13		09:41 (1)	09:03		09:48 (1)
	22:08	21:01	19:36	18:13			16:02	8	09:49 (1)	15:35	66	12:26 (3)
19	04:50	05:53	06:59	08:04			08:15		09:40 (1)	09:03		09:49 (1)
	22:06	20:58	19:33	18:11			16:01	12	09:52 (1)	15:35	66	12:27 (3)
20	04:52	05:55	07:01	08:06			08:17		09:38 (1)	09:04		09:49 (1)
	22:05	20:56	19:30	18:08			15:59	15	09:53 (1)	15:36	67	12:27 (3)
21	04:54	05:58	07:03	08:09			08:19		09:38 (1)	09:05		09:50 (1)
	22:03	20:53	19:28	18:05			15:57	26	10:32 (4)	15:36	67	12:28 (3)
22	04:56	06:00	07:05	08:11			08:21		09:37 (1)	09:05		09:50 (1)
	22:01	20:50	19:25	18:03			15:56	32	10:34 (4)	15:36	66	12:28 (3)
23	04:57	06:02	07:08	08:13			08:23		09:37 (1)	09:06		09:51 (1)
	22:00	20:48	19:22	18:00			15:54	37	10:37 (4)	15:37	67	12:29 (3)
24	04:59	06:04	07:10	08:15			08:25		09:37 (1)	09:06		09:51 (1)
	21:58	20:45	19:19	17:58			15:52	40	10:38 (4)	15:38	67	12:29 (3)
25	05:01	06:06	07:12	07:18			08:27		09:36 (1)	09:07		09:51 (1)
	21:56	20:43	19:16	16:55			15:51	43	10:39 (4)	15:38	66	12:29 (3)
26	05:03	06:08	07:14	07:20			08:30		09:37 (1)	09:07		09:51 (1)
	21:54	20:40	19:14	16:53			15:50	44	10:40 (4)	15:39	67	12:30 (3)
27	05:05	06:10	07:16	07:22			08:32		09:37 (1)	09:07		09:51 (1)
	21:52	20:37	19:11	16:50			15:48	45	10:41 (4)	15:40	67	12:30 (3)
28	05:07	06:12	07:18	07:25			08:34		09:36 (1)	09:07		09:51 (1)
	21:50	20:34	19:08	16:48			15:47	49	10:42 (4)	15:41	67	12:30 (3)
29	05:09	06:15	07:20	07:27			08:35		09:36 (1)	09:07		09:51 (1)
	21:48	20:32	19:05	16:45			15:46	49	10:42 (4)	15:42	68	12:31 (3)
30	05:11	06:17	07:22	07:29			08:37		09:38 (1)	09:07		09:52 (1)
	21:46	20:29	19:02	16:43			15:44	49	10:44 (4)	15:43	68	12:31 (3)
31	05:13	06:19		07:31						09:07		09:52 (1)
	21:44	20:26		16:40						15:44	68	12:31 (3)
Potential sun hours	538	475	386	321			241			207		
Total, worst case					207			449			1956	
Sun reduction					0,31			0,15			0,13	
Oper. time red.					0,93			0,93			0,93	
Wind dir. red.					0,93			0,44			0,33	
Total reduction					0,26			0,06			0,04	
Total, real					55			28			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BK - Raudupes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34	04:33	04:26	05:06 (3)	05:15	06:21	06:59 (2)	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08	22:09	22:26	10 05:16 (3)	21:41	20:24	21 07:20 (2)	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:07 (3)	05:18	06:23	07:00 (2)	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	9 05:16 (3)	21:39	20:21	18 07:18 (2)	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:08 (3)	05:20	06:25	07:02 (2)	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	8 05:16 (3)	21:37	20:18	13 07:15 (2)	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:09 (3)	05:22	06:28	07:07 (2)	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	6 05:15 (3)	21:35	20:15	3 07:10 (2)	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:10 (3)	05:24	06:30		07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:15	22:24	4 05:14 (3)	21:33	20:13		18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31		05:26	06:32		07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:19	22:16	22:23		21:30	20:10		18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	05:05 (3)	04:33	05:28	06:34		07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21	22:17	3 05:08 (3)	22:22	21:28	20:07		18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	07:10 (2)	05:17	04:26	05:04 (3)	04:34	05:30	06:36		07:40	07:50	08:51
	15:56	17:03	18:08	20:17	3 07:13 (2)	21:23	22:18	5 05:09 (3)	22:21	21:26	20:04		18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	07:04 (2)	05:15	04:25	05:03 (3)	04:35	05:32	06:38		07:42	07:52	08:52
	15:58	17:05	18:10	20:19	13 07:17 (2)	21:25	22:19	7 05:10 (3)	22:20	21:23	20:01		18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	07:01 (2)	05:13	04:24	05:03 (3)	04:36	05:34	06:40		07:44	07:54	08:54
	16:00	17:08	18:13	20:21	18 07:19 (2)	21:27	22:20	8 05:11 (3)	22:19	21:21	19:59		18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	07:00 (2)	05:11	04:24	05:02 (3)	04:38	05:36	06:42		07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21 07:21 (2)	21:29	22:21	10 05:12 (3)	22:18	21:18	19:56		18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	06:58 (2)	05:09	04:23	05:02 (3)	04:39	05:39	06:44		07:49	07:59	08:56
	16:03	17:12	18:17	20:26	24 07:22 (2)	21:31	22:22	11 05:13 (3)	22:16	21:16	19:53		18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	06:58 (2)	05:06	04:23	05:02 (3)	04:41	05:41	06:47		07:51	08:01	08:57
	16:05	17:15	18:19	20:28	25 07:23 (2)	21:34	22:23	12 05:14 (3)	22:15	21:14	19:50		18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	06:56 (2)	05:04	04:22	05:01 (3)	04:42	05:43	06:49		07:53	08:04	08:59
	16:07	17:17	18:22	20:30	27 07:23 (2)	21:36	22:24	12 05:13 (3)	22:14	21:11	19:47		18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	06:55 (2)	05:02	04:22	05:01 (3)	04:44	05:45	07:10 (2)	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	28 07:23 (2)	21:38	22:25	13 05:14 (3)	22:12	21:09	8 07:18 (2)	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	06:55 (2)	05:00	04:22	05:01 (3)	04:45	05:47	07:07 (2)	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	29 07:24 (2)	21:40	22:25	14 05:15 (3)	22:11	21:06	14 07:21 (2)	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	06:54 (2)	04:58	04:21	05:01 (3)	04:47	05:49	07:05 (2)	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	29 07:23 (2)	21:42	22:26	14 05:15 (3)	22:10	21:03	17 07:22 (2)	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	06:55 (2)	04:56	04:21	05:01 (3)	04:49	05:51	07:03 (2)	06:57	08:02	08:13	09:03
	16:15	17:27	18:31	20:39	28 07:23 (2)	21:44	22:26	14 05:15 (3)	22:08	21:01	21 07:24 (2)	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	06:54 (2)	04:54	04:21	05:01 (3)	04:51	05:53	07:02 (2)	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	29 07:23 (2)	21:46	22:27	15 05:16 (3)	22:06	20:58	23 07:25 (2)	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	06:54 (2)	04:52	04:21	05:01 (3)	04:52	05:56	07:01 (2)	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	28 07:22 (2)	21:48	22:27	15 05:16 (3)	22:05	20:56	24 07:25 (2)	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	06:54 (2)	04:50	04:21	05:01 (3)	04:54	05:58	07:00 (2)	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	27 07:21 (2)	21:50	22:27	15 05:16 (3)	22:03	20:53	26 07:26 (2)	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	06:54 (2)	04:49	04:22	05:02 (3)	04:56	06:00	06:59 (2)	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	26 07:20 (2)	21:52	22:28	15 05:17 (3)	22:01	20:51	27 07:26 (2)	19:25	18:03	15:56	15:37
23	08:44	07:36	06:19	05:54	06:55 (2)	04:47	04:22	05:02 (3)	04:58	06:02	06:58 (2)	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	25 07:20 (2)	21:53	22:28	15 05:17 (3)	21:59	20:48	28 07:26 (2)	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	06:56 (2)	04:45	04:22	05:02 (3)	05:00	06:04	06:58 (2)	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	23 07:19 (2)	21:55	22:28	15 05:17 (3)	21:58	20:45	28 07:26 (2)	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	06:57 (2)	04:43	04:22	05:03 (3)	05:02	06:06	06:57 (2)	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	20 07:17 (2)	21:57	22:28	14 05:17 (3)	21:56	20:43	29 07:26 (2)	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	06:58 (2)	04:42	04:23	05:03 (3)	05:04	06:08	06:57 (2)	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	17 07:15 (2)	21:59	22:28	14 05:17 (3)	21:54	20:40	29 07:26 (2)	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	07:00 (2)	04:40	04:23	05:04 (3)	05:05	06:11	06:57 (2)	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	13 07:13 (2)	22:01	22:28	13 05:17 (3)	21:52	20:37	28 07:25 (2)	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	07:04 (2)	04:39	04:24	05:04 (3)	05:07	06:13	06:57 (2)	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	5 07:09 (2)	22:02	22:27	13 05:17 (3)	21:50	20:34	28 07:25 (2)	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39		04:37	04:25	05:05 (3)	05:09	06:15	06:57 (2)	07:20	07:27	08:35	09:07
	16:39		19:55	21:03		22:04	22:27	12 05:17 (3)	21:48	20:32	27 07:24 (2)	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37		04:36	04:26	05:06 (3)	05:11	06:17	06:58 (2)	07:23	07:29	08:37	09:07
	16:42		19:57	21:05		22:06	22:27	11 05:17 (3)	21:46	20:29	25 07:23 (2)	19:02	16:43	15:45	15:43
31	08:29		06:57			04:35			05:13	06:19	06:58 (2)		07:31		09:07
	16:44		19:59			22:07			21:44	20:26	24 07:22 (2)		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
Total, worst case				458		290	37	406	55			
Sun reduction				0,46		0,53	0,57	0,55	0,43			
Oper. time red.				0,93		0,93	0,93	0,93	0,93			
Wind dir. red.				0,99		0,78	0,78	0,99	0,99			
Total reduction				0,43		0,39	0,41	0,50	0,40			
Total, real				195		112	15	205	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BL - Rudzi š i 1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:36
12	08:59	08:03	06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BM - Saulkrasti

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:20	06:54	07:25 (2)	05:34	04:33	04:26	05:15	06:21	07:23 (2)	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21 07:46 (2)	21:08	22:09	22:26	21:42	20:24	16 07:39 (2)	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	07:23 (2)	05:32	04:32	04:27	05:18	06:23	07:22 (2)	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	23 07:46 (2)	21:10	22:10	22:26	21:39	20:21	18 07:40 (2)	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	07:23 (2)	05:29	04:31	04:28	05:20	06:25	07:20 (2)	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	24 07:47 (2)	21:12	22:12	22:25	21:37	20:18	21 07:41 (2)	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	07:22 (2)	05:27	04:30	04:29	05:22	06:28	07:19 (2)	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	25 07:47 (2)	21:14	22:13	22:24	21:35	20:15	22 07:41 (2)	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	07:22 (2)	05:24	04:29	04:30	05:24	06:30	07:18 (2)	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	24 07:46 (2)	21:16	22:15	22:24	21:33	20:13	24 07:42 (2)	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	07:21 (2)	05:22	04:28	04:31	05:26	06:32	07:17 (2)	07:36	07:45	08:48
	15:53	16:58	18:04	20:12	24 07:45 (2)	21:19	22:16	22:23	21:30	20:10	24 07:41 (2)	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	07:22 (2)	05:20	04:27	04:33	05:28	06:34	07:17 (2)	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	23 07:45 (2)	21:21	22:17	22:22	21:28	20:07	24 07:41 (2)	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	07:22 (2)	05:17	04:26	04:34	05:30	06:36	07:17 (2)	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	22 07:44 (2)	21:23	22:18	22:21	21:26	20:04	24 07:41 (2)	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	07:22 (2)	05:15	04:25	04:35	05:32	06:38	07:17 (2)	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21 07:43 (2)	21:25	22:19	22:20	21:23	20:01	23 07:40 (2)	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	07:24 (2)	05:13	04:24	04:36	05:34	06:40	07:17 (2)	07:44	07:55	08:54
	16:00	17:08	18:13	20:21	18 07:42 (2)	21:27	22:20	22:19	21:21	19:59	22 07:39 (2)	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	07:24 (2)	05:11	04:24	04:38	05:36	06:42	07:17 (2)	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	16 07:40 (2)	21:29	22:21	22:18	21:18	19:56	21 07:38 (2)	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	07:26 (2)	05:09	04:23	04:39	05:39	06:44	07:17 (2)	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	11 07:37 (2)	21:31	22:22	22:16	21:16	19:53	20 07:37 (2)	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21		05:06	04:23	04:41	05:41	06:47	07:18 (2)	07:51	08:01	08:58
	16:05	17:15	18:19	20:28		21:34	22:23	22:15	21:14	19:50	17 07:35 (2)	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18		05:04	04:22	04:42	05:43	06:49	07:20 (2)	07:53	08:04	08:59
	16:07	17:17	18:22	20:30		21:36	22:24	22:14	21:11	19:47	12 07:32 (2)	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16		05:02	04:22	04:44	05:45	06:51	07:24 (2)	07:55	08:06	09:00
	16:09	17:20	18:24	20:32		21:38	22:25	22:12	21:09	19:45	4 07:28 (2)	18:21	16:08	15:35
16	08:55	07:53	06:39	06:13		05:00	04:22	04:45	05:47	06:53		07:57	08:08	09:01
	16:11	17:22	18:26	20:34		21:40	22:25	22:11	21:06	19:42		18:19	16:06	15:35
17	08:53	07:51	06:36	06:10		04:58	04:21	04:47	05:49	06:55		08:00	08:10	09:02
	16:13	17:24	18:28	20:37		21:42	22:26	22:10	21:03	19:39		18:16	16:04	15:35
18	08:52	07:48	06:33	06:07		04:56	04:21	04:49	05:51	06:57		08:02	08:13	09:03
	16:15	17:27	18:31	20:39		21:44	22:26	22:08	21:01	19:36		18:13	16:03	15:36
19	08:50	07:46	06:30	06:05		04:54	04:21	04:51	05:53	06:59		08:04	08:15	09:03
	16:17	17:29	18:33	20:41		21:46	22:27	22:06	20:58	19:33		18:11	16:01	15:36
20	08:49	07:43	06:28	06:02		04:52	04:21	04:52	05:56	07:01		08:06	08:17	09:04
	16:19	17:31	18:35	20:43		21:48	22:27	22:05	20:56	19:31		18:08	15:59	15:36
21	08:47	07:41	06:25	06:00		04:50	04:21	04:54	05:58	07:03		08:09	08:19	09:05
	16:21	17:34	18:37	20:45		21:50	22:28	22:03	20:53	19:28		18:06	15:57	15:36
22	08:46	07:38	06:22	05:57		04:49	04:22	04:56	06:00	07:06		08:11	08:21	09:05
	16:24	17:36	18:39	20:48		21:52	22:28	22:01	20:51	19:25		18:03	15:56	15:37
23	08:44	07:36	06:19	05:54		04:47	04:22	04:58	06:02	07:08		08:13	08:23	09:06
	16:26	17:38	18:42	20:50		21:53	22:28	21:59	20:48	19:22		18:00	15:54	15:37
24	08:42	07:33	06:16	05:52		04:45	04:22	05:00	06:04	07:10		08:15	08:25	09:06
	16:28	17:41	18:44	20:52		21:55	22:28	21:58	20:45	19:19		17:58	15:53	15:38
25	08:41	07:30	06:14	05:49		04:43	04:22	05:02	06:06	07:12		07:18	08:27	09:07
	16:30	17:43	18:46	20:54		21:57	22:28	21:56	20:43	19:16		16:55	15:51	15:39
26	08:39	07:28	06:11	05:47		04:42	04:23	05:04	06:08	07:14		07:20	08:29	09:07
	16:32	17:45	18:48	20:57		21:59	22:28	21:54	20:40	19:14		16:53	15:50	15:39
27	08:37	07:25	06:08	05:44		04:40	04:23	05:05	06:11	07:16		07:22	08:31	09:07
	16:35	17:48	18:50	20:59		22:01	22:28	21:52	20:37	19:11		16:50	15:48	15:40
28	08:35	07:22	06:05	05:42		04:39	04:24	05:07	06:13	07:18		07:25	08:33	09:07
	16:37	17:50	18:53	21:01		22:02	22:27	21:50	20:35	19:08		16:48	15:47	15:41
29	08:33		07:02	07:30 (2)	05:39	04:37	04:25	05:09	06:15	07:20		07:27	08:35	09:07
	16:39		19:55	12 07:42 (2)	21:03	22:04	22:27	21:48	20:32	19:05		16:46	15:46	15:42
30	08:31		07:00	07:28 (2)	05:37	04:36	04:26	05:11	06:17	07:23		07:29	08:37	09:07
	16:42		19:57	16 07:44 (2)	21:05	22:06	22:27	21:46	20:29	2 07:33 (2)	19:02	16:43	15:45	15:43
31	08:29		06:57	07:26 (2)		04:35		05:13	06:19	07:26 (2)		07:32		09:07
	16:44		19:59	19 07:45 (2)		22:07		21:44	20:26	11 07:37 (2)		16:41		15:44
Potential sun hours	227	262	365	429		515	539	538	474		386	321	241	207
Total, worst case			47	252					13		292			
Sun reduction			0,37	0,46					0,55		0,43			
Oper. time red.			0,93	0,93					0,93		0,93			
Wind dir. red.			1,00	1,00					1,00		1,00			
Total reduction			0,34	0,43					0,51		0,40			
Total, real			16	108					7		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BN - Silkaleji

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February	March	April	May	June	July	August	September	October	November			December		
1	09:07		09:50 (13)	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34			08:39		09:27 (13)
	15:45	13	10:03 (13)	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38			15:43	25	09:52 (13)
2	09:06		09:49 (13)	08:25	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36			08:41		09:27 (13)
	15:47	14	10:03 (13)	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	25	09:52 (13)
3	09:06		09:48 (13)	08:23	07:14	06:48	05:29	04:30	04:28	05:19	06:25	07:29	07:38			08:43		09:28 (13)
	15:48	16	10:04 (13)	16:51	17:56	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	24	09:52 (13)
4	09:05		09:47 (13)	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41			08:44		09:28 (13)
	15:49	17	10:04 (13)	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31			15:40	25	09:53 (13)
5	09:05		09:47 (13)	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43			08:46		09:30 (13)
	15:51	19	10:06 (13)	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29			15:39	23	09:53 (13)
6	09:04		09:46 (13)	08:16	07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45			08:48		09:31 (13)
	15:52	21	10:07 (13)	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26			15:38	21	09:52 (13)
7	09:04		09:45 (13)	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:48			08:49		09:33 (13)
	15:54	23	10:08 (13)	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24			15:38	19	09:52 (13)
8	09:03		09:43 (13)	08:12	07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50			08:51		09:35 (13)
	15:56	24	10:07 (13)	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22			15:37	18	09:53 (13)
9	09:02		09:44 (13)	08:10	06:58	06:32	05:15	04:25	04:34	05:32	06:38	07:42	07:52			08:52		09:37 (13)
	15:57	24	10:08 (13)	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20			15:37	16	09:53 (13)
10	09:01		09:44 (13)	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54			08:54		09:38 (13)
	15:59	25	10:09 (13)	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18			15:36	14	09:52 (13)
11	09:00		09:44 (13)	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57			08:55		09:40 (13)
	16:01	26	10:10 (13)	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16			15:36	13	09:53 (13)
12	08:59		09:44 (13)	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59		09:30 (13)	08:56		09:41 (13)
	16:03	26	10:10 (13)	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	8	09:38 (13)	15:35	12	09:53 (13)
13	08:58		09:45 (13)	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		09:27 (13)	08:58		09:42 (13)
	16:04	26	10:11 (13)	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12	14	09:41 (13)	15:35	10	09:52 (13)
14	08:57		09:44 (13)	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:04		09:26 (13)	08:59		09:44 (13)
	16:06	27	10:11 (13)	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	17	09:43 (13)	15:35	9	09:53 (13)
15	08:56		09:45 (13)	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06		09:25 (13)	09:00		09:45 (13)
	16:08	27	10:12 (13)	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	20	09:45 (13)	15:35	8	09:53 (13)
16	08:54		09:45 (13)	07:53	06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08		09:24 (13)	09:01		09:46 (13)
	16:10	27	10:12 (13)	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	21	09:45 (13)	15:35	7	09:53 (13)
17	08:53		09:45 (13)	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10		09:24 (13)	09:02		09:47 (13)
	16:12	27	10:12 (13)	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	23	09:47 (13)	15:35	7	09:54 (13)
18	08:52		09:46 (13)	07:48	06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12		09:23 (13)	09:03		09:48 (13)
	16:14	28	10:14 (13)	17:26	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	24	09:47 (13)	15:35	6	09:54 (13)
19	08:50		09:46 (13)	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15		09:23 (13)	09:03		09:48 (13)
	16:17	28	10:14 (13)	17:29	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	25	09:48 (13)	15:35	6	09:54 (13)
20	08:49		09:47 (13)	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		09:23 (13)	09:04		09:49 (13)
	16:19	27	10:14 (13)	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	26	09:49 (13)	15:35	5	09:54 (13)
21	08:47		09:47 (13)	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19		09:23 (13)	09:05		09:50 (13)
	16:21	27	10:14 (13)	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	27	09:50 (13)	15:36	5	09:55 (13)
22	08:46		09:48 (13)	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21		09:23 (13)	09:05		09:50 (13)
	16:23	26	10:14 (13)	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	27	09:50 (13)	15:36	5	09:55 (13)
23	08:44		09:48 (13)	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23		09:22 (13)	09:06		09:51 (13)
	16:25	25	10:13 (13)	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	28	09:50 (13)	15:37	5	09:56 (13)
24	08:42		09:49 (13)	07:33	06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25		09:23 (13)	09:06		09:51 (13)
	16:27	24	10:13 (13)	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	28	09:51 (13)	15:37	5	09:56 (13)
25	08:41		09:50 (13)	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27		09:23 (13)	09:07		09:51 (13)
	16:30	23	10:13 (13)	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	28	09:51 (13)	15:38	6	09:57 (13)
26	08:39		09:51 (13)	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29		09:24 (13)	09:07		09:51 (13)
	16:32	21	10:12 (13)	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	28	09:52 (13)	15:39	6	09:57 (13)
27	08:37		09:53 (13)	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31		09:24 (13)	09:07		09:51 (13)
	16:34	19	10:12 (13)	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	27	09:51 (13)	15:40	7	09:58 (13)
28	08:35		09:54 (13)	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33		09:24 (13)	09:07		09:51 (13)
	16:37	17	10:11 (13)	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	27	09:51 (13)	15:41	8	09:59 (13)
29	08:33		09:55 (13)		07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35		09:25 (13)	09:07		09:51 (13)
	16:39	14	10:09 (13)		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	26	09:51 (13)	15:42	9	10:00 (13)
30	08:31		09:58 (13)		06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37		09:26 (13)	09:07		09:51 (13)
	16:41	8	10:06 (13)		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	26	09:52 (13)	15:43	10	10:01 (13)
31	08:29				06:56		04:34		05:13	06:19		07:31				09:07		09:50 (13)
	16:43				19:59		22:07		21:44	20:26		16:40				15:44	11	10:01 (13)
Potential sun hours	227			262	365	429	516	539	539	475	386	321	241			207		
Total, worst case		669												450			370	
Sun reduction		0,13												0,15			0,13	
Oper. time red.		0,93												0,93			0,93	
Wind dir. red.		0,55												0,55			0,55	
Total reduction		0,07												0,08			0,06	
Total, real		45												35			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BO - Silkalni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:20	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:34	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:31	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:21	21:28	20:07	18:43	16:24	15:38
8	09:02	08:12	07:00	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:22	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:09	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:20	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:55	18:32	16:16	15:36
12	08:59	08:02	06:49	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:50	08:01	08:57
	16:05	17:14	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:25	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:38	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:35
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:16	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:25	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:27	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:10	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:58	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:06
	16:34	17:47	18:50	20:58	22:00	22:27	21:51	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:49	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BP - Silveveri

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October	November		December		
1	09:07	10:22 (5)	08:27		09:00 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34		08:26 (1)	08:39		09:32 (4)
	15:46	58 12:02 (3)	16:46	47	10:17 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	25	08:51 (1)	15:43	64	11:47 (3)
2	09:06	10:22 (5)	08:25		08:57 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36		08:25 (1)	08:41		09:34 (4)
	15:47	58 12:02 (3)	16:48	49	10:16 (4)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57		16:36	33	09:36 (4)	15:42	62	11:47 (3)
3	09:06	10:22 (5)	08:23		08:57 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38		08:25 (1)	08:43		10:10 (5)
	15:48	58 12:02 (3)	16:51	50	10:16 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	41	09:40 (4)	15:41	55	11:48 (3)
4	09:06	10:22 (5)	08:21		08:57 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41		08:25 (1)	08:44		10:10 (5)
	15:50	58 12:02 (3)	16:53	49	10:16 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31	44	09:41 (4)	15:40	54	11:48 (3)
5	09:05	10:24 (5)	08:19		08:56 (1)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43		08:26 (1)	08:46		10:10 (5)
	15:51	57 12:03 (3)	16:56	48	10:14 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48		16:29	46	09:43 (4)	15:40	56	11:49 (3)
6	09:04	10:24 (5)	08:17		08:56 (1)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45		08:25 (1)	08:48		10:11 (5)
	15:53	58 12:04 (3)	16:58	46	10:13 (4)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	48	09:44 (4)	15:39	57	11:50 (3)
7	09:04	10:25 (5)	08:14		08:55 (1)	07:03	06:37	05:19	04:26	04:32	05:28	06:34	07:38		07:48		08:26 (1)	08:49		10:10 (5)
	15:54	56 12:04 (3)	17:00	44	10:11 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	49	09:45 (4)	15:38	58	11:50 (3)
8	09:03	10:26 (5)	08:12		08:56 (1)	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40		07:50		08:28 (1)	08:51		10:11 (5)
	15:56	55 12:04 (3)	17:03	39	10:10 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	49	09:47 (4)	15:37	58	11:50 (3)
9	09:02	10:26 (5)	08:10		08:55 (1)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52		08:28 (1)	08:52		10:11 (5)
	15:58	54 12:04 (3)	17:05	32	10:05 (4)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20	49	09:47 (4)	15:37	58	11:51 (3)
10	09:01	09:51 (4)	08:08		08:56 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55		08:31 (1)	08:54		10:11 (5)
	15:59	61 12:04 (3)	17:07	25	09:21 (1)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	47	09:48 (4)	15:36	58	11:51 (3)
11	09:00	09:50 (4)	08:05		08:56 (1)	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46		07:57		08:33 (1)	08:55		10:12 (5)
	16:01	63 12:04 (3)	17:10	24	09:20 (1)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32		16:16	44	09:48 (4)	15:36	58	11:52 (3)
12	08:59	09:48 (4)	08:03		08:57 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59		08:36 (1)	08:56		10:12 (5)
	16:03	65 12:04 (3)	17:12	23	09:20 (1)	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29		16:14	41	09:49 (4)	15:36	58	11:52 (3)
13	08:58	09:48 (4)	08:00		08:58 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01		08:39 (1)	08:58		10:12 (5)
	16:05	63 12:04 (3)	17:15	21	09:19 (1)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	34	09:49 (4)	15:35	59	11:52 (3)
14	08:57	09:47 (4)	07:58		08:58 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04		09:17 (4)	08:59		10:13 (5)
	16:07	63 12:04 (3)	17:17	20	09:18 (1)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	32	09:49 (4)	15:35	60	11:54 (3)
15	08:56	09:47 (4)	07:56		09:00 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06		09:18 (4)	09:00		10:13 (5)
	16:09	62 12:04 (3)	17:19	17	09:17 (1)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08	32	09:50 (4)	15:35	60	11:54 (3)
16	08:55	09:46 (4)	07:53		09:02 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08		09:18 (4)	09:01		10:14 (5)
	16:11	59 12:03 (3)	17:22	12	09:14 (1)	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19		16:06	31	09:49 (4)	15:35	59	11:54 (3)
17	08:53	09:45 (4)	07:51		09:06 (1)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10		09:18 (4)	09:02		10:14 (5)
	16:13	54 12:03 (3)	17:24	5	09:11 (1)	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16		16:04	32	09:50 (4)	15:35	60	11:55 (3)
18	08:52	09:46 (4)	07:48			06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02		08:13		09:18 (4)	09:03		10:15 (5)
	16:15	49 12:03 (3)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13		16:02	31	09:49 (4)	15:35	60	11:56 (3)
19	08:50	09:45 (4)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04		08:15		09:19 (4)	09:03		10:14 (5)
	16:17	49 12:02 (3)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11		16:01	31	09:50 (4)	15:35	60	11:55 (3)
20	08:49	09:45 (4)	07:43			06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06		08:17		09:19 (4)	09:04		10:15 (5)
	16:19	46 12:00 (3)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08		15:59	39	11:31 (3)	15:36	60	11:56 (3)
21	08:47	09:45 (4)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:19		09:21 (4)	09:05		10:16 (5)
	16:21	44 11:59 (3)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05		15:57	44	11:35 (3)	15:36	60	11:57 (3)
22	08:46	09:44 (4)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11		08:21		09:21 (4)	09:05		10:16 (5)
	16:23	39 11:56 (3)	17:36			18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03		15:56	46	11:36 (3)	15:37	60	11:57 (3)
23	08:44	09:44 (4)	07:35			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13		08:23		09:22 (4)	09:06		10:17 (5)
	16:25	31 10:15 (4)	17:38			18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00		15:54	49	11:39 (3)	15:37	60	11:58 (3)
24	08:42	09:44 (4)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15		08:25		09:23 (4)	09:06		10:17 (5)
	16:28	31 10:15 (4)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58		15:52	50	11:40 (3)	15:38	60	11:58 (3)
25	08:41	09:45 (4)	07:30			06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:27		09:23 (4)	09:07		10:18 (5)
	16:30	31 10:16 (4)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	8	08:42 (1)		15:51	53	11:41 (3)	15:38	60	11:58 (3)
26	08:39	09:45 (4)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20		08:32 (1)		08:30		09:25 (4)	09:07		10:18 (5)
	16:32	31 10:16 (4)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	13	08:45 (1)		15:50	59	11:42 (3)	15:39	60	11:59 (3)
27	08:37	09:45 (4)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22		08:29 (1)		08:32		09:26 (4)	09:07		10:18 (5)
	16:35	32 10:17 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	18	08:47 (1)		15:48	61	11:43 (3)	15:40	60	11:59 (3)
28	08:35	09:45 (4)	07:22			06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25		08:28 (1)		08:33		09:27 (4)	09:07		10:19 (5)
	16:37	32 10:17 (4)	17:50			18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	20	08:48 (1)		15:47	63	11:44 (3)	15:41	60	12:00 (3)
29	08:33	09:07 (1)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27		08:27 (1)		08:35		09:28 (4)	09:07		10:20 (5)
	16:39	36 10:18 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	22	08:49 (1)		15:46	64	11:44 (3)	15:42	59	12:00 (3)
30	08:31	09:04 (1)				06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29		08:27 (1)		08:37		09:30 (4)	09:07		10:21 (5)
	16:41	40 10:17 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	23	08:50 (1)		15:45	66	11:46 (3)	15:43	59	12:01 (3)
31	08:29	09:02 (1)				06:57		04:34		05:13	06:19		07:31		08:26 (1)					09:07		10:20 (5)
	16:44	44 10:17 (4)				19:59		22:07		21:44	20:26		16:41	24	08:50 (1)					15:44	60	12:01 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321			241					207		
Total, worst case		1537		551										128		1333					1832	
Sun reduction		0,13		0,22										0,31		0,15					0,13	
Oper. time red.		0,93		0,93										0,93		0,93					0,93	
Wind dir. red.		0,35		0,68										0,74		0,50					0,24	
Total reduction		0,04		0,14										0,21		0,07					0,03	
Total, real		66		77										27		96					52	

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BQ - Smilgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October	November	December
1	09:07		09:54 (5)		08:27		09:15 (4)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34		08:08 (1)	08:39		09:39 (5)
	15:46	53	11:12 (3)		16:46	26	09:41 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	30	09:11 (4)	15:43	56	10:58 (3)
2	09:06		09:54 (5)		08:25		09:14 (4)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36		08:44 (4)	08:41		09:39 (5)
	15:47	54	11:12 (3)		16:48	27	09:41 (4)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	27	09:11 (4)	15:42	56	10:58 (3)
3	09:06		09:54 (5)		08:23		09:14 (4)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38		08:44 (4)	08:43		09:39 (5)
	15:48	54	11:12 (3)		16:51	28	09:42 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	28	09:12 (4)	15:41	58	10:59 (3)
4	09:06		09:54 (5)		08:21		09:14 (4)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41		08:44 (4)	08:45		09:40 (5)
	15:50	54	11:12 (3)		16:53	29	09:43 (4)	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51		16:31	28	09:12 (4)	15:40	56	10:59 (3)
5	09:05		09:55 (5)		08:19		09:14 (4)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43		08:44 (4)	08:46		09:40 (5)
	15:51	56	11:14 (3)		16:56	28	09:42 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48		16:29	28	09:12 (4)	15:40	57	11:00 (3)
6	09:04		09:55 (5)		08:17		09:14 (4)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45		08:43 (4)	08:48		09:41 (5)
	15:53	55	11:14 (3)		16:58	29	09:43 (4)	18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	29	09:12 (4)	15:39	56	11:00 (3)
7	09:04		09:55 (5)		08:14		09:14 (4)	07:04	06:37	05:20	04:26	04:32	05:28	06:34	07:38		07:48		08:44 (4)	08:49		09:41 (5)
	15:54	57	11:15 (3)		17:00	28	09:42 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	28	09:12 (4)	15:38	56	11:00 (3)
8	09:03		09:56 (5)		08:12		09:15 (4)	07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40		07:50		08:45 (4)	08:51		09:42 (5)
	15:56	56	11:15 (3)		17:03	27	09:42 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	28	09:13 (4)	15:37	55	11:00 (3)
9	09:02		09:55 (5)		08:10		08:40 (1)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52		08:45 (4)	08:52		09:43 (5)
	15:58	57	11:15 (3)		17:05	27	09:41 (4)	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37		16:20	27	09:12 (4)	15:37	54	11:01 (3)
10	09:01		09:56 (5)		08:08		08:38 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55		08:45 (4)	08:54		09:43 (5)
	15:59	56	11:15 (3)		17:07	31	09:41 (4)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	27	09:12 (4)	15:36	54	11:01 (3)
11	09:00		09:56 (5)		08:05		08:35 (1)	06:53	06:26	05:10	04:23	04:38	05:36	06:42	07:46		07:57		08:46 (4)	08:55		09:44 (5)
	16:01	58	11:16 (3)		17:10	34	09:40 (4)	18:15	20:23	21:29	22:22	22:18	21:18	19:56	18:32		16:16	25	09:11 (4)	15:36	54	11:02 (3)
12	08:59		09:56 (5)		08:03		08:33 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59		08:47 (4)	08:56		09:44 (5)
	16:03	58	11:16 (3)		17:12	36	09:40 (4)	18:17	20:26	21:31	22:22	22:17	21:16	19:53	18:29		16:14	24	09:11 (4)	15:36	53	11:02 (3)
13	08:58		09:57 (5)		08:00		08:30 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01		08:48 (4)	08:58		09:45 (5)
	16:05	57	11:16 (3)		17:15	37	09:38 (4)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	23	09:11 (4)	15:35	52	11:02 (3)
14	08:57		09:57 (5)		07:58		08:27 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04		08:49 (4)	08:59		09:46 (5)
	16:07	56	11:16 (3)		17:17	37	09:36 (4)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	29	10:40 (3)	15:35	51	11:03 (3)
15	08:56		09:58 (5)		07:56		08:28 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06		08:51 (4)	09:00		09:46 (5)
	16:09	56	11:17 (3)		17:19	31	09:34 (4)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08	33	10:44 (3)	15:35	51	11:03 (3)
16	08:55		09:58 (5)		07:53		08:27 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08		08:52 (4)	09:01		09:47 (5)
	16:11	55	11:17 (3)		17:22	22	08:49 (1)	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19		16:06	34	10:46 (3)	15:35	51	11:03 (3)
17	08:53		10:00 (5)		07:51		08:28 (1)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10		08:54 (4)	09:02		09:48 (5)
	16:13	54	11:18 (3)		17:24	21	08:49 (1)	18:28	20:37	21:42	22:26	22:10	21:03	19:39	18:16		16:04	34	10:48 (3)	15:35	50	11:04 (3)
18	08:52		10:00 (5)		07:48		08:27 (1)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02		09:06 (1)		08:13	08:57 (4)		09:03	09:48 (5)
	16:15	52	11:17 (3)		17:26	22	08:49 (1)	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	5	09:11 (1)		16:02	37	10:49 (3)	15:35	50	11:04 (3)
19	08:50		10:01 (5)		07:46		08:27 (1)	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04		09:02 (1)		08:15	09:40 (5)		09:03	09:48 (5)
	16:17	50	11:17 (3)		17:29	21	08:48 (1)	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	12	09:14 (1)		16:01	38	10:50 (3)	15:35	50	11:04 (3)
20	08:49		10:02 (5)		07:43		08:29 (1)	06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06		09:01 (1)		08:17	09:39 (5)		09:04	09:49 (5)
	16:19	48	11:17 (3)		17:31	19	08:48 (1)	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15	09:16 (1)		15:59	42	10:51 (3)	15:36	50	11:05 (3)
21	08:47		10:03 (5)		07:41		08:29 (1)	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:59 (1)		08:19	09:39 (5)		09:05	09:50 (5)
	16:21	45	11:16 (3)		17:33	17	08:46 (1)	18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	18	09:17 (1)		15:57	45	10:52 (3)	15:36	50	11:06 (3)
22	08:46		10:04 (5)		07:38		08:30 (1)	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11		08:59 (1)		08:21	09:38 (5)		09:05	09:50 (5)
	16:23	42	11:16 (3)		17:36	15	08:45 (1)	18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	19	09:18 (1)		15:56	48	10:53 (3)	15:37	50	11:06 (3)
23	08:44		10:05 (5)		07:35		08:32 (1)	06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13		08:58 (1)		08:23	09:38 (5)		09:06	09:51 (5)
	16:26	38	11:15 (3)		17:38	10	08:42 (1)	18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	20	09:18 (1)		15:54	50	10:54 (3)	15:37	50	11:07 (3)
24	08:42		09:23 (4)		07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15		08:58 (1)		08:25	09:37 (5)		09:06	09:51 (5)
	16:28	37	11:15 (3)		17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	21	09:19 (1)		15:52	52	10:54 (3)	15:38	50	11:07 (3)
25	08:41		09:20 (4)		07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18		07:57 (1)		08:28	09:37 (5)		09:07	09:51 (5)
	16:30	34	11:14 (3)		17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	22	08:19 (1)		15:51	54	10:55 (3)	15:38	49	11:07 (3)
26	08:39		09:19 (4)		07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20		07:57 (1)		08:30	09:37 (5)		09:07	09:52 (5)
	16:32	34	11:13 (3)		17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	22	08:19 (1)		15:50	55	10:56 (3)	15:39	50	11:08 (3)
27	08:37		09:18 (4)		07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22		07:57 (1)		08:32	09:37 (5)		09:07	09:52 (5)
	16:35	33	11:11 (3)		17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	33	09:04 (4)		15:48	55	10:56 (3)	15:40	50	11:08 (3)
28	08:35		09:17 (4)		07:22			06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25		07:58 (1)		08:34	09:37 (5)		09:07	09:52 (5)
	16:37	28	11:08 (3)		17:50			18:53	21:01	22:02	22:28	21:50	20:34	19:08	16:48	37	09:07 (4)		15:47	56	10:56 (3)	15:41	51	11:09 (3)
29	08:33		09:16 (4)					07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27		08:00 (1)		08:35	09:37 (5)		09:07	09:53 (5)
	16:39	23	09:39 (4)					19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	37	09:08 (4)		15:46	58	10:57 (3)	15:42	52	11:10 (3)
30	08:31		09:15 (4)					07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:03 (1)		08:37	09:38 (5)		09:07	09:53 (5)
	16:41	24	09:39 (4)					19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	36	09:10 (4)		15:45	58	10:58 (3)	15:43	52	11:10 (3)
31	08:29		09:15 (4)					06:57		04:34		05:13	06:19		07:31		08:05 (1)					09:07		09:53 (5)
	16:44	25	09:40 (4)					19:59		22:07		21:44	20:26		16:41	34	09:10 (4)					15:44	52	11:10 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321					241			207				
Total, worst case		1459		602									331					1130			1626			
Sun reduction		0,13		0,22									0,31					0,15			0,13			
Oper. time red.		0,93		0,93									0,93					0,93			0,93			
Wind dir. red.		0,42		0,74									0,78					0,50			0,39			
Total reduction		0,05		0,15									0,22					0,07			0,05			
Total, real		74		91									74					81			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BR - Soles

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March			April			May			June		
1	09:06		08:27		07:19			06:54		19:19 (8)	05:34			04:33		20:41 (9)
	15:45		16:46		17:52			20:01	13	19:32 (8)	21:07			22:08	17	20:58 (9)
2	09:06		08:25		07:17			06:51		19:18 (8)	05:31			04:32		20:42 (9)
	15:47		16:48		17:54			20:03	16	19:34 (8)	21:09			22:10	15	20:57 (9)
3	09:05		08:23		07:14			06:48		19:16 (8)	05:29			04:30		20:43 (9)
	15:48		16:51		17:56			20:05	20	19:36 (8)	21:12			22:11	13	20:56 (9)
4	09:05		08:21		07:11			06:45		19:15 (8)	05:26			04:29		20:44 (9)
	15:49		16:53		17:59			20:07	23	19:38 (8)	21:14			22:13	12	20:56 (9)
5	09:04		08:18		07:09			06:42		19:15 (8)	05:24			04:28		20:46 (9)
	15:51		16:55		18:01			20:10	25	19:40 (8)	21:16			22:14	10	20:56 (9)
6	09:04		08:16		07:06			06:40		19:15 (8)	05:22			04:27		20:47 (9)
	15:52		16:58		18:03			20:12	25	19:40 (8)	21:18			22:15	7	20:54 (9)
7	09:03		08:14		07:03			06:37		19:14 (8)	05:19			04:26		20:49 (9)
	15:54		17:00		18:05			20:14	25	19:39 (8)	21:20			22:17	3	20:52 (9)
8	09:02		08:12		07:00			06:34		19:14 (8)	05:17		20:45 (9)	04:25		
	15:56		17:02		18:08			20:16	24	19:38 (8)	21:22	2	20:47 (9)	22:18		
9	09:02		08:09		06:58			06:31		19:15 (8)	05:15		20:42 (9)	04:25		
	15:57		17:05		18:10			20:19	23	19:38 (8)	21:25	7	20:49 (9)	22:19		
10	09:01		08:07		06:55			06:29		19:15 (8)	05:12		20:41 (9)	04:24		
	15:59		17:07		18:12			20:21	22	19:37 (8)	21:27	10	20:51 (9)	22:20		
11	09:00		08:05		06:52			06:26		19:15 (8)	05:10		20:39 (9)	04:23		
	16:01		17:10		18:14			20:23	20	19:35 (8)	21:29	14	20:53 (9)	22:21		
12	08:59		08:02		06:49			06:23		19:17 (8)	05:08		20:38 (9)	04:23		
	16:03		17:12		18:17			20:25	18	19:35 (8)	21:31	17	20:55 (9)	22:22		
13	08:58		08:00		06:47			06:20		19:18 (8)	05:06		20:37 (9)	04:22		
	16:05		17:14		18:19			20:27	14	19:32 (8)	21:33	20	20:57 (9)	22:23		
14	08:57		07:58		06:44			06:18		19:20 (8)	05:04		20:38 (9)	04:22		
	16:06		17:17		18:21			20:30	9	19:29 (8)	21:35	21	20:59 (9)	22:24		
15	08:55		07:55		06:41			06:15			05:02		20:37 (9)	04:21		
	16:08		17:19		18:23			20:32			21:37	23	21:00 (9)	22:24		
16	08:54		07:53		06:38			06:12			05:00		20:36 (9)	04:21		
	16:10		17:21		18:26			20:34			21:39	24	21:00 (9)	22:25		
17	08:53		07:50		06:36			06:10			04:58		20:36 (9)	04:21		
	16:12		17:24		18:28			20:36			21:41	24	21:00 (9)	22:25		
18	08:51		07:48		06:33			06:07			04:56		20:36 (9)	04:21		
	16:15		17:26		18:30			20:38			21:43	24	21:00 (9)	22:26		
19	08:50		07:45		06:30			06:04			04:54		20:36 (9)	04:21		
	16:17		17:28		18:32			20:41			21:45	25	21:01 (9)	22:26		
20	08:48		07:43		06:27			06:02			04:52		20:36 (9)	04:21		
	16:19		17:31		18:34			20:43			21:47	24	21:00 (9)	22:27		
21	08:47		07:40		06:24			05:59			04:50		20:37 (9)	04:21		
	16:21		17:33		18:37			20:45			21:49	24	21:01 (9)	22:27		
22	08:45		07:38		06:22			05:56			04:48		20:36 (9)	04:21		
	16:23		17:36		18:39			20:47			21:51	25	21:01 (9)	22:27		
23	08:44		07:35		06:19			05:54			04:46		20:36 (9)	04:21		
	16:25		17:38		18:41			20:49			21:53	24	21:00 (9)	22:27		
24	08:42		07:32		06:16			05:51			04:45		20:37 (9)	04:22		
	16:27		17:40		18:43			20:52			21:55	23	21:00 (9)	22:27		
25	08:40		07:30		06:13			05:49			04:43		20:38 (9)	04:22		
	16:30		17:42		18:46			20:54			21:57	23	21:01 (9)	22:27		
26	08:38		07:27		06:10			05:46			04:41		20:37 (9)	04:22		
	16:32		17:45		18:48			20:56			21:58	23	21:00 (9)	22:27		
27	08:37		07:25		06:08			05:44			04:40		20:38 (9)	04:23		
	16:34		17:47		18:50			20:58			22:00	22	21:00 (9)	22:27		
28	08:35		07:22		06:05			05:41			04:38		20:39 (9)	04:24		
	16:37		17:49		18:52			21:01			22:02	21	21:00 (9)	22:27		
29	08:33				07:02			05:39			04:37		20:40 (9)	04:24		
	16:39				19:54			21:03			22:04	20	21:00 (9)	22:27		
30	08:31				06:59		19:23 (8)	05:36			04:35		20:40 (9)	04:25		
	16:41				19:56	4	19:27 (8)	21:05			22:05	18	20:58 (9)	22:26		
31	08:29				06:56		19:20 (8)				04:34		20:40 (9)			
	16:44				19:59	9	19:29 (8)				22:07	18	20:58 (9)			
Potential sun hours	227		262		365			429			515			539		
Total, worst case						13			277			476			77	
Sun reduction						0,37			0,46			0,58			0,53	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,99			0,99			0,85			0,85	
Total reduction						0,34			0,43			0,46			0,42	
Total, real						4			118			219			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BR - Soles

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October	November	December
1	04:26		05:15		20:49 (9)	06:21	19:14 (8)	07:24	07:33	08:39
	22:26		21:41	15	21:04 (9)	20:23	20	19:34 (8)	18:59	16:38	15:43
2	04:27		05:17		20:50 (9)	06:23	19:14 (8)	07:26	07:36	08:40
	22:25		21:39	12	21:02 (9)	20:20	22	19:36 (8)	18:56	16:36	15:42
3	04:28		05:19		20:51 (9)	06:25	19:13 (8)	07:29	07:38	08:42
	22:25		21:37	10	21:01 (9)	20:18	23	19:36 (8)	18:54	16:33	15:41
4	04:29		05:21		20:53 (9)	06:27	19:12 (8)	07:31	07:40	08:44
	22:24		21:34	6	20:59 (9)	20:15	24	19:36 (8)	18:51	16:31	15:40
5	04:30		05:23			06:29	19:11 (8)	07:33	07:43	08:46
	22:23		21:32			20:12	25	19:36 (8)	18:48	16:29	15:39
6	04:31		20:54 (9)	05:25		06:31	19:11 (8)	07:35	07:45	08:47
	22:22	6	21:00 (9)	21:30		20:09	25	19:36 (8)	18:45	16:26	15:39
7	04:32		20:53 (9)	05:27		06:33	19:10 (8)	07:37	07:47	08:49
	22:21	8	21:01 (9)	21:28		20:07	25	19:35 (8)	18:43	16:24	15:38
8	04:33		20:52 (9)	05:30		06:36	19:10 (8)	07:39	07:49	08:50
	22:20	11	21:03 (9)	21:25		20:04	23	19:33 (8)	18:40	16:22	15:37
9	04:35		20:51 (9)	05:32		06:38	19:10 (8)	07:42	07:52	08:52
	22:19	12	21:03 (9)	21:23		20:01	20	19:30 (8)	18:37	16:20	15:37
10	04:36		20:50 (9)	05:34		06:40	19:11 (8)	07:44	07:54	08:53
	22:18	14	21:04 (9)	21:20		19:58	16	19:27 (8)	18:34	16:18	15:36
11	04:37		20:50 (9)	05:36		06:42	19:11 (8)	07:46	07:56	08:55
	22:17	16	21:06 (9)	21:18		19:55	14	19:25 (8)	18:32	16:16	15:36
12	04:39		20:49 (9)	05:38		06:44	19:12 (8)	07:48	07:59	08:56
	22:16	17	21:06 (9)	21:16		19:53	10	19:22 (8)	18:29	16:14	15:35
13	04:40		20:48 (9)	05:40		06:46	19:14 (8)	07:50	08:01	08:57
	22:15	19	21:07 (9)	21:13		19:50	5	19:19 (8)	18:26	16:12	15:35
14	04:42		20:49 (9)	05:42		06:48		07:53	08:03	08:58
	22:13	19	21:08 (9)	21:11		19:47		18:24	16:10	15:35
15	04:43		20:48 (9)	05:44		06:50		07:55	08:05	08:59
	22:12	20	21:08 (9)	21:08		19:44		18:21	16:08	15:35
16	04:45		20:47 (9)	05:47		06:52		07:57	08:08	09:00
	22:11	21	21:08 (9)	21:06		19:41		18:18	16:06	15:35
17	04:47		20:47 (9)	05:49		06:55		07:59	08:10	09:01
	22:09	22	21:09 (9)	21:03		19:39		18:16	16:04	15:35
18	04:48		20:46 (9)	05:51		06:57		08:01	08:12	09:02
	22:08	23	21:09 (9)	21:00		19:36		18:13	16:02	15:35
19	04:50		20:47 (9)	05:53		06:59		08:04	08:14	09:03
	22:06	23	21:10 (9)	20:58		19:33		18:10	16:00	15:35
20	04:52		20:47 (9)	05:55		07:01		08:06	08:16	09:04
	22:04	24	21:11 (9)	20:55		19:30		18:08	15:59	15:36
21	04:54		20:46 (9)	05:57		07:03		08:08	08:19	09:04
	22:03	24	21:10 (9)	20:53		19:27		18:05	15:57	15:36
22	04:55		20:46 (9)	05:59		07:05		08:10	08:21	09:05
	22:01	25	21:11 (9)	20:50		19:24		18:03	15:55	15:36
23	04:57		20:46 (9)	06:02		07:07		08:13	08:23	09:05
	21:59	24	21:10 (9)	20:47		19:22		18:00	15:54	15:37
24	04:59		20:46 (9)	06:04		07:09		08:15	08:25	09:06
	21:57	25	21:11 (9)	20:45		19:19		17:57	15:52	15:38
25	05:01		20:46 (9)	06:06		07:11		07:17	08:27	09:06
	21:55	25	21:11 (9)	20:42		19:16		16:55	15:51	15:38
26	05:03		20:47 (9)	06:08		07:14		07:20	08:29	09:06
	21:53	24	21:11 (9)	20:39		19:13		16:52	15:49	15:39
27	05:05		20:46 (9)	06:10		07:16		07:22	08:31	09:06
	21:51	24	21:10 (9)	20:37		19:10		16:50	15:48	15:40
28	05:07		20:47 (9)	06:12		07:18		07:24	08:33	09:07
	21:49	23	21:10 (9)	20:34		19:08		16:48	15:47	15:41
29	05:09		20:47 (9)	06:14		19:20 (8)	07:20		07:26	08:35	09:07
	21:47	23	21:10 (9)	20:31	10	19:30 (8)	19:05		16:45	15:45	15:42
30	05:11		20:48 (9)	06:16		19:17 (8)	07:22		07:29	08:37	09:07
	21:45	21	21:09 (9)	20:29	15	19:32 (8)	19:02		16:43	15:44	15:43
31	05:13		20:49 (9)	06:19		19:15 (8)			07:31		09:06
	21:43	18	21:07 (9)	20:26	19	19:34 (8)			16:40		15:44
Potential sun hours	538			474			386		321	241	207
Total, worst case		511			87			252			
Sun reduction		0,57			0,55			0,43			
Oper. time red.		0,93			0,93			0,93			
Wind dir. red.		0,85			0,92			0,99			
Total reduction		0,45			0,47			0,40			
Total, real		229			41			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BS - Stienu 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
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October		November		December		
1	09:07		10:02 (3)	08:27		09:05 (4)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25		07:34		08:08 (1)	08:39		09:47 (3)
	15:46	23	10:25 (3)	16:46	20	09:25 (4)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00		16:38	21	08:53 (4)	15:43	26	10:13 (3)
2	09:06		10:02 (3)	08:25		09:04 (4)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27		07:36		08:10 (1)	08:41		09:47 (3)
	15:47	24	10:26 (3)	16:48	21	09:25 (4)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57		16:36	20	08:54 (4)	15:42	26	10:13 (3)
3	09:06		10:02 (3)	08:23		09:04 (4)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29		07:38		08:36 (4)	08:43		09:48 (3)
	15:48	24	10:26 (3)	16:51	22	09:26 (4)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54		16:33	19	08:55 (4)	15:41	26	10:14 (3)
4	09:06		10:03 (3)	08:21		09:05 (4)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31		07:41		08:35 (4)	08:45		09:48 (3)
	15:50	24	10:27 (3)	16:53	21	09:26 (4)	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51		16:31	20	08:55 (4)	15:40	26	10:14 (3)
5	09:05		10:03 (3)	08:19		09:04 (4)	07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33		07:43		08:35 (4)	08:46		09:49 (3)
	15:51	25	10:28 (3)	16:56	22	09:26 (4)	18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:49		16:29	21	08:56 (4)	15:40	25	10:14 (3)
6	09:04		10:04 (3)	08:17		09:05 (4)	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35		07:45		08:35 (4)	08:48		09:50 (3)
	15:53	24	10:28 (3)	16:58	21	09:26 (4)	18:04	20:12	21:19	22:16	22:23	21:30	20:10	18:46		16:27	22	08:57 (4)	15:39	25	10:15 (3)
7	09:04		10:04 (3)	08:14		09:05 (4)	07:04	06:37	05:20	04:27	04:32	05:28	06:34	07:38		07:48		08:34 (4)	08:49		09:49 (3)
	15:54	25	10:29 (3)	17:00	20	09:25 (4)	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43		16:24	22	08:56 (4)	15:38	25	10:14 (3)
8	09:03		10:04 (3)	08:12		09:06 (4)	07:01	06:35	05:17	04:26	04:33	05:30	06:36	07:40		07:50		08:35 (4)	08:51		09:50 (3)
	15:56	26	10:30 (3)	17:03	19	09:25 (4)	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40		16:22	22	08:57 (4)	15:37	25	10:15 (3)
9	09:02		10:04 (3)	08:10		08:40 (1)	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42		07:52		08:35 (4)	08:52		09:51 (3)
	15:58	25	10:29 (3)	17:05	20	09:24 (4)	18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:38		16:20	21	08:56 (4)	15:37	24	10:15 (3)
10	09:01		10:04 (3)	08:08		08:38 (1)	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44		07:55		08:36 (4)	08:54		09:51 (3)
	15:59	26	10:30 (3)	17:07	21	09:23 (4)	18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35		16:18	20	08:56 (4)	15:36	24	10:15 (3)
11	09:00		10:05 (3)	08:05		08:35 (1)	06:53	06:26	05:10	04:24	04:38	05:36	06:42	07:46		07:57		08:36 (4)	08:55		09:53 (3)
	16:01	26	10:31 (3)	17:10	21	09:21 (4)	18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32		16:16	19	08:55 (4)	15:36	23	10:16 (3)
12	08:59		10:05 (3)	08:03		08:33 (1)	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49		07:59		08:37 (4)	08:56		09:53 (3)
	16:03	26	10:31 (3)	17:12	16	09:18 (4)	18:17	20:26	21:32	22:23	22:17	21:16	19:53	18:29		16:14	18	08:55 (4)	15:36	22	10:15 (3)
13	08:58		10:05 (3)	08:01		08:30 (1)	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51		08:01		08:39 (4)	08:58		09:53 (3)
	16:05	27	10:32 (3)	17:15	15	08:45 (1)	18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27		16:12	16	08:55 (4)	15:35	22	10:15 (3)
14	08:57		10:05 (3)	07:58		08:30 (1)	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53		08:04		08:41 (4)	08:59		09:54 (3)
	16:07	26	10:31 (3)	17:17	16	08:46 (1)	18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24		16:10	12	08:53 (4)	15:35	22	10:16 (3)
15	08:56		10:06 (3)	07:56		08:30 (1)	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55		08:06		08:44 (4)	09:00		09:55 (3)
	16:09	26	10:32 (3)	17:19	15	08:45 (1)	18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21		16:08	8	08:52 (4)	15:35	22	10:17 (3)
16	08:55		10:07 (3)	07:53		08:30 (1)	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57		08:08		08:46 (4)	09:01		09:55 (3)
	16:11	25	10:32 (3)	17:22	14	08:44 (1)	18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19		16:06	13	10:00 (3)	15:35	22	10:17 (3)
17	08:53		10:08 (3)	07:51		08:32 (1)	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00		08:10		09:49 (3)	09:02		09:56 (3)
	16:13	25	10:33 (3)	17:24	11	08:43 (1)	18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16		16:04	14	10:03 (3)	15:35	21	10:17 (3)
18	08:52		10:08 (3)	07:48		08:34 (1)	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02		08:13		09:47 (3)	09:03		09:57 (3)
	16:15	25	10:33 (3)	17:26	6	08:40 (1)	18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13		16:02	17	10:04 (3)	15:35	21	10:18 (3)
19	08:50		10:09 (3)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04		08:15		09:47 (3)	09:03		09:57 (3)
	16:17	24	10:33 (3)	17:29			18:33	20:41	21:46	22:27	22:07	20:58	19:33	18:11		16:01	19	10:06 (3)	15:35	21	10:18 (3)
20	08:49		10:09 (3)	07:43			06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06		08:17		09:46 (3)	09:04		09:57 (3)
	16:19	23	10:32 (3)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:31	18:08		15:59	20	10:06 (3)	15:36	21	10:18 (3)
21	08:47		10:10 (3)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09		08:19		09:46 (3)	09:05		09:58 (3)
	16:21	22	10:32 (3)	17:34			18:37	20:46	21:50	22:28	22:03	20:53	19:28	18:05		15:57	22	10:08 (3)	15:36	21	10:19 (3)
22	08:46		10:11 (3)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11		08:21		09:45 (3)	09:05		09:58 (3)
	16:23	20	10:31 (3)	17:36			18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03		15:56	23	10:08 (3)	15:37	21	10:19 (3)
23	08:44		10:12 (3)	07:36			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13		08:23		09:46 (3)	09:06		09:59 (3)
	16:26	19	10:31 (3)	17:38			18:42	20:50	21:54	22:28	22:00	20:48	19:22	18:00		15:54	24	10:10 (3)	15:37	21	10:20 (3)
24	08:42		10:14 (3)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15		09:03 (1)		08:25	09:45 (3)	09:06		09:59 (3)
	16:28	16	10:30 (3)	17:41			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	8	09:11 (1)		15:52	25	10:10 (3)	15:38	21	10:20 (3)
25	08:41		10:15 (3)	07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18		08:01 (1)		08:28		09:45 (3)	09:07		10:00 (3)
	16:30	14	10:29 (3)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	12	08:13 (1)		15:51	25	10:10 (3)	15:38	21	10:21 (3)
26	08:39		09:13 (4)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20		08:00 (1)		08:30		09:46 (3)	09:07		10:00 (3)
	16:32	13	10:27 (3)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	14	08:14 (1)		15:50	25	10:11 (3)	15:39	21	10:21 (3)
27	08:37		09:11 (4)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22		07:59 (1)		08:32		09:46 (3)	09:07		10:00 (3)
	16:35	8	09:19 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15	08:14 (1)		15:48	25	10:11 (3)	15:40	22	10:22 (3)
28	08:35		09:09 (4)	07:22			06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:25		07:59 (1)		08:34		09:46 (3)	09:07		10:01 (3)
	16:37	12	09:21 (4)	17:50			18:53	21:01	22:03	22:28	21:50	20:35	19:08	16:48	16	08:15 (1)		15:47	26	10:12 (3)	15:41	21	10:22 (3)
29	08:33		09:07 (4)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27		08:00 (1)		08:35		09:46 (3)	09:07		10:01 (3)
	16:39	16	09:23 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15	08:15 (1)		15:46	26	10:12 (3)	15:42	22	10:23 (3)
30	08:31		09:05 (4)				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29		08:03 (1)		08:37		09:47 (3)	09:07		10:02 (3)
	16:41	18	09:23 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	19	08:49 (4)		15:45	26	10:13 (3)	15:43	22	10:24 (3)
31	08:29		09:05 (4)				06:57		04:34		05:13	06:19		07:32		08:05 (1)					09:07		10:01 (3)
	16:44	19	09:24 (4)				19:59		22:07		21:44	20:26		16:41	21	08:51 (4)					15:44	23	10:24 (3)
Potential sun hours	227		262		365	429	515	539	538	474	386	321		241		207							
Total, worst case	676		321									120		611		705							
Sun reduction	0,13		0,22									0,31		0,15		0,13							
Oper. time red.	0,93		0,93									0,93		0,93		0,93							
Wind dir. red.	0,50		0,75									0,80		0,59		0,47							
Total reduction	0,06		0,15									0,23		0,08		0,06							
Total, real	41		49									27		51		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BT - Straujupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:49	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:05	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:14	05:49	04:43	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:05	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		07:00	05:36	04:36	04:26	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BU - Sunuki

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March	April	May	June	July	August	September	October	November			December		
1	09:07		09:50 (4)	08:27		09:14 (1)	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34			08:39		09:28 (4)
	15:46	26	11:24 (3)	16:46	16	09:30 (1)	17:52	20:01	21:08	22:09	22:26	21:42	20:24	19:00	16:38			15:43	20	09:48 (4)
2	09:06		09:49 (4)	08:25		09:15 (1)	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36			08:41		09:28 (4)
	15:47	28	11:24 (3)	16:48	14	09:29 (1)	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36			15:42	29	11:04 (3)
3	09:06		09:48 (4)	08:23		09:17 (1)	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38			08:43		09:29 (4)
	15:48	29	11:23 (3)	16:51	11	09:28 (1)	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33			15:41	31	11:06 (3)
4	09:06		09:48 (4)	08:21		09:19 (1)	07:12	06:46	05:27	04:29	04:29	05:21	06:27	07:31	07:41			08:45		09:30 (4)
	15:50	30	11:24 (3)	16:53	7	09:26 (1)	17:59	20:08	21:14	22:13	22:25	21:35	20:15	18:51	16:31			15:40	31	11:07 (3)
5	09:05		09:47 (4)	08:19			07:09	06:43	05:24	04:28	04:30	05:24	06:30	07:33	07:43			08:46		09:31 (4)
	15:51	31	11:24 (3)	16:56			18:01	20:10	21:16	22:15	22:24	21:33	20:13	18:48	16:29			15:40	32	11:09 (3)
6	09:04		09:46 (4)	08:17			07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45			08:48		09:32 (4)
	15:53	32	11:24 (3)	16:58			18:03	20:12	21:19	22:16	22:23	21:30	20:10	18:46	16:27			15:39	32	11:10 (3)
7	09:04		09:46 (4)	08:14			07:04	06:37	05:19	04:26	04:32	05:28	06:34	07:38	07:48		08:49 (1)	08:49		09:33 (4)
	15:54	32	11:24 (3)	17:00			18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:24	7	08:56 (1)	15:38	31	11:10 (3)
8	09:03		09:46 (4)	08:12			07:01	06:34	05:17	04:26	04:33	05:30	06:36	07:40	07:50		08:47 (1)	08:51		09:35 (4)
	15:56	31	11:23 (3)	17:03			18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	12	08:59 (1)	15:37	30	11:11 (3)
9	09:02		09:45 (4)	08:10			06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52		08:46 (1)	08:52		09:37 (4)
	15:58	30	11:22 (3)	17:05			18:10	20:19	21:25	22:20	22:20	21:23	20:01	18:37	16:20	13	08:59 (1)	15:37	29	11:13 (3)
10	09:01		09:45 (4)	08:08			06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:55		08:45 (1)	08:54		09:38 (4)
	15:59	29	11:21 (3)	17:07			18:13	20:21	21:27	22:21	22:19	21:21	19:59	18:35	16:18	16	09:01 (1)	15:36	28	11:13 (3)
11	09:00		09:45 (4)	08:05			06:53	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57		08:44 (1)	08:55		09:40 (4)
	16:01	23	11:18 (3)	17:10			18:15	20:23	21:29	22:22	22:18	21:19	19:56	18:32	16:16	17	09:01 (1)	15:36	26	11:14 (3)
12	08:59		09:45 (4)	08:03			06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:49	07:59		08:44 (1)	08:56		09:41 (4)
	16:03	21	10:06 (4)	17:12			18:17	20:26	21:31	22:23	22:17	21:16	19:53	18:29	16:14	25	09:36 (4)	15:36	25	11:14 (3)
13	08:58		09:45 (4)	08:00			06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01		08:45 (1)	08:58		10:52 (3)
	16:05	22	10:07 (4)	17:15			18:19	20:28	21:34	22:23	22:15	21:14	19:50	18:27	16:12	30	09:39 (4)	15:35	23	11:15 (3)
14	08:57		09:45 (4)	07:58			06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:04		08:44 (1)	08:59		10:53 (3)
	16:07	22	10:07 (4)	17:17			18:22	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:10	34	09:40 (4)	15:35	23	11:16 (3)
15	08:56		09:46 (4)	07:56			06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06		08:45 (1)	09:00		10:54 (3)
	16:09	22	10:08 (4)	17:19			18:24	20:32	21:38	22:25	22:13	21:09	19:45	18:21	16:08	35	09:42 (4)	15:35	22	11:16 (3)
16	08:55		09:45 (4)	07:53			06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08		08:46 (1)	09:01		10:54 (3)
	16:11	24	10:09 (4)	17:22			18:26	20:34	21:40	22:26	22:11	21:06	19:42	18:19	16:06	37	09:43 (4)	15:35	23	11:17 (3)
17	08:53		09:46 (4)	07:51			06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10		08:49 (1)	09:02		10:54 (3)
	16:13	24	10:10 (4)	17:24			18:28	20:37	21:42	22:26	22:10	21:04	19:39	18:16	16:04	35	09:44 (4)	15:35	24	11:18 (3)
18	08:52		09:46 (4)	07:48			06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:13		08:51 (1)	09:03		10:55 (3)
	16:15	24	10:10 (4)	17:26			18:30	20:39	21:44	22:27	22:08	21:01	19:36	18:13	16:02	32	09:44 (4)	15:35	23	11:18 (3)
19	08:50		09:46 (4)	07:46			06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15		08:54 (1)	09:03		10:55 (3)
	16:17	24	10:10 (4)	17:29			18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	30	09:45 (4)	15:35	24	11:19 (3)
20	08:49		09:47 (4)	07:43			06:28	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17		08:56 (1)	09:04		10:55 (3)
	16:19	23	10:10 (4)	17:31			18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	28	09:45 (4)	15:36	24	11:19 (3)
21	08:47		09:23 (1)	07:41			06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:09	08:19		08:59 (1)	09:05		10:56 (3)
	16:21	25	10:10 (4)	17:33			18:37	20:45	21:50	22:28	22:03	20:53	19:28	18:05	15:57	25	09:46 (4)	15:36	24	11:20 (3)
22	08:46		09:21 (1)	07:38			06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21		09:23 (4)	09:05		10:56 (3)
	16:23	28	10:10 (4)	17:36			18:39	20:48	21:52	22:28	22:01	20:51	19:25	18:03	15:56	23	09:46 (4)	15:37	24	11:20 (3)
23	08:44		09:19 (1)	07:35			06:19	05:54	04:47	04:21	04:58	06:02	07:08	08:13	08:23		09:23 (4)	09:06		10:57 (3)
	16:25	30	10:10 (4)	17:38			18:41	20:50	21:54	22:28	22:00	20:48	19:22	18:00	15:54	24	09:47 (4)	15:37	24	11:21 (3)
24	08:42		09:17 (1)	07:33			06:16	05:52	04:45	04:22	04:59	06:04	07:10	08:15	08:25		09:23 (4)	09:06		10:57 (3)
	16:28	32	10:10 (4)	17:40			18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52	24	09:47 (4)	15:38	24	11:21 (3)
25	08:41		09:15 (1)	07:30			06:14	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:28		09:23 (4)	09:07		10:58 (3)
	16:30	35	10:10 (4)	17:43			18:46	20:54	21:57	22:28	21:56	20:43	19:16	16:55	15:51	24	09:47 (4)	15:38	23	11:21 (3)
26	08:39		09:13 (1)	07:28			06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:30		09:24 (4)	09:07		10:58 (3)
	16:32	37	10:10 (4)	17:45			18:48	20:57	21:59	22:28	21:54	20:40	19:14	16:53	15:50	24	09:48 (4)	15:39	23	11:21 (3)
27	08:37		09:12 (1)	07:25			06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:32		09:25 (4)	09:07		10:59 (3)
	16:35	35	10:09 (4)	17:47			18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	23	09:48 (4)	15:40	23	11:22 (3)
28	08:35		09:12 (1)	07:22			06:05	05:41	04:38	04:24	05:07	06:13	07:18	07:25	08:34		09:25 (4)	09:07		10:59 (3)
	16:37	34	10:08 (4)	17:50			18:53	21:01	22:03	22:28	21:50	20:34	19:08	16:48	15:47	22	09:47 (4)	15:41	23	11:22 (3)
29	08:33		09:13 (1)				07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35		09:25 (4)	09:07		11:00 (3)
	16:39	30	10:07 (4)				19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	22	09:47 (4)	15:42	23	11:23 (3)
30	08:31		09:12 (1)				07:00	05:36	04:36	04:25	05:11	06:17	07:23	07:29	08:37		09:27 (4)	09:07		11:01 (3)
	16:41	24	10:04 (4)				19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	21	09:48 (4)	15:43	22	11:23 (3)
31	08:29		09:13 (1)				06:57		04:34		05:13	06:19		07:32				09:07		09:50 (4)
	16:44	17	09:30 (1)				19:59		22:07		21:44	20:26		16:41				15:44	24	11:23 (3)
Potential sun hours	227			262			365	429	515	539	538	475	386	321	241			207		
Total, worst case		854			48											583			787	
Sun reduction		0,13			0,22											0,15			0,13	
Oper. time red.		0,93			0,93											0,93			0,93	
Wind dir. red.		0,52			0,68											0,60			0,31	
Total reduction		0,06			0,14											0,09			0,04	
Total, real		54			7											50			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	(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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BV - Svetupe

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:33	08:39
	15:46	16:46	17:52	20:01	21:07	22:08	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:09	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:42
	15:48	16:51	17:56	20:05	21:12	22:11	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:30	04:29	05:21	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:18	07:09	06:43	05:24	04:28	04:30	05:24	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	22:15	22:22	21:30	20:09	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:50
	15:56	17:03	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:18	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:56	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:40	06:46	07:50	08:01	08:57
	16:05	17:15	18:19	20:27	21:33	22:23	22:15	21:13	19:50	18:26	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:13	21:11	19:47	18:24	16:10	15:35
15	08:55	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:50	07:55	08:05	08:59
	16:09	17:19	18:24	20:32	21:37	22:24	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:41	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:51	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:43	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:14	09:03
	16:17	17:29	18:32	20:41	21:45	22:26	22:06	20:58	19:33	18:11	16:01	15:36
20	08:48	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47	22:27	22:04	20:55	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:27	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:27	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53	22:27	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:09	08:15	08:25	09:06
	16:28	17:40	18:43	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:27	21:55	20:42	19:16	16:55	15:51	15:38
26	08:38	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	21:59	22:27	21:53	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:58	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:47	20:31	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:05	22:26	21:45	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:06
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BW - Tamisari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:07		10:05 (2)	08:27		10:13 (2)	07:20		07:53 (5)	06:54		07:51 (3)	05:34		06:30 (1)	04:33		
	15:46	19	10:24 (2)	16:46	24	10:37 (2)	17:52	14	08:07 (5)	20:01	28	08:19 (3)	21:08	42	08:16 (3)	22:09		
2	09:06		10:06 (2)	08:25		10:14 (2)	07:17		07:50 (5)	06:51		07:48 (3)	05:31		07:39 (3)	04:32		
	15:47	19	10:25 (2)	16:49	22	10:36 (2)	17:54	18	08:08 (5)	20:04	33	08:21 (3)	21:10	35	08:14 (3)	22:10		
3	09:06		10:05 (2)	08:23		10:16 (2)	07:14		07:48 (5)	06:48		07:22 (4)	05:29		07:39 (3)	04:31		
	15:48	21	10:26 (2)	16:51	18	10:34 (2)	17:57	22	08:10 (5)	20:06	49	08:22 (3)	21:12	33	08:12 (3)	22:12		
4	09:05		10:05 (2)	08:21		10:19 (2)	07:12		07:48 (5)	06:46		07:20 (4)	05:27		07:41 (3)	04:30		
	15:50	22	10:27 (2)	16:53	14	10:33 (2)	17:59	23	08:11 (5)	20:08	57	08:24 (3)	21:14	29	08:10 (3)	22:13		
5	09:05		10:06 (2)	08:19		10:23 (2)	07:09		07:46 (5)	06:43		07:17 (4)	05:24		07:43 (3)	04:29		
	15:51	23	10:29 (2)	16:56	4	10:27 (2)	18:01	26	08:12 (5)	20:10	64	08:25 (3)	21:16	25	08:08 (3)	22:15		
6	09:04		10:06 (2)	08:17			07:06		07:45 (5)	06:40		07:15 (4)	05:22		07:46 (3)	04:28		
	15:53	23	10:29 (2)	16:58			18:04	27	08:12 (5)	20:12	70	08:26 (3)	21:19	19	08:05 (3)	22:16		
7	09:04		10:06 (2)	08:14			07:04		07:44 (5)	06:37		07:15 (4)	05:20		07:50 (3)	04:27		
	15:54	24	10:30 (2)	17:00			18:06	28	08:12 (5)	20:15	72	08:27 (3)	21:21	11	08:01 (3)	22:17		
8	09:03		10:05 (2)	08:12			07:01		07:44 (5)	06:35		07:13 (4)	05:17			04:26		
	15:56	25	10:30 (2)	17:03			18:08	28	08:12 (5)	20:17	75	08:28 (3)	21:23			22:18		
9	09:02		10:05 (2)	08:10			06:58		07:44 (5)	06:32		07:12 (4)	05:15			04:25		
	15:58	26	10:31 (2)	17:05			18:10	29	08:13 (5)	20:19	76	08:28 (3)	21:25			22:19		
10	09:01		10:05 (2)	08:08			06:55		07:44 (5)	06:29		07:11 (4)	05:13			04:24		
	15:59	28	10:33 (2)	17:08			18:13	28	08:12 (5)	20:21	77	08:28 (3)	21:27			22:20		
11	09:00		10:05 (2)	08:05			06:53		07:44 (5)	06:26		07:11 (4)	05:11			04:24		
	16:01	29	10:34 (2)	17:10			18:15	28	08:12 (5)	20:23	78	08:29 (3)	21:29			22:21		
12	08:59		10:05 (2)	08:03			06:50		07:44 (5)	06:24		07:11 (4)	05:08			04:23		
	16:03	29	10:34 (2)	17:12			18:17	27	08:11 (5)	20:26	77	08:28 (3)	21:31			22:22		
13	08:58		10:05 (2)	08:00			06:47		07:44 (5)	06:21		07:10 (4)	05:06			04:23		
	16:05	30	10:35 (2)	17:15			18:19	26	08:10 (5)	20:28	78	08:28 (3)	21:34			22:23		
14	08:57		10:05 (2)	07:58			06:44		07:45 (5)	06:18		07:11 (4)	05:04			04:22		
	16:07	30	10:35 (2)	17:17			18:22	24	08:09 (5)	20:30	78	08:29 (3)	21:36			22:24		
15	08:56		10:05 (2)	07:56			06:41		07:46 (5)	06:15		07:10 (4)	05:02			04:22		
	16:09	32	10:37 (2)	17:19			18:24	22	08:08 (5)	20:32	78	08:28 (3)	21:38			22:25		
16	08:55		10:05 (2)	07:53			06:39		07:47 (5)	06:13		07:11 (4)	05:00			04:21		
	16:11	32	10:37 (2)	17:22			18:26	19	08:06 (5)	20:34	78	08:29 (3)	21:40			22:25		
17	08:53		10:05 (2)	07:51			06:36		07:49 (5)	06:10		06:37 (1)	04:58			04:21		
	16:13	32	10:37 (2)	17:24			18:28	14	08:03 (5)	20:37	79	08:28 (3)	21:42			22:26		
18	08:52		10:06 (2)	07:48			06:33		07:52 (5)	06:07		06:34 (1)	04:56			04:21		
	16:15	32	10:38 (2)	17:26			18:30	6	07:58 (5)	20:39	83	08:27 (3)	21:44			22:26		
19	08:50		10:06 (2)	07:46			06:30			06:05		06:32 (1)	04:54			04:21		
	16:17	33	10:39 (2)	17:29			18:33			20:41	85	08:27 (3)	21:46			22:27		
20	08:49		10:06 (2)	07:43			06:28			06:02		06:29 (1)	04:52			04:21		
	16:19	33	10:39 (2)	17:31			18:35			20:43	87	08:26 (3)	21:48			22:27		
21	08:47		10:06 (2)	07:41			06:25			05:59		06:27 (1)	04:50			04:21		
	16:21	33	10:39 (2)	17:34			18:37			20:45	88	08:26 (3)	21:50			22:28		
22	08:46		10:06 (2)	07:38			06:22			05:57		06:24 (1)	04:48			04:21		
	16:23	33	10:39 (2)	17:36			18:39			20:48	85	08:25 (3)	21:52			22:28		
23	08:44		10:06 (2)	07:35			06:19			05:54		06:24 (1)	04:47			04:22		
	16:26	34	10:40 (2)	17:38			18:42			20:50	75	08:25 (3)	21:53			22:28		
24	08:42		10:07 (2)	07:33			06:16			05:52		06:23 (1)	04:45			04:22		
	16:28	33	10:40 (2)	17:41			18:44			20:52	71	08:23 (3)	21:55			22:28		
25	08:41		10:07 (2)	07:30			06:14			05:49		06:24 (1)	04:43			04:22		
	16:30	33	10:40 (2)	17:43			18:46			20:54	69	08:23 (3)	21:57			22:28		
26	08:39		10:08 (2)	07:28			06:11			05:46		06:24 (1)	04:42			04:23		
	16:32	32	10:40 (2)	17:45			18:48			20:57	67	08:22 (3)	21:59			22:28		
27	08:37		10:09 (2)	07:25			06:08			05:44		06:24 (1)	04:40			04:23		
	16:35	31	10:40 (2)	17:47			18:50			20:59	65	08:21 (3)	22:01			22:28		
28	08:35		10:10 (2)	07:22		07:58 (5)	06:05			05:41		06:25 (1)	04:39			04:24		
	16:37	30	10:40 (2)	17:50	4	08:02 (5)	18:53			21:01	61	08:20 (3)	22:02			22:27		
29	08:33		10:09 (2)				07:02			05:39		06:26 (1)	04:37			04:25		
	16:39	30	10:39 (2)				19:55			21:03	57	08:19 (3)	22:04			22:27		
30	08:31		10:11 (2)				07:00		08:00 (3)	05:36		06:27 (1)	04:36			04:25		
	16:42	27	10:38 (2)				19:57	12	08:12 (3)	21:05	51	08:17 (3)	22:06			22:27		
31	08:29		10:12 (2)				06:57		07:55 (3)				04:34					
	16:44	26	10:38 (2)				19:59	22	08:17 (3)				22:07					
Potential sun hours	227			262			365			429			515			539		
Total, worst case		884			86			443			2091			194				
Sun reduction		0,13			0,22			0,37			0,46			0,58				
Oper. time red.		0,93			0,93			0,93			0,93			0,93				
Wind dir. red.		0,48			0,50			0,93			0,99			1,00				
Total reduction		0,06			0,10			0,32			0,43			0,54				
Total, real		51			9			140			891			104				

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BW - Tamisari

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August			September			October			November			December		
1	04:26		05:15			06:21		07:10 (4)	07:25		08:23 (5)	07:34			08:39		09:47 (2)
	22:26		21:42			20:24	78	08:28 (3)	19:00	27	08:50 (5)	16:38			15:44	29	10:16 (2)
2	04:27		05:17			06:23		07:10 (4)	07:27		08:22 (5)	07:36			08:41		09:48 (2)
	22:26		21:39			20:21	77	08:27 (3)	18:57	28	08:50 (5)	16:36			15:42	28	10:16 (2)
3	04:28		05:19			06:25		07:10 (4)	07:29		08:22 (5)	07:38			08:43		09:49 (2)
	22:25		21:37			20:18	76	08:26 (3)	18:54	28	08:50 (5)	16:34			15:41	27	10:16 (2)
4	04:29		05:22			06:27		07:10 (4)	07:31		08:21 (5)	07:41			08:44		09:50 (2)
	22:24		21:35			20:15	75	08:25 (3)	18:51	29	08:50 (5)	16:31			15:41	26	10:16 (2)
5	04:30		05:24			06:30		07:11 (4)	07:33		08:21 (5)	07:43			08:46		09:51 (2)
	22:24		21:33			20:13	72	08:23 (3)	18:49	28	08:49 (5)	16:29			15:40	25	10:16 (2)
6	04:31		05:26		07:58 (3)	06:32		07:12 (4)	07:35		08:20 (5)	07:45		09:52 (2)	08:48		09:51 (2)
	22:23		21:30	14	08:12 (3)	20:10	69	08:22 (3)	18:46	29	08:49 (5)	16:27	6	09:58 (2)	15:39	24	10:15 (2)
7	04:32		05:28		07:54 (3)	06:34		07:12 (4)	07:38		08:21 (5)	07:48		09:48 (2)	08:49		09:52 (2)
	22:22		21:28	21	08:15 (3)	20:07	64	08:20 (3)	18:43	28	08:49 (5)	16:25	15	10:03 (2)	15:38	23	10:15 (2)
8	04:34		05:30		07:52 (3)	06:36		07:14 (4)	07:40		08:21 (5)	07:50		09:47 (2)	08:51		09:53 (2)
	22:21		21:26	26	08:18 (3)	20:04	58	08:19 (3)	18:40	27	08:48 (5)	16:22	18	10:05 (2)	15:38	22	10:15 (2)
9	04:35		05:32		07:50 (3)	06:38		07:16 (4)	07:42		08:22 (5)	07:52		09:45 (2)	08:52		09:54 (2)
	22:20		21:23	30	08:20 (3)	20:01	50	08:17 (3)	18:38	24	08:46 (5)	16:20	22	10:07 (2)	15:37	21	10:15 (2)
10	04:36		05:34		07:48 (3)	06:40		07:22 (4)	07:44		08:22 (5)	07:55		09:44 (2)	08:54		09:55 (2)
	22:19		21:21	34	08:22 (3)	19:59	35	08:15 (3)	18:35	23	08:45 (5)	16:18	24	10:08 (2)	15:37	20	10:15 (2)
11	04:38		05:36		07:47 (3)	06:42		07:43 (3)	07:46		08:24 (5)	07:57		09:43 (2)	08:55		09:56 (2)
	22:18		21:18	36	08:23 (3)	19:56	29	08:12 (3)	18:32	20	08:44 (5)	16:16	26	10:09 (2)	15:36	19	10:15 (2)
12	04:39		05:38		06:37 (1)	06:44		07:46 (3)	07:49		08:25 (5)	07:59		09:42 (2)	08:56		09:57 (2)
	22:17		21:16	45	08:24 (3)	19:53	23	08:09 (3)	18:29	16	08:41 (5)	16:14	28	10:10 (2)	15:36	17	10:14 (2)
13	04:41		05:41		06:35 (1)	06:46		07:50 (3)	07:51		08:28 (5)	08:01		09:41 (2)	08:58		09:57 (2)
	22:15		21:14	53	08:26 (3)	19:50	14	08:04 (3)	18:27	10	08:38 (5)	16:12	30	10:11 (2)	15:35	17	10:14 (2)
14	04:42		05:43		06:33 (1)	06:49			07:53			08:04		09:41 (2)	08:59		09:59 (2)
	22:14		21:11	59	08:27 (3)	19:47			18:24			16:10	31	10:12 (2)	15:35	16	10:15 (2)
15	04:44		05:45		06:32 (1)	06:51			07:55			08:06		09:42 (2)	09:00		10:00 (2)
	22:13		21:09	63	08:28 (3)	19:45			18:21			16:08	31	10:13 (2)	15:35	15	10:15 (2)
16	04:45		05:47		06:31 (1)	06:53			07:57			08:08		09:41 (2)	09:01		10:01 (2)
	22:11		21:06	65	08:28 (3)	19:42			18:19			16:06	32	10:13 (2)	15:35	14	10:15 (2)
17	04:47		05:49		06:31 (1)	06:55			08:00			08:10		09:41 (2)	09:02		10:02 (2)
	22:10		21:03	68	08:29 (3)	19:39			18:16			16:04	33	10:14 (2)	15:35	13	10:15 (2)
18	04:49		05:51		06:30 (1)	06:57			08:02			08:13		09:41 (2)	09:03		10:03 (2)
	22:08		21:01	69	08:29 (3)	19:36			18:13			16:02	33	10:14 (2)	15:35	12	10:15 (2)
19	04:50		05:53		06:30 (1)	06:59			08:04			08:15		09:41 (2)	09:03		10:03 (2)
	22:06		20:58	71	08:30 (3)	19:33			18:11			16:01	34	10:15 (2)	15:36	11	10:14 (2)
20	04:52		05:55		06:30 (1)	07:01			08:06			08:17		09:41 (2)	09:04		10:04 (2)
	22:05		20:56	77	08:30 (3)	19:30			18:08			15:59	33	10:14 (2)	15:36	11	10:15 (2)
21	04:54		05:58		06:30 (1)	07:03			08:09			08:19		09:42 (2)	09:05		10:05 (2)
	22:03		20:53	85	08:31 (3)	19:28			18:06			15:57	33	10:15 (2)	15:36	11	10:16 (2)
22	04:56		06:00		06:32 (1)	07:05			08:11			08:21		09:42 (2)	09:05		10:05 (2)
	22:01		20:50	88	08:31 (3)	19:25			18:03			15:56	33	10:15 (2)	15:37	11	10:16 (2)
23	04:58		06:02		06:34 (1)	07:08			08:13			08:23		09:42 (2)	09:06		10:06 (2)
	21:59		20:48	87	08:31 (3)	19:22			18:00			15:54	33	10:15 (2)	15:37	11	10:17 (2)
24	05:00		06:04		06:36 (1)	07:10			08:15			08:25		09:43 (2)	09:06		10:06 (2)
	21:58		20:45	85	08:31 (3)	19:19			17:58			15:53	32	10:15 (2)	15:38	11	10:17 (2)
25	05:01		06:06		06:38 (1)	07:12			07:18			08:27		09:43 (2)	09:07		10:06 (2)
	21:56		20:43	82	08:31 (3)	19:16			16:55			15:51	32	10:15 (2)	15:38	12	10:18 (2)
26	05:03		06:08		06:40 (1)	07:14		08:31 (5)	07:20			08:29		09:44 (2)	09:07		10:06 (2)
	21:54		20:40	78	08:31 (3)	19:14	13	08:44 (5)	16:53			15:50	32	10:16 (2)	15:39	12	10:18 (2)
27	05:05		06:10		07:13 (4)	07:16		08:29 (5)	07:22			08:31		09:44 (2)	09:07		10:06 (2)
	21:52		20:37	77	08:30 (3)	19:11	18	08:47 (5)	16:50			15:48	32	10:16 (2)	15:40	13	10:19 (2)
28	05:07		06:13		07:12 (4)	07:18		08:27 (5)	07:25			08:33		09:45 (2)	09:07		10:06 (2)
	21:50		20:34	78	08:30 (3)	19:08	21	08:48 (5)	16:48			15:47	30	10:15 (2)	15:41	14	10:20 (2)
29	05:09		06:15		07:11 (4)	07:20		08:25 (5)	07:27			08:35		09:45 (2)	09:07		10:06 (2)
	21:48		20:32	78	08:29 (3)	19:05	24	08:49 (5)	16:45			15:46	30	10:15 (2)	15:42	15	10:21 (2)
30	05:11		06:17		07:11 (4)	07:23		08:24 (5)	07:29			08:37		09:47 (2)	09:07		10:05 (2)
	21:46		20:29	78	08:29 (3)	19:02	25	08:49 (5)	16:43			15:45	29	10:16 (2)	15:43	17	10:22 (2)
31	05:13		06:19		07:11 (4)				07:31						09:07		10:06 (2)
	21:44		20:26	77	08:28 (3)				16:41						15:44	17	10:23 (2)
Potential sun hours	538		474			386			321			241			207		
Total, worst case				1624			821			317			712			534	
Sun reduction				0,55			0,43			0,31			0,15			0,13	
Oper. time red.				0,93			0,93			0,93			0,93			0,93	
Wind dir. red.				0,99			0,99			0,92			0,48			0,48	
Total reduction				0,50			0,39			0,26			0,07			0,06	
Total, real				819			324			83			49			30	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BX - Tomsoni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May		June		July		August	September	October	November	December
1	09:07	08:27	07:20	06:54	05:34		04:33		04:26		05:31 (2)	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:08		22:09	29	05:56 (2)	31	06:02 (2)	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32		04:32		05:27 (2)		05:31 (2)	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10		22:10	29	05:56 (2)	32	06:03 (2)	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29		04:31		05:26 (2)		05:32 (2)	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12		22:12	31	05:57 (2)	31	06:03 (2)	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27		04:30		05:26 (2)		05:32 (2)	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14		22:13	31	05:57 (2)	31	06:03 (2)	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24		04:29		05:26 (2)		05:32 (2)	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16		22:14	31	05:57 (2)	31	06:03 (2)	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22		04:28		05:26 (2)		05:32 (2)	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18		22:16	31	05:57 (2)	31	06:03 (2)	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20		04:27		05:27 (2)		05:33 (2)	05:28	06:34	07:38	07:48	08:49
	15:54	17:01	18:06	20:15	21:21		22:17	31	05:58 (2)	30	06:03 (2)	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17		04:26		05:27 (2)		05:33 (2)	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23		22:18	31	05:58 (2)	30	06:03 (2)	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15		04:25		05:26 (2)		05:34 (2)	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25		22:19	32	05:58 (2)	30	06:04 (2)	21:23	20:01	18:38	16:20	15:37
10	09:01	08:08	06:55	06:29	05:13		04:24		05:27 (2)		05:34 (2)	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27		22:20	31	05:58 (2)	30	06:04 (2)	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11		04:24		05:27 (2)		05:34 (2)	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29		22:21	31	05:58 (2)	30	06:04 (2)	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09		04:23		05:27 (2)		05:34 (2)	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31		22:22	32	05:59 (2)	29	06:03 (2)	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06		04:23		05:28 (2)		05:35 (2)	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33		22:23	31	05:59 (2)	29	06:04 (2)	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04		04:22		05:27 (2)		05:35 (2)	05:43	06:49	07:53	08:04	08:59
	16:07	17:17	18:22	20:30	21:36		22:24	32	05:59 (2)	28	06:03 (2)	21:11	19:47	18:24	16:10	15:35
15	08:56	07:56	06:42	06:16	05:02		04:22		05:28 (2)		05:35 (2)	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38		22:25	31	05:59 (2)	28	06:03 (2)	21:09	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00		04:22		05:28 (2)		05:36 (2)	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40		22:25	31	05:59 (2)	27	06:03 (2)	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58		04:21		05:28 (2)		05:36 (2)	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42		22:26	32	06:00 (2)	26	06:02 (2)	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56		04:21		05:29 (2)		05:37 (2)	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44		22:26	31	06:00 (2)	25	06:02 (2)	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	05:35 (2)	04:21		05:29 (2)		05:38 (2)	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46 9	05:44 (2)	22:27	31	06:00 (2)	23	06:01 (2)	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	05:34 (2)	04:21		05:29 (2)		05:39 (2)	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48 13	05:47 (2)	22:27	31	06:00 (2)	22	06:01 (2)	20:56	19:31	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	05:32 (2)	04:21		05:29 (2)		05:40 (2)	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50 16	05:48 (2)	22:27	31	06:00 (2)	20	06:00 (2)	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	05:30 (2)	04:22		05:30 (2)		05:41 (2)	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51 19	05:49 (2)	22:28	31	06:01 (2)	18	05:59 (2)	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	05:30 (2)	04:22		05:30 (2)		05:43 (2)	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53 21	05:51 (2)	22:28	31	06:01 (2)	15	05:58 (2)	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	05:28 (2)	04:22		05:30 (2)		05:45 (2)	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55 23	05:51 (2)	22:28	31	06:01 (2)	11	05:56 (2)	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:43	05:28 (2)	04:23		05:30 (2)		05:47 (2)	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57 24	05:52 (2)	22:28	32	06:02 (2)	6	05:53 (2)	20:43	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	05:28 (2)	04:23		05:30 (2)			06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:57	21:59 25	05:53 (2)	22:28	31	06:01 (2)			20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	05:27 (2)	04:24		05:31 (2)			06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01 26	05:53 (2)	22:28	31	06:02 (2)			20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:42	04:39	05:27 (2)	04:24		05:30 (2)			06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02 27	05:54 (2)	22:27	32	06:02 (2)			20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	05:27 (2)	04:25		05:31 (2)			06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04 28	05:55 (2)	22:27	31	06:02 (2)			20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	05:27 (2)	04:26		05:31 (2)			06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06 28	05:55 (2)	22:27	32	06:03 (2)			20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35	05:27 (2)			05:13			06:19		07:31		09:07
	16:44		19:59		22:07 29	05:56 (2)			21:44			20:26		16:41		15:44
Potential sun hours	227	262	365	429	515		539		538		474	386	321	241	207	
Total, worst case					288		933		644							
Sun reduction					0,58		0,53		0,57							
Oper. time red.					0,93		0,93		0,93							
Wind dir. red.					0,86		0,86		0,86							
Total reduction					0,47		0,43		0,45							
Total, real					134		398		292							

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BY - Tuiskas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May	June	July	August	September	October	November		December		
1	09:07	10:25 (13)	08:27	10:45 (13)	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34		08:39		10:11 (13)
	15:45 78	14:45 (10)	16:46 21	11:06 (13)	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38		15:43	65	14:33 (10)
2	09:06	10:26 (13)	08:25	10:47 (13)	07:17	06:51	05:31	04:31	04:27	05:17	06:23	07:27	07:36		08:41		10:11 (13)
	15:47 77	14:46 (10)	16:48 16	11:03 (13)	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:36		15:42	65	14:33 (10)
3	09:06	10:26 (13)	08:23	10:51 (13)	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38		08:43		10:12 (13)
	15:48 77	14:47 (10)	16:51 8	10:59 (13)	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33		15:41	64	14:33 (10)
4	09:05	10:26 (13)	08:21		07:11	06:45	05:26	04:29	04:29	05:21	06:27	07:31	07:41		08:44		10:12 (13)
	15:49 75	14:47 (10)	16:53		17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31		15:40	65	14:34 (10)
5	09:05	10:26 (13)	08:19		07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43		08:46		10:13 (13)
	15:51 74	14:47 (10)	16:55		18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29		15:39	64	14:34 (10)
6	09:04	10:28 (13)	08:16		07:06	06:40	05:22	04:27	04:31	05:25	06:31	07:35	07:45		08:48		10:13 (13)
	15:52 70	14:49 (10)	16:58		18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26		15:38	69	14:34 (10)
7	09:04	10:28 (13)	08:14		07:03	06:37	05:19	04:26	04:32	05:27	06:34	07:37	07:47		08:49		10:13 (13)
	15:54 64	14:49 (10)	17:00		18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24		15:38	74	14:34 (10)
8	09:03	10:27 (13)	08:12		07:01	06:34	05:17	04:25	04:33	05:30	06:36	07:40	07:50	10:20 (13)	08:51		10:14 (13)
	15:56 65	14:49 (10)	17:02		18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22 9	10:29 (13)	15:37	76	14:35 (10)
9	09:02	10:28 (13)	08:10		06:58	06:31	05:15	04:25	04:34	05:32	06:38	07:42	07:52	10:17 (13)	08:52		10:15 (13)
	15:57 64	14:49 (10)	17:05		18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20 17	10:34 (13)	15:37	76	14:36 (10)
10	09:01	10:28 (13)	08:07		06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	10:15 (13)	08:54		10:15 (13)
	15:59 65	14:50 (10)	17:07		18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18 22	10:37 (13)	15:36	78	14:36 (10)
11	09:00	10:29 (13)	08:05		06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	10:13 (13)	08:55		10:16 (13)
	16:01 64	14:50 (10)	17:10		18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16 25	10:38 (13)	15:36	78	14:36 (10)
12	08:59	10:29 (13)	08:03		06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	10:12 (13)	08:56		10:16 (13)
	16:03 64	14:50 (10)	17:12		18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14 28	10:40 (13)	15:35	79	14:36 (10)
13	08:58	10:29 (13)	08:00		06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	10:11 (13)	08:57		10:17 (13)
	16:04 65	14:51 (10)	17:14		18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:12 30	10:41 (13)	15:35	78	14:36 (10)
14	08:57	10:29 (13)	07:58		06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	10:10 (13)	08:59		10:18 (13)
	16:06 64	14:50 (10)	17:17		18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10 33	10:43 (13)	15:35	79	14:38 (10)
15	08:56	10:30 (13)	07:55		06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	10:09 (13)	09:00		10:18 (13)
	16:08 63	14:51 (10)	17:19		18:24	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08 34	10:43 (13)	15:35	79	14:38 (10)
16	08:54	10:30 (13)	07:53		06:38	06:12	05:00	04:21	04:45	05:47	06:53	07:57	08:08	10:09 (13)	09:01		10:19 (13)
	16:10 61	14:50 (10)	17:21		18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06 35	10:44 (13)	15:35	79	14:38 (10)
17	08:53	10:30 (13)	07:51		06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	10:09 (13)	09:02		10:20 (13)
	16:12 61	14:50 (10)	17:24		18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04 37	10:46 (13)	15:35	80	14:39 (10)
18	08:52	10:31 (13)	07:48		06:33	06:07	04:56	04:21	04:48	05:51	06:57	08:02	08:12	10:08 (13)	09:02		10:20 (13)
	16:14 59	14:50 (10)	17:26		18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02 38	10:46 (13)	15:35	78	14:39 (10)
19	08:50	10:32 (13)	07:45		06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	10:09 (13)	09:03		10:20 (13)
	16:17 57	14:50 (10)	17:29		18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00 38	10:47 (13)	15:35	80	14:39 (10)
20	08:49	10:32 (13)	07:43		06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	10:08 (13)	09:04		10:21 (13)
	16:19 55	14:49 (10)	17:31		18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59 46	14:21 (10)	15:35	78	14:39 (10)
21	08:47	10:33 (13)	07:40		06:24	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	10:09 (13)	09:05		10:22 (13)
	16:21 51	14:48 (10)	17:33		18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57 51	14:24 (10)	15:36	78	14:40 (10)
22	08:46	10:33 (13)	07:38		06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	10:08 (13)	09:05		10:22 (13)
	16:23 46	14:46 (10)	17:36		18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55 55	14:25 (10)	15:36	78	14:40 (10)
23	08:44	10:34 (13)	07:35		06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	10:08 (13)	09:06		10:23 (13)
	16:25 38	11:12 (13)	17:38		18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54 57	14:26 (10)	15:37	78	14:41 (10)
24	08:42	10:34 (13)	07:33		06:16	05:51	04:45	04:21	04:59	06:04	07:09	08:15	08:25	10:09 (13)	09:06		10:23 (13)
	16:27 38	11:12 (13)	17:40		18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:52 58	14:27 (10)	15:37	80	14:42 (10)
25	08:40	10:35 (13)	07:30		06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	10:08 (13)	09:06		10:23 (13)
	16:30 37	11:12 (13)	17:43		18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51 61	14:28 (10)	15:38	79	14:42 (10)
26	08:39	10:36 (13)	07:27		06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	10:09 (13)	09:07		10:23 (13)
	16:32 35	11:11 (13)	17:45		18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49 63	14:30 (10)	15:39	78	14:42 (10)
27	08:37	10:37 (13)	07:25		06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	10:09 (13)	09:07		10:24 (13)
	16:34 34	11:11 (13)	17:47		18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48 64	14:30 (10)	15:40	80	14:43 (10)
28	08:35	10:39 (13)	07:22		06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	10:09 (13)	09:07		10:24 (13)
	16:37 32	11:11 (13)	17:49		18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47 64	14:30 (10)	15:41	80	14:44 (10)
29	08:33	10:39 (13)			07:02	05:39	04:37	04:24	05:09	06:14	07:20	07:27	08:35	10:09 (13)	09:07		10:25 (13)
	16:39 30	11:09 (13)			19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45 65	14:31 (10)	15:42	79	14:44 (10)
30	08:31	10:41 (13)			06:59	05:36	04:35	04:25	05:11	06:17	07:22	07:29	08:37	10:10 (13)	09:07		10:24 (13)
	16:41 27	11:08 (13)			19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44 64	14:31 (10)	15:43	79	14:44 (10)
31	08:29	10:42 (13)			06:56		04:34		05:13	06:19		07:31			09:07		10:25 (13)
	16:43 25	11:07 (13)			19:59		22:07		21:44	20:26		16:40			15:44	78	14:45 (10)
Potential sun hours	227		262		365	429	516	539	539	475	386	321	241		207		
Total, worst case	1715		45										994		2351		
Sun reduction	0,13		0,22										0,15		0,13		
Oper. time red.	0,93		0,93										0,93		0,93		
Wind dir. red.	0,40		0,36										0,40		0,38		
Total reduction	0,05		0,07										0,06		0,05		
Total, real	84		3										57		107		

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BZ - Urgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June
1	09:07		10:16 (7)	08:27			07:20		08:08 (10)	06:54		05:34	04:33
	15:45	95	14:15 (3)	16:46			17:52	28	08:36 (10)	20:01		21:08	22:09
2	09:06		10:17 (7)	08:25			07:17		08:07 (10)	06:51		05:31	04:32
	15:47	94	14:16 (3)	16:48			17:54	29	08:36 (10)	20:03		21:10	22:10
3	09:06		10:17 (7)	08:23			07:14		08:07 (10)	06:48		05:29	04:30
	15:48	92	14:16 (3)	16:51			17:57	28	08:35 (10)	20:06		21:12	22:12
4	09:06		10:17 (7)	08:21			07:12		08:08 (10)	06:45		05:26	04:29
	15:50	88	14:16 (3)	16:53			17:59	27	08:35 (10)	20:08		21:14	22:13
5	09:05		10:19 (7)	08:19			07:09		08:08 (10)	06:43		05:24	04:28
	15:51	85	14:17 (3)	16:55			18:01	26	08:34 (10)	20:10		21:16	22:15
6	09:04		10:19 (7)	08:17			07:06		08:09 (10)	06:40		05:22	04:27
	15:53	79	14:18 (3)	16:58			18:03	24	08:33 (10)	20:12		21:19	22:16
7	09:04		10:20 (7)	08:14			07:03		08:10 (10)	06:37		05:19	04:26
	15:54	73	14:18 (3)	17:00			18:06	21	08:31 (10)	20:14		21:21	22:17
8	09:03		10:19 (7)	08:12			07:01		08:11 (10)	06:34		05:17	04:26
	15:56	72	14:17 (3)	17:03			18:08	18	08:29 (10)	20:17		21:23	22:18
9	09:02		10:20 (7)	08:10			06:58		08:14 (10)	06:32		05:15	04:25
	15:57	71	14:18 (3)	17:05			18:10	13	08:27 (10)	20:19		21:25	22:19
10	09:01		10:21 (7)	08:07			06:55		08:18 (10)	06:29		05:13	04:24
	15:59	66	14:18 (3)	17:07			18:12	4	08:22 (10)	20:21		21:27	22:20
11	09:00		10:22 (7)	08:05		08:35 (11)	06:52			06:26		05:10	04:23
	16:01	63	14:18 (3)	17:10	6	08:41 (11)	18:15			20:23		21:29	22:21
12	08:59		10:22 (7)	08:03		08:33 (11)	06:50			06:23		05:08	04:23
	16:03	58	14:17 (3)	17:12	11	08:44 (11)	18:17			20:25		21:31	22:22
13	08:58		10:23 (7)	08:00		08:30 (11)	06:47			06:21		05:06	04:22
	16:05	54	14:18 (3)	17:15	15	08:45 (11)	18:19			20:28		21:34	22:23
14	08:57		10:23 (7)	07:58		08:27 (11)	06:44			06:18		05:04	04:22
	16:07	46	14:17 (3)	17:17	18	08:45 (11)	18:21			20:30		21:36	22:24
15	08:56		10:25 (7)	07:56		08:27 (11)	06:41			06:15		05:02	04:22
	16:09	36	14:17 (3)	17:19	20	08:47 (11)	18:24			20:32		21:38	22:25
16	08:55		10:26 (7)	07:53		08:26 (11)	06:39			06:13		05:00	04:21
	16:11	32	14:16 (3)	17:22	21	08:47 (11)	18:26			20:34		21:40	22:25
17	08:53		10:27 (7)	07:51		08:27 (11)	06:36			06:10		04:58	04:21
	16:13	28	14:14 (3)	17:24	21	08:48 (11)	18:28			20:37		21:42	22:26
18	08:52		10:29 (7)	07:48		08:26 (11)	06:33			06:07		04:56	04:21
	16:15	20	14:13 (3)	17:26	21	08:47 (11)	18:30			20:39		21:44	22:27
19	08:50		10:30 (7)	07:46		08:26 (11)	06:30			06:05		04:54	04:21
	16:17	11	10:41 (7)	17:29	21	08:47 (11)	18:33			20:41		21:46	22:27
20	08:49		10:33 (7)	07:43		08:18 (10)	06:27			06:02		04:52	04:21
	16:19	5	10:38 (7)	17:31	29	08:47 (11)	18:35			20:43		21:48	22:27
21	08:47			07:41		08:15 (10)	06:25			05:59		04:50	04:21
	16:21			17:33	31	08:46 (11)	18:37			20:45		21:50	22:28
22	08:46			07:38		08:13 (10)	06:22			05:57		04:48	04:21
	16:23			17:36	32	08:45 (11)	18:39			20:48		21:52	22:28
23	08:44			07:35		08:11 (10)	06:19			05:54		04:47	04:21
	16:25			17:38	32	08:43 (11)	18:41			20:50		21:53	22:28
24	08:42			07:33		08:11 (10)	06:16			05:51		04:45	04:22
	16:28			17:40	31	08:42 (11)	18:44			20:52		21:55	22:28
25	08:41			07:30		08:10 (10)	06:13			05:49		04:43	04:22
	16:30			17:43	28	08:38 (11)	18:46			20:54		21:57	22:28
26	08:39			07:28		08:09 (10)	06:11			05:46		04:41	04:23
	16:32			17:45	27	08:36 (10)	18:48			20:56		21:59	22:28
27	08:37			07:25		08:08 (10)	06:08			05:44		04:40	04:23
	16:34			17:47	28	08:36 (10)	18:50			20:59		22:01	22:28
28	08:35			07:22		08:08 (10)	06:05			05:41		04:38	04:24
	16:37			17:50	29	08:37 (10)	18:52			21:01		22:02	22:27
29	08:33						07:02			05:39		04:37	04:24
	16:39						19:55			21:03		22:04	22:27
30	08:31						06:59			05:36		04:36	04:25
	16:41						19:57			21:05		22:06	22:27
31	08:29						06:57					04:34	
	16:44						19:59					22:07	
Potential sun hours	227			262			365			429		515	539
Total, worst case		1168			421			218					
Sun reduction		0,13			0,22			0,37					
Oper. time red.		0,93			0,93			0,93					
Wind dir. red.		0,30			0,85			0,87					
Total reduction		0,04			0,17			0,30					
Total, real		43			74			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: BZ - Urgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October			November			December		
1	04:26		05:15		06:21		07:25			07:34			08:39		10:04 (7)
	22:26		21:41		20:24		19:00			16:38			15:43	62	14:00 (3)
2	04:27		05:17		06:23		07:27			07:36			08:41		10:04 (7)
	22:26		21:39		20:21		18:57			16:36			15:42	66	14:01 (3)
3	04:28		05:19		06:25		07:29			07:38			08:43		10:04 (7)
	22:25		21:37		20:18		18:54			16:33			15:41	70	14:02 (3)
4	04:29		05:21		06:27		07:31		08:52 (10)	07:41			08:44		10:04 (7)
	22:24		21:35		20:15		18:51	11	09:03 (10)	16:31			15:40	71	14:02 (3)
5	04:30		05:23		06:29		07:33		08:49 (10)	07:43			08:46		10:05 (7)
	22:24		21:33		20:12		18:48	16	09:05 (10)	16:29			15:39	73	14:03 (3)
6	04:31		05:26		06:32		07:35		08:47 (10)	07:45			08:48		10:04 (7)
	22:23		21:30		20:10		18:46	20	09:07 (10)	16:27			15:39	78	14:03 (3)
7	04:32		05:28		06:34		07:38		08:45 (10)	07:48			08:49		10:05 (7)
	22:22		21:28		20:07		18:43	23	09:08 (10)	16:24			15:38	84	14:04 (3)
8	04:33		05:30		06:36		07:40		08:44 (10)	07:50			08:51		10:05 (7)
	22:21		21:26		20:04		18:40	25	09:09 (10)	16:22			15:37	88	14:04 (3)
9	04:35		05:32		06:38		07:42		08:43 (10)	07:52			08:52		10:06 (7)
	22:20		21:23		20:01		18:37	26	09:09 (10)	16:20			15:37	91	14:05 (3)
10	04:36		05:34		06:40		07:44		08:42 (10)	07:54			08:54		10:06 (7)
	22:19		21:21		19:59		18:35	27	09:09 (10)	16:18			15:36	92	14:05 (3)
11	04:37		05:36		06:42		07:46		08:42 (10)	07:57			08:55		10:07 (7)
	22:18		21:18		19:56		18:32	28	09:10 (10)	16:16			15:36	95	14:06 (3)
12	04:39		05:38		06:44		07:48		08:41 (10)	07:59			08:56		10:07 (7)
	22:17		21:16		19:53		18:29	29	09:10 (10)	16:14			15:36	97	14:06 (3)
13	04:40		05:40		06:46		07:51		08:41 (10)	08:01			08:58		10:07 (7)
	22:15		21:13		19:50		18:27	28	09:09 (10)	16:12			15:35	97	14:07 (3)
14	04:42		05:43		06:48		07:53		08:41 (10)	08:04			08:59		10:08 (7)
	22:14		21:11		19:47		18:24	29	09:10 (10)	16:10			15:35	97	14:08 (3)
15	04:43		05:45		06:51		07:55		08:41 (10)	08:06			09:00		10:09 (7)
	22:13		21:08		19:44		18:21	28	09:09 (10)	16:08			15:35	97	14:08 (3)
16	04:45		05:47		06:53		07:57		08:41 (10)	08:08			09:01		10:09 (7)
	22:11		21:06		19:42		18:19	27	09:08 (10)	16:06			15:35	99	14:09 (3)
17	04:47		05:49		06:55		08:00		08:42 (10)	08:10			09:02		10:10 (7)
	22:10		21:03		19:39		18:16	30	09:12 (11)	16:04			15:35	98	14:09 (3)
18	04:48		05:51		06:57		08:02		08:42 (10)	08:13			09:03		10:10 (7)
	22:08		21:01		19:36		18:13	32	09:14 (11)	16:02			15:35	99	14:10 (3)
19	04:50		05:53		06:59		08:04		08:43 (10)	08:15			09:03		10:10 (7)
	22:06		20:58		19:33		18:11	32	09:15 (11)	16:00			15:35	98	14:09 (3)
20	04:52		05:55		07:01		08:06		08:45 (10)	08:17			09:04		10:11 (7)
	22:05		20:56		19:30		18:08	31	09:16 (11)	15:59			15:36	98	14:10 (3)
21	04:54		05:57		07:03		08:09		08:46 (10)	08:19			09:05		10:12 (7)
	22:03		20:53		19:28		18:05	31	09:17 (11)	15:57			15:36	98	14:11 (3)
22	04:56		06:00		07:05		08:11		08:50 (10)	08:21		10:10 (7)	09:05		10:12 (7)
	22:01		20:50		19:25		18:03	27	09:17 (11)	15:55	4	10:14 (7)	15:36	98	14:11 (3)
23	04:57		06:02		07:07		08:13		08:56 (11)	08:23		10:07 (7)	09:06		10:13 (7)
	21:59		20:48		19:22		18:00	21	09:17 (11)	15:54	10	10:17 (7)	15:37	98	14:12 (3)
24	04:59		06:04		07:10		08:15		08:56 (11)	08:25		10:06 (7)	09:06		10:13 (7)
	21:58		20:45		19:19		17:58	22	09:18 (11)	15:52	20	13:50 (3)	15:38	98	14:12 (3)
25	05:01		06:06		07:12		07:18		07:56 (11)	08:27		10:05 (7)	09:07		10:13 (7)
	21:56		20:42		19:16		16:55	21	08:17 (11)	15:51	28	13:52 (3)	15:38	98	14:13 (3)
26	05:03		06:08		07:14		07:20		07:56 (11)	08:29		10:05 (7)	09:07		10:13 (7)
	21:54		20:40		19:14		16:53	20	08:16 (11)	15:49	32	13:55 (3)	15:39	99	14:13 (3)
27	05:05		06:10		07:16		07:22		07:57 (11)	08:31		10:04 (7)	09:07		10:14 (7)
	21:52		20:37		19:11		16:50	19	08:16 (11)	15:48	36	13:56 (3)	15:40	97	14:13 (3)
28	05:07		06:12		07:18		07:25		07:57 (11)	08:33		10:04 (7)	09:07		10:14 (7)
	21:50		20:34		19:08		16:48	17	08:14 (11)	15:47	45	13:57 (3)	15:41	98	14:14 (3)
29	05:09		06:15		07:20		07:27		08:00 (11)	08:35		10:03 (7)	09:07		10:15 (7)
	21:48		20:32		19:05		16:45	14	08:14 (11)	15:46	55	13:58 (3)	15:42	99	14:15 (3)
30	05:11		06:17		07:22		07:29		08:03 (11)	08:37		10:04 (7)	09:07		10:16 (7)
	21:46		20:29		19:02		16:43	10	08:13 (11)	15:44	59	14:00 (3)	15:43	96	14:15 (3)
31	05:13		06:19				07:31		08:05 (11)				09:07		10:16 (7)
	21:44		20:26				16:40	5	08:10 (11)				15:44	95	14:15 (3)
Potential sun hours	538		474		386		321			241			207		
Total, worst case								649			289			2824	
Sun reduction								0,31			0,15			0,13	
Oper. time red.								0,93			0,93			0,93	
Wind dir. red.								0,86			0,37			0,25	
Total reduction								0,24			0,05			0,03	
Total, real								159			16			83	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CA - Vaverites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June	
1	09:07		11:06 (11)	08:27		12:39 (10)	07:20			06:54		05:34	04:33	
	15:45	88	13:43 (7)	16:46	49	15:54 (1)	17:52			20:01		21:07	22:09	
2	09:06		11:07 (11)	08:25		12:40 (10)	07:17			06:51		05:31	04:32	
	15:47	86	13:43 (7)	16:48	40	15:51 (1)	17:54			20:03		21:10	22:10	
3	09:06		11:07 (11)	08:23		12:42 (10)	07:14			06:48		05:29	04:30	
	15:48	80	13:12 (10)	16:51	34	13:16 (10)	17:56			20:06		21:12	22:12	
4	09:05		11:07 (11)	08:21		12:43 (10)	07:11			06:45		05:26	04:29	
	15:49	81	13:13 (10)	16:53	32	13:15 (10)	17:59			20:08		21:14	22:13	
5	09:05		11:08 (11)	08:19		08:52 (12)	07:09			06:43		05:24	04:28	
	15:51	81	13:13 (10)	16:55	38	13:13 (10)	18:01			20:10		21:16	22:15	
6	09:04		11:09 (11)	08:16		08:50 (12)	07:06			06:40		05:22	04:27	
	15:52	82	13:15 (10)	16:58	39	13:12 (10)	18:03			20:12		21:18	22:16	
7	09:04		11:10 (11)	08:14		08:48 (12)	07:03			06:37		05:19	04:26	
	15:54	81	13:15 (10)	17:00	35	13:08 (10)	18:06			20:14		21:21	22:17	
8	09:03		11:10 (11)	08:12		08:47 (12)	07:01			06:34		05:17	04:25	
	15:56	80	13:15 (10)	17:02	25	13:02 (10)	18:08			20:17		21:23	22:18	
9	09:02		11:10 (11)	08:10		08:46 (12)	06:58			06:32		05:15	04:25	
	15:57	82	13:16 (10)	17:05	23	09:09 (12)	18:10			20:19		21:25	22:19	
10	09:01		11:11 (11)	08:07		08:46 (12)	06:55			06:29		05:12	04:24	
	15:59	81	13:17 (10)	17:07	24	09:10 (12)	18:12			20:21		21:27	22:20	
11	09:00		11:12 (11)	08:05		08:45 (12)	06:52		07:22 (13)	06:26		05:10	04:23	
	16:01	81	13:17 (10)	17:10	25	09:10 (12)	18:15	3	07:25 (13)	20:23		21:29	22:21	
12	08:59		11:13 (11)	08:03		08:44 (12)	06:50		07:16 (13)	06:23		05:08	04:23	
	16:03	79	13:17 (10)	17:12	26	09:10 (12)	18:17	14	07:30 (13)	20:25		21:31	22:22	
13	08:58		11:14 (11)	08:00		08:44 (12)	06:47		07:13 (13)	06:21		05:06	04:22	
	16:05	78	13:18 (10)	17:14	27	09:11 (12)	18:19	19	07:32 (13)	20:28		21:33	22:23	
14	08:57		11:14 (11)	07:58		08:44 (12)	06:44		07:11 (13)	06:18		05:04	04:22	
	16:06	79	13:18 (10)	17:17	27	09:11 (12)	18:21	22	07:33 (13)	20:30		21:36	22:24	
15	08:56		11:16 (11)	07:55		08:44 (12)	06:41		07:10 (13)	06:15		05:02	04:21	
	16:08	77	13:19 (10)	17:19	27	09:11 (12)	18:24	25	07:35 (13)	20:32		21:38	22:25	
16	08:54		11:16 (11)	07:53		08:44 (12)	06:38		07:08 (13)	06:12		05:00	04:21	
	16:10	76	13:19 (10)	17:22	27	09:11 (12)	18:26	28	07:36 (13)	20:34		21:40	22:25	
17	08:53		11:17 (11)	07:51		08:44 (12)	06:36		07:07 (13)	06:10		04:58	04:21	
	16:12	75	13:19 (10)	17:24	26	09:10 (12)	18:28	29	07:36 (13)	20:36		21:42	22:26	
18	08:52		11:19 (11)	07:48		08:45 (12)	06:33		07:06 (13)	06:07		04:56	04:21	
	16:15	73	13:20 (10)	17:26	25	09:10 (12)	18:30	30	07:36 (13)	20:39		21:44	22:26	
19	08:50		11:20 (11)	07:46		08:45 (12)	06:30		07:05 (13)	06:04		04:54	04:21	
	16:17	71	13:21 (10)	17:29	24	09:09 (12)	18:32	31	07:36 (13)	20:41		21:46	22:27	
20	08:49		11:22 (11)	07:43		08:46 (12)	06:27		07:04 (13)	06:02		04:52	04:21	
	16:19	67	13:21 (10)	17:31	22	09:08 (12)	18:35	32	07:36 (13)	20:43		21:48	22:27	
21	08:47		11:24 (11)	07:40		08:47 (12)	06:25		07:05 (13)	05:59		04:50	04:21	
	16:21	65	15:41 (1)	17:33	20	09:07 (12)	18:37	32	07:37 (13)	20:45		21:50	22:28	
22	08:46		11:28 (11)	07:38		08:49 (12)	06:22		07:04 (13)	05:57		04:48	04:21	
	16:23	60	15:43 (1)	17:36	16	09:05 (12)	18:39	32	07:36 (13)	20:48		21:51	22:28	
23	08:44		12:32 (10)	07:35		08:51 (12)	06:19		07:04 (13)	05:54		04:46	04:21	
	16:25	56	15:46 (1)	17:38	11	09:02 (12)	18:41	32	07:36 (13)	20:50		21:53	22:28	
24	08:42		12:32 (10)	07:33			06:16		07:04 (13)	05:51		04:45	04:22	
	16:28	58	15:48 (1)	17:40			18:44	31	07:35 (13)	20:52		21:55	22:28	
25	08:41		12:33 (10)	07:30			06:13		07:04 (13)	05:49		04:43	04:22	
	16:30	59	15:51 (1)	17:43			18:46	30	07:34 (13)	20:54		21:57	22:28	
26	08:39		12:34 (10)	07:27			06:11		07:04 (13)	05:46		04:41	04:22	
	16:32	61	15:54 (1)	17:45			18:48	28	07:32 (13)	20:56		21:59	22:28	
27	08:37		12:35 (10)	07:25			06:08		07:06 (13)	05:44		04:40	04:23	
	16:34	62	15:56 (1)	17:47			18:50	26	07:32 (13)	20:59		22:01	22:28	
28	08:35		12:36 (10)	07:22			06:05		07:06 (13)	05:41		04:38	04:24	
	16:37	61	15:57 (1)	17:50			18:52	24	07:30 (13)	21:01		22:02	22:27	
29	08:33		12:36 (10)				07:02		08:07 (13)	05:39		04:37	04:24	
	16:39	59	15:56 (1)				19:55	21	08:28 (13)	21:03		22:04	22:27	
30	08:31		12:37 (10)				06:59		08:09 (13)	05:36		04:35	04:25	
	16:41	56	15:56 (1)				19:57	16	08:25 (13)	21:05		22:06	22:27	
31	08:29		12:38 (10)				06:57		08:13 (13)			04:34		
	16:44	53	15:55 (1)				19:59	8	08:21 (13)			22:07		
Potential sun hours	227			262			365			429		515	539	
Total, worst case		2228			642			513						
Sun reduction		0,13			0,22			0,37						
Oper. time red.		0,93			0,93			0,93						
Wind dir. red.		0,19			0,56			0,98						
Total reduction		0,02			0,12			0,33						
Total, real		51			74			171						

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CA - Vaverites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October		November		December	
1	04:26		05:15		06:21		07:24		07:54 (13)		07:34	
	22:26		21:41		20:23		18:59	16	08:10 (13)		16:38	24
2	04:27		05:17		06:23		07:27		07:57 (13)		07:36	
	22:26		21:39		20:21		18:57	9	08:06 (13)		16:36	22
3	04:28		05:19		06:25		07:29				07:38	
	22:25		21:37		20:18		18:54				16:33	28
4	04:29		05:21		06:27		07:31				07:41	
	22:24		21:35		20:15		18:51				16:31	35
5	04:30		05:23		06:29		07:33				07:43	
	22:24		21:33		20:12		18:48				16:29	39
6	04:31		05:25		06:31		07:35				07:45	
	22:23		21:30		20:10		18:46				16:26	37
7	04:32		05:28		06:34		07:37				07:47	
	22:22		21:28		20:07		18:43				16:24	32
8	04:33		05:30		06:36		07:40				07:50	
	22:21		21:26		20:04		18:40				16:22	35
9	04:35		05:32		06:38		07:42				07:52	
	22:20		21:23		20:01		18:37				16:20	41
10	04:36		05:34		06:40		07:44				07:54	
	22:19		21:21		19:58		18:35				16:18	49
11	04:37		05:36		06:42		07:46				07:57	
	22:18		21:18		19:56		18:32				16:16	53
12	04:39		05:38		06:44		08:06 (13)		07:48		07:59	
	22:16		21:16		19:53	6	08:12 (13)		18:29		16:14	56
13	04:40		05:40		06:46		08:01 (13)		07:51		08:01	
	22:15		21:13		19:50	15	08:16 (13)		18:26		16:12	60
14	04:42		05:42		06:48		07:58 (13)		07:53		08:03	
	22:14		21:11		19:47	20	08:18 (13)		18:24		16:10	62
15	04:43		05:45		06:50		07:56 (13)		07:55		08:06	
	22:12		21:08		19:44	23	08:19 (13)		18:21		16:08	62
16	04:45		05:47		06:53		07:54 (13)		07:57		08:08	
	22:11		21:06		19:42	26	08:20 (13)		18:18		16:06	61
17	04:47		05:49		06:55		07:53 (13)		07:59		08:10	
	22:09		21:03		19:39	28	08:21 (13)		18:16		16:04	60
18	04:48		05:51		06:57		07:52 (13)		08:02		09:25 (12)	
	22:08		21:01		19:36	29	08:21 (13)		18:13	6	09:31 (12)	
19	04:50		05:53		06:59		07:51 (13)		08:04		09:21 (12)	
	22:06		20:58		19:33	30	08:21 (13)		18:10	13	09:34 (12)	
20	04:52		05:55		07:01		07:51 (13)		08:06		09:19 (12)	
	22:05		20:56		19:30	31	08:22 (13)		18:08	18	09:37 (12)	
21	04:54		05:57		07:03		07:50 (13)		08:08		09:17 (12)	
	22:03		20:53		19:27	32	08:22 (13)		18:05	21	09:38 (12)	
22	04:55		06:00		07:05		07:49 (13)		08:11		09:17 (12)	
	22:01		20:50		19:25	33	08:22 (13)		18:03	22	09:39 (12)	
23	04:57		06:02		07:07		07:49 (13)		08:13		09:15 (12)	
	21:59		20:48		19:22	32	08:21 (13)		18:00	25	09:40 (12)	
24	04:59		06:04		07:10		07:49 (13)		08:15		09:14 (12)	
	21:58		20:45		19:19	31	08:20 (13)		17:58	26	09:40 (12)	
25	05:01		06:06		07:12		07:49 (13)		07:18		08:14 (12)	
	21:56		20:42		19:16	30	08:19 (13)		16:55	27	08:41 (12)	
26	05:03		06:08		07:14		07:49 (13)		07:20		08:13 (12)	
	21:54		20:40		19:13	29	08:18 (13)		16:53	27	08:40 (12)	
27	05:05		06:10		07:16		07:49 (13)		07:22		08:13 (12)	
	21:52		20:37		19:11	28	08:17 (13)		16:50	28	08:41 (12)	
28	05:07		06:12		07:18		07:50 (13)		07:24		08:13 (12)	
	21:50		20:34		19:08	27	08:17 (13)		16:48	27	08:40 (12)	
29	05:09		06:14		07:20		07:51 (13)		07:27		08:14 (12)	
	21:48		20:32		19:05	24	08:15 (13)		16:45	26	08:40 (12)	
30	05:11		06:17		07:22		07:52 (13)		07:29		08:13 (12)	
	21:46		20:29		19:02	21	08:13 (13)		16:43	27	08:40 (12)	
31	05:13		06:19						07:31		08:14 (12)	
	21:44		20:26						16:40	25	08:39 (12)	
Potential sun hours	539		475		386				321			
Total, worst case						495				343		
Sun reduction						0,43				0,31		
Oper. time red.						0,93				0,93		
Wind dir. red.						0,98				0,79		
Total reduction						0,39				0,23		
Total, real						193				77		

									241			
										1669		
										0,15		
										0,93		
										0,24		
										0,03		
										56		

											207	
												2755
												0,13
												0,93
												0,18
												0,02
												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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CB - Vecjennas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:16	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:24	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:32	04:32	04:27	05:18	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:04	21:10	22:10	22:26	21:39	20:21	18:57	16:36	15:43
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:20	06:25	07:29	07:38	08:43
	15:49	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:42
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:28	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:33	20:13	18:49	16:29	15:40
6	09:04	08:17	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:04	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:04	08:14	07:04	06:37	05:20	04:27	04:33	05:28	06:34	07:38	07:48	08:49
	15:55	17:01	18:06	20:15	21:21	22:17	22:22	21:28	20:07	18:43	16:25	15:38
8	09:03	08:12	07:01	06:35	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:38	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:25	04:36	05:34	06:40	07:44	07:54	08:54
	16:00	17:08	18:13	20:21	21:27	22:20	22:19	21:21	19:59	18:35	16:18	15:37
11	09:00	08:05	06:53	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:09	04:23	04:39	05:39	06:44	07:49	07:59	08:56
	16:03	17:12	18:17	20:26	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:47	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:22	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:36
15	08:56	07:56	06:41	06:16	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:20	18:24	20:32	21:38	22:25	22:12	21:08	19:45	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:46	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:22	04:47	05:49	06:55	08:00	08:10	09:02
	16:13	17:24	18:28	20:37	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:27	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:03	15:36
19	08:50	07:46	06:30	06:05	04:54	04:21	04:51	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:28	06:02	04:52	04:21	04:52	05:56	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:41	06:25	06:00	04:50	04:21	04:54	05:58	07:03	08:09	08:19	09:05
	16:21	17:34	18:37	20:45	21:50	22:27	22:03	20:53	19:28	18:06	15:57	15:36
22	08:46	07:38	06:22	05:57	04:49	04:22	04:56	06:00	07:06	08:11	08:21	09:05
	16:24	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:42	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:41	18:44	20:52	21:55	22:28	21:58	20:45	19:19	17:58	15:53	15:38
25	08:41	07:30	06:14	05:49	04:44	04:23	05:02	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:47	04:42	04:23	05:04	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:24	05:06	06:11	07:16	07:22	08:31	09:07
	16:35	17:48	18:50	20:59	22:01	22:27	21:52	20:37	19:11	16:50	15:49	15:40
28	08:35	07:22	06:05	05:42	04:39	04:24	05:07	06:13	07:18	07:25	08:33	09:07
	16:37	17:50	18:53	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:46	15:46	15:42
30	08:31		07:00	05:37	04:36	04:26	05:11	06:17	07:23	07:29	08:37	09:07
	16:42		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:35		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:44	20:26		16:41		15:44
Potential sun hours	228	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CC - Veckastani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:07			08:27		09:26 (2)	07:20			06:54		07:55 (5)	05:34		06:23 (4)	04:33		06:13 (3)
	15:46			16:46	32	09:58 (2)	17:52			20:01	23	08:18 (5)	21:08	29	06:52 (4)	22:09	50	07:03 (3)
2	09:06			08:25		09:25 (2)	07:17			06:51		07:55 (5)	05:31		06:24 (4)	04:32		06:14 (3)
	15:47			16:49	33	09:58 (2)	17:54			20:04	21	08:16 (5)	21:10	28	06:52 (4)	22:10	49	07:03 (3)
3	09:06			08:23		09:25 (2)	07:14			06:48		07:56 (5)	05:29		05:58 (1)	04:31		06:14 (3)
	15:48			16:51	34	09:59 (2)	17:57			20:06	18	08:14 (5)	21:12	31	06:51 (4)	22:12	48	07:02 (3)
4	09:05			08:21		09:24 (2)	07:12			06:46		07:59 (5)	05:27		05:56 (1)	04:30		06:14 (3)
	15:50			16:53	36	10:00 (2)	17:59			20:08	13	08:12 (5)	21:14	35	06:51 (4)	22:13	48	07:02 (3)
5	09:05			08:19		09:24 (2)	07:09			06:43			05:24		05:54 (1)	04:29		06:14 (3)
	15:51			16:56	36	10:00 (2)	18:01			20:10			21:16	41	06:53 (3)	22:15	48	07:02 (3)
6	09:04			08:17		09:24 (2)	07:06			06:40			05:22		05:52 (1)	04:28		06:14 (3)
	15:53			16:58	37	10:01 (2)	18:04			20:12			21:19	46	06:54 (3)	22:16	48	07:02 (3)
7	09:04			08:14		09:23 (2)	07:04			06:37			05:20		05:50 (1)	04:27		06:15 (3)
	15:54			17:00	38	10:01 (2)	18:06			20:15			21:21	52	06:56 (3)	22:17	48	07:03 (3)
8	09:03			08:12		09:23 (2)	07:01			06:35			05:17		05:48 (1)	04:26		06:15 (3)
	15:56			17:03	39	10:02 (2)	18:08			20:17			21:23	57	06:57 (3)	22:18	47	07:02 (3)
9	09:02			08:10		09:23 (2)	06:58			06:32			05:15		05:47 (1)	04:25		06:15 (3)
	15:58			17:05	38	10:01 (2)	18:10			20:19			21:25	59	06:58 (3)	22:19	47	07:02 (3)
10	09:01			08:08		09:23 (2)	06:55			06:29			05:13		05:47 (1)	04:24		06:16 (3)
	15:59			17:08	39	10:02 (2)	18:13			20:21			21:27	60	06:58 (3)	22:20	46	07:02 (3)
11	09:00			08:05		09:23 (2)	06:53			06:26			05:11		05:47 (1)	04:24		06:16 (3)
	16:01			17:10	39	10:02 (2)	18:15			20:23			21:29	61	06:59 (3)	22:21	46	07:02 (3)
12	08:59			08:03		09:24 (2)	06:50			06:24			05:08		05:47 (1)	04:23		06:16 (3)
	16:03			17:12	38	10:02 (2)	18:17			20:26			21:31	62	06:59 (3)	22:22	46	07:02 (3)
13	08:58			08:00		09:24 (2)	06:47			06:21			05:06		05:47 (1)	04:23		06:17 (3)
	16:05			17:15	37	10:01 (2)	18:19			20:28			21:34	62	07:00 (3)	22:23	46	07:03 (3)
14	08:57			07:58		09:24 (2)	06:44			06:18			05:04		05:48 (1)	04:22		06:17 (3)
	16:07			17:17	36	10:00 (2)	18:22			20:30			21:36	62	07:00 (3)	22:24	45	07:02 (3)
15	08:56			07:56		09:25 (2)	06:41			06:15			05:02		05:48 (1)	04:22		06:17 (3)
	16:09			17:19	35	10:00 (2)	18:24			20:32			21:38	61	07:00 (3)	22:25	45	07:02 (3)
16	08:55			07:53		09:25 (2)	06:39			06:13			05:00		05:49 (1)	04:22		06:18 (3)
	16:11			17:22	34	09:59 (2)	18:26			20:34			21:40	59	07:00 (3)	22:25	45	07:03 (3)
17	08:53			07:51		09:26 (2)	06:36			06:10			04:58		05:51 (1)	04:21		06:18 (3)
	16:13			17:24	33	09:59 (2)	18:28			20:37			21:42	56	07:00 (3)	22:26	45	07:03 (3)
18	08:52			07:48		09:27 (2)	06:33		07:06 (5)	06:07			04:56		05:55 (1)	04:21		06:18 (3)
	16:15			17:27	31	09:58 (2)	18:30	9	07:15 (5)	20:39			21:44	50	07:01 (3)	22:26	45	07:03 (3)
19	08:50			07:46		09:28 (2)	06:30		07:02 (5)	06:05			04:54		06:12 (3)	04:21		06:18 (3)
	16:17			17:29	28	09:56 (2)	18:33	16	07:18 (5)	20:41			21:46	49	07:01 (3)	22:27	45	07:03 (3)
20	08:49			07:43		09:30 (2)	06:28		07:01 (5)	06:02		06:35 (4)	04:52		06:11 (3)	04:21		06:19 (3)
	16:19			17:31	25	09:55 (2)	18:35	20	07:21 (5)	20:43	9	06:44 (4)	21:48	50	07:01 (3)	22:27	44	07:03 (3)
21	08:47			07:41		09:31 (2)	06:25		06:59 (5)	05:59		06:33 (4)	04:50		06:12 (3)	04:21		06:19 (3)
	16:21			17:34	22	09:53 (2)	18:37	22	07:21 (5)	20:45	14	06:47 (4)	21:50	50	07:02 (3)	22:28	44	07:03 (3)
22	08:46			07:38		09:33 (2)	06:22		06:57 (5)	05:57		06:30 (4)	04:49		06:11 (3)	04:21		06:19 (3)
	16:23			17:36	16	09:49 (2)	18:39	25	07:22 (5)	20:48	18	06:48 (4)	21:52	50	07:01 (3)	22:28	44	07:03 (3)
23	08:44			07:35		09:38 (2)	06:19		06:56 (5)	05:54		06:29 (4)	04:47		06:12 (3)	04:22		06:19 (3)
	16:26			17:38	6	09:44 (2)	18:42	26	07:22 (5)	20:50	21	06:50 (4)	21:53	50	07:02 (3)	22:28	45	07:04 (3)
24	08:42			07:33			06:16		06:55 (5)	05:52		06:27 (4)	04:45		06:11 (3)	04:22		06:19 (3)
	16:28			17:41			18:44	27	07:22 (5)	20:52	23	06:50 (4)	21:55	51	07:02 (3)	22:28	45	07:04 (3)
25	08:41		09:36 (2)	07:30			06:14		06:54 (5)	05:49		06:26 (4)	04:43		06:12 (3)	04:22		06:20 (3)
	16:30	7	09:43 (2)	17:43			18:46	28	07:22 (5)	20:54	25	06:51 (4)	21:57	50	07:02 (3)	22:28	45	07:05 (3)
26	08:39		09:33 (2)	07:28			06:11		06:54 (5)	05:46		06:26 (4)	04:42		06:12 (3)	04:23		06:20 (3)
	16:32	14	09:47 (2)	17:45			18:48	29	07:23 (5)	20:57	26	06:52 (4)	21:59	50	07:02 (3)	22:28	45	07:05 (3)
27	08:37		09:31 (2)	07:25			06:08		06:54 (5)	05:44		06:24 (4)	04:40		06:12 (3)	04:23		06:20 (3)
	16:35	19	09:50 (2)	17:48			18:50	28	07:22 (5)	20:59	28	06:52 (4)	22:01	50	07:02 (3)	22:28	46	07:06 (3)
28	08:35		09:30 (2)	07:22			06:05		06:53 (5)	05:41		06:24 (4)	04:39		06:12 (3)	04:24		06:20 (3)
	16:37	22	09:52 (2)	17:50			18:53	29	07:22 (5)	21:01	29	06:53 (4)	22:02	50	07:02 (3)	22:27	45	07:05 (3)
29	08:33		09:28 (2)				07:02		07:53 (5)	05:39		06:24 (4)	04:37		06:12 (3)	04:25		06:20 (3)
	16:39	25	09:53 (2)				19:55	28	08:21 (5)	21:03	29	06:53 (4)	22:04	50	07:02 (3)	22:27	46	07:06 (3)
30	08:31		09:27 (2)				07:00		07:54 (5)	05:36		06:23 (4)	04:36		06:13 (3)	04:25		06:21 (3)
	16:42	28	09:55 (2)				19:57	27	08:21 (5)	21:05	29	06:52 (4)	22:06	49	07:02 (3)	22:27	46	07:07 (3)
31	08:29		09:26 (2)				06:57		07:54 (5)				04:34		06:13 (3)			
	16:44	30	09:56 (2)				19:59	26	08:20 (5)				22:07	50	07:03 (3)			
Potential sun hours	227			262			365			429			515			539		
Total, worst case		145			742			340			326			1560			1382	
Sun reduction		0,13			0,22			0,37			0,46			0,58			0,53	
Oper. time red.		0,93			0,93			0,93			0,93			0,93			0,93	
Wind dir. red.		0,65			0,65			0,99			0,97			0,95			0,95	
Total reduction		0,08			0,13			0,34			0,42			0,51			0,47	
Total, real		11			99			114			136			800			651	

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CC - Veckastani

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September		October		November		December
1	04:26		06:20 (3)	05:15	05:57 (1)	06:21		07:25		07:34	08:53 (2)	08:39
	22:26	46	07:06 (3)	21:41 61	07:09 (3)	20:24		19:00		16:38 39	09:32 (2)	15:44
2	04:27		06:20 (3)	05:17	05:57 (1)	06:23		07:27		07:36	08:52 (2)	08:41
	22:26	47	07:07 (3)	21:39 61	07:09 (3)	20:21		18:57		16:36 39	09:31 (2)	15:42
3	04:28		06:20 (3)	05:19	05:57 (1)	06:25		07:29		07:38	08:53 (2)	08:43
	22:25	47	07:07 (3)	21:37 60	07:08 (3)	20:18		18:54		16:34 38	09:31 (2)	15:42
4	04:29		06:21 (3)	05:22	05:56 (1)	06:27		07:31		07:41	08:53 (2)	08:44
	22:24	47	07:08 (3)	21:35 58	07:06 (3)	20:15		18:51		16:31 38	09:31 (2)	15:41
5	04:30		06:21 (3)	05:24	05:58 (1)	06:30		07:33		07:43	08:53 (2)	08:46
	22:24	47	07:08 (3)	21:33 55	07:06 (3)	20:13		18:49		16:29 38	09:31 (2)	15:40
6	04:31		06:21 (3)	05:26	06:00 (1)	06:32		07:35		07:45	08:53 (2)	08:48
	22:23	47	07:08 (3)	21:30 50	07:05 (3)	20:10		18:46		16:27 37	09:30 (2)	15:39
7	04:32		06:21 (3)	05:28	06:02 (1)	06:34		07:38		07:48	08:54 (2)	08:49
	22:22	47	07:08 (3)	21:28 45	07:03 (3)	20:07		18:43		16:25 36	09:30 (2)	15:38
8	04:34		06:21 (3)	05:30	06:04 (1)	06:36	07:54 (5)	07:40		07:50	08:55 (2)	08:51
	22:21	48	07:09 (3)	21:26 39	07:02 (3)	20:04 12	08:06 (5)	18:40		16:22 35	09:30 (2)	15:38
9	04:35		06:20 (3)	05:32	06:06 (1)	06:38	07:51 (5)	07:42		07:52	08:56 (2)	08:52
	22:20	49	07:09 (3)	21:23 33	07:00 (4)	20:01 17	08:08 (5)	18:38		16:20 33	09:29 (2)	15:37
10	04:36		06:21 (3)	05:34	06:08 (1)	06:40	07:49 (5)	07:44		07:54	08:57 (2)	08:54
	22:19	49	07:10 (3)	21:21 31	07:01 (4)	19:59 20	08:09 (5)	18:35		16:18 31	09:28 (2)	15:37
11	04:38		06:21 (3)	05:36	06:32 (4)	06:42	07:47 (5)	07:46		07:57	08:57 (2)	08:55
	22:18	49	07:10 (3)	21:18 29	07:01 (4)	19:56 23	08:10 (5)	18:32		16:16 30	09:27 (2)	15:36
12	04:39		06:21 (3)	05:38	06:32 (4)	06:44	07:46 (5)	07:49		07:59	08:59 (2)	08:56
	22:16	49	07:10 (3)	21:16 29	07:01 (4)	19:53 25	08:11 (5)	18:29		16:14 27	09:26 (2)	15:36
13	04:41		06:20 (3)	05:41	06:32 (4)	06:47	07:44 (5)	07:51		08:01	09:00 (2)	08:58
	22:15	50	07:10 (3)	21:14 29	07:01 (4)	19:50 27	08:11 (5)	18:27		16:12 25	09:25 (2)	15:36
14	04:42		06:21 (3)	05:43	06:32 (4)	06:49	07:43 (5)	07:53		08:04	09:02 (2)	08:59
	22:14	50	07:11 (3)	21:11 28	07:00 (4)	19:47 28	08:11 (5)	18:24		16:10 22	09:24 (2)	15:35
15	04:44		06:21 (3)	05:45	06:32 (4)	06:51	07:43 (5)	07:55		08:06	09:04 (2)	09:00
	22:12	50	07:11 (3)	21:09 28	07:00 (4)	19:45 28	08:11 (5)	18:21		16:08 19	09:23 (2)	15:35
16	04:45		06:21 (3)	05:47	06:32 (4)	06:53	07:42 (5)	07:57		08:08	09:06 (2)	09:01
	22:11	50	07:11 (3)	21:06 27	06:59 (4)	19:42 29	08:11 (5)	18:19		16:06 14	09:20 (2)	15:35
17	04:47		06:21 (3)	05:49	06:32 (4)	06:55	07:43 (5)	08:00		08:10	09:10 (2)	09:02
	22:10	50	07:11 (3)	21:03 27	06:59 (4)	19:39 29	08:12 (5)	18:16		16:04 7	09:17 (2)	15:35
18	04:49		06:21 (3)	05:51	06:33 (4)	06:57	07:42 (5)	08:02		08:13		09:03
	22:08	51	07:12 (3)	21:01 25	06:58 (4)	19:36 29	08:11 (5)	18:13		16:02		15:35
19	04:50		06:21 (3)	05:53	06:34 (4)	06:59	07:42 (5)	08:04	10:07 (2)	08:15		09:03
	22:06	50	07:11 (3)	20:58 23	06:57 (4)	19:33 28	08:10 (5)	18:11 10	10:17 (2)	16:01		15:36
20	04:52		06:21 (3)	05:56	06:34 (4)	07:01	07:42 (5)	08:06	10:04 (2)	08:17		09:04
	22:05	51	07:12 (3)	20:56 21	06:55 (4)	19:30 27	08:09 (5)	18:08 18	10:22 (2)	15:59		15:36
21	04:54		06:22 (3)	05:58	06:36 (4)	07:03	07:43 (5)	08:09	10:01 (2)	08:19		09:05
	22:03	50	07:12 (3)	20:53 18	06:54 (4)	19:28 25	08:08 (5)	18:06 23	10:24 (2)	15:57		15:36
22	04:56		06:21 (3)	06:00	06:38 (4)	07:05	07:43 (5)	08:11	09:59 (2)	08:21		09:05
	22:01	51	07:12 (3)	20:50 13	06:51 (4)	19:25 23	08:06 (5)	18:03 27	10:26 (2)	15:56		15:37
23	04:58		06:22 (3)	06:02	06:41 (4)	07:08	07:44 (5)	08:13	09:58 (2)	08:23		09:06
	21:59	50	07:12 (3)	20:48 7	06:48 (4)	19:22 21	08:05 (5)	18:00 29	10:27 (2)	15:54		15:37
24	05:00		06:22 (3)	06:04		07:10	07:45 (5)	08:15	09:57 (2)	08:25		09:06
	21:58	50	07:12 (3)	20:45		19:19 17	08:02 (5)	17:58 31	10:28 (2)	15:53		15:38
25	05:01		06:22 (3)	06:06		07:12	07:47 (5)	07:18	08:55 (2)	08:27		09:06
	21:56	49	07:11 (3)	20:43		19:16 12	07:59 (5)	16:55 34	09:29 (2)	15:51		15:39
26	05:03		06:03 (1)	06:08		07:14		07:20	08:55 (2)	08:29		09:07
	21:54	55	07:12 (3)	20:40		19:14		16:53 35	09:30 (2)	15:50		15:39
27	05:05		06:01 (1)	06:10		07:16		07:22	08:54 (2)	08:31		09:07
	21:52	59	07:12 (3)	20:37		19:11		16:50 36	09:30 (2)	15:48		15:40
28	05:07		06:00 (1)	06:13		07:18		07:25	08:54 (2)	08:33		09:07
	21:50	60	07:11 (3)	20:34		19:08		16:48 37	09:31 (2)	15:47		15:41
29	05:09		05:58 (1)	06:15		07:20		07:27	08:53 (2)	08:35		09:07
	21:48	61	07:10 (3)	20:32		19:05		16:45 38	09:31 (2)	15:46		15:42
30	05:11		05:58 (1)	06:17		07:23		07:29	08:53 (2)	08:37		09:07
	21:46	61	07:10 (3)	20:29		19:02		16:43 38	09:31 (2)	15:45		15:43
31	05:13		05:57 (1)	06:19				07:31	08:52 (2)			09:07
	21:44	63	07:10 (3)	20:26				16:41 39	09:31 (2)			15:44
Potential sun hours	538		474		386		321		241		207	
Total, worst case		1583		797		420		395		508		
Sun reduction		0,57		0,55		0,43		0,31		0,15		
Oper. time red.		0,93		0,93		0,93		0,93		0,93		
Wind dir. red.		0,95		0,96		0,99		0,65		0,65		
Total reduction		0,50		0,49		0,39		0,18		0,09		
Total, real		792		387		166		73		47		

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CD - Vecmelderi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April		May	June	
1	09:07		11:49 (11)	08:27		09:18 (12)	07:20		07:50 (13)	06:54		05:34	04:33	
	15:45	66	13:48 (10)	16:46	37	13:44 (10)	17:52	22	08:12 (13)	20:01		21:07	22:09	
2	09:06		11:50 (11)	08:25		09:18 (12)	07:17		07:48 (13)	06:51		05:31	04:31	
	15:47	66	13:49 (10)	16:48	28	09:46 (12)	17:54	26	08:14 (13)	20:03		21:10	22:10	
3	09:06		11:51 (11)	08:23		09:18 (12)	07:14		07:46 (13)	06:48		05:29	04:30	
	15:48	65	13:49 (10)	16:51	28	09:46 (12)	17:56	29	08:15 (13)	20:06		21:12	22:12	
4	09:05		11:51 (11)	08:21		09:18 (12)	07:11		07:45 (13)	06:45		05:26	04:29	
	15:49	65	13:50 (10)	16:53	28	09:46 (12)	17:59	30	08:15 (13)	20:08		21:14	22:13	
5	09:05		11:52 (11)	08:19		09:18 (12)	07:09		07:45 (13)	06:43		05:24	04:28	
	15:51	64	13:50 (10)	16:55	28	09:46 (12)	18:01	32	08:17 (13)	20:10		21:16	22:15	
6	09:04		11:54 (11)	08:16		09:19 (12)	07:06		07:43 (13)	06:40		05:22	04:27	
	15:52	63	13:52 (10)	16:58	28	09:47 (12)	18:03	34	08:17 (13)	20:12		21:18	22:16	
7	09:04		11:55 (11)	08:14		09:19 (12)	07:03		07:42 (13)	06:37		05:19	04:26	
	15:54	62	13:52 (10)	17:00	27	09:46 (12)	18:06	35	08:17 (13)	20:14		21:21	22:17	
8	09:03		11:55 (11)	08:12		09:20 (12)	07:01		07:42 (13)	06:34		05:17	04:25	
	15:56	61	13:52 (10)	17:02	26	09:46 (12)	18:08	35	08:17 (13)	20:17		21:23	22:18	
9	09:02		11:57 (11)	08:10		09:21 (12)	06:58		07:41 (13)	06:32		05:15	04:25	
	15:57	59	13:52 (10)	17:05	23	09:44 (12)	18:10	36	08:17 (13)	20:19		21:25	22:19	
10	09:01		11:58 (11)	08:07		09:22 (12)	06:55		07:41 (13)	06:29		05:12	04:24	
	15:59	57	13:53 (10)	17:07	22	09:44 (12)	18:12	37	08:18 (13)	20:21		21:27	22:20	
11	09:00		12:00 (11)	08:05		09:23 (12)	06:52		07:41 (13)	06:26		05:10	04:23	
	16:01	56	13:54 (10)	17:10	19	09:42 (12)	18:15	36	08:17 (13)	20:23		21:29	22:21	
12	08:59		12:02 (11)	08:03		09:24 (12)	06:50		07:41 (13)	06:23		05:08	04:23	
	16:03	50	13:53 (10)	17:12	16	09:40 (12)	18:17	35	08:16 (13)	20:25		21:31	22:22	
13	08:58		13:13 (10)	08:00		09:27 (12)	06:47		07:41 (13)	06:21		05:06	04:22	
	16:05	41	13:54 (10)	17:14	11	09:38 (12)	18:19	35	08:16 (13)	20:28		21:33	22:23	
14	08:57		13:13 (10)	07:58			06:44		07:41 (13)	06:18		05:04	04:22	
	16:06	41	13:54 (10)	17:17			18:21	34	08:15 (13)	20:30		21:35	22:24	
15	08:56		13:14 (10)	07:55			06:41		07:41 (13)	06:15		05:02	04:21	
	16:08	41	13:55 (10)	17:19			18:24	33	08:14 (13)	20:32		21:38	22:25	
16	08:54		13:14 (10)	07:53			06:38		07:42 (13)	06:12		05:00	04:21	
	16:10	41	13:55 (10)	17:21			18:26	31	08:13 (13)	20:34		21:40	22:25	
17	08:53		13:14 (10)	07:51			06:36		07:43 (13)	06:10		04:58	04:21	
	16:12	41	13:55 (10)	17:24			18:28	29	08:12 (13)	20:36		21:42	22:26	
18	08:52		13:16 (10)	07:48			06:33		07:44 (13)	06:07		04:56	04:21	
	16:15	40	13:56 (10)	17:26			18:30	26	08:10 (13)	20:39		21:44	22:26	
19	08:50		13:16 (10)	07:46			06:30		07:45 (13)	06:04		04:54	04:21	
	16:17	39	13:55 (10)	17:29			18:32	22	08:07 (13)	20:41		21:46	22:27	
20	08:49		13:16 (10)	07:43			06:27		07:47 (13)	06:02		04:52	04:21	
	16:19	39	13:55 (10)	17:31			18:35	18	08:05 (13)	20:43		21:48	22:27	
21	08:47		13:17 (10)	07:40			06:25		07:51 (13)	05:59		04:50	04:21	
	16:21	38	13:55 (10)	17:33			18:37	10	08:01 (13)	20:45		21:50	22:28	
22	08:46		09:25 (12)	07:38			06:22			05:57		04:48	04:21	
	16:23	46	13:55 (10)	17:36			18:39			20:48		21:51	22:28	
23	08:44		09:23 (12)	07:35			06:19			05:54		04:46	04:21	
	16:25	51	13:55 (10)	17:38			18:41			20:50		21:53	22:28	
24	08:42		09:21 (12)	07:33			06:16			05:51		04:45	04:22	
	16:27	52	13:54 (10)	17:40			18:43			20:52		21:55	22:28	
25	08:41		09:21 (12)	07:30			06:13			05:49		04:43	04:22	
	16:30	53	13:54 (10)	17:43			18:46			20:54		21:57	22:28	
26	08:39		09:20 (12)	07:27			06:11			05:46		04:41	04:22	
	16:32	53	13:54 (10)	17:45			18:48			20:56		21:59	22:28	
27	08:37		09:19 (12)	07:25		07:56 (13)	06:08			05:44		04:40	04:23	
	16:34	54	13:53 (10)	17:47	10	08:06 (13)	18:50			20:59		22:01	22:28	
28	08:35		09:19 (12)	07:22		07:53 (13)	06:05			05:41		04:38	04:24	
	16:37	52	13:52 (10)	17:50	17	08:10 (13)	18:52			21:01		22:02	22:27	
29	08:33		09:18 (12)				07:02			05:39		04:37	04:24	
	16:39	51	13:50 (10)				19:55			21:03		22:04	22:27	
30	08:31		09:18 (12)				06:59			05:36		04:35	04:25	
	16:41	48	13:49 (10)				19:57			21:05		22:06	22:27	
31	08:29		09:18 (12)				06:57					04:34		
	16:44	43	13:47 (10)				19:59					22:07		
Potential sun hours	227			262			365			429		515	539	
Total, worst case		1598			348			625						
Sun reduction		0,13			0,22			0,37						
Oper. time red.		0,93			0,93			0,93						
Wind dir. red.		0,31			0,67			0,92						
Total reduction		0,04			0,14			0,31						
Total, real		60			48			197						

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

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

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Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
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SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CD - Vecmelderi

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:24		08:20 (13)	07:34		08:51 (12)	08:39		11:43 (11)
	22:26		21:41		20:23			18:59	35	08:55 (13)	16:38	23	09:14 (12)	15:43	55	13:36 (10)
2	04:27		05:17		06:23			07:27		08:19 (13)	07:36		08:50 (12)	08:41		11:42 (11)
	22:26		21:39		20:21			18:57	36	08:55 (13)	16:36	24	09:14 (12)	15:42	56	13:36 (10)
3	04:28		05:19		06:25			07:29		08:19 (13)	07:38		08:50 (12)	08:43		11:41 (11)
	22:25		21:37		20:18			18:54	36	08:55 (13)	16:33	25	09:15 (12)	15:41	59	13:36 (10)
4	04:29		05:21		06:27			07:31		08:19 (13)	07:41		08:49 (12)	08:44		11:40 (11)
	22:24		21:35		20:15			18:51	36	08:55 (13)	16:31	26	09:15 (12)	15:40	61	13:37 (10)
5	04:30		05:23		06:29			07:33		08:19 (13)	07:43		08:49 (12)	08:46		11:40 (11)
	22:24		21:32		20:12			18:48	35	08:54 (13)	16:29	27	09:16 (12)	15:39	62	13:37 (10)
6	04:31		05:25		06:31			07:35		08:19 (13)	07:45		08:48 (12)	08:48		11:39 (11)
	22:23		21:30		20:10			18:46	35	08:54 (13)	16:26	28	09:16 (12)	15:39	63	13:37 (10)
7	04:32		05:27		06:34			07:37		08:18 (13)	07:47		08:48 (12)	08:49		11:39 (11)
	22:22		21:28		20:07			18:43	35	08:53 (13)	16:24	29	09:17 (12)	15:38	63	13:37 (10)
8	04:33		05:30		06:36			07:40		08:19 (13)	07:50		08:48 (12)	08:51		11:40 (11)
	22:21		21:26		20:04			18:40	33	08:52 (13)	16:22	28	09:16 (12)	15:37	65	13:38 (10)
9	04:35		05:32		06:38			07:42		08:20 (13)	07:52		08:48 (12)	08:52		11:40 (11)
	22:20		21:23		20:01			18:37	31	08:51 (13)	16:20	29	09:17 (12)	15:37	65	13:38 (10)
10	04:36		05:34		06:40			07:44		08:20 (13)	07:54		08:49 (12)	08:54		11:40 (11)
	22:19		21:21		19:58			18:35	30	08:50 (13)	16:18	38	13:15 (10)	15:36	65	13:38 (10)
11	04:37		05:36		06:42			07:46		08:21 (13)	07:57		08:49 (12)	08:55		11:40 (11)
	22:18		21:18		19:56			18:32	27	08:48 (13)	16:16	44	13:18 (10)	15:36	66	13:39 (10)
12	04:39		05:38		06:44			07:48		08:23 (13)	07:59		08:50 (12)	08:56		11:40 (11)
	22:16		21:16		19:53			18:29	24	08:47 (13)	16:14	48	13:21 (10)	15:35	66	13:39 (10)
13	04:40		05:40		06:46			07:51		08:24 (13)	08:01		08:50 (12)	08:57		11:40 (11)
	22:15		21:13		19:50			18:26	20	08:44 (13)	16:12	50	13:22 (10)	15:35	66	13:39 (10)
14	04:42		05:42		06:48			07:53		08:26 (13)	08:03		08:51 (12)	08:59		11:41 (11)
	22:14		21:11		19:47			18:24	15	08:41 (13)	16:10	52	13:24 (10)	15:35	66	13:40 (10)
15	04:43		05:45		06:50			07:55		08:32 (13)	08:06		08:51 (12)	09:00		11:41 (11)
	22:12		21:08		19:44			18:21	4	08:36 (13)	16:08	53	13:25 (10)	15:35	67	13:40 (10)
16	04:45		05:47		06:53			07:57			08:08		08:53 (12)	09:01		11:41 (11)
	22:11		21:06		19:42			18:18			16:06	53	13:27 (10)	15:35	67	13:41 (10)
17	04:47		05:49		06:55			07:59			08:10		08:55 (12)	09:02		11:42 (11)
	22:09		21:03		19:39			18:16			16:04	53	13:28 (10)	15:35	67	13:41 (10)
18	04:48		05:51		06:57			08:02			08:12		08:55 (12)	09:02		11:42 (11)
	22:08		21:01		19:36			18:13			16:02	52	13:28 (10)	15:35	67	13:42 (10)
19	04:50		05:53		06:59			08:04			08:15		08:58 (12)	09:03		11:42 (11)
	22:06		20:58		19:33			18:10			16:00	51	13:30 (10)	15:35	66	13:41 (10)
20	04:52		05:55		07:01			08:06			08:17		09:00 (12)	09:04		11:43 (11)
	22:05		20:56		19:30			18:08			15:59	46	13:30 (10)	15:35	67	13:42 (10)
21	04:54		05:57		07:03			08:08			08:19		12:53 (10)	09:05		11:43 (11)
	22:03		20:53		19:27			18:05			15:57	38	13:31 (10)	15:36	68	13:43 (10)
22	04:55		05:59		07:05		08:37 (13)	08:11			08:21		12:52 (10)	09:05		11:43 (11)
	22:01		20:50		19:25	7	08:44 (13)	18:03			15:55	39	13:31 (10)	15:36	68	13:43 (10)
23	04:57		06:02		07:07		08:32 (13)	08:13			08:23		12:52 (10)	09:06		11:45 (11)
	21:59		20:48		19:22	16	08:48 (13)	18:00			15:54	40	13:32 (10)	15:37	67	13:44 (10)
24	04:59		06:04		07:10		08:29 (13)	08:15			08:25		12:53 (10)	09:06		11:45 (11)
	21:58		20:45		19:19	22	08:51 (13)	17:58			15:52	40	13:33 (10)	15:37	67	13:44 (10)
25	05:01		06:06		07:12		08:27 (13)	07:18			08:27		12:52 (10)	09:06		11:45 (11)
	21:56		20:42		19:16	25	08:52 (13)	16:55			15:51	41	13:33 (10)	15:38	67	13:45 (10)
26	05:03		06:08		07:14		08:25 (13)	07:20			08:29		12:53 (10)	09:07		11:46 (11)
	21:54		20:40		19:13	28	08:53 (13)	16:53			15:49	41	13:34 (10)	15:39	67	13:45 (10)
27	05:05		06:10		07:16		08:24 (13)	07:22			08:31		12:53 (10)	09:07		11:46 (11)
	21:52		20:37		19:11	30	08:54 (13)	16:50			15:48	41	13:34 (10)	15:40	67	13:45 (10)
28	05:07		06:12		07:18		08:23 (13)	07:24			08:33		12:53 (10)	09:07		11:47 (11)
	21:50		20:34		19:08	32	08:55 (13)	16:48			15:47	41	13:34 (10)	15:41	66	13:46 (10)
29	05:09		06:14		07:20		08:22 (13)	07:27		08:56 (12)	08:35		12:53 (10)	09:07		11:48 (11)
	21:48		20:32		19:05	33	08:55 (13)	16:45	12	09:08 (12)	15:45	41	13:34 (10)	15:42	66	13:47 (10)
30	05:11		06:17		07:22		08:21 (13)	07:29		08:53 (12)	08:37		11:43 (11)	09:07		11:47 (11)
	21:46		20:29		19:02	34	08:55 (13)	16:43	17	09:10 (12)	15:44	51	13:35 (10)	15:43	68	13:47 (10)
31	05:13		06:19					07:31		08:52 (12)				09:07		11:49 (11)
	21:44		20:26					16:40	20	09:12 (12)				15:44	66	13:48 (10)
Potential sun hours	539		475		386			321			241			207		
Total, worst case						227			481			1192			2016	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,92			0,90			0,44			0,20	
Total reduction						0,37			0,26			0,06			0,02	
Total, real						84			123			75			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CE - Vecsilupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March		April		May	June
1	09:07	10:36 (11)	08:27	11:55 (10)	07:20	08:33 (12)	06:54	07:50 (13)	05:34	04:33
	15:45 90	13:29 (7)	16:46 68	15:50 (1)	17:52 7	08:40 (12)	20:01 22	08:12 (13)	21:07	22:09
2	09:06	10:37 (11)	08:25	11:55 (10)	07:17		06:51	07:51 (13)	05:31	04:32
	15:47 88	13:29 (7)	16:48 55	15:47 (1)	17:54		20:03 19	08:10 (13)	21:10	22:10
3	09:06	10:37 (11)	08:23	11:56 (10)	07:14		06:48	07:52 (13)	05:29	04:30
	15:48 82	12:34 (10)	16:51 49	12:45 (10)	17:56		20:06 15	08:07 (13)	21:12	22:12
4	09:05	10:38 (11)	08:21	11:56 (10)	07:11		06:45	07:55 (13)	05:26	04:29
	15:49 82	12:34 (10)	16:53 47	12:43 (10)	17:59		20:08 7	08:02 (13)	21:14	22:13
5	09:05	10:38 (11)	08:19	11:57 (10)	07:09		06:43		05:24	04:28
	15:51 83	12:35 (10)	16:55 46	12:43 (10)	18:01		20:10		21:16	22:15
6	09:04	10:39 (11)	08:16	11:59 (10)	07:06		06:40		05:22	04:27
	15:52 83	12:36 (10)	16:58 44	12:43 (10)	18:03		20:12		21:18	22:16
7	09:04	10:40 (11)	08:14	12:00 (10)	07:03		06:37		05:19	04:26
	15:54 84	12:37 (10)	17:00 41	12:41 (10)	18:06		20:14		21:21	22:17
8	09:03	10:39 (11)	08:12	12:01 (10)	07:01		06:34		05:17	04:25
	15:56 85	12:37 (10)	17:03 39	12:40 (10)	18:08		20:17		21:23	22:18
9	09:02	10:40 (11)	08:10	12:03 (10)	06:58		06:32		05:15	04:25
	15:57 86	12:38 (10)	17:05 35	12:38 (10)	18:10		20:19		21:25	22:19
10	09:01	10:40 (11)	08:07	12:05 (10)	06:55		06:29		05:12	04:24
	15:59 89	15:15 (4)	17:07 32	12:37 (10)	18:12		20:21		21:27	22:20
11	09:00	10:41 (11)	08:05	12:07 (10)	06:52		06:26		05:10	04:23
	16:01 93	15:18 (4)	17:10 27	12:34 (10)	18:15		20:23		21:29	22:21
12	08:59	10:41 (11)	08:03	08:35 (12)	06:50		06:23		05:08	04:23
	16:03 95	15:19 (4)	17:12 29	12:32 (10)	18:17		20:25		21:31	22:22
13	08:58	10:42 (11)	08:00	08:31 (12)	06:47		06:21		05:06	04:22
	16:05 99	15:22 (4)	17:14 26	12:27 (10)	18:19		20:28		21:33	22:23
14	08:57	10:42 (11)	07:58	08:29 (12)	06:44		06:18		05:04	04:22
	16:06 102	15:24 (4)	17:17 17	08:46 (12)	18:21		20:30		21:36	22:24
15	08:56	10:43 (11)	07:55	08:28 (12)	06:41		06:15		05:02	04:21
	16:08 103	15:27 (4)	17:19 20	08:48 (12)	18:24		20:32		21:38	22:25
16	08:54	10:43 (11)	07:53	08:27 (12)	06:39		06:12		05:00	04:21
	16:10 105	15:28 (4)	17:22 22	08:49 (12)	18:26		20:34		21:40	22:25
17	08:53	10:43 (11)	07:51	08:25 (12)	06:36	07:02 (13)	06:10		04:58	04:21
	16:12 109	15:30 (4)	17:24 24	08:49 (12)	18:28 8	07:10 (13)	20:36		21:42	22:26
18	08:52	10:45 (11)	07:48	08:25 (12)	06:33	06:59 (13)	06:07		04:56	04:21
	16:15 109	15:31 (4)	17:26 25	08:50 (12)	18:30 14	07:13 (13)	20:39		21:44	22:26
19	08:50	10:45 (11)	07:46	08:25 (12)	06:30	06:56 (13)	06:04		04:54	04:21
	16:17 111	15:36 (1)	17:29 25	08:50 (12)	18:32 18	07:14 (13)	20:41		21:46	22:27
20	08:49	10:46 (11)	07:43	08:24 (12)	06:27	06:53 (13)	06:02		04:52	04:21
	16:19 112	15:38 (1)	17:31 26	08:50 (12)	18:35 22	07:15 (13)	20:43		21:48	22:27
21	08:47	10:47 (11)	07:40	08:25 (12)	06:25	06:52 (13)	05:59		04:50	04:21
	16:21 115	15:41 (1)	17:33 26	08:51 (12)	18:37 25	07:17 (13)	20:45		21:50	22:28
22	08:46	10:48 (11)	07:38	08:24 (12)	06:22	06:51 (13)	05:57		04:48	04:21
	16:23 116	15:43 (1)	17:36 26	08:50 (12)	18:39 26	07:17 (13)	20:48		21:51	22:28
23	08:44	10:49 (11)	07:35	08:24 (12)	06:19	06:49 (13)	05:54		04:46	04:21
	16:25 117	15:46 (1)	17:38 25	08:49 (12)	18:41 28	07:17 (13)	20:50		21:53	22:28
24	08:42	10:50 (11)	07:33	08:25 (12)	06:16	06:49 (13)	05:51		04:45	04:22
	16:28 117	15:48 (1)	17:40 25	08:50 (12)	18:44 28	07:17 (13)	20:52		21:55	22:28
25	08:41	10:51 (11)	07:30	08:26 (12)	06:13	06:48 (13)	05:49		04:43	04:22
	16:30 116	15:51 (1)	17:43 22	08:48 (12)	18:46 29	07:17 (13)	20:54		21:57	22:28
26	08:39	10:53 (11)	07:27	08:26 (12)	06:11	06:47 (13)	05:46		04:41	04:22
	16:32 114	15:52 (1)	17:45 21	08:47 (12)	18:48 30	07:17 (13)	20:56		21:59	22:28
27	08:37	10:55 (11)	07:25	08:27 (12)	06:08	06:48 (13)	05:44		04:40	04:23
	16:34 109	15:53 (1)	17:47 18	08:45 (12)	18:50 29	07:17 (13)	20:59		22:01	22:28
28	08:35	10:58 (11)	07:22	08:30 (12)	06:05	06:48 (13)	05:41		04:38	04:24
	16:37 102	15:53 (1)	17:50 14	08:44 (12)	18:52 28	07:16 (13)	21:01		22:02	22:27
29	08:33	11:52 (10)			07:02	07:47 (13)	05:39		04:37	04:24
	16:39 88	15:52 (1)			19:55 28	08:15 (13)	21:03		22:04	22:27
30	08:31	11:53 (10)			06:59	07:48 (13)	05:36		04:35	04:25
	16:41 83	15:51 (1)			19:57 26	08:14 (13)	21:05		22:06	22:27
31	08:29	11:54 (10)			06:57	07:49 (13)			04:34	
	16:44 77	15:51 (1)			19:59 24	08:13 (13)			22:07	
Potential sun hours	227		262		365		429		515	539
Total, worst case	3044		874		370		63			
Sun reduction	0,13		0,22		0,37		0,46			
Oper. time red.	0,93		0,93		0,93		0,93			
Wind dir. red.	0,23		0,37		0,99		0,99			
Total reduction	0,03		0,08		0,34		0,42			
Total, real	85		67		124		27			

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CE - Vecsilupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September			October			November			December		
1	04:26		05:15		06:21			07:24			07:34		11:34 (10)	08:39		10:23 (11)
	22:26		21:41		20:23			18:59			16:38	33	12:07 (10)	15:43	93	15:00 (4)
2	04:27		05:17		06:23			07:27			07:36		11:32 (10)	08:41		10:23 (11)
	22:26		21:39		20:21			18:57			16:36	36	12:08 (10)	15:42	89	14:58 (4)
3	04:28		05:19		06:25			07:29			07:38		11:31 (10)	08:43		10:24 (11)
	22:25		21:37		20:18			18:54			16:33	39	12:10 (10)	15:41	85	12:22 (10)
4	04:29		05:21		06:27			07:31			07:41		11:29 (10)	08:44		10:24 (11)
	22:24		21:35		20:15			18:51			16:31	42	12:11 (10)	15:40	86	12:22 (10)
5	04:30		05:23		06:29			07:33			07:43		11:28 (10)	08:46		10:25 (11)
	22:24		21:33		20:12			18:48			16:29	44	12:12 (10)	15:39	84	12:22 (10)
6	04:31		05:25		06:31			07:35			07:45		11:27 (10)	08:48		10:24 (11)
	22:23		21:30		20:10			18:46			16:26	46	12:13 (10)	15:39	84	12:22 (10)
7	04:32		05:28		06:34			07:37			07:47		11:27 (10)	08:49		10:25 (11)
	22:22		21:28		20:07			18:43			16:24	47	12:14 (10)	15:38	83	12:22 (10)
8	04:33		05:30		06:36		07:51 (13)	07:40			07:50		11:26 (10)	08:51		10:26 (11)
	22:21		21:26		20:04	6	07:57 (13)	18:40			16:22	49	12:15 (10)	15:37	82	12:22 (10)
9	04:35		05:32		06:38		07:47 (13)	07:42			07:52		11:25 (10)	08:52		10:27 (11)
	22:20		21:23		20:01	14	08:01 (13)	18:37			16:20	56	15:18 (1)	15:37	81	12:23 (10)
10	04:36		05:34		06:40		07:44 (13)	07:44			07:54		11:25 (10)	08:54		10:26 (11)
	22:19		21:21		19:58	19	08:03 (13)	18:35			16:18	69	15:21 (1)	15:36	89	13:18 (7)
11	04:37		05:36		06:42		07:42 (13)	07:46			07:57		11:24 (10)	08:55		10:28 (11)
	22:18		21:18		19:56	22	08:04 (13)	18:32			16:16	78	15:22 (1)	15:36	89	13:20 (7)
12	04:39		05:38		06:44		07:40 (13)	07:48			07:59		11:25 (10)	08:56		10:28 (11)
	22:16		21:16		19:53	25	08:05 (13)	18:29			16:14	83	15:23 (1)	15:35	91	13:21 (7)
13	04:40		05:40		06:46		07:39 (13)	07:51		09:04 (12)	08:01		11:24 (10)	08:57		10:28 (11)
	22:15		21:13		19:50	26	08:05 (13)	18:26	11	09:15 (12)	16:12	86	15:23 (1)	15:35	90	13:21 (7)
14	04:42		05:42		06:48		07:38 (13)	07:53		09:01 (12)	08:03		10:30 (11)	08:59		10:29 (11)
	22:14		21:11		19:47	27	08:05 (13)	18:24	16	09:17 (12)	16:10	102	15:25 (1)	15:35	92	13:23 (7)
15	04:43		05:45		06:50		07:37 (13)	07:55		09:00 (12)	08:06		10:27 (11)	09:00		10:29 (11)
	22:12		21:08		19:44	29	08:06 (13)	18:21	19	09:19 (12)	16:08	110	15:25 (1)	15:35	92	13:24 (7)
16	04:45		05:47		06:53		07:36 (13)	07:57		08:58 (12)	08:08		10:26 (11)	09:01		10:30 (11)
	22:11		21:06		19:42	29	08:05 (13)	18:18	21	09:19 (12)	16:06	114	15:25 (1)	15:35	93	13:25 (7)
17	04:47		05:49		06:55		07:36 (13)	07:59		08:56 (12)	08:10		10:25 (11)	09:02		10:30 (11)
	22:09		21:03		19:39	29	08:05 (13)	18:16	24	09:20 (12)	16:04	116	15:25 (1)	15:35	92	13:25 (7)
18	04:48		05:51		06:57		07:35 (13)	08:02		08:56 (12)	08:12		10:24 (11)	09:02		10:31 (11)
	22:08		21:01		19:36	30	08:05 (13)	18:13	25	09:21 (12)	16:02	117	15:22 (1)	15:35	93	13:26 (7)
19	04:50		05:53		06:59		07:35 (13)	08:04		08:55 (12)	08:15		10:24 (11)	09:03		10:31 (11)
	22:06		20:58		19:33	29	08:04 (13)	18:10	26	09:21 (12)	16:00	117	15:21 (1)	15:35	93	13:26 (7)
20	04:52		05:55		07:01		07:36 (13)	08:06		08:55 (12)	08:17		10:23 (11)	09:04		10:32 (11)
	22:05		20:56		19:30	28	08:04 (13)	18:08	26	09:21 (12)	15:59	116	15:18 (1)	15:36	92	13:27 (7)
21	04:54		05:57		07:03		07:36 (13)	08:08		08:55 (12)	08:19		10:23 (11)	09:05		10:33 (11)
	22:03		20:53		19:27	27	08:03 (13)	18:05	26	09:21 (12)	15:57	115	15:17 (1)	15:36	92	13:28 (7)
22	04:55		06:00		07:05		07:36 (13)	08:11		08:55 (12)	08:21		10:22 (11)	09:05		10:33 (11)
	22:01		20:50		19:25	26	08:02 (13)	18:03	26	09:21 (12)	15:55	111	15:14 (1)	15:36	92	13:28 (7)
23	04:57		06:02		07:07		07:37 (13)	08:13		08:55 (12)	08:23		10:21 (11)	09:06		10:34 (11)
	21:59		20:48		19:22	23	08:00 (13)	18:00	25	09:20 (12)	15:54	111	15:12 (1)	15:37	92	13:29 (7)
24	04:59		06:04		07:10		07:39 (13)	08:15		08:55 (12)	08:25		10:22 (11)	09:06		10:34 (11)
	21:58		20:45		19:19	20	07:59 (13)	17:58	24	09:19 (12)	15:52	108	15:08 (4)	15:37	93	13:29 (7)
25	05:01		06:06		07:12		07:41 (13)	07:18		07:56 (12)	08:27		10:22 (11)	09:06		10:34 (11)
	21:56		20:42		19:16	15	07:56 (13)	16:55	23	08:19 (12)	15:51	107	15:08 (4)	15:38	93	13:29 (7)
26	05:03		06:08		07:14		07:43 (13)	07:20		07:56 (12)	08:29		10:22 (11)	09:07		10:34 (11)
	21:54		20:40		19:13	10	07:53 (13)	16:53	22	08:18 (12)	15:49	106	15:08 (4)	15:39	92	13:29 (7)
27	05:05		06:10		07:16			07:22		07:58 (12)	08:31		10:22 (11)	09:07		10:35 (11)
	21:52		20:37		19:11			16:50	19	08:17 (12)	15:48	103	15:06 (4)	15:40	91	13:29 (7)
28	05:07		06:12		07:18			07:24		07:59 (12)	08:33		10:22 (11)	09:07		10:35 (11)
	21:50		20:34		19:08			16:48	16	08:15 (12)	15:47	102	15:04 (4)	15:41	93	13:30 (7)
29	05:09		06:14		07:20			07:27		08:01 (12)	08:35		10:22 (11)	09:07		10:36 (11)
	21:48		20:32		19:05			16:45	26	11:57 (10)	15:45	98	15:02 (4)	15:42	92	13:30 (7)
30	05:11		06:17		07:22			07:29		08:04 (12)	08:37		10:22 (11)	09:07		10:36 (11)
	21:46		20:29		19:02			16:43	28	12:01 (10)	15:44	95	15:00 (4)	15:43	92	13:29 (7)
31	05:13		06:19					07:31		11:36 (10)				09:07		10:36 (11)
	21:44		20:26					16:40	28	12:04 (10)				15:44	92	13:30 (7)
Potential sun hours	538		475		386			321			241			207		
Total, worst case						434			431			2556			2787	
Sun reduction						0,43			0,31			0,15			0,13	
Oper. time red.						0,93			0,93			0,93			0,93	
Wind dir. red.						0,99			0,71			0,23			0,17	
Total reduction						0,40			0,20			0,03			0,02	
Total, real						172			87			83			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CF - Vecspridi 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
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:34	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:57	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:41	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:33	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:17	21:23	22:18	22:21	21:26	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:36	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:10	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:03
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:04	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:52	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:41	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:43
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
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)		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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CG - Vecto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January			February			March			April			May			June		
1	09:06			08:27		15:24 (9)	07:19			06:54			05:34		18:59 (12)	04:33		
	15:45			16:46	28	15:52 (9)	17:52			20:01			21:07	48	19:47 (12)	22:09		
2	09:06			08:25		15:24 (9)	07:17			06:51			05:31		18:58 (12)	04:31		
	15:47			16:48	28	15:52 (9)	17:54			20:03			21:09	47	19:45 (12)	22:10		
3	09:06			08:23		15:25 (9)	07:14			06:48			05:29		18:59 (12)	04:30		
	15:48			16:51	28	15:53 (9)	17:56			20:05			21:12	46	19:45 (12)	22:12		
4	09:05			08:21		15:25 (9)	07:11			06:45			05:26		18:59 (12)	04:29		
	15:49			16:53	27	15:52 (9)	17:59			20:08			21:14	46	19:45 (12)	22:13		
5	09:05			08:18		15:25 (9)	07:09			06:42			05:24		19:00 (12)	04:28		
	15:51			16:55	27	15:52 (9)	18:01			20:10			21:16	45	19:45 (12)	22:14		
6	09:04			08:16		15:25 (9)	07:06			06:40			05:22		19:00 (12)	04:27		
	15:52			16:58	26	15:51 (9)	18:03			20:12			21:18	43	19:43 (12)	22:16		
7	09:03			08:14		15:26 (9)	07:03			06:37			05:19		19:00 (12)	04:26		
	15:54			17:00	25	15:51 (9)	18:05			20:14			21:20	43	19:43 (12)	22:17		
8	09:03			08:12		15:27 (9)	07:00			06:34			05:17		19:01 (12)	04:25		
	15:56			17:02	23	15:50 (9)	18:08			20:16			21:23	41	19:42 (12)	22:18		
9	09:02			08:10		15:28 (9)	06:58			06:31			05:15		19:02 (12)	04:25		
	15:57			17:05	22	15:50 (9)	18:10			20:19			21:25	39	19:41 (12)	22:19		
10	09:01			08:07		15:29 (9)	06:55			06:29			05:12		19:03 (12)	04:24		
	15:59			17:07	19	15:48 (9)	18:12			20:21			21:27	38	19:41 (12)	22:20		
11	09:00			08:05		15:32 (9)	06:52			06:26		19:21 (12)	05:10		19:04 (12)	04:23		
	16:01			17:10	15	15:47 (9)	18:14			20:23	10	19:31 (12)	21:29	36	19:40 (12)	22:21		
12	08:59			08:03		15:34 (9)	06:49			06:23		19:16 (12)	05:08		19:05 (12)	04:23		
	16:03			17:12	10	15:44 (9)	18:17			20:25	20	19:36 (12)	21:31	34	19:39 (12)	22:22		
13	08:58			08:00			06:47			06:20		19:13 (12)	05:06		19:06 (12)	04:22		
	16:04			17:14			18:19			20:27	25	19:38 (12)	21:33	31	19:37 (12)	22:23		
14	08:57			07:58			06:44			06:18		19:10 (12)	05:04		19:07 (12)	04:22		
	16:06			17:17			18:21			20:30	30	19:40 (12)	21:35	29	19:36 (12)	22:24		
15	08:55			07:55			06:41			06:15		19:09 (12)	05:02		19:09 (12)	04:21		
	16:08			17:19			18:23			20:32	33	19:42 (12)	21:37	27	19:36 (12)	22:24		
16	08:54			07:53			06:38			06:12		19:07 (12)	05:00		19:11 (12)	04:21		
	16:10			17:21			18:26			20:34	36	19:43 (12)	21:39	23	19:34 (12)	22:25		
17	08:53			07:50			06:36		17:52 (11)	06:10		19:06 (12)	04:58		19:13 (12)	04:21		
	16:12			17:24			18:28	7	17:59 (11)	20:36	38	19:44 (12)	21:41	19	19:32 (12)	22:26		
18	08:51			07:48			06:33		17:50 (11)	06:07		19:04 (12)	04:56		19:15 (12)	04:21		
	16:14			17:26			18:30	11	18:01 (11)	20:38	41	19:45 (12)	21:43	14	19:29 (12)	22:26		
19	08:50			07:45			06:30		17:48 (11)	06:04		19:04 (12)	04:54		19:20 (12)	04:21		
	16:17			17:28			18:32	15	18:03 (11)	20:41	42	19:46 (12)	21:45	5	19:25 (12)	22:27		
20	08:49			07:43			06:27		17:46 (11)	06:02		19:02 (12)	04:52			04:21		
	16:19			17:31			18:35	19	18:05 (11)	20:43	44	19:46 (12)	21:47			22:27		
21	08:47		15:31 (9)	07:40			06:24		17:45 (11)	05:59		19:01 (12)	04:50			04:21		
	16:21	10	15:41 (9)	17:33			18:37	21	18:06 (11)	20:45	45	19:46 (12)	21:49			22:27		
22	08:45		15:29 (9)	07:38			06:22		17:45 (11)	05:56		19:01 (12)	04:48			04:21		
	16:23	14	15:43 (9)	17:35			18:39	22	18:07 (11)	20:47	46	19:47 (12)	21:51			22:27		
23	08:44		15:28 (9)	07:35			06:19		17:44 (11)	05:54		19:01 (12)	04:46			04:21		
	16:25	17	15:45 (9)	17:38			18:41	23	18:07 (11)	20:50	46	19:47 (12)	21:53			22:28		
24	08:42		15:27 (9)	07:33			06:16		17:44 (11)	05:51		18:59 (12)	04:45			04:21		
	16:27	19	15:46 (9)	17:40			18:43	23	18:07 (11)	20:52	48	19:47 (12)	21:55			22:28		
25	08:40		15:26 (9)	07:30			06:13		17:43 (11)	05:49		18:59 (12)	04:43			04:22		
	16:30	21	15:47 (9)	17:42			18:46	23	18:06 (11)	20:54	48	19:47 (12)	21:57			22:28		
26	08:39		15:26 (9)	07:27			06:10		17:43 (11)	05:46		18:59 (12)	04:41			04:22		
	16:32	23	15:49 (9)	17:45			18:48	22	18:05 (11)	20:56	48	19:47 (12)	21:59			22:28		
27	08:37		15:25 (9)	07:25			06:08		17:44 (11)	05:44		18:59 (12)	04:40			04:23		
	16:34	25	15:50 (9)	17:47			18:50	21	18:05 (11)	20:58	48	19:47 (12)	22:00			22:27		
28	08:35		15:24 (9)	07:22			06:05		17:45 (11)	05:41		18:58 (12)	04:38			04:23		
	16:37	26	15:50 (9)	17:49			18:52	18	18:03 (11)	21:01	48	19:46 (12)	22:02			22:27		
29	08:33		15:24 (9)				07:02		18:46 (11)	05:38		18:58 (12)	04:37			04:24		
	16:39	27	15:51 (9)				19:54	15	19:01 (11)	21:03	48	19:46 (12)	22:04			22:27		
30	08:31		15:24 (9)				06:59		18:48 (11)	05:36		18:59 (12)	04:35			04:25		
	16:41	27	15:51 (9)				19:57	11	18:59 (11)	21:05	48	19:47 (12)	22:05			22:26		
31	08:29		15:25 (9)				06:56						04:34					
	16:43	27	15:52 (9)				19:59						22:07					
Potential sun hours	227			262			365			429			515			539		
Total, worst case		236			278			251			792			654				
Sun reduction		0,13			0,22			0,37			0,46			0,58				
Oper. time red.		0,93			0,93			0,93			0,93			0,93				
Wind dir. red.		0,72			0,72			1,00			0,98			0,98				
Total reduction		0,09			0,15			0,34			0,42			0,53				
Total, real		21			41			85			334			347				

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

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

Licensed user:
Enviroprojekts, SIA
Maza Nometnu iela 31
LV-1002 Riga
+37129262684
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CG - Vecto š eni

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July			August			September			October			November			December
1	04:26			05:15		19:14 (12)	06:21		19:21 (12)	07:24			07:33		14:59 (9)	08:39
	22:26			21:41	35	19:49 (12)	20:23	10	19:31 (12)	18:59			16:38	19	15:18 (9)	15:43
2	04:27			05:17		19:14 (12)	06:23			07:26			07:36		14:58 (9)	08:41
	22:25			21:39	36	19:50 (12)	20:20			18:56			16:35	22	15:20 (9)	15:42
3	04:28			05:19		19:13 (12)	06:25			07:29			07:38		14:56 (9)	08:42
	22:25			21:37	38	19:51 (12)	20:18			18:54			16:33	24	15:20 (9)	15:41
4	04:29			05:21		19:12 (12)	06:27			07:31			07:40		14:56 (9)	08:44
	22:24			21:35	40	19:52 (12)	20:15			18:51			16:31	25	15:21 (9)	15:40
5	04:30			05:23		19:11 (12)	06:29			07:33			07:43		14:56 (9)	08:46
	22:23			21:32	42	19:53 (12)	20:12			18:48			16:29	26	15:22 (9)	15:39
6	04:31			05:25		19:10 (12)	06:31			07:35			07:45		14:55 (9)	08:47
	22:23			21:30	43	19:53 (12)	20:09			18:45			16:26	27	15:22 (9)	15:39
7	04:32			05:27		19:10 (12)	06:33			07:37			07:47		14:55 (9)	08:49
	22:22			21:28	44	19:54 (12)	20:07			18:43			16:24	28	15:23 (9)	15:38
8	04:33			05:30		19:09 (12)	06:36			07:39			07:50		14:55 (9)	08:51
	22:21			21:25	45	19:54 (12)	20:04			18:40			16:22	27	15:22 (9)	15:37
9	04:34			05:32		19:09 (12)	06:38			07:42			07:52		14:55 (9)	08:52
	22:20			21:23	45	19:54 (12)	20:01			18:37			16:20	28	15:23 (9)	15:37
10	04:36			05:34		19:08 (12)	06:40			07:44			07:54		14:55 (9)	08:53
	22:19			21:21	47	19:55 (12)	19:58			18:34			16:18	27	15:22 (9)	15:36
11	04:37			05:36		19:08 (12)	06:42			07:46			07:56		14:55 (9)	08:55
	22:17			21:18	47	19:55 (12)	19:55			18:32			16:16	28	15:23 (9)	15:36
12	04:39			05:38		19:07 (12)	06:44			07:48			07:59		14:56 (9)	08:56
	22:16			21:16	48	19:55 (12)	19:53			18:29			16:14	27	15:23 (9)	15:35
13	04:40			05:40		19:07 (12)	06:46		18:40 (11)	07:50			08:01		14:56 (9)	08:57
	22:15			21:13	48	19:55 (12)	19:50	10	18:50 (11)	18:26			16:12	26	15:22 (9)	15:35
14	04:42			05:42		19:06 (12)	06:48		18:37 (11)	07:53			08:03		14:57 (9)	08:58
	22:14			21:11	48	19:54 (12)	19:47	14	18:51 (11)	18:24			16:10	26	15:23 (9)	15:35
15	04:43			05:44		19:05 (12)	06:50		18:35 (11)	07:55			08:06		14:57 (9)	08:59
	22:12			21:08	49	19:54 (12)	19:44	17	18:52 (11)	18:21			16:08	25	15:22 (9)	15:35
16	04:45			05:47		19:05 (12)	06:52		18:33 (11)	07:57			08:08		14:59 (9)	09:00
	22:11			21:06	49	19:54 (12)	19:41	20	18:53 (11)	18:18			16:06	23	15:22 (9)	15:35
17	04:47			05:49		19:05 (12)	06:55		18:32 (11)	07:59			08:10		14:59 (9)	09:01
	22:09			21:03	48	19:53 (12)	19:39	21	18:53 (11)	18:16			16:04	21	15:20 (9)	15:35
18	04:48			05:51		19:05 (12)	06:57		18:31 (11)	08:02			08:12		15:01 (9)	09:02
	22:08			21:01	48	19:53 (12)	19:36	22	18:53 (11)	18:13			16:02	19	15:20 (9)	15:35
19	04:50			05:53		19:05 (12)	06:59		18:30 (11)	08:04			08:14		15:02 (9)	09:03
	22:06			20:58	47	19:52 (12)	19:33	23	18:53 (11)	18:10			16:00	17	15:19 (9)	15:35
20	04:52			05:55		19:05 (12)	07:01		18:30 (11)	08:06			08:17		15:04 (9)	09:04
	22:04			20:55	47	19:52 (12)	19:30	23	18:53 (11)	18:08			15:59	14	15:18 (9)	15:35
21	04:54			05:57		19:05 (12)	07:03		18:29 (11)	08:08			08:19		15:06 (9)	09:04
	22:03			20:53	46	19:51 (12)	19:27	23	18:52 (11)	18:05			15:57	10	15:16 (9)	15:36
22	04:55			05:59		19:06 (12)	07:05		18:30 (11)	08:11			08:21			09:05
	22:01			20:50	44	19:50 (12)	19:24	22	18:52 (11)	18:03			15:55			15:36
23	04:57			06:02		19:06 (12)	07:07		18:30 (11)	08:13			08:23			09:05
	21:59			20:48	43	19:49 (12)	19:22	21	18:51 (11)	18:00			15:54			15:37
24	04:59			06:04		19:06 (12)	07:09		18:31 (11)	08:15			08:25			09:06
	21:57			20:45	42	19:48 (12)	19:19	17	18:48 (11)	17:57			15:52			15:37
25	05:01		19:28 (12)	06:06		19:07 (12)	07:11		18:32 (11)	07:17			08:27			09:06
	21:55	10	19:38 (12)	20:42	40	19:47 (12)	19:16	13	18:45 (11)	16:55			15:51			15:38
26	05:03		19:25 (12)	06:08		19:08 (12)	07:14		18:33 (11)	07:20			08:29			09:06
	21:54	16	19:41 (12)	20:40	38	19:46 (12)	19:13	9	18:42 (11)	16:52			15:49			15:39
27	05:05		19:22 (12)	06:10		19:09 (12)	07:16		18:37 (11)	07:22			08:31			09:07
	21:52	21	19:43 (12)	20:37	35	19:44 (12)	19:10	2	18:39 (11)	16:50			15:48			15:40
28	05:07		19:20 (12)	06:12		19:10 (12)	07:18			07:24			08:33			09:07
	21:50	25	19:45 (12)	20:34	33	19:43 (12)	19:08			16:47			15:47			15:41
29	05:09		19:19 (12)	06:14		19:11 (12)	07:20			07:27			08:35			09:07
	21:48	27	19:46 (12)	20:31	30	19:41 (12)	19:05			16:45			15:45			15:42
30	05:11		19:18 (12)	06:16		19:13 (12)	07:22			07:29		15:03 (9)	08:37			09:07
	21:45	30	19:48 (12)	20:29	25	19:38 (12)	19:02			16:43	11	15:14 (9)	15:44			15:43
31	05:13		19:16 (12)	06:19		19:16 (12)				07:31		15:01 (9)				09:07
	21:43	33	19:49 (12)	20:26	19	19:35 (12)				16:40	16	15:17 (9)				15:44
Potential sun hours	538			474			386			321			241			207
Total, worst case		162			1289			267			27			489		
Sun reduction		0,57			0,55			0,43			0,31			0,15		
Oper. time red.		0,93			0,93			0,93			0,93			0,93		
Wind dir. red.		0,98			0,98			1,00			0,72			0,72		
Total reduction		0,52			0,50			0,40			0,20			0,10		
Total, real		84			644			106			6			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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CH - Vecupites

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:07	08:27	07:19	06:54	05:33	04:33	04:26	05:15	06:21	07:24	07:34	08:39
	15:45	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:31	04:26	05:17	06:23	07:27	07:36	08:41
	15:46	16:48	17:54	20:03	21:10	22:10	22:26	21:39	20:21	18:56	16:35	15:42
3	09:06	08:23	07:14	06:48	05:29	04:30	04:27	05:19	06:25	07:29	07:38	08:43
	15:48	16:50	17:56	20:05	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:26	04:29	04:28	05:21	06:27	07:31	07:40	08:44
	15:49	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:42	05:24	04:28	04:29	05:23	06:29	07:33	07:43	08:46
	15:51	16:55	18:01	20:10	21:16	22:15	22:24	21:32	20:12	18:48	16:29	15:39
6	09:04	08:16	07:06	06:40	05:21	04:27	04:31	05:25	06:31	07:35	07:45	08:48
	15:52	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:09	18:45	16:26	15:38
7	09:04	08:14	07:03	06:37	05:19	04:26	04:32	05:27	06:33	07:37	07:47	08:49
	15:54	17:00	18:05	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:25	04:33	05:29	06:36	07:40	07:50	08:51
	15:55	17:02	18:08	20:16	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:31	05:15	04:24	04:34	05:32	06:38	07:42	07:52	08:52
	15:57	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:36
10	09:01	08:07	06:55	06:29	05:12	04:24	04:36	05:34	06:40	07:44	07:54	08:54
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:34	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:23	04:37	05:36	06:42	07:46	07:57	08:55
	16:01	17:09	18:14	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:15	15:36
12	08:59	08:03	06:49	06:23	05:08	04:22	04:39	05:38	06:44	07:48	07:59	08:56
	16:02	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:13	15:35
13	08:58	08:00	06:47	06:20	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:04	17:14	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:26	16:11	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:42	06:48	07:53	08:03	08:59
	16:06	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:09	15:35
15	08:56	07:55	06:41	06:15	05:02	04:21	04:43	05:44	06:50	07:55	08:06	09:00
	16:08	17:19	18:23	20:32	21:38	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:38	06:12	04:59	04:21	04:45	05:46	06:52	07:57	08:08	09:01
	16:10	17:21	18:26	20:34	21:40	22:25	22:11	21:06	19:41	18:18	16:06	15:35
17	08:53	07:50	06:36	06:10	04:57	04:21	04:46	05:49	06:55	07:59	08:10	09:02
	16:12	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:55	04:21	04:48	05:51	06:57	08:02	08:12	09:02
	16:14	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:45	06:30	06:04	04:54	04:20	04:50	05:53	06:59	08:04	08:15	09:03
	16:16	17:28	18:32	20:41	21:46	22:27	22:06	20:58	19:33	18:10	16:00	15:35
20	08:49	07:43	06:27	06:02	04:52	04:20	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:58	15:35
21	08:47	07:40	06:24	05:59	04:50	04:21	04:53	05:57	07:03	08:08	08:19	09:05
	16:21	17:33	18:37	20:45	21:50	22:28	22:03	20:53	19:27	18:05	15:57	15:36
22	08:46	07:38	06:22	05:56	04:48	04:21	04:55	05:59	07:05	08:11	08:21	09:05
	16:23	17:35	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:55	15:36
23	08:44	07:35	06:19	05:54	04:46	04:21	04:57	06:01	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:44	04:21	04:59	06:04	07:09	08:15	08:25	09:06
	16:27	17:40	18:43	20:52	21:55	22:28	21:58	20:45	19:19	17:57	15:52	15:37
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:17	08:27	09:06
	16:30	17:42	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:10	05:46	04:41	04:22	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:52	15:49	15:39
27	08:37	07:25	06:08	05:43	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:01	22:28	21:52	20:37	19:10	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:38	04:23	05:07	06:12	07:18	07:24	08:33	09:07
	16:36	17:49	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:47	15:47	15:40
29	08:33		07:02	05:38	04:37	04:24	05:09	06:14	07:20	07:27	08:35	09:07
	16:39		19:54	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:45	15:41
30	08:31		06:59	05:36	04:35	04:25	05:11	06:16	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:27	21:46	20:29	19:02	16:43	15:44	15:42
31	08:29		06:56		04:34		05:13	06:19		07:31		09:07
	16:43		19:59		22:07		21:44	20:26		16:40		15:44
Potential sun hours	227	262	365	430	516	539	539	475	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CI - Vedamurgas

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:49	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	08:00	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:58	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar

Shadow receptor: CJ - Vejini

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	06:04 (8)	04:33	20:58 (2)	04:26	21:00 (2)	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22 06:26 (8)	22:09	23 21:21 (2)	22:26	29 21:29 (2)	21:41	20:23	18:59	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	06:05 (8)	04:32	20:57 (2)	04:27	21:00 (2)	05:17	06:22 (8)	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	21 06:26 (8)	22:10	25 21:22 (2)	22:25	30 21:30 (2)	21:39	6 06:28 (8)	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	06:04 (8)	04:31	20:57 (2)	04:28	21:01 (2)	05:19	06:19 (8)	06:25	07:29	07:38	08:42
	15:48	16:51	17:57	20:06	21:12	21 06:25 (8)	22:12	25 21:22 (2)	22:25	29 21:30 (2)	21:37	11 06:30 (8)	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:46	05:27	06:04 (8)	04:30	20:57 (2)	04:29	21:01 (2)	05:22	06:17 (8)	06:27	07:31	07:40	08:44
	15:50	16:53	17:59	20:08	21:14	21 06:25 (8)	22:13	26 21:23 (2)	22:24	29 21:30 (2)	21:35	14 06:31 (8)	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	06:05 (8)	04:29	20:56 (2)	04:30	21:02 (2)	05:24	06:16 (8)	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	20 06:25 (8)	22:14	27 21:23 (2)	22:23	28 21:30 (2)	21:32	16 06:32 (8)	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	06:05 (8)	04:28	20:56 (2)	04:31	21:02 (2)	05:26	06:15 (8)	06:32	07:35	07:45	08:47
	15:53	16:58	18:03	20:12	21:18	19 06:24 (8)	22:16	27 21:23 (2)	22:23	28 21:30 (2)	21:30	18 06:33 (8)	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	06:06 (8)	04:27	20:55 (2)	04:32	21:02 (2)	05:28	06:14 (8)	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:20	17 06:23 (8)	22:17	28 21:23 (2)	22:22	28 21:30 (2)	21:28	20 06:34 (8)	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	06:07 (8)	04:26	20:56 (2)	04:34	21:03 (2)	05:30	06:14 (8)	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	15 06:22 (8)	22:18	29 21:25 (2)	22:21	26 21:29 (2)	21:25	20 06:34 (8)	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	06:08 (8)	04:25	20:56 (2)	04:35	21:03 (2)	05:32	06:13 (8)	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	13 06:21 (8)	22:19	28 21:24 (2)	22:20	26 21:29 (2)	21:23	21 06:34 (8)	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	06:10 (8)	04:24	20:56 (2)	04:36	21:05 (2)	05:34	06:13 (8)	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	9 06:19 (8)	22:20	29 21:25 (2)	22:19	25 21:30 (2)	21:21	21 06:34 (8)	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	06:13 (8)	04:24	20:56 (2)	04:38	21:05 (2)	05:36	06:13 (8)	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	3 06:16 (8)	22:21	29 21:25 (2)	22:17	24 21:29 (2)	21:18	21 06:34 (8)	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08		04:23	20:56 (2)	04:39	21:05 (2)	05:38	06:13 (8)	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31		22:22	30 21:26 (2)	22:16	23 21:28 (2)	21:16	21 06:34 (8)	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06		04:23	20:57 (2)	04:41	21:06 (2)	05:40	06:14 (8)	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33		22:23	29 21:26 (2)	22:15	21 21:27 (2)	21:13	20 06:34 (8)	19:50	18:27	16:12	15:36
14	08:57	07:58	06:44	06:18	05:04		04:22	20:56 (2)	04:42	21:07 (2)	05:43	06:16 (8)	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35		22:24	30 21:26 (2)	22:14	21 21:28 (2)	21:11	17 06:33 (8)	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02		04:22	20:56 (2)	04:44	21:08 (2)	05:45	06:18 (8)	06:51	07:55	08:06	08:59
	16:09	17:19	18:24	20:32	21:37		22:24	31 21:27 (2)	22:12	18 21:26 (2)	21:08	15 06:33 (8)	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00		04:22	20:57 (2)	04:45	21:09 (2)	05:47	06:20 (8)	06:53	07:57	08:08	09:00
	16:11	17:22	18:26	20:34	21:39		22:25	30 21:27 (2)	22:11	17 21:26 (2)	21:06	12 06:32 (8)	19:42	18:19	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58		04:21	20:57 (2)	04:47	21:10 (2)	05:49	06:22 (8)	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:42		22:26	30 21:27 (2)	22:09	14 21:24 (2)	21:03	8 06:30 (8)	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56		04:21	20:57 (2)	04:49	21:13 (2)	05:51	06:24 (8)	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44		22:26	31 21:28 (2)	22:08	10 21:23 (2)	21:01	4 06:28 (8)	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54		04:21	20:57 (2)	04:50	21:15 (2)	05:53		06:59	08:04	08:14	09:03
	16:17	17:29	18:33	20:41	21:45		22:27	31 21:28 (2)	22:06	4 21:19 (2)	20:58		19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52		04:21	20:57 (2)	04:52		05:55		07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:47		22:27	31 21:28 (2)	22:04		20:56		19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50		04:21	20:57 (2)	04:54		05:58		07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49		22:27	31 21:28 (2)	22:03		20:53		19:28	18:05	15:57	15:36
22	08:45	07:38	06:22	05:57	04:48		04:21	20:57 (2)	04:56		06:00		07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51		22:27	31 21:28 (2)	22:01		20:50		19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47		04:22	20:58 (2)	04:58		06:02		07:07	08:13	08:23	09:05
	16:26	17:38	18:41	20:50	21:53		22:28	31 21:29 (2)	21:59		20:48		19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45		04:22	20:58 (2)	05:00		06:04		07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55		22:28	31 21:29 (2)	21:57		20:45		19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	06:17 (8) 04:43	21:04 (2)	04:22	20:59 (2)	05:01		06:06		07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	5 06:22 (8) 21:57	8 21:12 (2)	22:28	30 21:29 (2)	21:56		20:42		19:16	16:55	15:51	15:39
26	08:39	07:27	06:11	05:46	06:15 (8) 04:42	21:02 (2)	04:23	20:59 (2)	05:03		06:08		07:14	07:20	08:29	09:06
	16:32	17:45	18:48	20:56	9 06:24 (8) 21:59	13 21:15 (2)	22:28	30 21:29 (2)	21:54		20:40		19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	06:12 (8) 04:40	21:00 (2)	04:23	20:59 (2)	05:05		06:10		07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	12 06:24 (8) 22:00	16 21:16 (2)	22:27	31 21:30 (2)	21:52		20:37		19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	06:10 (8) 04:39	21:00 (2)	04:24	20:59 (2)	05:07		06:13		07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	15 06:25 (8) 22:02	17 21:17 (2)	22:27	30 21:29 (2)	21:50		20:34		19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	06:07 (8) 04:37	20:59 (2)	04:25	21:00 (2)	05:09		06:15		07:20	07:27	08:35	09:07
	16:39		19:55	21:03	18 06:25 (8) 22:04	19 21:18 (2)	22:27	30 21:30 (2)	21:48		20:32		19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	06:05 (8) 04:36	20:58 (2)	04:25	21:00 (2)	05:11		06:17		07:22	07:29	08:37	09:07
	16:41		19:57	21:05	20 06:25 (8) 22:05	22 21:20 (2)	22:26	30 21:30 (2)	21:46		20:29		19:02	16:43	15:45	15:43
31	08:29		06:57		04:34	20:58 (2)			05:13		06:19			07:31		09:07
	16:44		19:59		22:07	22 21:20 (2)			21:43		20:26			16:41		15:44
Potential sun hours	227	262	365	429	515		539		538		474		386	321	241	207
Total, worst case				79		298		874		430		265				
Sun reduction				0,46		0,58		0,53		0,57		0,55				
Oper. time red.				0,93		0,93		0,93		0,93		0,93				
Wind dir. red.				0,94		0,88		0,79		0,79		0,94				
Total reduction				0,40		0,48		0,39		0,42		0,48				
Total, real				32		142		342		179		127				

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

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

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SHADOW - Calendar

Shadow receptor: CK - Zvaigznes

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	19:00	16:38	15:44
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:49	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:34	15:41
4	09:05	08:21	07:12	06:46	05:27	04:30	04:29	05:22	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:41
5	09:05	08:19	07:09	06:43	05:24	04:29	04:30	05:24	06:30	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:28	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:20	04:27	04:32	05:28	06:34	07:38	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:38
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:13	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:37
11	09:00	08:05	06:52	06:26	05:11	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:17	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:24	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:23	04:41	05:41	06:46	07:51	08:01	08:57
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	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:22	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:19	16:06	15:35
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	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:36
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
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	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:48	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:08	08:13	08:23	09:06
	16:26	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:52	04:45	04:22	05:00	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:53	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:39
26	08:39	07:28	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:14	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:35	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:13	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:25	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:42		19:57	21:05	22:05	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:41		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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)

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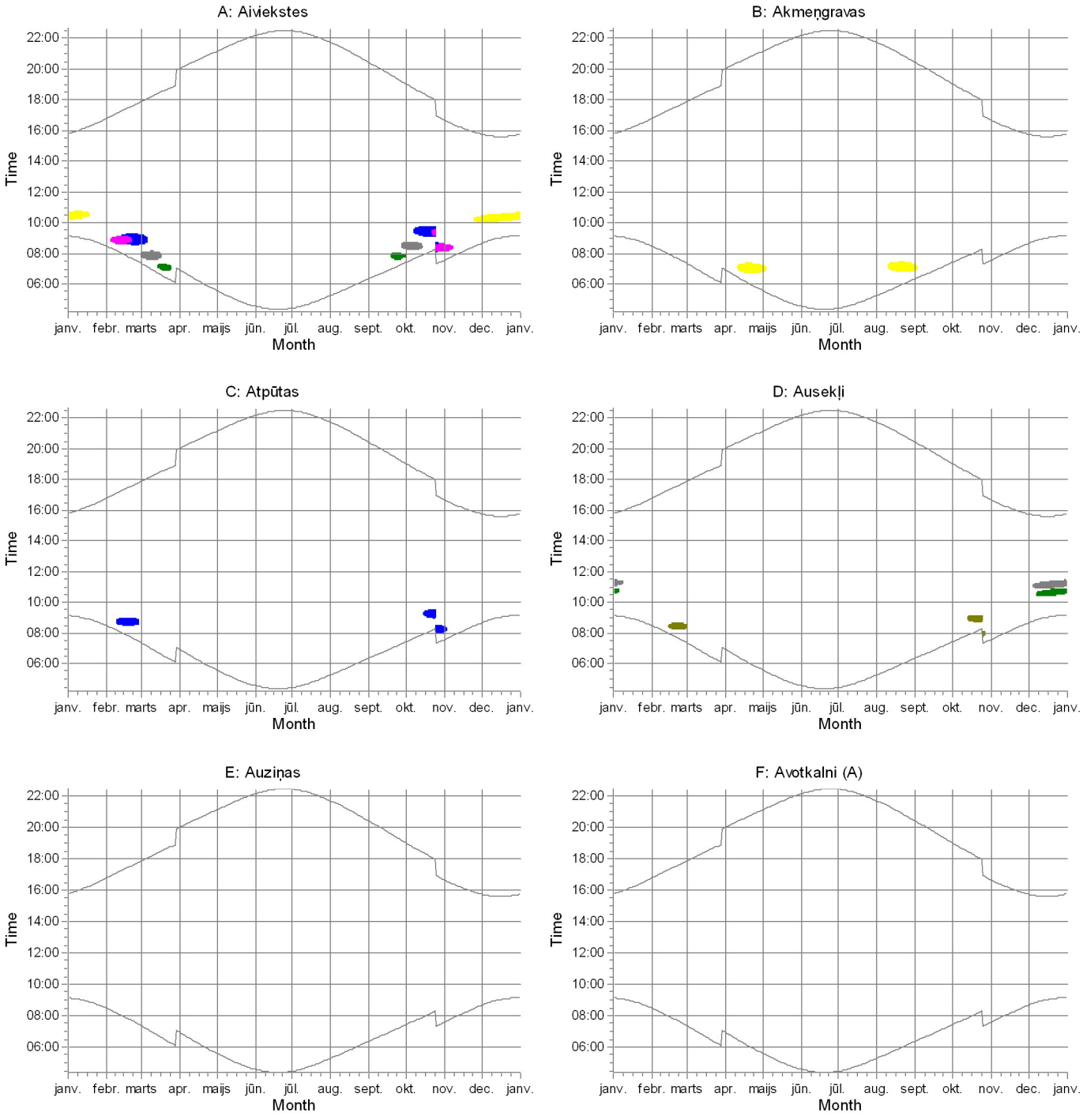
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	10: Z12

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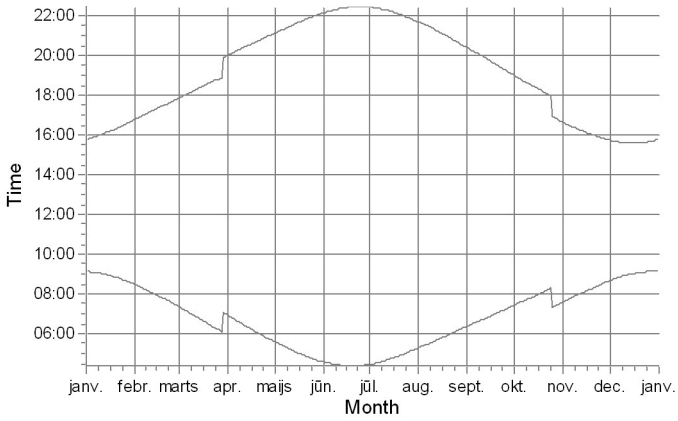
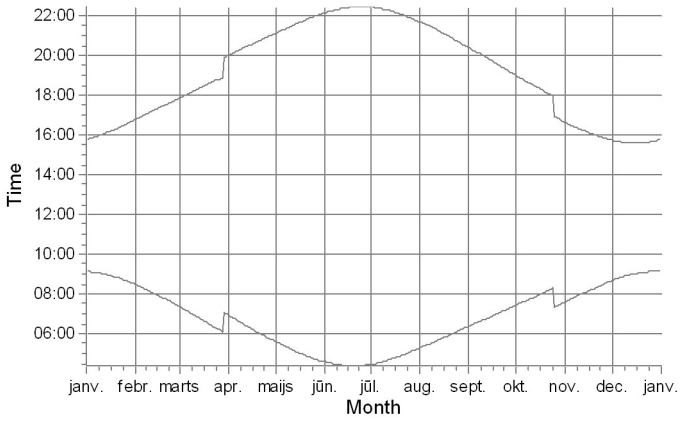
SHADOW - Calendar, graphical

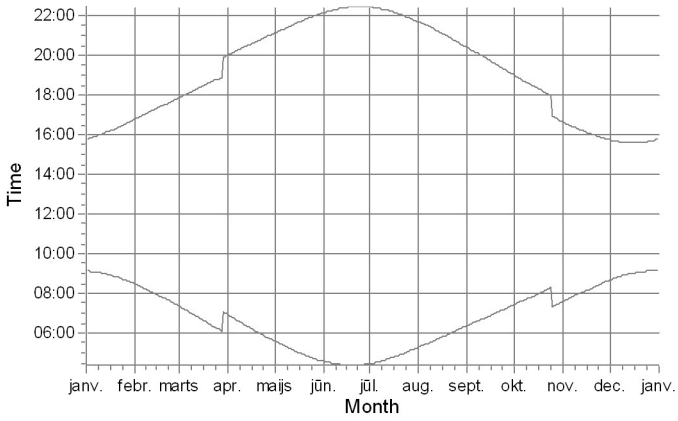
G: Avotkalni (B)



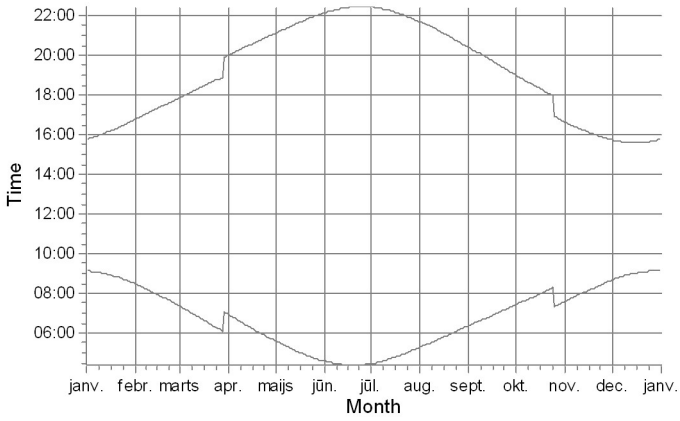
H: Avotkalni 1



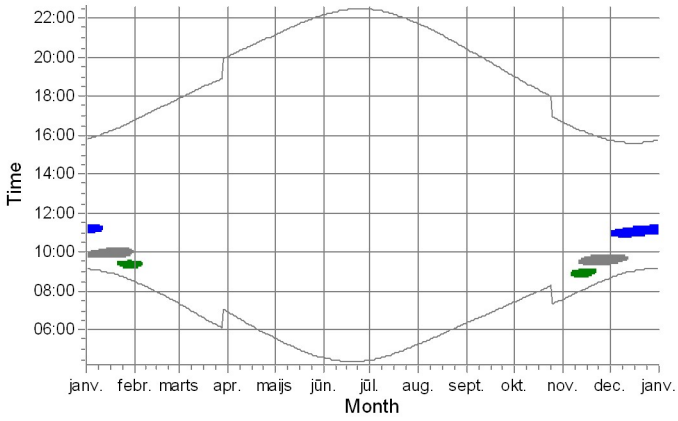
I: Bez nosaukuma (A)



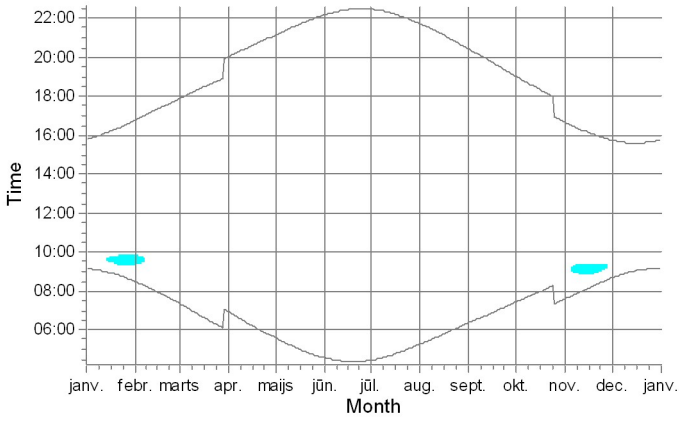
J: Bez nosaukuma (B)



K: Bezdelīgas Ligzda



L: Birztaliņas



WTGs

1: VES "Senlejas"
3: Z2
4: Z3
13: Z17

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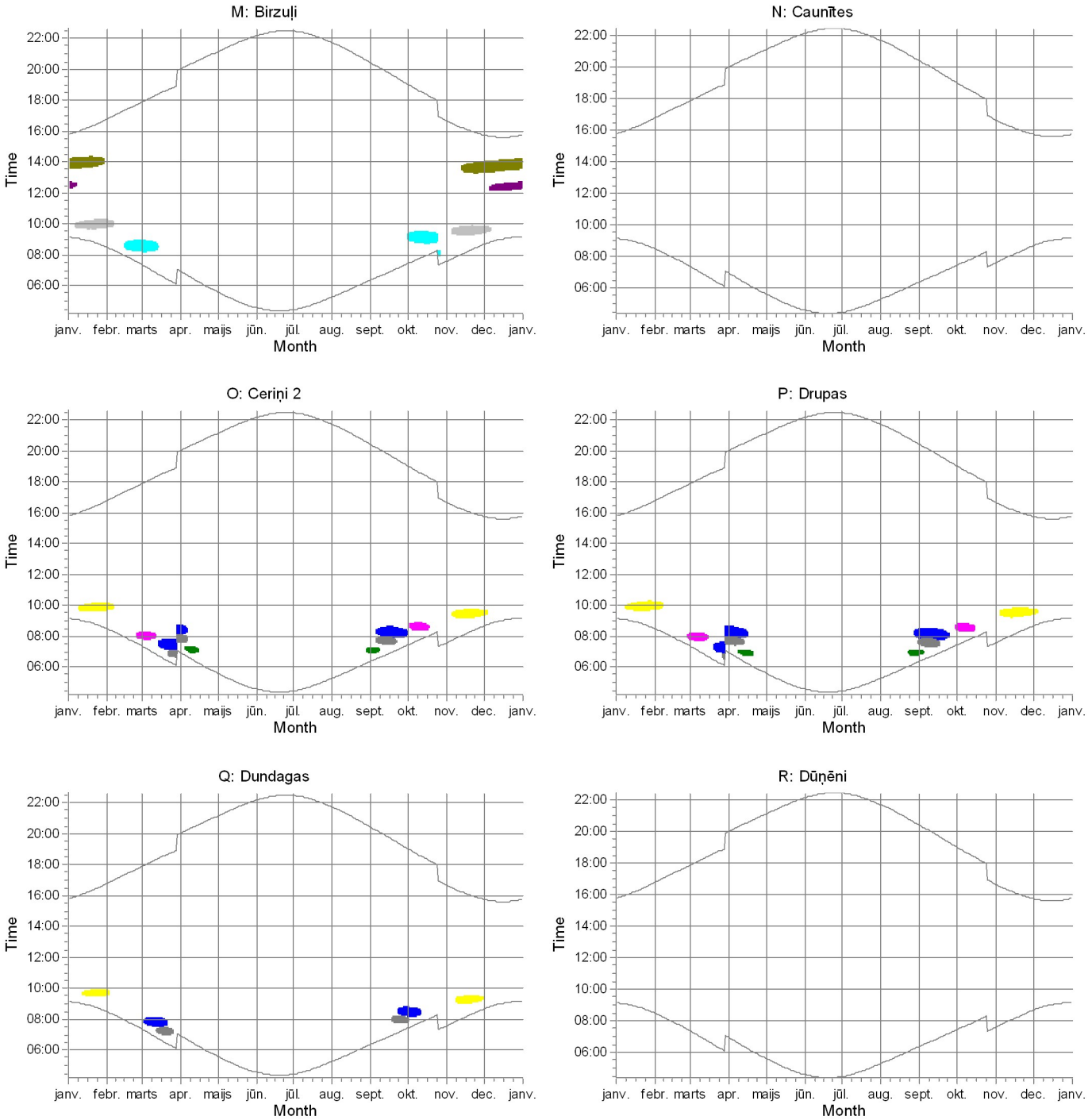
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	11: Z13
2: Z1	5: Z4	12: Z16
3: Z2	10: Z12	13: Z17

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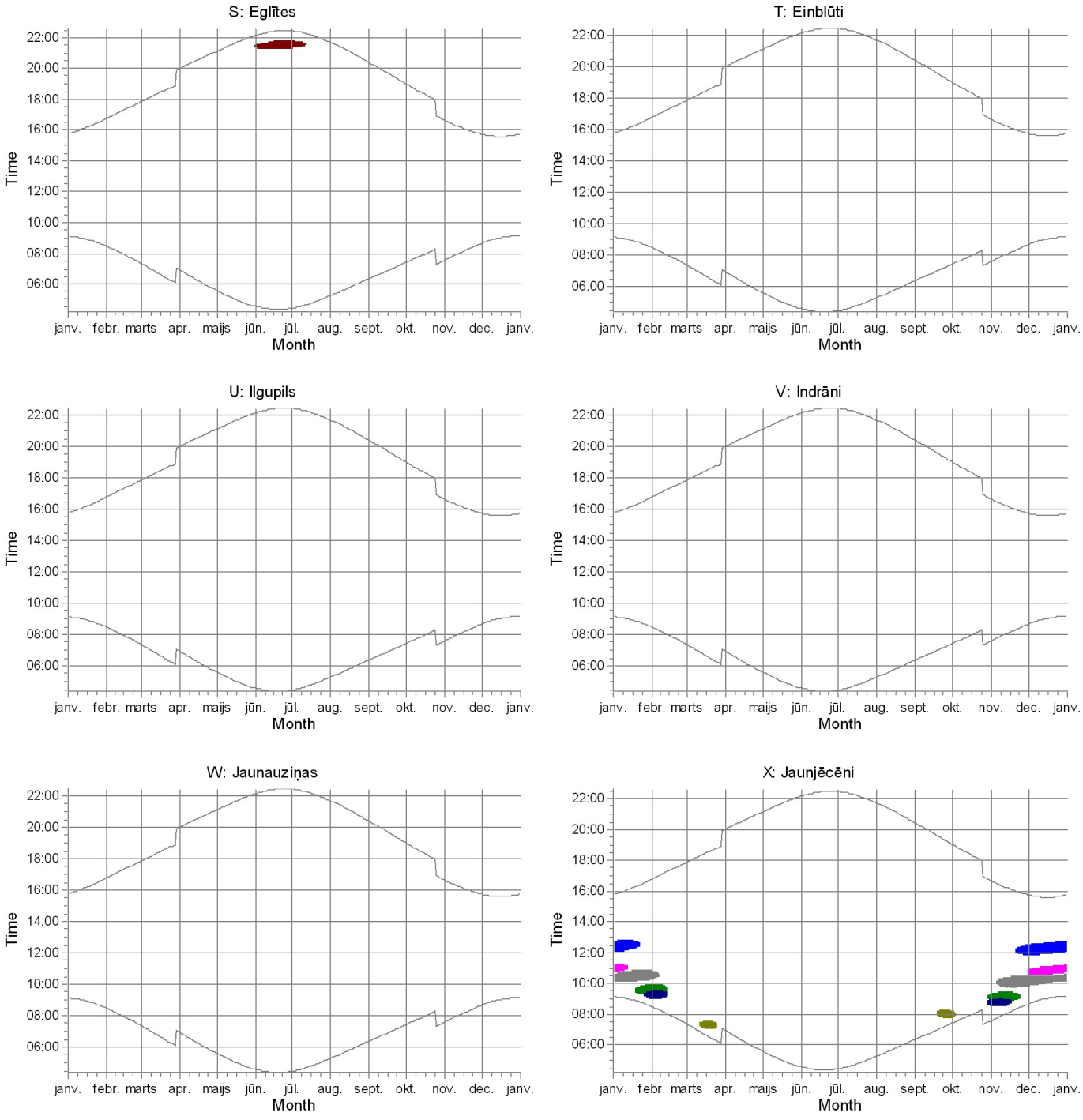
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	7: Z6	10: Z12
3: Z2	5: Z4	8: Z9	

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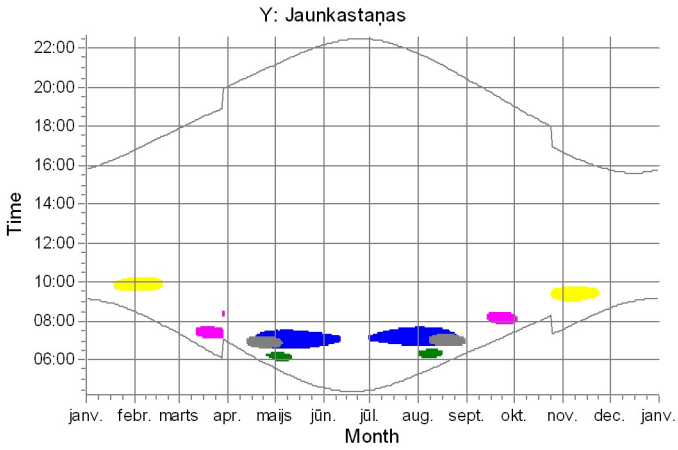
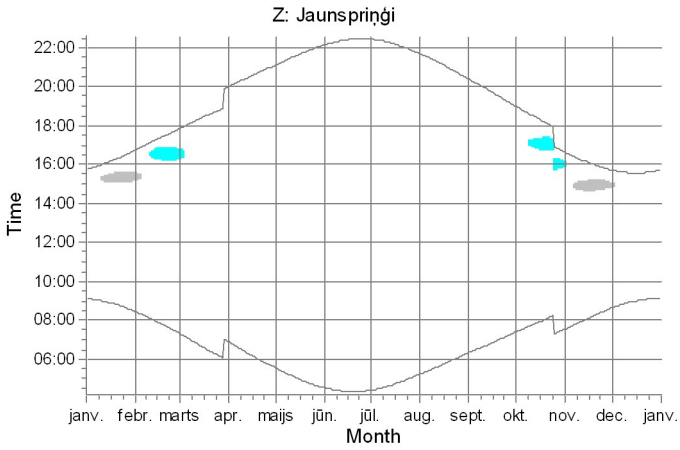
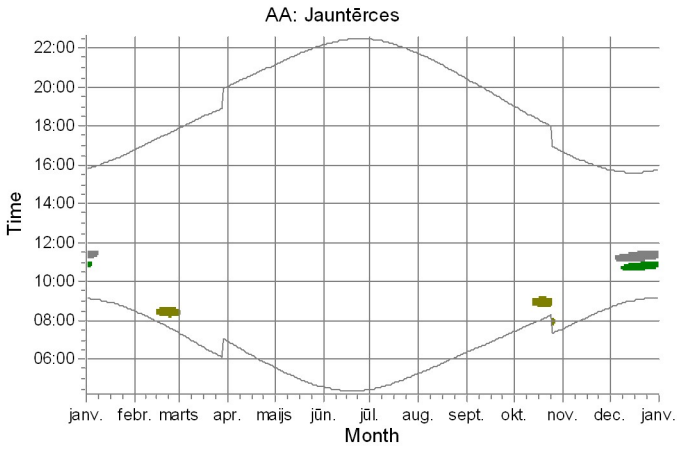
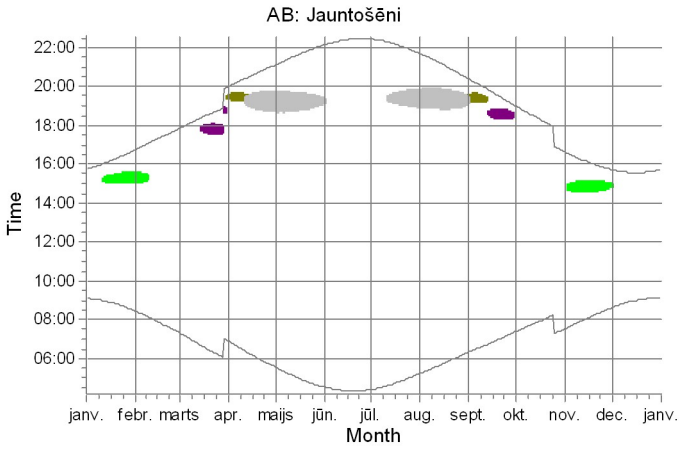
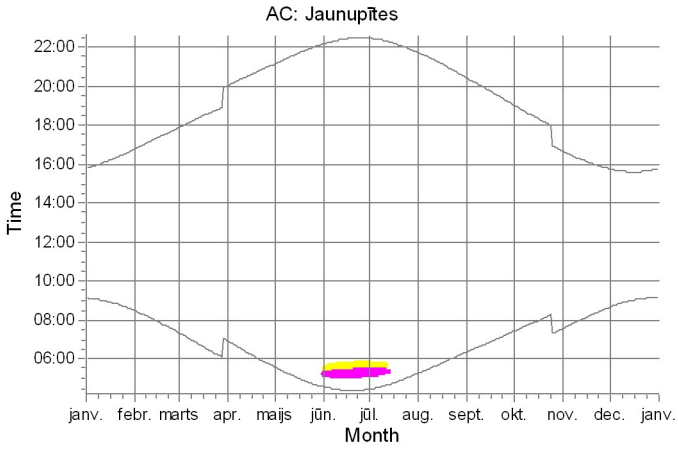
SHADOW - Calendar, graphical

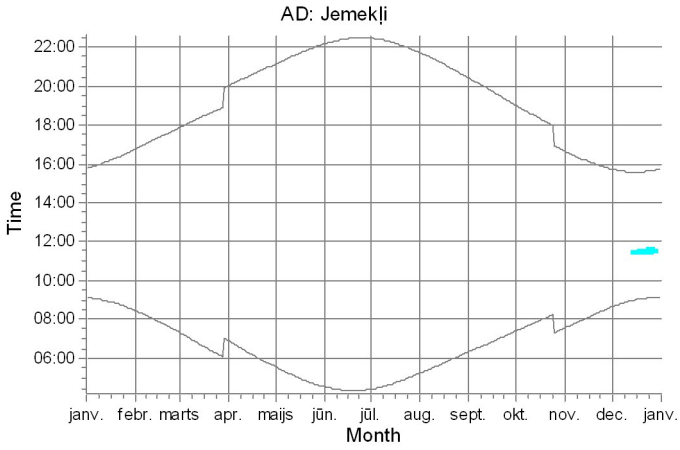












WTGs

1: VES "Senlejas"	4: Z3	10: Z12	13: Z17
2: Z1	5: Z4	11: Z13	
3: Z2	9: Z10	12: Z16	

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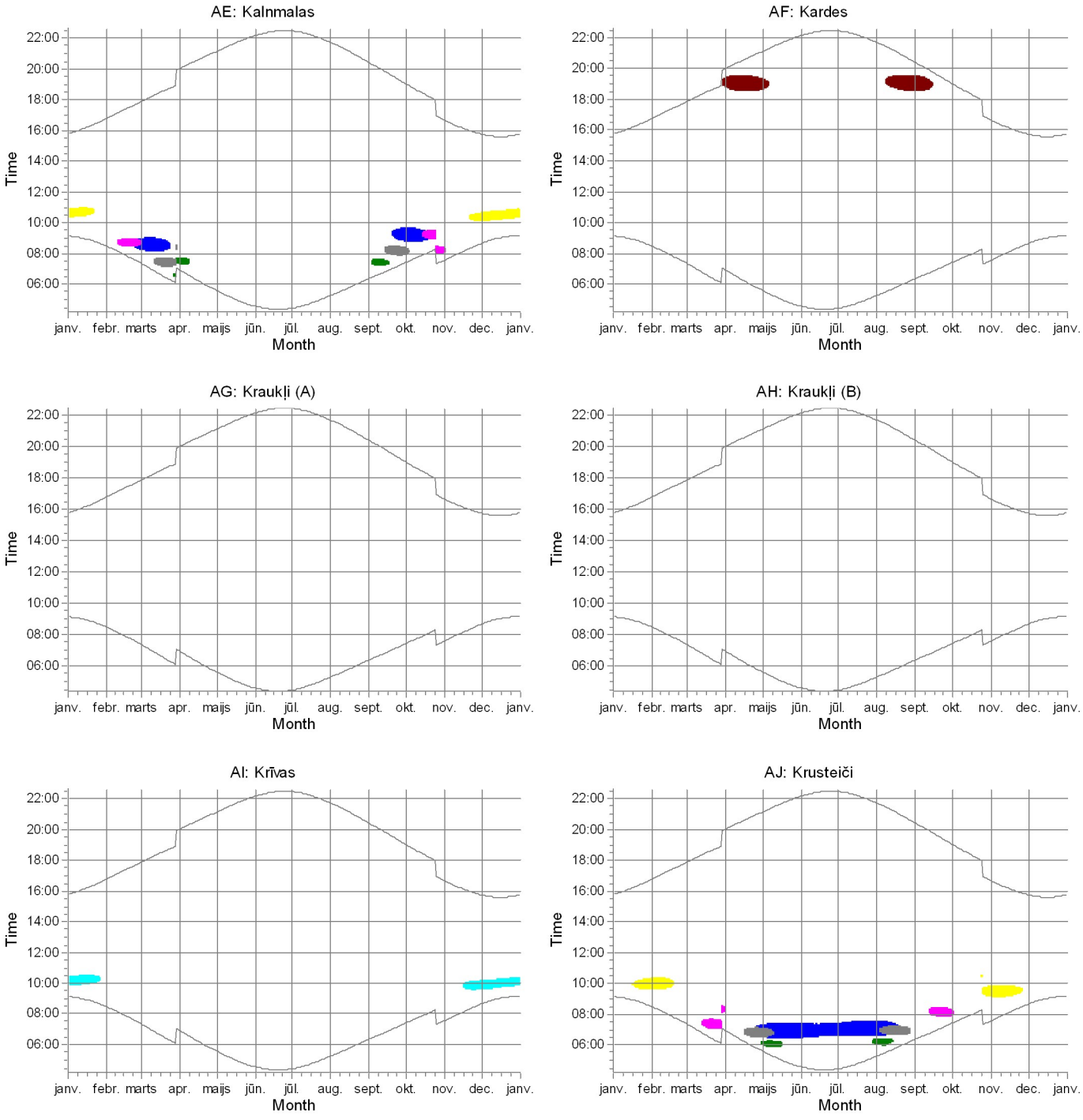
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	3: Z2	5: Z4	13: Z17
2: Z1	4: Z3	8: Z9	

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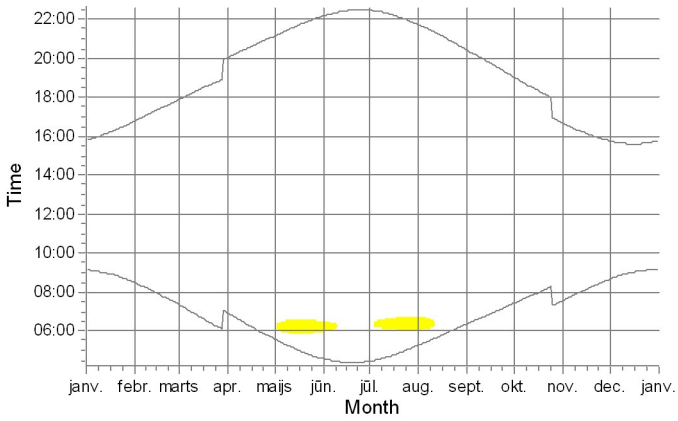
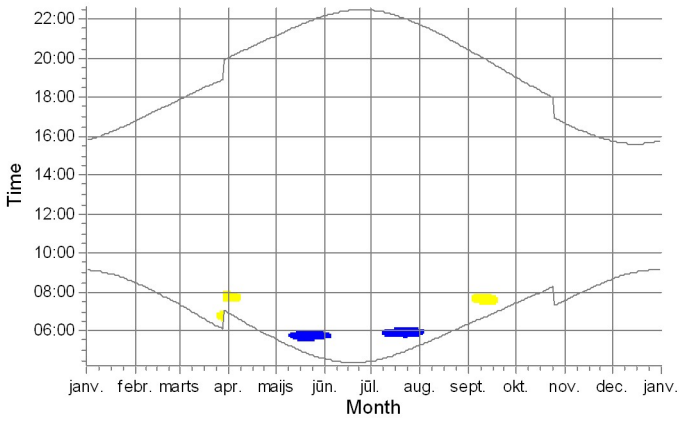
SHADOW - Calendar, graphical

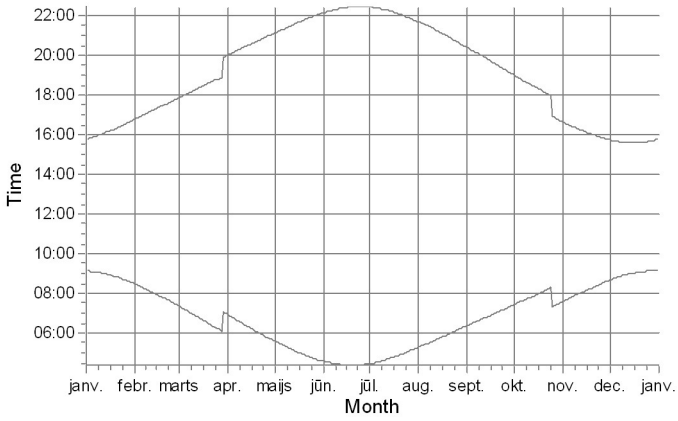
AK: Krūmiņi



AL: Kudleiši



AM: Kuiķules magazina



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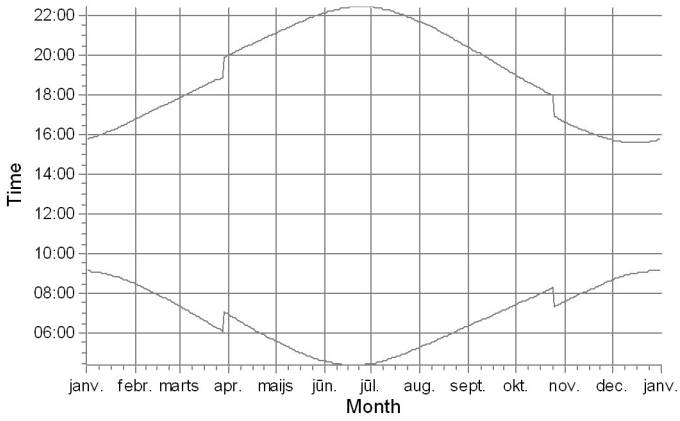
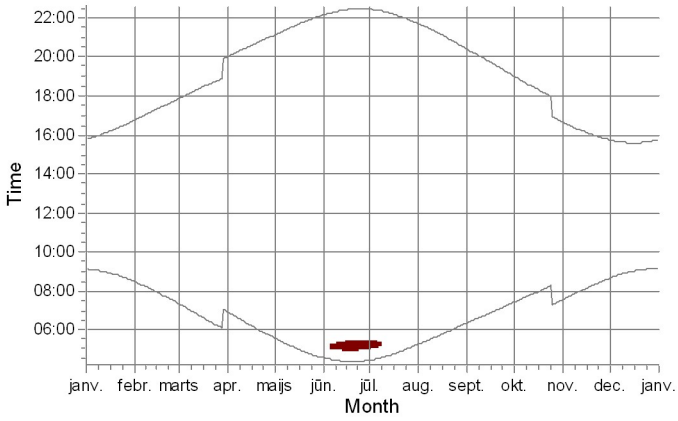


AO: Ķilzumi



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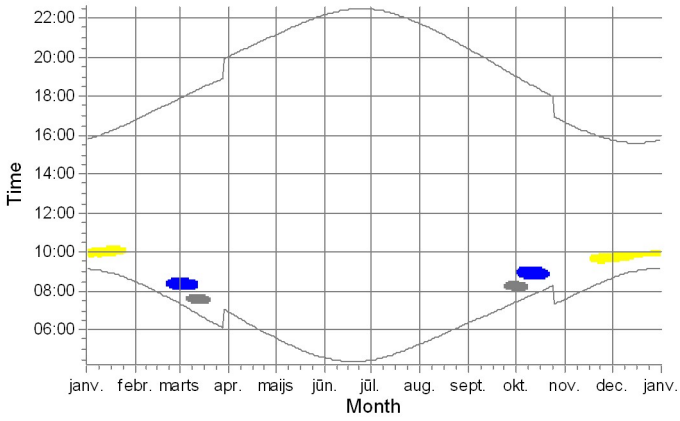

WTGs

2: Z1 3: Z2 4: Z3 8: Z9

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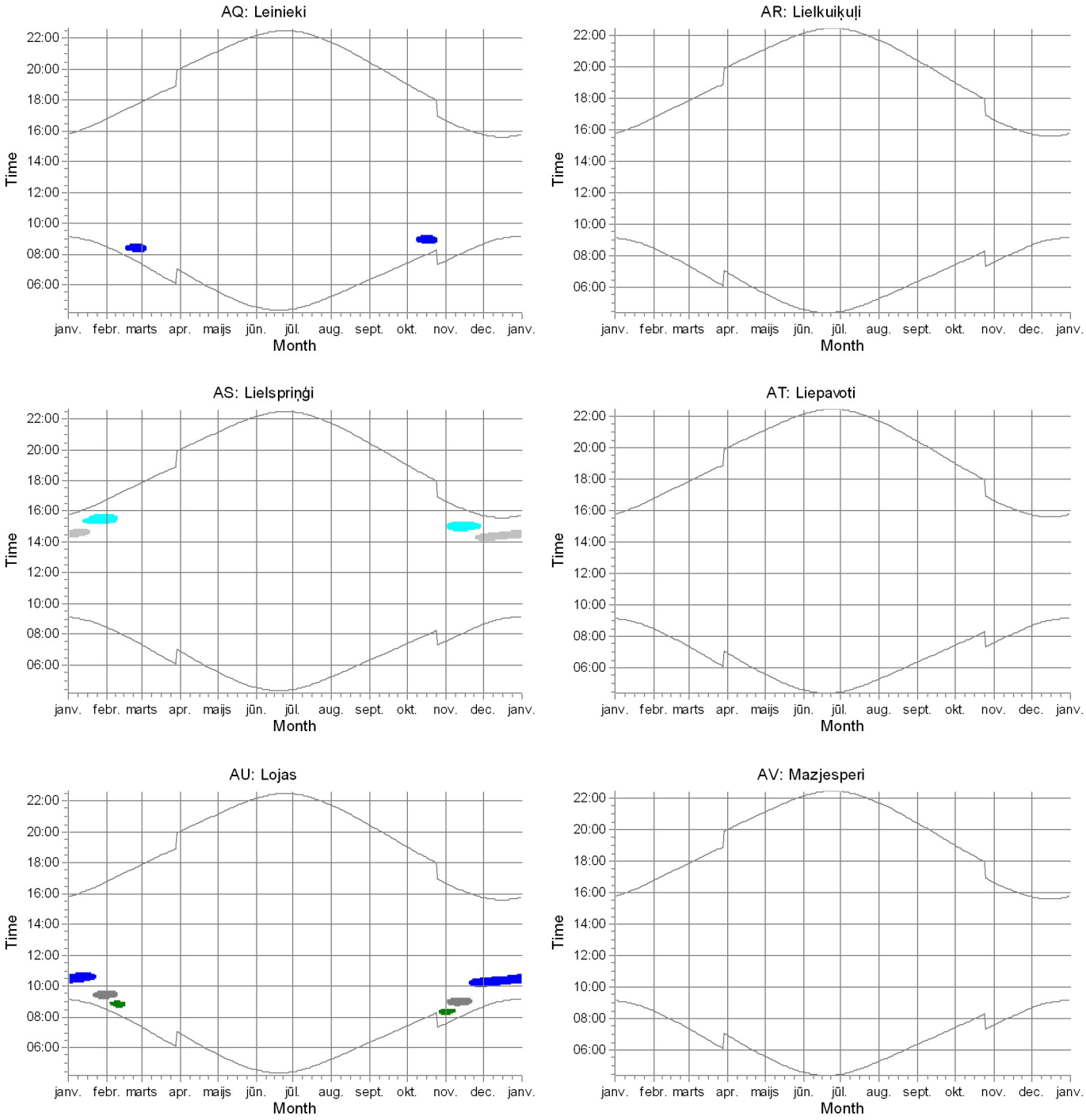
SHADOW - Calendar, graphical



WTGs

	1: VES "Senlejas"		4: Z3		13: Z17
	3: Z2		12: Z16		

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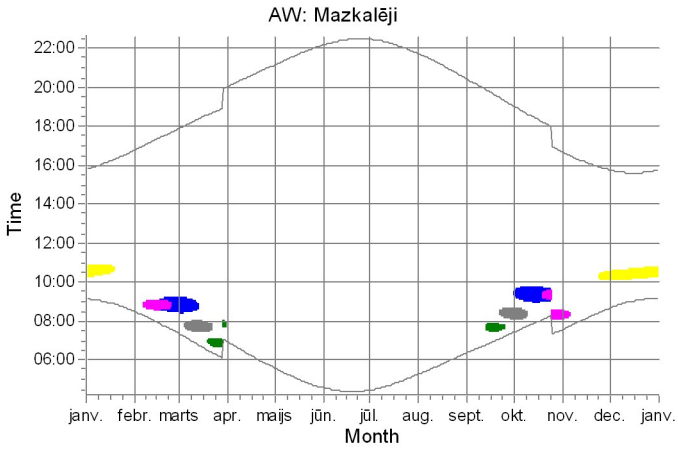
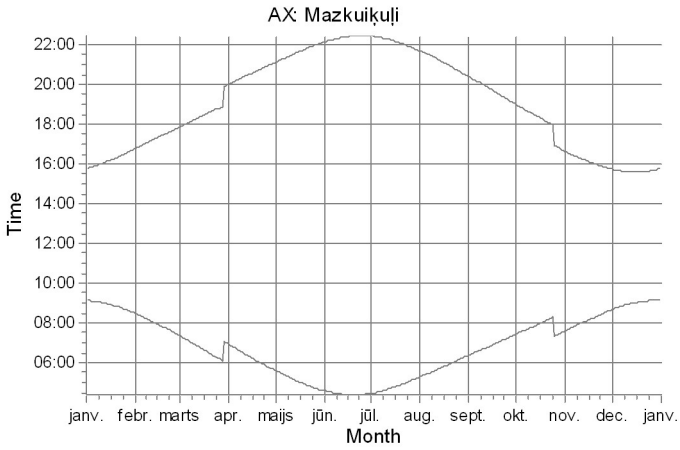
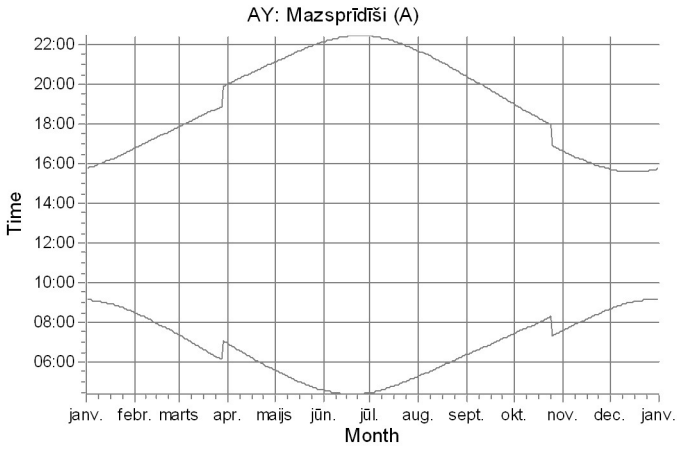
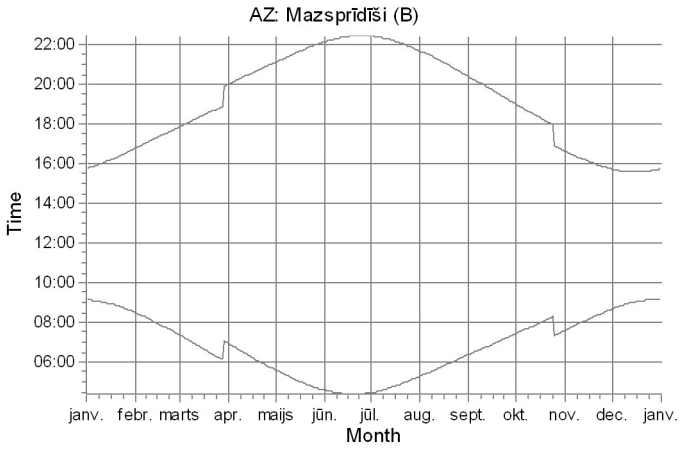
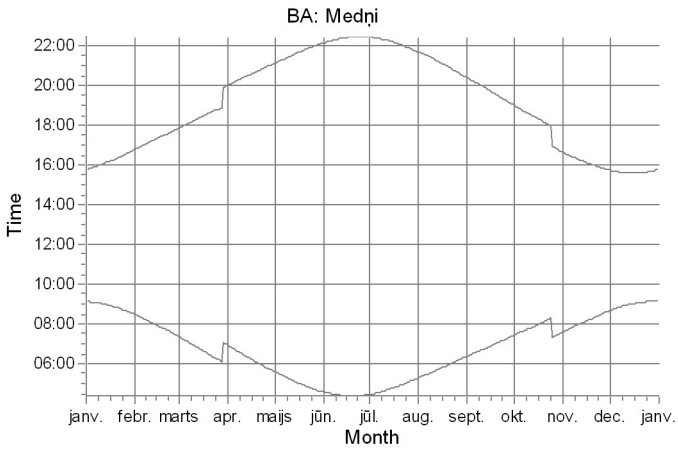
SHADOW - Calendar, graphical

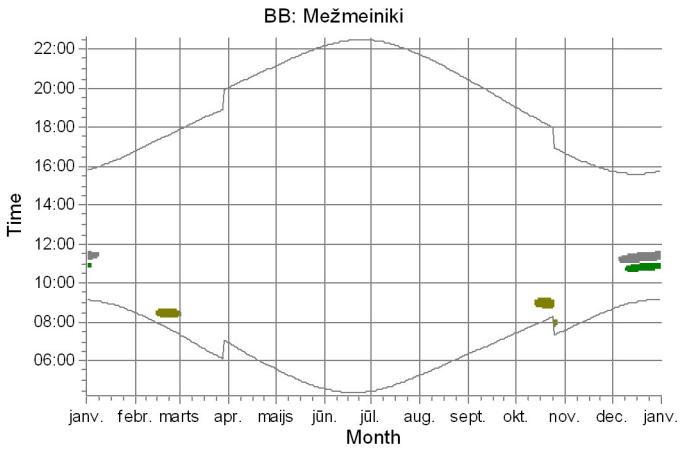












WTGs

1: VES "Senlejas"	3: Z2	5: Z4
2: Z1	4: Z3	10: Z12

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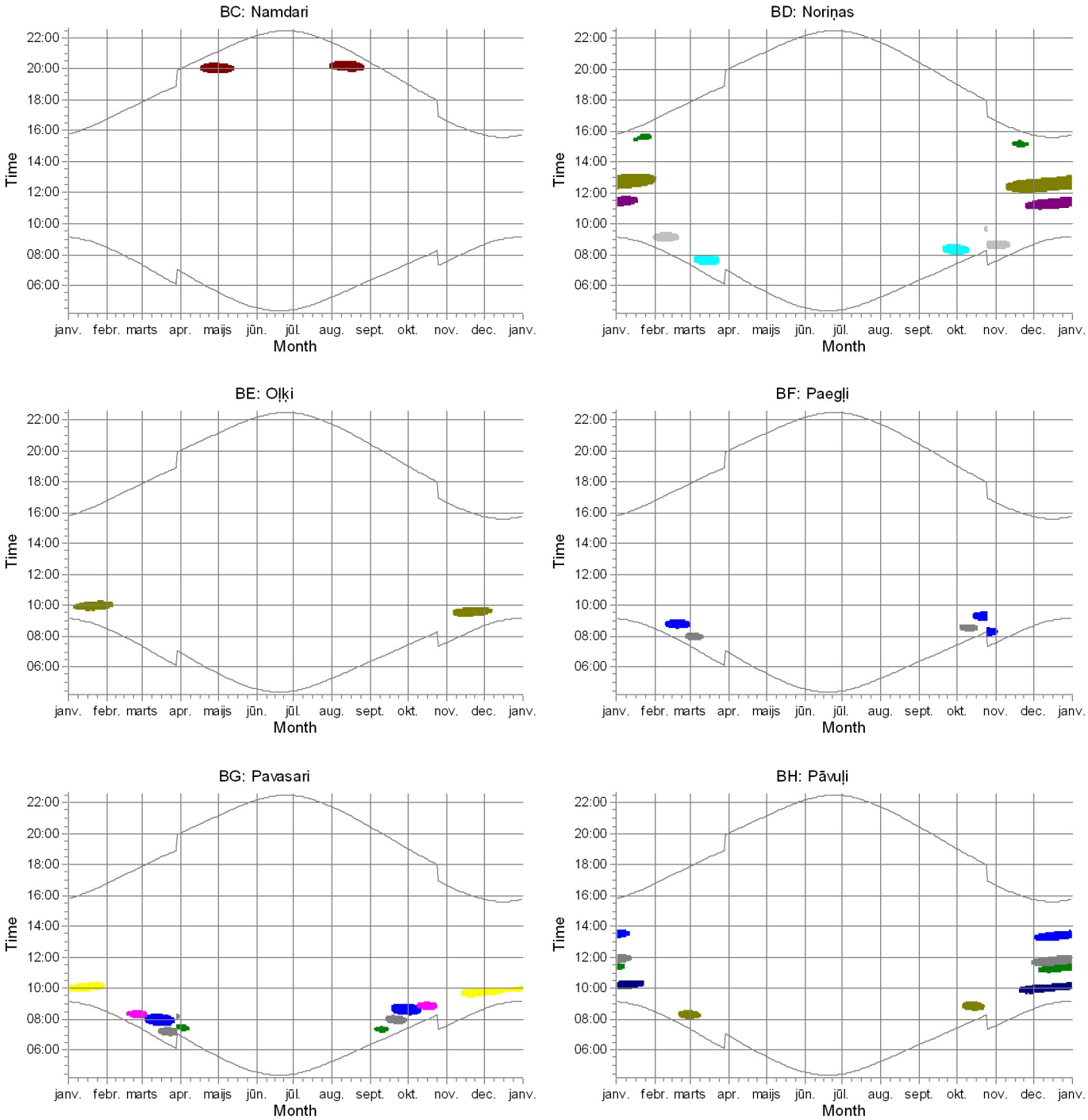
SHADOW - Calendar, graphical



WTGs

1: VES "Senlejas"	4: Z3	8: Z9	12: Z16
2: Z1	5: Z4	10: Z12	13: Z17
3: Z2	7: Z6	11: Z13	

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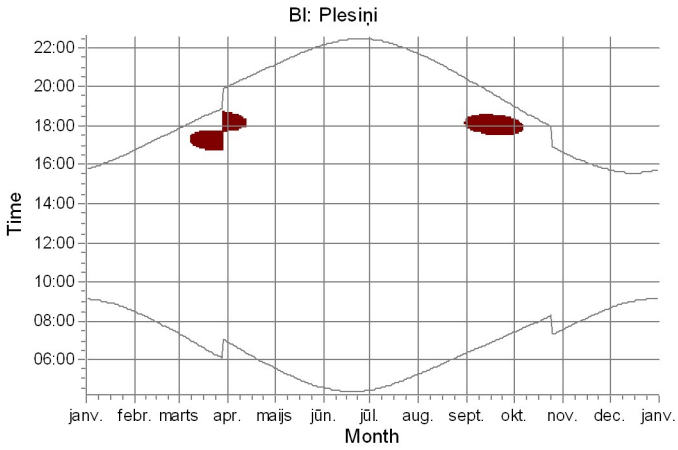
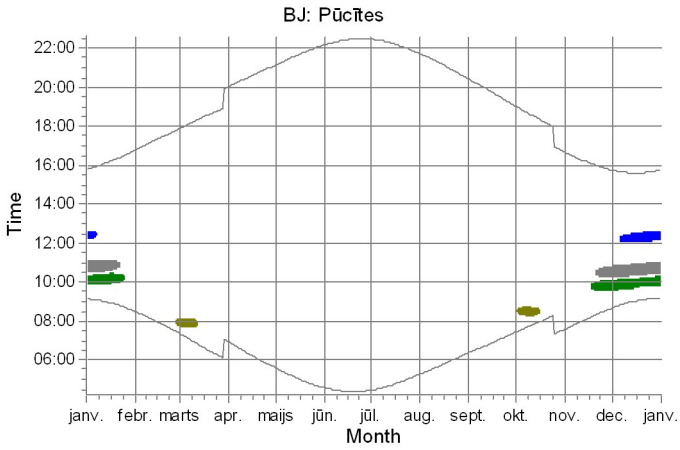
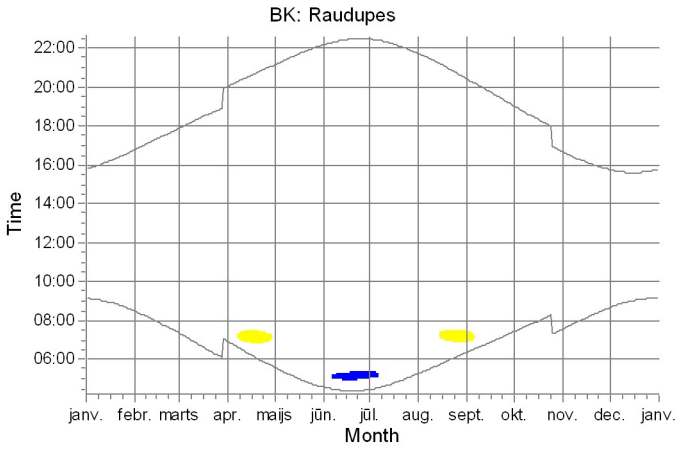
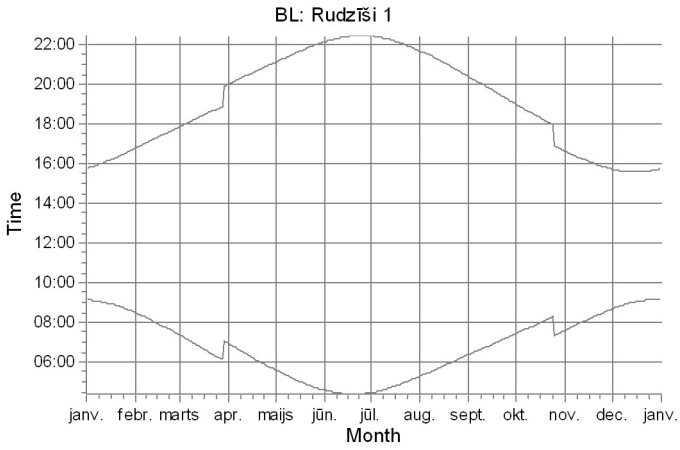
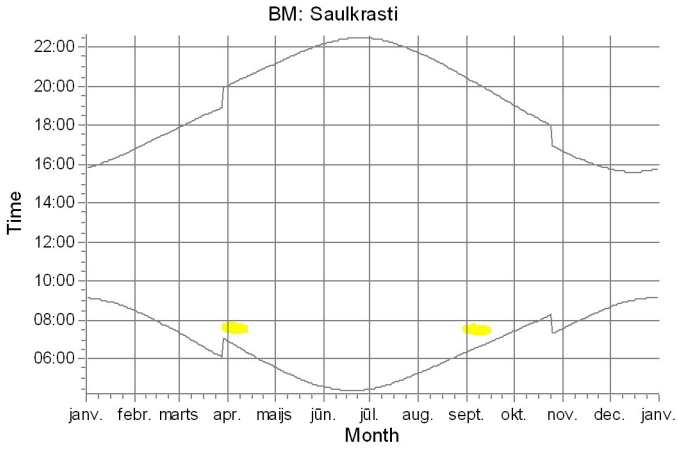
SHADOW - Calendar, graphical

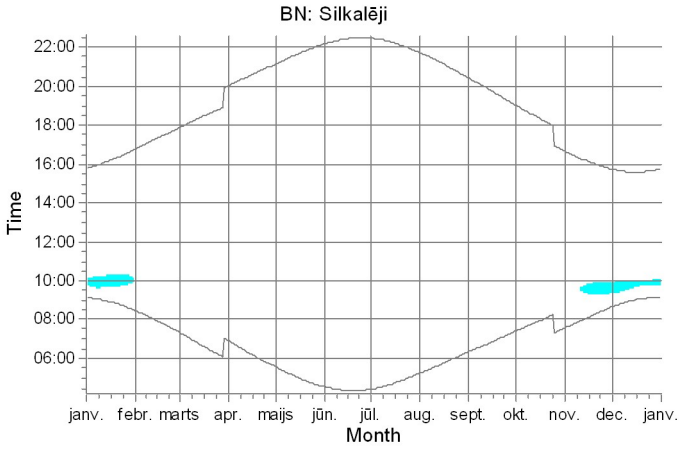












WTGs

1: VES "Senlejas"	3: Z2	8: Z9	13: Z17
2: Z1	4: Z3	10: Z12	

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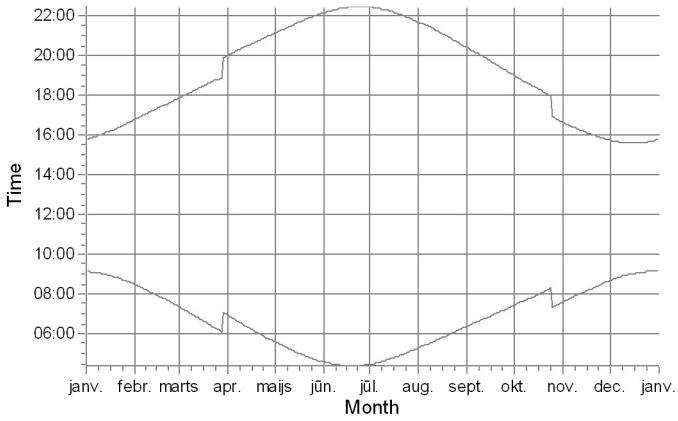
SHADOW - Calendar, graphical

BO: Silkalni



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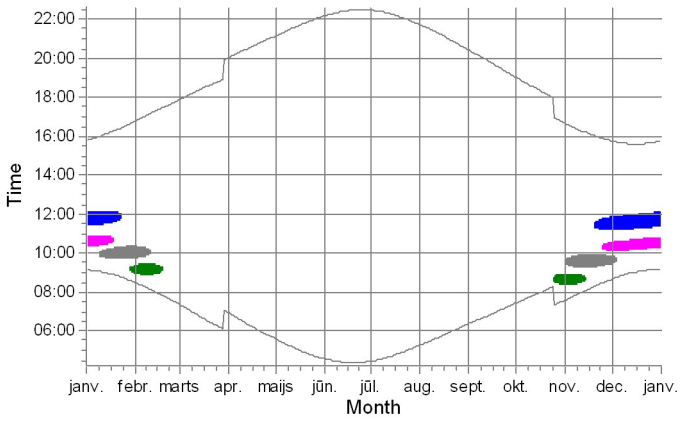
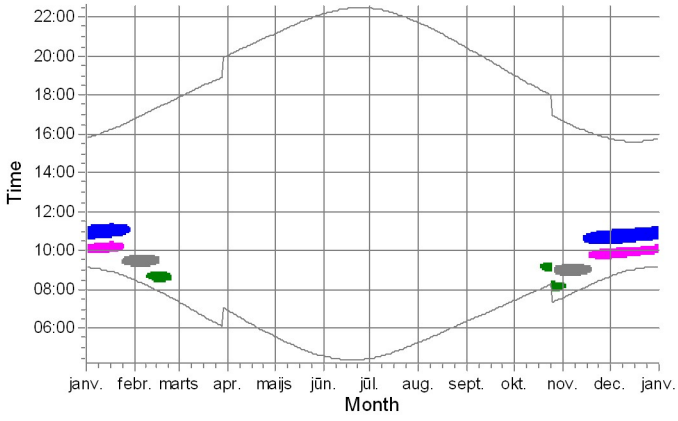
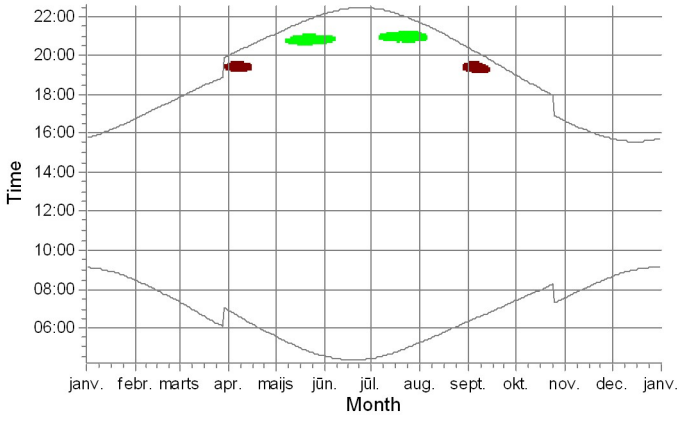


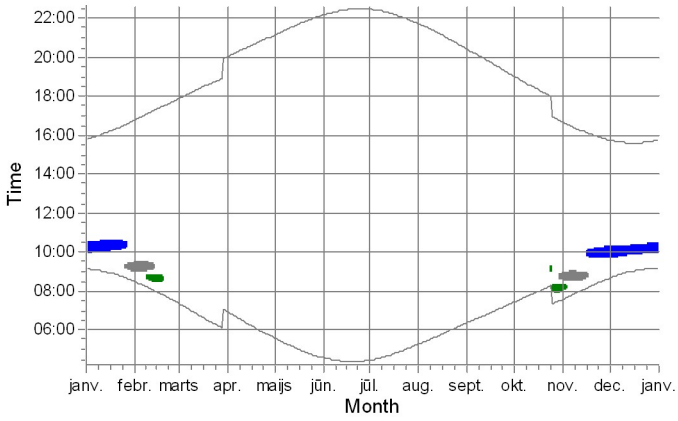
BQ: Smilgas



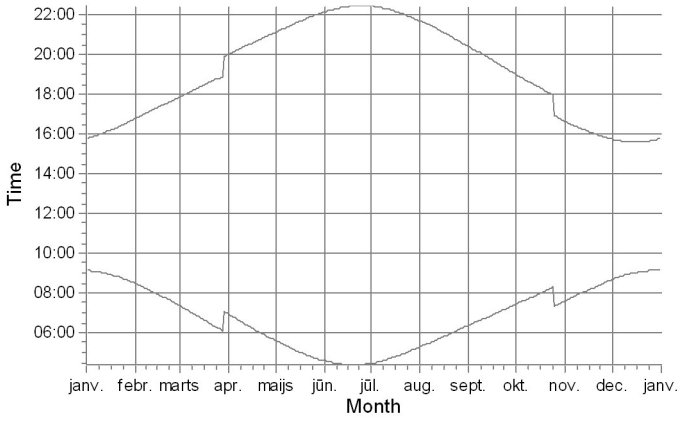
BR: Soles



BS: Stienūži



BT: Straujupītes



WTGs

1: VES "Senlejas"	4: Z3	8: Z9
3: Z2	5: Z4	9: Z10

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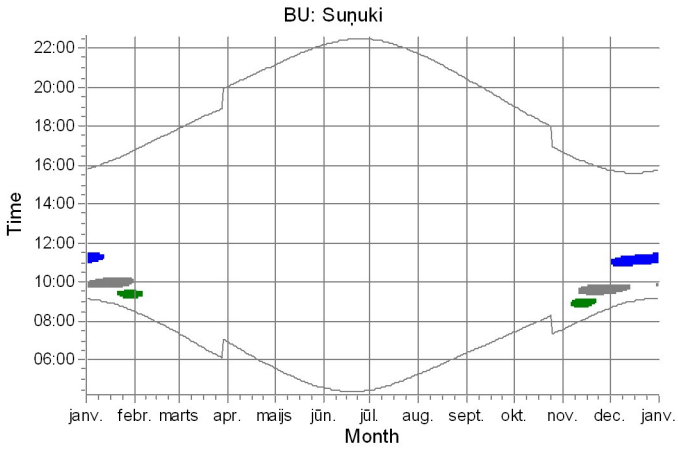
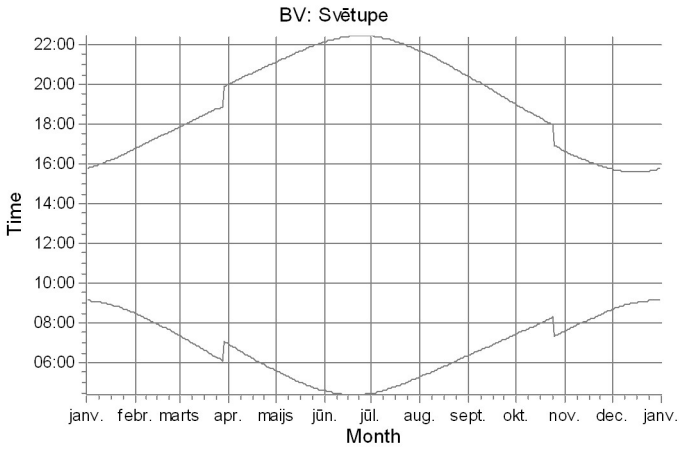
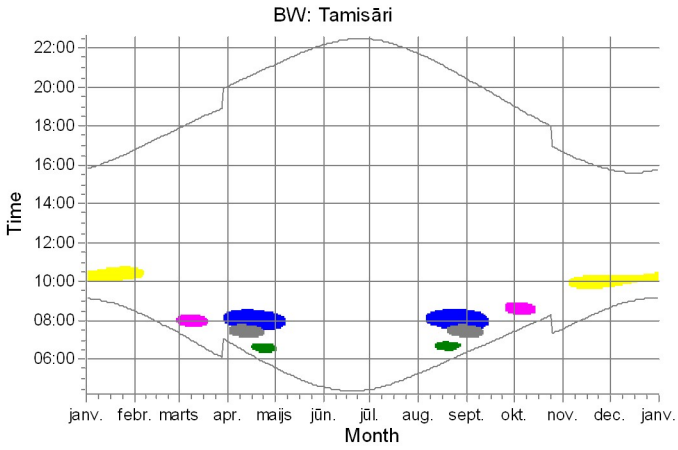
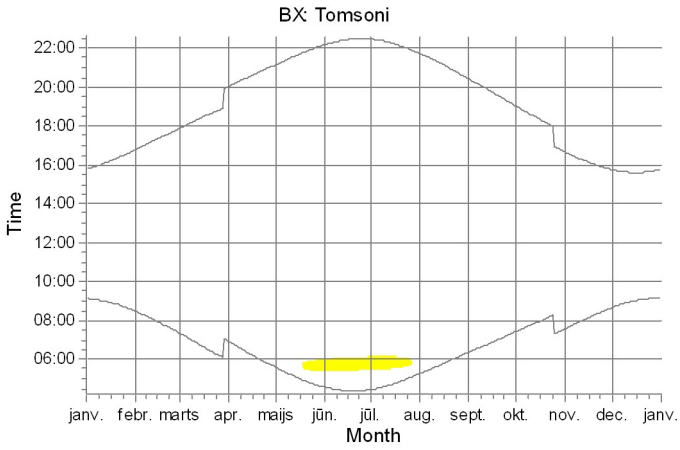
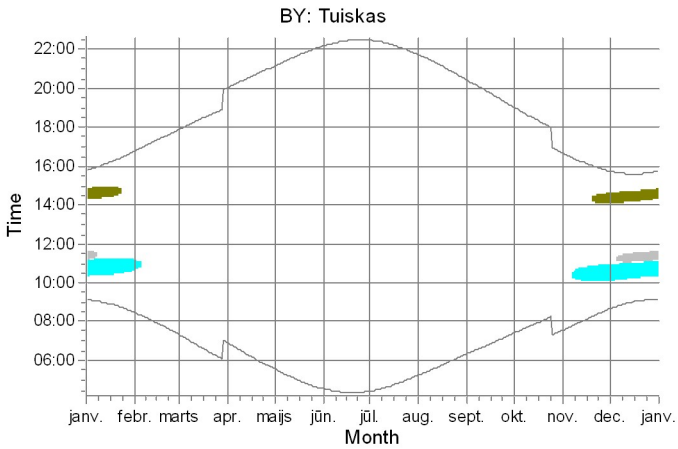
SHADOW - Calendar, graphical

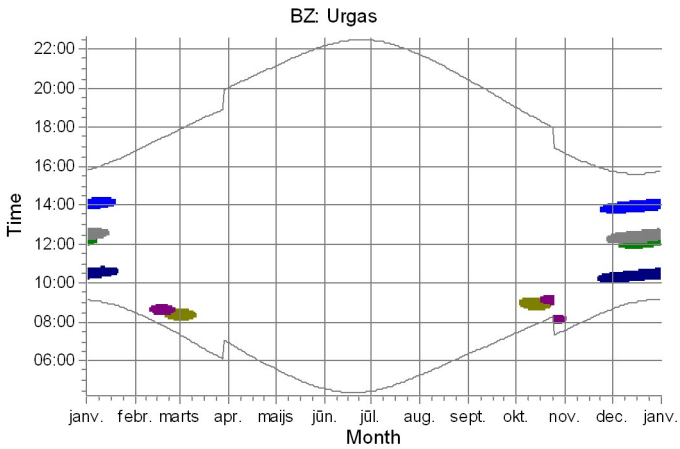












WTGs

1: VES "Senlejas"	4: Z3	10: Z12	13: Z17
2: Z1	5: Z4	11: Z13	
3: Z2	7: Z6	12: Z16	

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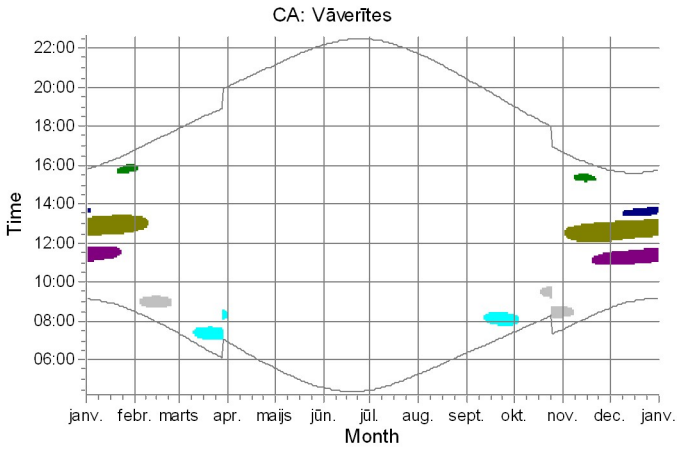
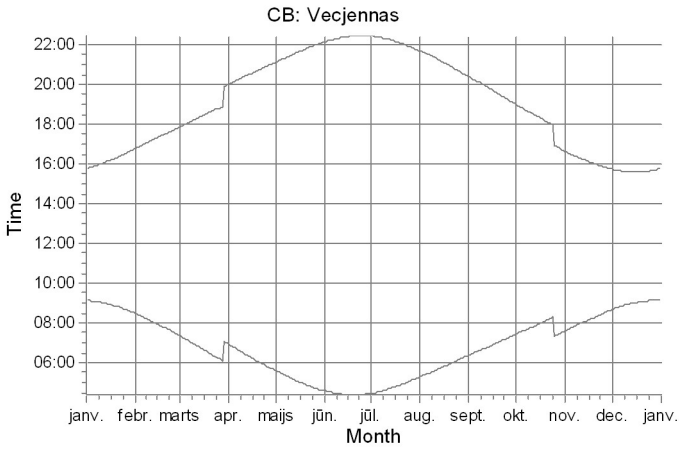
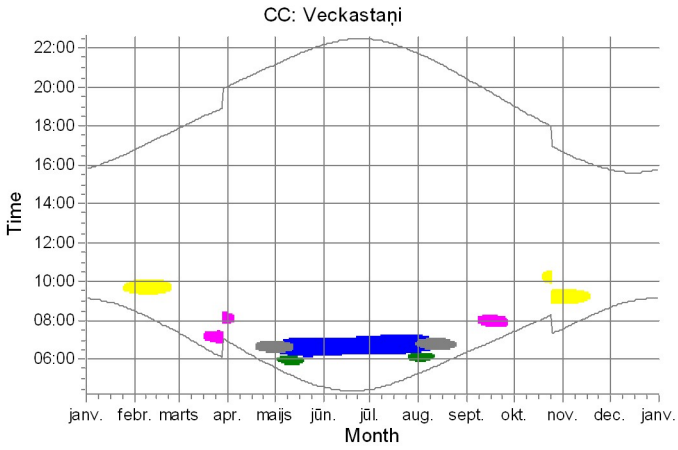
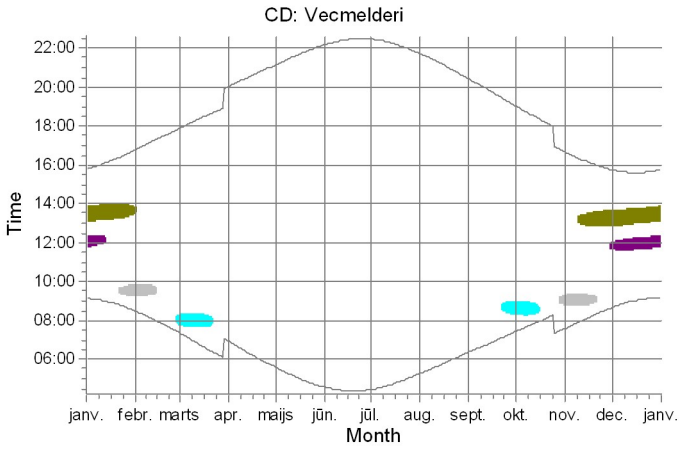
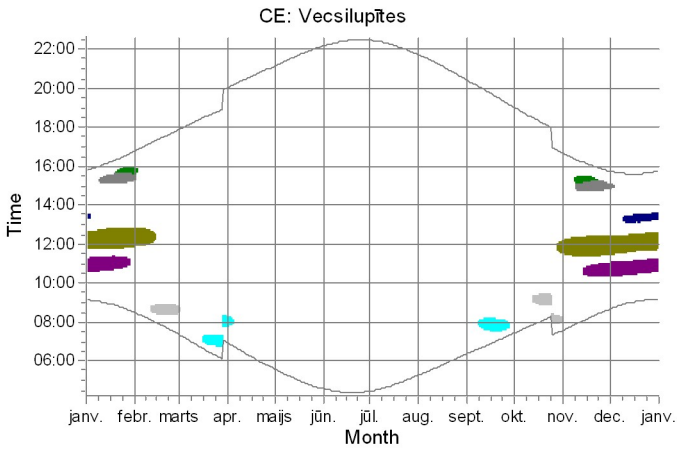
SHADOW - Calendar, graphical

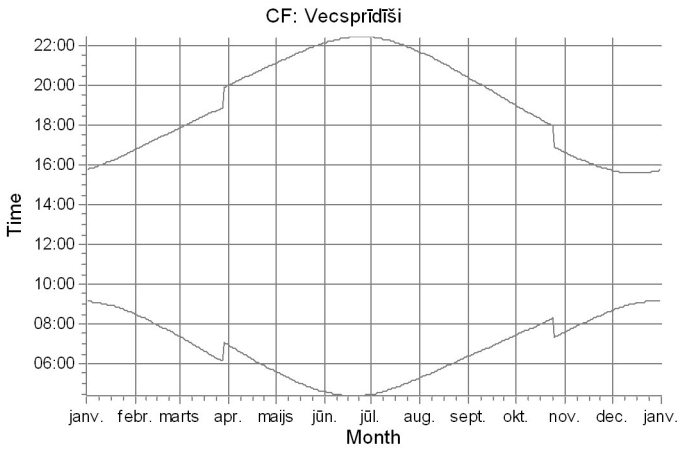












WTGs

1: VES "Senlejas"	4: Z3	10: Z12	13: Z17
2: Z1	5: Z4	11: Z13	
3: Z2	7: Z6	12: Z16	

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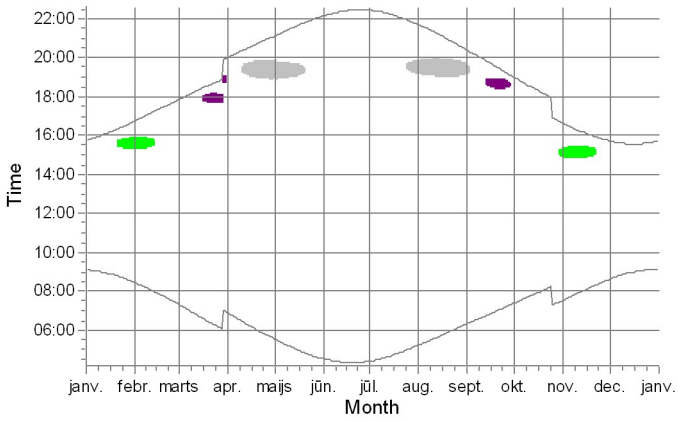
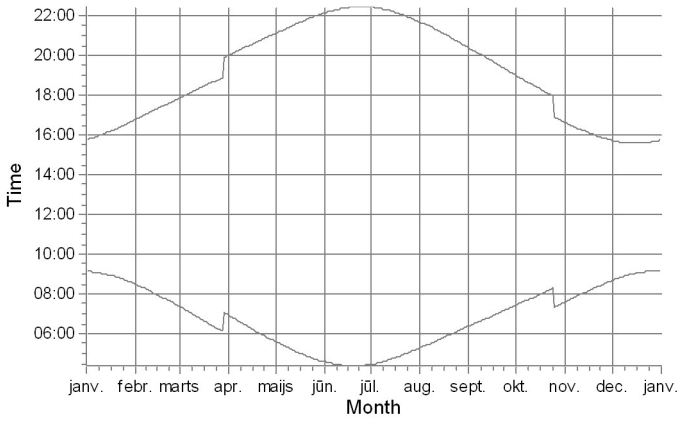
SHADOW - Calendar, graphical

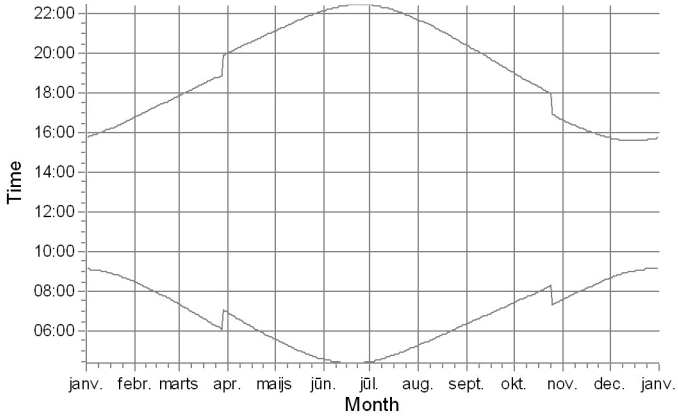
CG: Vectošēni



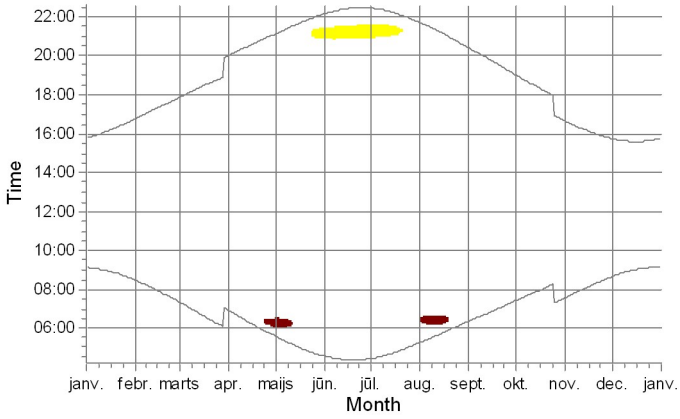
CH: Vecupītes



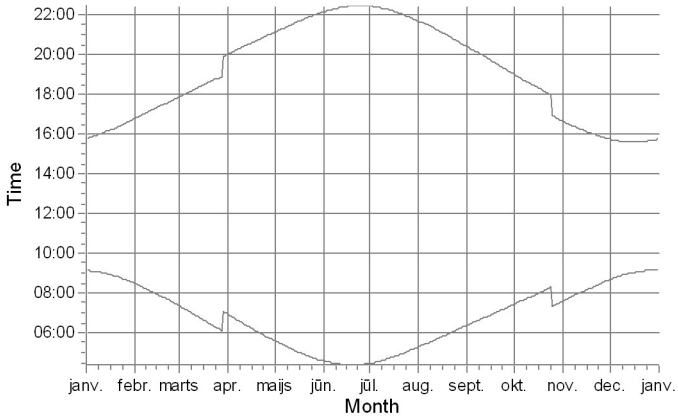
CI: Vedamurgas



CJ: Vējiņi



CK: Zvaigznes



WTGs

2: Z1	9: Z10	12: Z16
8: Z9	11: Z13	

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SHADOW - Calendar per WTG

WTG: 1 - VES "Senlejas"

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 11:59-12:15/16 11:14-11:30/16	08:27 15:40-15:54/14	07:20	06:54 07:20-07:41/21	05:34 06:30-06:34/4	04:33
	15:46 09:53-10:14/21 10:38-10:57/19	16:46 09:00-09:50/50	17:52	20:01	21:07 06:03-06:17/14	22:09
2	09:06 12:00-12:15/15 11:15-11:30/15	08:25 15:42-15:47/5 08:57-09:50/53	07:17	06:51 07:17-07:40/23	05:31 06:01-06:18/17	04:32
	15:47 09:53-10:14/21 10:39-10:56/17	16:48 15:48-15:51/3	17:54	20:03	21:10	22:10
3	09:06 12:01-12:15/14 11:15-11:29/14 10:40-10:47/7	08:23 08:57-09:50/53	07:14	06:48 07:16-07:39/23	05:29 05:58-06:17/19	04:31
	15:48 09:53-10:15/22 10:50-10:54/4	16:51	17:57	20:06	21:12	22:12
4	09:05 12:03-12:14/11 11:16-11:29/13	08:21 08:57-09:50/53	07:12	06:46 07:17-07:39/22	05:27 05:56-06:17/21	04:29
	15:50 09:53-10:15/22 10:41-10:46/5	16:53 08:53-08:54/1	17:59	20:08	21:14	22:13
5	09:05 12:05-12:14/9 11:19-11:29/10	08:19 08:56-09:20/24 09:22-09:50/28	07:09	06:43 07:18-07:38/20	05:24 05:54-06:17/23	04:28
	15:51 09:54-10:16/22	16:56 08:50-08:55/5	18:01	20:10 07:09-07:13/4	21:16	22:15
6	09:04 12:08-12:12/4 11:21-11:28/7	08:17 08:48-09:21/33	07:06	06:40 07:18-07:37/19	05:22 05:52-06:17/25	04:27
	15:53 09:54-10:17/23	16:58 09:23-09:50/27	18:03	20:12 07:06-07:14/8	21:18	22:16
7	09:04 09:54-10:18/24	08:14 08:45-09:21/36	07:03	06:37 07:22-07:35/13	05:19 05:50-06:16/26	04:26
	15:54	17:00 09:23-09:48/25	18:06	20:14 07:04-07:15/11	21:21	22:17
8	09:03 09:55-10:18/23	08:12 08:43-09:21/38	07:01	06:34 07:25-07:32/7	05:17 05:48-06:15/27	04:26
	15:56	17:03 09:25-09:48/23	18:08	20:17 07:01-07:14/13	21:23	22:18
9	09:02 09:54-10:18/24	08:10 08:40-09:21/41	06:58	06:32 06:58-07:14/16	05:15 05:47-06:14/27	04:25
	15:58	17:05 09:26-09:47/21	18:10	20:19	21:25	22:19
10	09:01 09:55-10:19/24	08:07 08:38-09:21/43	06:55	06:29 06:55-07:13/18	05:13 05:47-06:13/26	04:24
	15:59	17:07 09:28-09:46/18	18:12	20:21	21:27	22:20
11	09:00 09:56-10:19/23	08:05 08:35-09:20/45	06:52	06:26 06:53-07:13/20	05:10 05:47-06:10/23	04:23
	16:01	17:10 09:29-09:43/14	18:15	20:23	21:29	22:21
12	08:59 09:55-10:19/24	08:03 08:33-08:56/23 09:33-09:40/7	06:50	06:23 06:50-07:11/21	05:08 05:47-06:09/22	04:23
	16:03	17:12 08:57-09:20/23	18:17	20:25	21:31	22:22
13	08:58 09:56-10:20/24	08:00 08:30-08:54/24	06:47	06:21 06:47-07:09/22	05:06 05:47-06:08/21	04:22
	16:05	17:15 08:58-09:19/21	18:19	20:28	21:33	22:23
14	08:57 09:56-10:20/24	07:58 08:27-08:53/26	06:44	06:18 06:45-07:02/17	05:04 05:48-06:07/19	04:22
	16:07	17:17 08:58-09:18/20	18:21	20:30 07:03-07:07/4	21:36	22:24
15	08:56 09:57-10:20/23	07:56 08:28-08:49/21	06:41 07:08-07:12/4	06:15 06:45-07:01/16	05:02 05:48-06:04/16	04:22
	16:09	17:19 09:00-09:17/17	18:24	20:32	21:38	22:25
16	08:54 09:58-10:20/22	07:53 08:27-08:49/22	06:39 07:05-07:13/8	06:13 06:45-07:01/16	05:00 05:49-06:00/11	04:21
	16:11 15:26-15:28/2	17:22 09:02-09:14/12	18:26	20:34	21:40	22:25
17	08:53 09:59-10:21/22	07:51 08:28-08:49/21	06:36 07:02-07:13/11	06:10 06:37-06:39/2	04:58 05:51-05:59/8	04:21
	16:13 15:26-15:31/5	17:24 09:06-09:11/5	18:28	20:37 06:45-07:00/15	21:42	22:26
18	08:52 09:59-10:20/21	07:48 08:27-08:49/22	06:33 06:59-07:13/14	06:07 06:34-06:41/7	04:56 05:55-05:56/1	04:21
	16:15 15:27-15:34/7	17:26	18:30	20:39 06:46-06:58/12	21:44	22:26
19	08:50 15:27-15:36/9 09:28-09:37/9	07:46 08:27-08:48/21	06:30 06:56-07:13/17	06:05 06:32-06:42/10	04:54	04:21
	16:17 10:00-10:20/20	17:29	18:33	20:41 06:48-06:57/9	21:46	22:27
20	08:49 15:27-15:38/11 09:26-09:39/13	07:43 08:29-08:48/19	06:27 06:54-07:13/19	06:02 06:29-06:43/14	04:52	04:21
	16:19 10:01-10:20/19	17:31	18:35	20:43	21:48	22:27
21	08:47 15:27-15:41/14 10:02-10:19/17	07:41 08:29-08:46/17	06:25 06:51-07:12/21	05:59 06:27-06:44/17	04:50	04:21
	16:21 09:23-09:41/18	17:33	18:37	20:45	21:50	22:27
22	08:46 15:27-15:43/16 10:03-10:18/15	07:38 08:30-08:45/15	06:22 06:48-07:11/23	05:57 06:24-06:43/19	04:48	04:21
	16:23 09:21-09:43/22	17:36	18:39	20:48	21:52	22:28
23	08:44 15:28-15:46/18 10:05-10:17/12	07:35 08:32-08:42/10	06:19 06:45-07:10/25	05:54 06:24-06:44/20	04:47	04:21
	16:25 09:19-09:44/25	17:38	18:41	20:50	21:53	22:28
24	08:42 15:29-15:48/19 10:07-10:15/8	07:33	06:16 06:42-07:07/25	05:51 06:23-06:43/20	04:45	04:22
	16:28 09:17-09:45/28	17:40	18:44	20:52	21:55	22:28
25	08:41 15:30-15:51/21	07:30	06:13 06:41-06:59/18	05:49 06:24-06:43/19	04:43	04:22
	16:30 09:15-09:46/31	17:43	18:46	20:54	21:57	22:28
26	08:39 15:31-15:54/23	07:28	06:11 06:42-07:00/18	05:46 06:24-06:43/19	04:42	04:23
	16:32 09:13-09:47/34	17:45	18:48	20:56	21:59	22:28
27	08:37 15:33-15:56/23	07:25	06:08 06:41-06:59/18	05:44 06:24-06:42/18	04:40	04:23
	16:34 09:11-09:48/37	17:47	18:50 06:34-06:36/2	20:59 06:12-06:13/1	22:01	22:28
28	08:35 15:35-15:57/22	07:22	06:05 06:42-06:57/15	05:41 06:25-06:41/16	04:38	04:24
	16:37 09:12-09:49/37	17:50	18:52 06:31-06:38/7	21:01 06:10-06:15/5	22:02	22:27
29	08:33 15:35-15:56/21 09:07-09:11/4		07:02 07:28-07:39/11	05:39 06:26-06:40/14	04:37	04:24
	16:39 09:12-09:49/37		19:55 07:42-07:56/14	21:03 06:08-06:17/9	22:04	22:27
30	08:31 15:36-15:56/20		06:59 07:26-07:41/15	05:36 06:27-06:37/10	04:36	04:25
	16:41 09:04-09:49/45		19:57 07:45-07:54/9	21:05 06:05-06:17/12	22:06	22:27
31	08:29 15:38-15:55/17		06:57 07:23-07:41/18		04:34	
	16:44 09:02-09:50/48		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1332	999	312	602	350	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 1 - VES "Senlejas"

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15 05:57-06:20/23	06:21 06:52-07:12/20	07:25	07:34 08:08-08:51/43	08:39 09:38-10:01/23
	22:26	21:41	20:23	19:00	16:38 08:57-09:15/18	15:43
2	04:27	05:17 05:57-06:22/25	06:23 06:54-07:12/18	07:27	07:36 08:10-08:50/40	08:41 09:38-10:02/24
	22:26	21:39	20:21	18:57	16:36 08:55-09:16/21	15:42
3	04:28	05:19 05:57-06:24/27	06:25 06:56-07:12/16	07:29	07:38 08:13-08:51/38	08:43 09:38-10:02/24
	22:25	21:37	20:18	18:54	16:33 08:54-09:18/24	15:41
4	04:29	05:21 05:56-06:24/28	06:27 07:22-07:29/7	07:31	07:41 08:15-08:50/35	08:44 09:39-10:02/23
	22:24	21:35	20:15 06:58-07:12/14	18:51	16:31 08:53-09:18/25	15:40
5	04:30	05:23 05:58-06:25/27	06:29 07:18-07:32/14	07:33	07:43 08:26-08:50/24 08:53-09:19/26	08:46 09:39-10:03/24
	22:24	21:33	20:12 07:00-07:11/11	18:48	16:29 08:18-08:25/7	15:40
6	04:31	05:26 06:00-06:26/26	06:32 07:15-07:33/18	07:35	07:45 08:21-08:49/28	08:48 11:54-11:56/2 11:07-11:14/7
	22:23	21:30	20:10 07:02-07:10/8	18:46	16:27 08:52-09:19/27	15:39 09:40-10:03/23
7	04:32	05:28 06:02-06:26/24	06:34 07:13-07:33/20	07:38	07:48 08:26-09:20/54	08:49 11:51-12:00/9 11:05-11:15/10
	22:22	21:28	20:07 07:04-07:08/4	18:43	16:24 08:23-08:24/1	15:38 09:40-10:03/23
8	04:33	05:30 06:04-06:26/22	06:36 07:11-07:34/23	07:40	07:50 08:28-09:21/53	08:51 11:51-12:02/11 11:05-11:17/12
	22:21	21:26	20:04	18:40	16:22	15:37 09:41-10:03/22 10:30-10:34/4
9	04:35	05:32 06:06-06:26/20	06:38 07:11-07:34/23	07:42	07:52 15:13-15:22/9	08:52 11:51-12:04/13 11:05-11:18/13 10:29-10:36/7
	22:20	21:23	20:01	18:37	16:20 08:28-09:21/53	15:37 09:42-10:04/22 10:40-10:43/3
10	04:36	05:34 06:08-06:26/18	06:40 07:10-07:33/23	07:44	07:54 15:11-15:25/14	08:54 11:50-12:04/14 11:04-11:19/15 10:28-10:37/9
	22:19	21:21	19:58	18:35	16:18 08:31-09:21/50	15:36 09:42-10:03/21 10:38-10:44/6
11	04:38	05:36 06:10-06:26/16	06:42 07:12-07:33/21	07:46	07:57 15:09-15:26/17	08:55 11:50-12:06/16 11:04-11:20/16
	22:18	21:18	19:56	18:32	16:16 08:33-09:21/48	15:36 09:43-10:04/21 10:28-10:47/19
12	04:39	05:38 06:37-06:44/7	06:44 07:14-07:32/18	07:48	07:59 15:08-15:28/20	08:56 11:49-12:07/18 11:04-11:21/17
	22:16	21:16 06:12-06:26/14	19:53	18:29	16:14 08:36-09:21/45	15:36 09:43-10:04/21 10:28-10:48/20
13	04:40	05:40 06:35-06:46/11	06:46 07:16-07:31/15	07:51	08:01 15:07-15:28/21 08:39-08:42/3	08:57 11:49-12:07/18 11:03-11:21/18
	22:15	21:13 06:14-06:25/11	19:50 07:35-07:44/9	18:27	16:12 08:44-09:20/36	15:35 09:43-10:04/21 10:27-10:49/22
14	04:42	05:43 06:33-06:48/15	06:48 07:18-07:30/12	07:53	08:04 15:07-15:29/22	08:59 11:50-12:09/19 11:04-11:23/19
	22:14	21:11 06:16-06:24/8	19:47 07:33-07:46/13	18:24	16:10 08:44-09:21/37	15:35 09:45-10:05/20 10:28-10:50/22
15	04:44	05:45 06:32-06:49/17	06:51 07:31-07:47/16	07:55	08:06 15:05-15:28/23	09:00 11:50-12:09/19 11:04-11:24/20
	22:12	21:08 06:18-06:23/5	19:44 07:20-07:28/8	18:21	16:08 08:44-09:21/37	15:35 09:45-10:05/20 10:28-10:51/23
16	04:45	05:47 06:31-06:49/18	06:53 07:30-07:47/17	07:57	08:08 15:04-15:27/23	09:01 11:50-12:10/20 11:05-11:24/19
	22:11	21:06	19:42 07:22-07:25/3	18:19	16:06 08:46-09:20/34	15:35 09:46-10:05/19 10:28-10:52/24
17	04:47	05:49 06:31-06:50/19	06:55 07:30-07:48/18	08:00	08:10 15:04-15:25/21	09:02 11:50-12:11/21 11:05-11:25/20
	22:09	21:03	19:39	18:16	16:04 08:49-09:20/31	15:35 09:47-10:06/19 10:29-10:53/24
18	04:49	05:51 06:30-06:50/20	06:57 07:29-07:48/19	08:02 09:06-09:11/5	08:12 15:03-15:22/19 09:41-09:49/8	09:02 11:51-12:11/20 11:05-11:26/21
	22:08	21:01	19:36	18:13	16:02 08:51-09:19/28	15:35 09:48-10:06/18 10:29-10:53/24
19	04:50	05:53 06:30-06:50/20	06:59 07:29-07:54/25	08:04 09:02-09:14/12	08:15 15:03-15:21/18 09:40-09:52/12	09:03 11:50-12:11/21 11:05-11:25/20
	22:06	20:58	19:33	18:11	16:01 08:54-09:19/25	15:35 09:49-10:07/18 10:30-10:54/24
20	04:52	05:55 06:30-06:49/19	07:01 07:31-07:56/25	08:06 09:01-09:16/15	08:17 15:02-15:18/16 09:38-09:53/15	09:04 11:51-12:12/21 11:06-11:26/20
	22:05	20:56	19:30	18:08	15:59 08:56-09:18/22	15:36 09:49-10:07/18 10:29-10:54/25
21	04:54	05:58 06:30-06:49/19	07:03 07:33-07:57/24	08:09 08:59-09:17/18	08:19 15:03-15:17/14 09:38-09:55/17	09:05 11:52-12:13/21 11:06-11:27/21
	22:03	20:53	19:28	18:05	15:57 08:59-09:17/18	15:36 09:50-10:08/18 10:30-10:55/25
22	04:56	06:00 06:32-06:48/16	07:05 07:35-07:57/22	08:11 08:59-09:18/19	08:21 15:03-15:14/11 09:02-09:15/13	09:05 11:52-12:13/21 11:06-11:27/21
	22:01	20:50	19:25	18:03	15:56 09:37-09:56/19	15:37 09:50-10:07/17 10:30-10:55/25
23	04:58	06:02 06:34-06:47/13	07:07 07:37-07:57/20	08:13 08:58-09:18/20	08:23 15:03-15:12/9 09:05-09:14/9	09:06 11:53-12:14/21 11:08-11:28/20
	21:59	20:48 06:55-06:57/2	19:22	18:00	15:54 09:37-09:57/20	15:37 09:51-10:09/18 10:31-10:56/25
24	04:59	06:04 06:36-06:46/10	07:10 07:40-07:57/17	08:15 08:58-09:19/21	08:25 09:37-09:58/21	09:06 11:53-12:14/21 11:08-11:28/20
	21:58	20:45 06:51-07:01/10	19:19	17:58	15:52 15:04-15:11/7	15:38 09:51-10:09/18 10:31-10:56/25
25	05:01	06:06 06:38-06:44/6	07:12 07:41-07:56/15	07:18 07:57-08:19/22	08:27 09:36-09:58/22	09:06 11:54-12:14/20 11:08-11:28/20
	21:56	20:42 06:49-07:02/13	19:16	16:55 08:34-08:42/8	15:51 15:04-15:09/5	15:38 09:51-10:09/18 10:32-10:56/24
26	05:03 06:03-06:08/5	06:08 06:40-06:41/1	07:14 07:43-07:55/12	07:20 07:57-08:19/22	08:29 09:37-09:59/22	09:07 11:54-12:15/21 11:09-11:29/20
	21:54	20:40 06:48-07:03/15	19:13	16:53 08:32-08:45/13	15:50 15:05-15:08/3	15:39 09:51-10:10/19 10:32-10:57/25
27	05:05 06:01-06:11/10	06:10 06:47-07:03/16	07:16 07:46-07:55/9	07:22 07:57-08:19/22	08:31 09:37-09:59/22	09:07 11:55-12:15/20 11:09-11:29/20
	21:52	20:37	19:11	16:50 08:29-08:47/18	15:48	15:40 09:51-10:10/19 10:33-10:57/24
28	05:07 06:00-06:12/12	06:12 06:47-07:03/16	07:18 07:48-07:53/5	07:24 07:58-08:23/25	08:33 09:36-10:00/24	09:07 11:56-12:15/19 11:10-11:29/19
	21:50	20:34	19:08	16:48 08:28-08:48/20	15:47	15:41 09:51-10:11/20 10:34-10:57/23
29	05:09 05:58-06:15/17	06:15 06:46-07:08/22	07:20 07:50-07:51/1	07:27 08:00-08:24/24	08:35 09:36-10:00/24	09:07 11:56-12:16/20 11:11-11:30/19
	21:48	20:32	19:05	16:45 08:27-08:49/22	15:46	15:42 09:51-10:12/21 10:35-10:57/22
30	05:11 05:58-06:18/20	06:17 06:48-07:10/22	07:22	07:29 08:03-08:26/23 09:02-09:10/8	08:37 09:38-10:01/23	09:07 11:58-12:16/18 11:12-11:30/18
	21:46	20:29	19:02	16:43 08:27-08:50/23	15:44	15:43 09:52-10:13/21 10:36-10:58/22
31	05:13 05:57-06:19/22	06:19 06:50-07:11/21		07:31 08:05-08:50/45		09:07 11:58-12:15/17 11:12-11:30/18
	21:44	20:26		16:40 08:58-09:13/15		15:44 09:52-10:13/21 10:36-10:57/21
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	86	642	563	420	1474	2075

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 2 - Z1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 10:05-10:50/45 15:46 09:50-10:04/14	08:27 09:26-10:37/71 16:46	07:20 17:52	06:54 07:25-07:56/31 20:01	05:34 06:52-07:09/17 21:07	04:33 20:58-21:21/23 06:03-06:24/21 22:09 05:27-05:56/29
2	09:06 09:49-10:51/62 15:47	08:25 09:25-10:36/71 16:49	07:17 17:54	06:51 07:23-07:55/32 20:03	05:31 06:54-07:07/13 21:10	04:32 20:57-21:22/25 06:03-06:23/20 22:10 05:25-05:56/31
3	09:06 09:48-10:51/63 15:48	08:23 09:25-10:34/69 16:51	07:14 17:57	06:48 07:23-07:55/32 20:06	05:29 06:08-06:18/10 21:12 06:59-07:02/3	04:31 20:57-21:22/25 06:04-06:22/18 22:12 05:23-05:57/34
4	09:05 09:48-10:51/63 15:50	08:21 09:24-10:18/54 16:53 10:19-10:33/14	07:12 17:59	06:46 07:22-07:54/32 20:08	05:27 06:04-06:20/16 21:14	04:30 20:57-21:23/26 06:05-06:22/17 22:13 05:22-05:57/35
5	09:05 09:49-10:52/63 15:51	08:19 09:24-10:18/54 16:56 10:23-10:27/4	07:09 18:01	06:43 07:22-07:53/31 20:10	05:24 06:03-06:21/18 21:16	04:29 20:56-21:23/27 06:06-06:21/15 22:14 05:21-05:57/36
6	09:04 09:49-10:53/64 15:53	08:17 09:24-10:18/54 16:58	07:06 18:03	06:40 07:21-07:51/30 20:12	05:22 06:01-06:23/22 21:18	04:28 20:56-21:23/27 06:07-06:20/13 22:16 05:20-05:57/37
7	09:04 09:49-10:53/64 15:54	08:14 09:23-10:17/54 17:00	07:03 18:06	06:37 07:22-07:50/28 20:14	05:20 06:00-06:24/24 21:21	04:27 20:55-21:23/28 06:09-06:19/10 22:17 05:21-05:58/37
8	09:03 09:49-10:52/63 15:56	08:12 09:23-10:17/54 17:03	07:01 18:08	06:35 07:22-07:46/24 20:17 07:10-07:13/3	05:17 05:59-06:25/26 21:23	04:26 20:56-21:25/29 06:10-06:18/8 22:18 05:20-05:58/38
9	09:02 09:48-10:53/65 15:58	08:10 09:23-10:17/54 17:05	06:58 18:10	06:32 07:22-07:43/21 20:19 07:04-07:17/13	05:15 05:58-06:26/28 21:25	04:25 20:56-21:24/28 06:12-06:16/4 22:19 05:19-05:58/39
10	09:01 09:45-10:53/68 15:59	08:07 09:23-10:17/54 17:08	06:55 18:13	06:29 07:24-07:42/18 20:21 07:01-07:19/18	05:13 05:58-06:26/28 21:27	04:24 20:56-21:25/29 22:20 05:19-05:58/39
11	09:00 09:43-10:54/71 16:01	08:05 09:23-10:15/52 17:10	06:52 18:15	06:26 07:24-07:40/16 20:23 07:00-07:21/21	05:11 05:57-06:27/30 21:29	04:24 20:56-21:25/29 22:21 05:19-05:58/39
12	08:59 09:42-10:53/71 16:03	08:03 09:24-10:15/51 17:12	06:50 18:17	06:24 07:26-07:37/11 20:25 06:58-07:22/24	05:08 05:57-06:27/30 21:31	04:23 20:56-21:26/30 22:22 05:19-05:59/40
13	08:58 09:37-10:54/77 16:05	08:00 09:24-10:14/50 17:15	06:47 18:19	06:21 06:56-07:23/27 20:28	05:06 05:56-06:27/31 21:33	04:23 20:57-21:26/29 22:23 05:19-05:59/40
14	08:57 09:35-10:53/78 16:07	07:58 09:24-10:12/48 17:17	06:44 18:22	06:18 06:53-07:23/30 20:30	05:04 05:56-06:27/31 21:35	04:22 20:56-21:26/30 22:24 05:18-05:59/41
15	08:56 09:34-10:54/80 16:09	07:56 09:25-10:11/46 17:19	06:41 18:24	06:15 06:52-07:23/31 20:32	05:02 05:56-06:27/31 21:38	04:22 20:56-21:27/31 22:25 05:19-05:59/40
16	08:54 09:32-10:53/81 16:11	07:53 09:25-10:08/43 17:22	06:39 18:26	06:13 06:51-07:24/33 20:34	05:00 05:55-06:27/32 21:40	04:22 20:57-21:27/30 22:25 05:19-05:59/40
17	08:53 09:31-10:52/81 16:13	07:51 09:26-10:05/39 17:24	06:36 18:28	06:10 06:49-07:23/34 20:37	04:58 05:56-06:28/32 21:42	04:21 20:57-21:27/30 22:26 05:19-06:00/41
18	08:52 09:30-10:52/82 16:15	07:48 09:27-09:58/31 17:26	06:33 18:30	06:07 06:49-07:23/34 20:39	04:56 05:56-06:28/32 21:44	04:21 20:57-21:28/31 22:26 05:19-06:00/41
19	08:50 09:30-10:51/81 16:17	07:46 09:28-09:56/28 17:29	06:30 18:33	06:05 06:48-07:23/35 20:41	04:54 05:35-05:44/9 21:46 05:56-06:27/31	04:21 20:57-21:28/31 22:27 05:19-06:00/41
20	08:49 09:30-10:50/80 16:19	07:43 09:30-09:55/25 17:31	06:27 18:35	06:02 06:47-07:22/35 20:43	04:52 05:34-05:47/13 21:48 05:57-06:28/31	04:21 20:57-21:28/31 22:27 05:19-06:00/41
21	08:47 09:30-10:39/69 16:21 10:41-10:47/6	07:41 09:31-09:53/22 17:34	06:25 18:37	05:59 06:47-07:21/34 20:45	04:50 05:32-05:48/16 21:50 05:56-06:27/31	04:21 20:57-21:28/31 22:27 05:19-06:00/41
22	08:46 09:30-10:39/69 16:23	07:38 09:33-09:49/16 17:36	06:22 18:39	05:57 06:47-07:20/33 20:48	04:49 05:30-05:49/19 21:51 05:56-06:27/31	04:21 20:57-21:28/31 22:28 05:20-06:01/41
23	08:44 09:30-10:40/70 16:26	07:35 09:38-09:44/6 17:38	06:19 18:41	05:54 06:47-07:20/33 20:50	04:47 05:30-05:51/21 21:53 05:57-06:27/30	04:22 20:58-21:29/31 22:28 05:20-06:01/41
24	08:42 09:30-10:40/70 16:28	07:33 17:41	06:16 18:44	05:52 06:47-07:19/32 20:52	04:45 05:28-05:51/23 21:55 05:57-06:26/29	04:22 20:58-21:29/31 22:28 05:20-06:01/41
25	08:41 09:30-10:40/70 16:30	07:30 17:43	06:13 06:42-06:52/10 18:46	05:49 06:47-07:17/30 20:54	04:43 21:04-21:12/8 05:58-06:26/28 21:57 05:28-05:52/24	04:22 20:59-21:29/30 22:28 05:21-06:02/41
26	08:39 09:31-10:40/69 16:32	07:28 17:45	06:11 06:39-06:54/15 18:48	05:46 06:48-07:15/27 20:56	04:42 21:02-21:15/13 05:59-06:26/27 21:59 05:28-05:53/25	04:23 20:59-21:29/30 22:28 05:21-06:01/40
27	08:37 09:31-10:40/69 16:35	07:25 17:47	06:08 06:37-06:55/18 18:50	05:44 06:48-07:14/26 20:59	04:40 21:00-21:16/16 05:59-06:25/26 22:01 05:27-05:53/26	04:23 20:59-21:30/31 22:28 05:22-06:02/40
28	08:35 09:30-10:40/70 16:37	07:22 17:50	06:05 06:35-06:55/20 18:52	05:41 06:49-07:13/24 21:01	04:39 21:00-21:17/17 05:59-06:25/26 22:02 05:27-05:54/27	04:24 20:59-21:29/30 22:27 05:21-06:02/41
29	08:33 09:28-10:39/71 16:39		07:02 07:30-07:56/26 19:55	05:39 06:50-07:12/22 21:03	04:37 20:59-21:18/19 06:00-06:25/25 22:04 05:27-05:55/28	04:25 21:00-21:30/30 22:27 05:22-06:02/40
30	08:31 09:27-10:38/71 16:42		07:00 07:28-07:57/29 19:57	05:36 06:50-07:10/20 21:05	04:36 20:58-21:20/22 06:01-06:24/23 22:06 05:27-05:55/28	04:25 21:00-21:30/30 22:27 05:23-06:03/40
31	08:29 09:26-10:38/72 16:44		06:57 07:26-07:56/30 19:59		04:34 20:58-21:20/22 06:02-06:24/22 22:07 05:27-05:56/29	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	2192	1064	148	925	1219	2165

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 2 - Z1

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 21:00-21:29/29 22:26 05:23-06:02/39	05:15 06:07-06:37/30 21:41	06:21 07:23-07:39/16 20:23 06:59-07:20/21	07:25 19:00	07:34 08:53-09:46/53 16:38	08:39 09:25-10:36/71 15:44
2	04:27 21:00-21:30/30 22:26 05:23-06:03/40	05:17 06:08-06:37/29 21:39	06:23 07:22-07:40/18 20:21 07:00-07:18/18	07:27 18:57	07:36 08:52-09:46/54 16:36	08:41 09:28-10:36/68 15:42
3	04:28 21:01-21:30/29 22:25 05:24-06:03/39	05:19 06:08-06:36/28 21:37	06:25 07:20-07:41/21 20:18 07:02-07:15/13	07:29 18:54	07:38 08:53-09:47/54 16:34	08:43 09:33-10:37/64 15:42
4	04:29 21:01-21:30/29 06:16-06:22/6 22:24 05:25-06:03/38	05:22 06:09-06:36/27 21:35	06:27 07:19-07:43/24 20:15 07:07-07:10/3	07:31 18:51	07:41 08:53-09:47/54 16:31	08:44 09:33-10:38/65 15:41
5	04:30 21:02-21:30/28 06:15-06:24/9 22:24 05:26-06:03/37	05:24 06:09-06:34/25 21:33	06:30 07:18-07:46/28 20:12	07:33 18:48	07:43 08:53-09:48/55 16:29	08:46 09:34-10:38/64 15:40
6	04:31 21:02-21:30/28 06:14-06:26/12 22:23 05:26-06:03/37	05:26 06:10-06:33/23 21:30	06:32 07:17-07:47/30 20:10	07:35 18:46	07:45 08:53-09:47/54 16:27 09:52-09:58/6	08:48 09:35-10:38/63 15:39
7	04:32 21:02-21:30/28 06:13-06:27/14 22:22 05:27-06:03/36	05:28 06:11-06:32/21 21:28	06:34 07:17-07:48/31 20:07	07:38 18:43	07:48 08:54-10:03/69 16:25	08:49 09:35-10:38/63 15:38
8	04:34 21:03-21:29/26 06:12-06:28/16 22:21 05:28-06:03/35	05:30 06:13-06:30/17 21:26	06:36 07:17-07:48/31 20:04	07:40 18:40	07:50 08:55-10:05/70 16:22	08:51 09:36-10:39/63 15:38
9	04:35 21:03-21:29/26 06:11-06:28/17 22:20 05:29-06:04/35	05:32 06:15-06:28/13 21:23	06:38 07:17-07:48/31 20:01	07:42 18:37	07:52 08:56-10:07/71 16:20	08:52 09:37-10:40/63 15:37
10	04:36 21:05-21:30/25 06:11-06:30/19 22:19 05:32-06:04/32	05:34 06:18-06:25/7 21:21 07:05-07:13/8	06:40 07:17-07:48/31 19:59	07:44 18:35	07:54 08:57-10:08/71 16:18	08:54 09:38-10:40/62 15:37
11	04:38 21:05-21:29/24 06:10-06:31/21 22:18 05:33-06:04/31	05:36 07:02-07:16/14 21:18	06:42 07:17-07:48/31 19:56	07:46 18:32	07:57 08:57-10:09/72 16:16	08:55 09:56-10:41/45 15:36 09:40-09:55/15
12	04:39 21:05-21:28/23 06:10-06:31/21 22:16 05:34-06:03/29	05:38 07:00-07:18/18 21:16	06:44 07:17-07:48/31 19:53	07:48 18:29	07:59 08:59-10:10/71 16:14	08:56 09:57-10:41/44 15:36 09:41-09:55/14
13	04:41 21:06-21:27/21 06:10-06:33/23 22:15 05:35-06:04/29	05:41 06:58-07:19/21 21:13	06:46 07:18-07:47/29 19:50	07:51 18:27	08:01 09:00-10:11/71 16:12	08:57 09:57-10:41/44 15:36 09:42-09:55/13
14	04:42 21:07-21:28/21 06:09-06:33/24 22:14 05:35-06:03/28	05:43 06:57-07:20/23 21:11	06:49 07:20-07:46/26 19:47	07:53 18:24	08:03 09:02-10:12/70 16:10	08:59 09:59-10:42/43 15:35 09:44-09:55/11
15	04:44 21:08-21:26/18 06:08-06:33/25 22:12 05:35-06:03/28	05:45 06:56-07:21/25 21:08	06:51 07:24-07:45/21 19:45	07:55 18:21	08:06 09:04-10:13/69 16:08	09:00 10:00-10:42/42 15:35 09:45-09:55/10
16	04:45 21:09-21:26/17 06:08-06:35/27 22:11 05:36-06:03/27	05:47 06:55-07:22/27 21:06	06:53 07:26-07:44/18 19:42	07:57 18:19	08:08 09:04-10:13/69 16:06	09:01 10:01-10:43/42 15:35 09:46-09:55/9
17	04:47 21:10-21:24/14 06:08-06:35/27 22:09 05:36-06:02/26	05:49 06:54-07:22/28 21:03	06:55 07:27-07:43/16 19:39	08:00 18:16	08:10 09:04-10:14/70 16:04	09:02 10:02-10:43/41 15:35 09:47-09:55/8
18	04:49 21:13-21:23/10 06:08-06:36/28 22:08 05:37-06:02/25	05:51 06:53-07:24/31 21:01	06:57 07:29-07:40/11 19:36	08:02 18:13	08:12 09:04-10:14/70 16:02	09:02 10:03-10:44/41 15:35 09:48-09:55/7
19	04:50 21:15-21:19/4 06:07-06:36/29 22:06 05:38-06:01/23	05:53 06:53-07:25/32 20:58	06:59 19:33	08:04 10:07-10:17/10 18:11	08:15 09:05-10:15/70 16:01	09:03 10:03-10:43/40 15:36 09:48-09:54/6
20	04:52 21:39-06:01/22 22:05 06:07-06:36/29	05:55 06:52-07:25/33 20:56	07:01 19:30	08:06 10:04-10:22/18 18:08	08:17 09:05-10:14/69 15:59	09:04 10:04-10:44/40 15:36 09:49-09:55/6
21	04:54 21:40-06:00/20 22:03 06:07-06:37/30	05:58 06:52-07:26/34 20:53	07:03 19:28	08:09 10:01-10:24/23 18:05	08:19 09:06-10:15/69 15:57 10:17-10:23/6	09:05 10:05-10:45/40 15:36 09:50-09:56/6
22	04:56 21:41-05:59/18 22:01 06:06-06:37/31	06:00 06:52-07:26/34 20:50	07:05 19:25	08:11 09:59-10:26/27 18:03	08:21 09:06-10:26/80 15:56	09:05 10:05-10:45/40 15:37 09:50-09:56/6
23	04:58 21:43-05:58/15 21:59 06:07-06:38/31	06:02 06:52-07:26/34 20:48	07:08 19:22	08:13 09:58-10:27/29 18:00	08:23 09:07-10:28/81 15:54	09:06 10:06-10:46/40 15:37 09:51-09:57/6
24	05:00 21:45-05:56/11 21:58 06:07-06:38/31	06:04 06:52-07:26/34 20:45	07:10 19:19	08:15 09:57-10:30/33 17:58	08:25 09:08-10:29/81 15:53	09:06 10:06-10:46/40 15:38 09:51-09:57/6
25	05:01 21:47-05:53/6 21:56 06:06-06:38/32	06:06 06:52-07:26/34 20:42	07:12 19:16	07:18 08:55-09:36/41 16:55	08:27 09:08-10:30/82 15:51	09:06 10:06-10:47/41 15:39 09:51-09:58/7
26	05:03 06:06-06:38/32 21:54	06:08 06:52-07:26/34 20:40	07:14 19:14	07:20 08:55-09:39/44 16:53	08:29 09:11-10:32/81 15:50	09:07 10:06-10:47/41 15:39 09:51-09:58/7
27	05:05 06:06-06:38/32 21:52	06:10 06:53-07:25/32 20:37	07:16 19:11	07:22 08:54-09:41/47 16:50	08:31 09:13-10:33/80 15:48	09:07 10:06-10:48/42 15:40 09:51-09:59/8
28	05:07 06:07-06:38/31 21:50	06:13 06:53-07:25/32 20:34	07:18 19:08	07:24 08:54-09:43/49 16:48	08:33 09:15-10:33/78 15:47	09:07 10:06-10:48/42 15:41 09:51-10:00/9
29	05:09 06:06-06:38/32 21:48	06:15 06:54-07:24/30 20:32	07:20 19:05	07:27 08:53-09:43/50 16:45	08:35 09:17-10:34/77 15:46	09:07 10:06-10:49/43 15:42 09:51-10:02/11
30	05:11 06:06-06:38/32 21:46	06:17 07:31-07:33/2 20:29 06:56-07:23/27	07:22 19:02	07:29 08:53-09:45/52 16:43	08:37 09:24-10:35/71 15:45	09:07 10:05-10:50/45 15:43 09:51-10:03/12
31	05:13 06:07-06:37/30 21:44	06:19 07:26-07:37/11 20:26 06:58-07:22/24		07:31 08:52-09:45/53 16:41		09:07 10:06-10:49/43 15:44 09:50-10:03/13
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	1827	842	499	476	2098	1715

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 3 - Z2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 13:48-14:15/27 11:27-12:02/35 13:18-13:39/21	08:27	07:20 08:06-09:08/62	06:54 07:51-08:39/48	05:34 06:31-07:26/55	04:33 06:13-07:19/66
	15:46 10:02-11:24/82 12:06-12:42/36	16:46	17:52	20:01	21:08 07:38-08:16/38	22:09 05:39-05:51/12
2	09:06 13:49-14:16/27 11:27-12:02/35 13:19-13:39/20	08:25	07:17 08:05-09:08/63	06:51 07:48-08:38/50	05:31 06:27-07:27/60	04:32 06:14-07:19/65
	15:47 10:02-11:24/82 12:06-12:42/36	16:48	17:54	20:03	21:10 07:39-08:14/35	22:10 05:40-05:51/11
3	09:06 13:50-14:16/26 11:27-12:02/35 13:19-13:39/20	08:23	07:14 08:05-09:07/62	06:48 07:46-08:35/49	05:29 06:24-07:26/62	04:31 06:14-07:19/65
	15:48 10:02-11:23/81 12:07-12:42/35	16:51	17:57 07:50-07:52/2	20:06	21:12 07:39-08:12/33	22:12 05:42-05:50/8
4	09:05 13:50-14:16/26 11:27-12:02/35 13:20-13:38/18	08:21	07:12 07:45-09:07/82	06:46 07:45-08:34/49	05:27 06:22-07:26/64	04:30 06:14-07:18/64
	15:50 10:03-11:24/81 12:07-12:42/35	16:53	17:59	20:08	21:14 07:41-08:10/29	22:13 05:43-05:48/5
5	09:05 13:51-14:17/26 11:29-12:03/34 13:22-13:39/17	08:19	07:09 07:42-09:06/84	06:43 07:43-08:32/49	05:24 06:21-07:27/66	04:28 06:14-07:18/64
	15:51 10:03-11:24/81 12:08-12:43/35	16:56	18:01	20:10	21:16 07:43-08:08/25	22:15
6	09:04 13:52-14:18/26 11:29-12:04/35 13:23-13:39/16	08:17	07:06 07:40-09:05/85	06:40 07:41-08:31/50	05:22 06:20-07:27/67	04:27 06:14-07:18/64
	15:53 10:04-11:24/80 12:09-12:43/34	16:58	18:03	20:12	21:18 07:46-08:05/19	22:16
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	16:44		19:59		22:07 05:38-05:52/14	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	3573	887	2310	1912	2690	2165

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 3 - Z2

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 06:20-07:21/61	05:15 06:25-07:37/72	06:21 07:35-08:28/53	07:25 08:14-09:35/81	07:34 08:12-08:18/6	08:39 13:38-14:00/22 11:14-11:47/33
	22:26 05:06-05:16/10	21:41 05:51-06:00/9	20:24	19:00	16:38	15:43 09:47-10:58/71 11:55-12:26/31
2	04:27 06:20-07:22/62	05:17 06:26-07:37/71	06:23 07:35-08:27/52	07:27 08:14-09:35/81	07:36	08:41 13:38-14:01/23 11:14-11:47/33 11:54-12:27/33
	22:26 05:07-05:16/9	21:39 05:53-05:59/6	20:21	18:57	16:36	15:42 09:47-11:04/77 13:13-13:18/5
3	04:28 06:20-07:22/62	05:19 06:26-07:37/71	06:25 07:35-08:26/51	07:29 08:14-09:36/82	07:38	08:43 13:37-14:02/25 11:14-11:48/34 11:54-12:27/33
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24	04:59 06:22-07:34/72	06:04 07:36-08:31/55	07:10 07:56-08:55/59	08:15 09:02-09:41/39	08:25 13:43-13:50/7 11:16-11:40/24	09:06 13:45-14:12/27 11:22-11:58/36 13:13-13:36/23
	21:58 05:44-06:05/21	20:45	19:19 08:58-09:31/33	17:58 08:49-09:00/11	15:53 09:45-10:54/69 11:57-12:18/21	15:38 09:59-11:21/82 12:02-12:38/36
25	05:01 06:22-07:34/72	06:06 07:36-08:31/55	07:12 07:57-08:55/58	07:18 08:01-08:39/38	08:27 13:40-13:52/12 11:15-11:41/26	09:06 13:45-14:13/28 11:22-11:58/36 13:13-13:37/24
	21:56 05:44-06:04/20	20:42	19:16 08:56-09:32/36	16:55	15:51 09:45-10:55/70 11:56-12:19/23	15:38 10:00-11:21/81 12:02-12:38/36
26	05:03 06:22-07:35/73	06:08 07:35-08:31/56	07:14 07:58-09:33/95	07:20 08:02-08:39/37	08:29 13:40-13:55/15 11:15-11:42/27	09:07 13:46-14:13/27 11:23-11:59/36 13:13-13:37/24
	21:54 05:44-06:04/20	20:40	19:14	16:53	15:50 09:46-10:56/70 11:56-12:21/25	15:39 10:00-11:21/81 12:02-12:39/37
27	05:05 06:23-07:36/73	06:10 07:35-08:30/55	07:16 08:00-09:34/94	07:22 08:02-08:37/35	08:31 13:39-13:56/17 11:15-11:43/28	09:07 13:46-14:13/27 11:23-11:59/36 13:14-13:37/23
	21:52 05:45-06:04/19	20:37	19:11	16:50	15:48 09:46-10:56/70 11:55-12:22/27	15:40 10:00-11:22/82 12:03-12:39/36
28	05:07 06:23-07:36/73	06:13 07:35-08:30/55	07:18 08:02-09:35/93	07:25 08:03-08:36/33	08:33 13:38-13:57/19 11:14-11:44/30	09:07 13:47-14:14/27 11:24-12:00/36 13:15-13:38/23
	21:50 05:45-06:04/19	20:34	19:08	16:48	15:47 09:46-10:56/70 11:55-12:23/28	15:41 10:01-11:22/81 12:04-12:40/36
29	05:09 06:23-07:36/73	06:15 07:35-08:29/54	07:20 08:16-09:35/79	07:27 08:04-08:34/30	08:35 13:37-13:58/21 11:14-11:44/30	09:07 13:47-14:15/28 11:25-12:00/35 13:16-13:38/22
	21:48 05:45-06:03/18	20:32	19:05 08:06-08:14/8	16:45	15:46 09:46-10:57/71 11:54-12:24/30	15:42 10:01-11:23/82 12:04-12:40/36
30	05:11 06:24-07:36/72	06:17 07:35-08:29/54	07:22 08:15-09:35/80	07:29 08:06-08:32/26	08:37 13:38-14:00/22 11:14-11:46/32	09:07 13:48-14:15/27 11:25-12:01/36 13:17-13:39/22
	21:46 05:47-06:02/15	20:29	19:02	16:43	15:45 09:47-10:58/71 11:55-12:25/30	15:43 10:02-11:23/81 12:05-12:41/36
31	05:13 06:24-07:37/73	06:19 07:35-08:28/53		07:31 08:07-08:28/21		09:07 13:48-14:15/27 11:25-12:01/36 13:17-13:38/21
	21:44 05:49-06:02/13	20:26		16:41		15:44 10:01-11:23/82 12:05-12:41/36
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	2533	2363	1921	1876	1517	6126

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 4 - Z3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 12:15-12:42/27 10:11-10:59/48 11:06-11:32/26	08:27 15:21-15:28/7 09:47-10:17/30	07:20 07:49-08:07/18	06:54 07:29-08:01/32	05:34 06:23-07:03/40	04:33
	15:46 09:50-09:55/5 11:40-12:05/25	16:46 09:05-09:41/36 10:20-10:44/24	17:52	20:01	21:07	22:09
2	09:06 12:16-12:43/27 10:10-10:59/49 11:07-11:32/25	08:25 09:04-09:41/37 10:20-10:43/23	07:17 07:46-08:07/21	06:51 07:28-08:00/32	05:31 06:24-07:02/38	04:32
	15:47 09:49-09:56/7 11:40-12:05/25	16:48 09:47-10:16/29	17:54	20:03	21:10	22:10
3	09:06 12:16-12:43/27 10:10-10:59/49 11:08-11:31/23	08:23 09:04-09:42/38 10:23-10:41/18	07:14 07:44-08:07/23	06:48 07:22-07:59/37	05:29 06:23-06:59/36	04:31
	15:48 09:48-09:57/9 11:41-12:04/23	16:51 09:48-10:16/28	17:57	20:06	21:12	22:12
4	09:05 12:17-12:43/26 10:10-10:59/49 11:09-11:31/22	08:21 09:05-09:43/38 10:26-10:39/13	07:12 07:43-08:08/25	06:46 07:20-07:58/38	05:27 06:24-06:59/35	04:29
	15:50 09:48-09:59/11 11:41-12:04/23	16:53 09:50-10:16/26	17:59	20:08	21:14	22:13
5	09:05 12:18-12:44/26 10:11-11:01/50 11:11-11:31/20	08:19 09:04-09:42/38 10:30-10:34/4	07:09 07:42-08:07/25	06:43 07:17-07:56/39	05:24 06:24-06:58/34	04:28
	15:51 09:47-10:00/13 11:43-12:05/22	16:56 09:50-10:14/24	18:01	20:10	21:16	22:14
6	09:04 12:19-12:44/25 10:11-11:01/50 11:12-11:30/18	08:17 09:05-09:43/38	07:06 07:34-08:06/32	06:40 07:15-07:53/38	05:22 06:25-06:57/32	04:27
	15:53 09:46-10:01/15 11:44-12:05/21	16:58 09:52-10:13/21	18:03	20:12	21:18	22:16
7	09:04 12:20-12:44/24 10:11-11:01/50 11:23-11:28/5	08:14 09:05-09:42/37	07:03 07:30-08:05/35	06:37 07:15-07:51/36	05:19 06:25-06:55/30	04:27
	15:54 09:45-10:02/17 11:45-12:05/20 11:15-11:19/4	17:00 09:53-10:11/18	18:06	20:14	21:21	22:17
8	09:03 12:20-12:43/23 10:10-11:02/52	08:12 09:06-09:42/36	07:01 07:27-08:04/37	06:34 07:13-07:50/37	05:17 06:26-06:53/27	04:26
	15:56 09:45-10:03/18 11:46-12:04/18	17:03 09:56-10:10/14	18:08	20:17	21:23	22:18
9	09:02 12:21-12:43/22 10:10-11:01/51	08:10 09:07-09:41/34	06:58 07:26-08:05/39	06:32 07:12-07:48/36	05:15 06:27-06:49/22	04:25
	15:58 09:44-10:03/19 11:47-12:03/16	17:05 09:59-10:05/6	18:10	20:19	21:25	22:19
10	09:01 15:13-15:15/2 09:44-10:05/21 11:49-12:03/14	08:07 09:08-09:41/33	06:55 07:25-08:04/39	06:29 07:11-07:46/35	05:13 06:28-06:46/18	04:24
	15:59 12:23-12:42/19 10:10-11:02/52	17:07	18:12	20:21	21:27	22:20
11	09:00 15:12-15:18/6 09:44-10:06/22 11:51-12:02/11	08:05 09:10-09:40/30	06:52 07:24-08:03/39	06:26 07:11-07:45/34	05:10 06:30-06:44/14	04:24
	16:01 12:25-12:42/17 10:11-11:02/51	17:10	18:15	20:23	21:29	22:21
12	08:59 15:11-15:19/8 09:44-10:06/22 11:53-11:59/6	08:03 09:14-09:40/26	06:50 07:23-08:02/39	06:23 07:11-07:41/30	05:08 06:32-06:42/10	04:23
	16:03 12:26-12:41/15 10:10-11:01/51	17:12	18:17	20:25	21:31	22:22
13	08:58 15:11-15:22/11 09:44-10:07/23	08:00 09:19-09:38/19	06:47 07:20-08:01/41	06:21 07:10-07:41/31	05:06	04:22
	16:05 12:28-12:40/12 10:11-11:02/51	17:15	18:19 07:13-07:17/4	20:28	21:33	22:23
14	08:57 15:10-15:24/14 09:44-10:07/23	07:58 09:20-09:36/16	06:44 07:11-08:00/49	06:18 07:11-07:41/30	05:04	04:22
	16:07 12:31-12:37/6 10:10-11:01/51	17:17	18:21	20:30 06:52-07:00/8	21:36	22:24
15	08:56 15:11-15:27/16 10:11-11:02/51	07:56 09:24-09:34/10	06:41 07:08-07:57/49	06:15 07:10-07:40/30	05:02	04:22
	16:09 09:44-10:08/24	17:19	18:24	20:32 06:48-07:03/15	21:38	22:25
16	08:54 15:10-15:28/18 10:11-11:01/50	07:53	06:39 07:05-07:54/49	06:13 07:11-07:40/29	05:00	04:21
	16:11 09:44-10:09/25	17:22	18:26	20:34 06:46-07:05/19	21:40	22:25
17	08:53 15:10-15:30/20	07:51	06:36 07:04-07:53/49	06:10 07:11-07:38/27	04:58	04:21
	16:13 09:45-11:02/77	17:24	18:28	20:37 06:44-07:06/22	21:42	22:26
18	08:52 15:10-15:31/21	07:48	06:33 07:02-07:52/50	06:07 07:11-07:37/26	04:56	04:21
	16:15 09:45-11:01/76	17:26	18:30	20:39 06:41-07:06/25	21:44	22:26
19	08:50 15:10-15:32/22	07:46	06:30 07:01-07:50/49	06:05 07:12-07:36/24	04:54	04:21
	16:17 09:45-11:00/75	17:29	18:33	20:41 06:39-07:07/28	21:46	22:27
20	08:49 15:10-15:32/22	07:43	06:27 07:01-07:49/48	06:02 06:35-07:07/32	04:52	04:21
	16:19 09:45-10:58/73	17:31	18:35	20:43 07:13-07:34/21	21:48	22:27
21	08:47 15:10-15:32/22 10:47-10:56/9	07:41	06:25 07:00-07:46/46	05:59 06:33-07:08/35	04:50	04:21
	16:21 09:45-10:46/61 09:23-09:27/4	17:33	18:37	20:45 07:15-07:33/18	21:50	22:27
22	08:46 15:10-15:33/23 09:21-09:29/8	07:38	06:22 06:59-07:40/41	05:57 06:30-07:08/38	04:48	04:21
	16:23 09:44-10:47/63	17:36	18:39	20:48 07:16-07:29/13	21:51	22:28
23	08:44 15:11-15:33/22 09:19-09:31/12	07:35	06:19 06:59-07:39/40	05:54 06:29-07:08/39	04:47	04:21
	16:25 09:44-10:47/63	17:38	18:41 06:47-06:58/11	20:50 07:22-07:25/3	21:53	22:28
24	08:42 15:11-15:33/22 09:17-09:32/15	07:33	06:16 06:44-07:38/54	05:51 06:27-07:07/40	04:45	04:22
	16:28 09:44-10:47/63	17:40	18:44	20:52	21:55	22:28
25	08:41 15:12-15:33/21 09:16-09:34/18	07:30	06:13 06:43-07:37/54	05:49 06:26-07:07/41	04:43	04:22
	16:30 09:45-10:47/62	17:43	18:46	20:54	21:57	22:28
26	08:39 15:12-15:33/21 09:13-09:35/22	07:28 07:55-08:03/8	06:11 06:41-07:36/55	05:46 06:26-07:07/41	04:42	04:23
	16:32 09:45-10:47/62	17:45	18:48	20:56	21:59	22:28
27	08:37 15:13-15:33/20 09:11-09:36/25	07:25 07:53-08:06/13	06:08 06:38-07:34/56	05:44 06:24-07:06/42	04:40	04:23
	16:34 09:45-10:47/62	17:47	18:50	20:59	22:01	22:28
28	08:35 15:14-15:33/19 09:09-09:37/28	07:22 07:50-08:07/17	06:05 06:34-07:32/58	05:41 06:24-07:06/42	04:39	04:24
	16:37 09:45-10:47/62	17:50	18:52	21:01	22:02	22:27
29	08:33 15:15-15:32/17 09:07-09:39/32		07:02 07:32-08:15/43	05:39 06:24-07:06/42	04:37	04:24
	16:39 09:46-10:46/60		19:55 08:17-08:29/12	21:03	22:04	22:27
30	08:31 15:16-15:31/15 09:05-09:39/34		06:59 08:05-08:13/8	05:36 06:23-07:04/41	04:36	04:25
	16:41 09:46-10:46/60		19:57 07:31-08:03/32	21:05	22:06	22:27
31	08:29 15:18-15:30/12 09:46-10:17/31		06:57 07:30-08:02/32		04:34	
	16:44 09:05-09:40/35 10:18-10:45/27		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	3335	789	1302	1226	336	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 4 - Z3

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 22:26	05:15 06:41-06:53/12 21:41	06:21 07:10-07:44/34 20:23	07:25 08:01-08:41/40 19:00	07:34 08:38-09:11/33 16:38	08:39 14:54-15:00/6 09:26-09:48/22 11:33-11:44/11 15:43 12:07-12:24/17 09:53-10:44/51
2	04:27 22:26	05:17 06:40-06:55/15 21:39	06:23 07:10-07:45/35 20:21	07:27 08:02-08:41/39 18:57	07:36 08:36-09:11/35 16:36 09:28-09:36/8	08:41 14:56-14:58/2 09:27-09:48/21 11:32-11:46/14 15:42 12:06-12:26/20 09:53-10:45/52
3	04:28 22:25	05:19 06:38-06:57/19 21:37	06:25 07:10-07:46/36 20:18	07:29 08:03-08:42/39 18:54	07:38 08:36-09:12/36 16:33 09:25-09:40/15	08:43 12:06-12:27/21 09:54-10:45/51 15:41 09:28-09:48/20 11:31-11:47/16
4	04:29 22:24	05:21 06:36-07:00/24 21:35	06:27 07:10-07:47/37 20:15	07:31 08:03-08:42/39 18:51	07:41 08:35-09:12/37 16:31 09:22-09:41/19	08:44 12:05-12:28/23 09:55-10:46/51 15:40 09:29-09:47/18 11:31-11:49/18
5	04:30 22:24	05:24 06:35-07:03/28 21:33	06:29 07:11-07:47/36 20:12	07:33 08:04-08:41/37 18:48	07:43 08:35-09:12/37 16:29 09:21-09:43/22	08:46 12:05-12:29/24 09:56-10:46/50 11:08-11:13/5 15:40 09:30-09:47/17 11:30-11:50/20 11:00-11:04/4
6	04:31 22:23	05:26 06:34-07:05/31 21:30	06:32 07:12-07:49/37 20:10	07:35 08:05-08:41/36 18:46	07:45 08:35-09:12/37 09:58-10:05/7 16:27 09:20-09:44/24	08:48 12:04-12:29/25 09:57-10:47/50 10:59-11:16/17 15:39 09:32-09:47/15 11:30-11:51/21
7	04:32 22:22	05:28 06:34-07:06/32 21:28	06:34 07:12-07:51/39 20:07	07:38 08:08-08:42/34 18:43	07:48 08:34-09:12/38 09:55-10:09/14 16:24 09:19-09:45/26	08:49 12:05-12:30/25 09:57-10:47/50 10:57-11:17/20 15:38 09:33-09:46/13 11:29-11:51/22
8	04:33 22:21	05:30 06:33-07:07/34 21:26	06:36 07:14-07:52/38 20:04	07:40 08:15-08:42/27 18:40	07:50 08:35-09:13/38 09:53-10:12/19 16:22 09:19-09:47/28	08:51 12:05-12:31/26 09:58-10:47/49 10:57-11:19/22 15:37 09:35-09:46/11 11:30-11:52/22
9	04:35 22:20	05:32 06:33-07:08/35 21:23	06:38 07:16-07:53/37 20:01	07:42 08:17-08:42/25 18:37	07:52 08:35-09:12/37 09:51-10:13/22 16:20 09:18-09:47/29	08:52 12:05-12:32/27 09:59-10:48/49 10:57-11:20/23 15:37 09:37-09:46/9 11:30-11:53/23
10	04:36 22:19	05:34 06:32-07:09/37 21:21	06:40 07:21-07:53/32 19:59	07:44 08:18-08:42/24 18:35	07:54 14:52-14:59/7 09:18-09:48/30 16:18 08:36-09:12/36 09:50-10:15/25	08:54 12:05-12:32/27 09:59-10:48/49 10:56-11:21/25 15:36 09:38-09:45/7 11:30-11:54/24
11	04:38 22:18	05:36 06:32-07:11/39 21:18	06:42 07:21-07:54/33 19:56	07:46 08:20-08:42/22 18:32	07:57 14:49-15:01/12 09:17-09:48/31 16:16 08:36-09:11/35 09:49-10:16/27	08:55 12:06-12:33/27 10:01-10:49/48 10:57-11:22/25 15:36 09:40-09:45/5 11:30-11:55/25
12	04:39 22:16	05:38 06:32-07:12/40 21:16	06:44 07:21-07:54/33 19:53	07:48 08:21-08:41/20 18:29	07:59 14:48-15:03/15 08:37-09:11/34 16:14 09:17-10:17/60	08:56 12:05-12:34/29 10:01-10:49/48 10:56-11:23/27 15:36 09:41-09:44/3 11:30-11:55/25
13	04:40 22:15	05:40 06:32-07:13/41 21:13	06:46 07:56-08:02/6 19:50 07:21-07:53/32	07:51 08:22-08:40/18 18:27	08:01 14:46-15:03/17 08:39-09:11/32 16:12 09:18-10:18/60	08:57 12:05-12:34/29 11:30-11:55/25 15:35 10:02-10:49/47 10:56-11:23/27
14	04:42 22:14	05:43 06:32-07:13/41 21:11	06:48 07:22-08:05/43 19:47 08:08-08:19/11	07:53 08:24-08:39/15 18:24	08:04 14:46-15:05/19 08:41-09:09/28 16:10 09:17-10:19/62	08:59 12:06-12:35/29 11:31-11:57/26 15:35 10:03-10:50/47 10:57-11:25/28
15	04:44 22:12	05:45 06:32-07:14/42 21:08	06:51 07:24-08:21/57 19:44	07:55 08:26-08:37/11 18:21	08:06 14:45-15:05/20 08:44-09:09/25 16:08 09:18-10:20/62	09:00 12:07-12:36/29 11:31-11:57/26 15:35 10:04-10:51/47 10:57-11:25/28
16	04:45 22:11	05:47 06:32-07:14/42 21:06	06:53 07:26-08:23/57 19:42	07:57 08:28-08:34/6 18:19	08:08 14:45-15:06/21 08:46-09:08/22 16:06 09:18-10:20/62	09:01 12:07-12:36/29 11:31-11:58/27 15:35 10:05-10:51/46 10:57-11:26/29
17	04:47 22:09	05:49 06:32-07:14/42 21:03	06:55 07:30-08:25/55 19:39	08:00 18:16	08:10 14:46-15:07/21 08:50-09:08/18 16:04 09:18-10:21/63	09:02 12:07-12:37/30 11:32-11:58/26 15:35 10:05-10:52/47 10:58-11:27/29
18	04:49 22:08	05:51 06:33-07:14/41 21:01	06:57 07:30-08:25/55 19:36	08:02 18:13	08:12 14:45-15:07/22 08:51-09:06/15 16:02 09:18-10:21/63	09:02 12:08-12:37/29 11:32-11:59/27 15:35 10:06-10:52/46 10:58-11:27/29
19	04:50 22:06	05:53 06:34-07:14/40 20:58	06:59 07:31-08:25/54 19:33	08:04 18:11	08:15 14:46-15:08/22 08:54-09:06/12 16:01 09:19-10:22/63	09:03 12:08-12:37/29 11:32-11:59/27 10:06-10:24/18 15:35 10:25-10:53/28 10:59-11:28/29
20	04:52 22:05	05:55 06:34-07:14/40 20:56 07:26-07:32/6	07:01 07:33-08:26/53 19:30	08:06 18:08	08:17 14:45-15:08/23 08:56-09:04/8 15:59 09:19-10:22/63	09:04 12:08-12:38/30 11:33-12:00/27 15:36 10:07-10:53/46 10:58-11:28/30
21	04:54 22:03	05:58 06:36-07:13/37 20:53 07:22-07:35/13	07:03 07:45-08:26/41 19:28 07:37-07:40/3	08:09 18:05	08:19 14:46-15:08/22 08:59-09:03/4 15:57 09:21-10:32/71	09:05 12:09-12:39/30 11:33-12:01/28 15:36 10:08-10:53/45 10:59-11:29/30
22	04:56 22:01	06:00 06:38-07:13/35 20:50 07:19-07:37/18	07:05 07:44-08:29/45 19:25	08:11 18:03	08:21 14:46-15:08/22 15:56 09:21-10:34/73	09:05 12:09-12:39/30 11:33-12:01/28 15:37 10:08-10:53/45 10:59-11:29/30
23	04:58 21:59	06:02 06:41-07:12/31 20:48 07:17-07:39/22	07:08 07:44-08:32/48 19:22	08:13 18:00	08:23 14:46-15:08/22 15:54 09:22-10:37/75	09:06 12:10-12:40/30 11:35-12:02/27 15:37 10:09-10:55/46 11:00-11:30/30
24	04:59 21:58	06:04 07:16-07:40/24 20:45 06:43-07:11/28	07:10 07:44-08:33/49 19:19	08:15 17:58	08:25 14:48-15:08/20 15:52 09:22-10:38/76	09:06 12:10-12:40/30 11:35-12:02/27 15:38 10:09-10:55/46 11:01-11:30/29
25	05:01 21:56	06:06 07:15-07:41/26 20:42 06:45-07:10/25	07:12 07:45-08:34/49 19:16	07:18 16:55	08:27 14:48-15:08/20 09:49-10:39/50 15:51 09:22-09:48/26	09:06 12:11-12:40/29 11:35-12:02/27 15:38 10:09-10:55/46 11:01-11:30/29
26	05:03 21:54	06:08 07:14-07:41/27 20:40 06:47-07:08/21	07:14 07:46-08:35/49 19:14	07:20 16:53	08:29 14:49-15:08/19 09:50-10:40/50 15:50 09:23-09:48/25	09:07 12:11-12:41/30 11:36-12:02/26 15:39 10:09-10:55/46 11:01-11:31/30
27	05:05 21:52	06:10 07:13-07:42/29 20:37 06:48-07:07/19	07:16 07:47-08:36/49 19:11	07:22 08:52-09:04/12 16:50	08:31 14:50-15:06/16 09:50-10:41/51 15:48 09:23-09:48/25	09:07 12:12-12:41/29 11:36-12:03/27 15:40 10:10-10:56/46 11:02-11:31/29
28	05:07 21:50	06:12 07:12-07:42/30 20:34 06:50-07:04/14	07:18 07:48-08:37/49 19:08	07:24 08:50-09:07/17 16:48	08:33 14:50-15:04/14 09:24-09:47/23 15:47 12:11-12:17/6 09:50-10:42/52	09:07 12:12-12:42/30 11:37-12:03/26 15:41 10:10-10:56/46 11:03-11:31/28
29	05:09 21:48	06:15 07:11-07:42/31 20:32 06:53-07:01/8	07:20 07:50-08:39/49 19:05	07:27 08:48-09:08/20 16:45	08:35 14:51-15:02/11 09:24-09:47/23 15:46 12:08-12:20/12 09:51-10:42/51	09:07 12:13-12:42/29 11:38-12:04/26 15:42 10:10-10:57/47 11:04-11:32/28
30	05:11 21:46	06:17 07:11-07:42/31 20:29	07:22 07:52-08:40/48 19:02	07:29 08:42-09:10/28 16:43	08:37 14:52-15:00/8 09:26-09:48/22 11:36-11:41/5 15:45 12:08-12:23/15 09:52-10:44/52	09:07 12:14-12:43/29 11:38-12:04/26 15:43 10:11-10:58/47 11:05-11:32/27
31	05:13 06:45-06:49/4 21:44	06:19 07:11-07:41/30 20:26		07:31 08:39-09:10/31 16:40		09:07 12:14-12:42/28 10:10-10:58/48 11:05-11:32/27 15:44 09:50-09:52/2 11:39-12:04/25
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	4	1180	1329	540	2657	3957

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 5 - Z4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 09:54-10:13/19 10:47-11:09/22 15:46 10:22-10:45/23	08:27 16:46	07:20 07:49-08:28/39 17:52	06:54 07:55-08:18/23 20:01	05:34 21:07	04:33 05:10-05:16/6 22:09
2	09:06 09:54-10:14/20 10:48-11:08/20 15:47 10:22-10:45/23	08:25 16:48	07:17 07:48-08:26/38 17:54	06:51 07:55-08:16/21 20:03	05:31 21:10	04:32 05:09-05:17/8 22:10
3	09:06 09:54-10:14/20 10:48-11:08/20 15:48 10:22-10:45/23	08:23 16:51	07:14 07:46-08:24/38 17:57	06:48 07:56-08:14/18 20:06	05:29 21:12	04:31 05:08-05:18/10 22:12
4	09:05 09:54-10:14/20 10:49-11:08/19 15:50 10:22-10:45/23	08:21 16:53	07:12 07:46-08:23/37 17:59	06:46 07:59-08:12/13 20:08	05:27 21:14	04:30 05:07-05:19/12 22:13
5	09:05 09:55-10:16/21 10:50-11:09/19 15:51 10:24-10:47/23	08:19 08:50-08:55/5 16:56	07:09 07:45-08:12/27 18:01	06:43 20:10	05:24 21:16	04:28 05:06-05:19/13 22:14
6	09:04 09:55-10:16/21 10:51-11:09/18 15:53 10:24-10:47/23	08:16 08:48-08:58/10 16:58	07:06 07:45-08:12/27 18:03	06:40 20:12	05:22 21:18	04:27 05:05-05:19/14 22:16
7	09:04 09:55-10:17/22 10:52-11:09/17 15:54 10:25-10:47/22	08:14 08:45-08:59/14 17:00	07:03 07:44-08:12/28 18:06	06:37 20:14	05:20 21:21	04:27 05:05-05:21/16 22:17
8	09:03 09:56-10:18/22 10:52-11:08/16 15:56 10:26-10:47/21	08:12 08:43-09:01/18 17:03	07:01 07:44-08:12/28 18:08	06:34 20:17	05:17 21:23	04:26 05:04-05:21/17 22:18
9	09:02 09:55-10:17/22 10:54-11:07/13 15:58 10:26-10:46/20	08:10 08:41-09:01/20 17:05	06:58 07:44-08:13/29 18:10	06:32 20:19	05:15 21:25	04:25 05:03-05:21/18 22:19
10	09:01 09:56-10:18/22 10:56-11:07/11 15:59 10:27-10:47/20	08:07 08:40-09:03/23 17:07	06:55 07:44-08:12/28 18:12	06:29 20:21	05:13 21:27	04:24 05:03-05:22/19 22:20
11	09:00 09:56-10:19/23 10:58-11:06/8 16:01 10:28-10:47/19	08:05 08:38-09:03/25 17:10	06:52 07:44-08:12/28 18:15	06:26 20:23	05:10 21:29	04:24 05:03-05:22/19 22:21
12	08:59 09:56-10:19/23 16:03 10:28-10:46/18	08:03 08:36-09:04/28 17:12	06:50 07:44-08:11/27 18:17	06:23 20:25	05:08 21:31	04:23 05:03-05:22/19 22:22
13	08:58 09:57-10:20/23 16:05 10:30-10:46/16	08:00 08:34-09:03/29 17:15	06:47 07:44-08:10/26 18:19 07:19-07:32/13	06:21 20:28	05:06 21:33	04:22 05:04-05:23/19 22:23
14	08:57 09:57-10:19/22 16:07 10:31-10:45/14	07:58 08:32-09:03/31 17:17	06:44 07:45-08:09/24 18:21 07:17-07:35/18	06:18 20:30	05:04 21:35	04:22 05:03-05:23/20 22:24
15	08:56 09:58-10:20/22 16:09 10:33-10:45/12	07:56 08:32-09:03/31 17:19	06:41 07:46-08:08/22 18:24 07:15-07:36/21	06:15 20:32	05:02 21:38	04:22 05:03-05:23/20 22:25
16	08:54 09:58-10:20/22 16:11 10:34-10:43/9	07:53 08:31-09:02/31 17:22	06:39 07:47-08:06/19 18:26 07:13-07:37/24	06:13 20:34	05:00 21:40	04:21 05:04-05:24/20 22:25
17	08:53 10:00-10:21/21 16:13 10:37-10:40/3	07:51 08:31-09:02/31 17:24	06:36 07:49-08:03/14 18:28 07:11-07:37/26	06:10 20:36	04:58 21:42	04:21 05:04-05:24/20 22:26
18	08:52 10:00-10:20/20 16:15	07:48 08:18-08:21/3 17:26 08:30-09:00/30	06:33 07:06-07:37/31 18:30 07:52-07:58/6	06:07 20:39	04:56 21:44	04:21 05:04-05:24/20 22:26
19	08:50 10:01-10:20/19 16:17	07:46 08:14-08:25/11 17:29 08:29-08:59/30	06:30 07:02-07:37/35 18:33	06:05 20:41	04:54 21:46	04:21 05:04-05:24/20 22:27
20	08:49 10:02-10:19/17 16:19	07:43 08:12-08:27/15 17:31 08:30-08:59/29	06:27 07:01-07:38/37 18:35	06:02 20:43	04:52 21:48	04:21 05:04-05:24/20 22:27
21	08:47 10:03-10:19/16 16:21	07:41 08:10-08:28/18 17:33 08:30-08:57/27	06:25 06:59-07:38/39 18:37	05:59 20:45	04:50 21:50	04:21 05:04-05:25/21 22:27
22	08:46 10:04-10:18/14 16:23	07:38 08:09-08:29/20 17:36 08:30-08:55/25	06:22 06:57-07:37/40 18:39	05:57 20:48	04:48 21:51	04:21 05:05-05:25/20 22:28
23	08:44 10:05-10:17/12 16:26	07:35 08:09-08:53/44 17:38	06:19 06:56-07:36/40 18:41	05:54 20:50	04:47 21:53	04:22 05:05-05:25/20 22:28
24	08:42 10:08-10:15/7 16:28	07:33 08:08-08:30/22 17:40 08:31-08:53/22	06:16 06:55-07:35/40 18:44	05:52 20:52	04:45 21:55	04:22 05:05-05:25/20 22:28
25	08:41 16:30	07:30 08:08-08:30/22 07:59-08:06/7 17:43 08:32-08:52/20	06:13 06:54-07:34/40 18:46	05:49 20:54	04:43 21:57	04:22 05:06-05:26/20 22:28
26	08:39 16:32	07:28 07:55-08:30/35 17:45 08:33-08:50/17	06:11 06:54-07:34/40 18:48	05:46 20:56	04:42 21:59	04:23 05:06-05:26/20 22:28
27	08:37 16:35	07:25 07:54-08:30/36 17:47 08:36-08:48/12	06:08 06:54-07:33/39 18:50	05:44 20:59	04:40 22:01	04:23 05:06-05:26/20 22:28
28	08:35 16:37	07:22 07:52-08:29/37 17:50 08:40-08:43/3	06:05 06:53-07:31/38 18:52	05:41 21:01	04:39 22:02	04:24 05:06-05:26/20 22:27
29	08:33 16:39		07:02 07:53-08:29/36 19:55	05:39 21:03	04:37 22:04	04:25 05:07-05:26/19 22:27
30	08:31 16:41		06:59 07:54-08:28/34 19:57	05:36 21:05	04:36 22:06	04:25 05:07-05:27/20 22:27
31	08:29 16:44		06:57 07:54-08:24/30 19:59		04:34 05:11-05:14/3 22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	965	781	1106	75	3	530

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 5 - Z4

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 05:07-05:26/19	05:15	06:21	07:25 08:23-08:50/27	07:34 08:10-08:32/22	08:39 09:39-10:01/22 10:40-10:48/8
	22:26	21:41	20:23	19:00 08:01-08:09/8	16:38	15:43 10:10-10:29/19
2	04:27 05:07-05:26/19	05:17	06:23	07:27 08:22-08:50/28	07:36 08:11-08:31/20	08:41 09:39-10:01/22 10:39-10:50/11
	22:26	21:39	20:21	18:57	16:36	15:42 10:10-10:30/20
3	04:28 05:08-05:26/18	05:19	06:25	07:29 08:22-08:50/28	07:38 08:13-08:31/18	08:43 09:39-10:02/23 10:38-10:51/13
	22:25	21:37	20:18	18:54	16:33	15:41 10:10-10:31/21
4	04:29 05:09-05:26/17	05:21	06:27	07:31 08:21-08:50/29	07:41 08:15-08:29/14	08:44 09:40-10:02/22 10:38-10:53/15
	22:24	21:35	20:15	18:51	16:31	15:40 10:10-10:31/21
5	04:30 05:10-05:26/16	05:24	06:30	07:33 08:21-08:49/28	07:43 08:18-08:28/10	08:46 09:40-10:02/22 10:37-10:54/17
	22:24	21:32	20:12	18:48	16:29	15:40 10:10-10:32/22
6	04:31 05:11-05:26/15	05:26	06:32	07:35 08:20-08:49/29	07:45 08:21-08:25/4	08:48 09:41-10:03/22 10:37-10:55/18
	22:23	21:30	20:10	18:46	16:27	15:39 10:11-10:33/22
7	04:32 05:12-05:26/14	05:28	06:34	07:38 08:21-08:49/28	07:47	08:49 09:41-10:02/21 10:36-10:55/19
	22:22	21:28	20:07	18:43	16:24	15:38 10:10-10:33/23
8	04:34 05:13-05:25/12	05:30	06:36 07:54-08:06/12	07:40 08:20-08:48/28	07:50	08:51 09:42-10:03/21 10:37-10:56/19
	22:21	21:26	20:04	18:40	16:22	15:38 10:11-10:34/23
9	04:35 05:14-05:25/11	05:32	06:38 07:51-08:08/17	07:42 08:20-08:47/27	07:52	08:52 09:43-10:03/20 10:37-10:57/20
	22:20	21:23	20:01	18:37 08:50-08:54/4	16:20	15:37 10:11-10:34/23
10	04:36 05:16-05:25/9	05:34	06:40 07:49-08:09/20	07:44 08:20-08:58/38	07:54	08:54 09:43-10:03/20 10:37-10:58/21
	22:19	21:21	19:58	18:35	16:18	15:36 10:11-10:34/23
11	04:38 05:17-05:24/7	05:36	06:42 07:47-08:10/23	07:46 08:21-09:00/39	07:57	08:55 09:44-10:04/20 10:37-10:59/22
	22:18	21:18	19:56	18:32	16:16	15:36 10:12-10:35/23
12	04:39 05:18-05:22/4	05:38	06:44 07:46-08:15/29	07:48 08:22-09:01/39	07:59	08:56 09:44-10:03/19 10:37-10:59/22
	22:16	21:16	19:53	18:29	16:14	15:36 10:12-10:35/23
13	04:41 05:20-05:21/1	05:40	06:46 07:44-08:18/34	07:51 08:23-09:01/38	08:01	08:57 09:45-10:03/18 10:37-10:59/22
	22:15	21:13	19:50	18:27	16:12	15:35 10:12-10:36/24
14	04:42	05:43	06:49 07:43-08:19/36	07:53 08:26-09:02/36	08:03	08:59 09:46-10:04/18 10:38-11:01/23
	22:14	21:11	19:47	18:24 09:10-09:19/9	16:10	15:35 10:13-10:37/24
15	04:44	05:45	06:51 07:43-08:20/37	07:55 08:27-09:02/35	08:06	09:00 09:46-10:04/18 10:38-11:01/23
	22:12	21:08	19:44	18:21 09:07-09:21/14	16:08	15:35 10:13-10:37/24
16	04:45	05:47	06:53 07:42-08:21/39	07:57 08:28-09:02/34	08:08	09:01 09:47-10:05/18 10:39-11:02/23
	22:11	21:06	19:42	18:19 09:04-09:22/18	16:06	15:35 10:14-10:38/24
17	04:47	05:49	06:55 07:43-08:23/40	08:00 08:40-09:02/22 08:33-08:37/4	08:10	09:02 09:48-10:05/17 10:39-11:02/23
	22:09	21:03	19:39	18:16 09:04-09:24/20	16:04	15:35 10:14-10:38/24
18	04:49	05:51	06:57 07:42-08:23/41	08:02 08:39-09:01/22	08:12 09:42-09:49/7	09:02 09:48-10:06/18 10:40-11:03/23
	22:08	21:01	19:36	18:13 09:02-09:25/23	16:02	15:35 10:15-10:39/24
19	04:50	05:53	06:59 07:42-08:23/41	08:04 08:39-09:00/21	08:15 09:40-09:52/12	09:03 09:48-10:05/17 10:39-11:03/24
	22:06	20:58	19:33	18:11 09:01-09:25/24	16:01	15:36 10:14-10:38/24
20	04:52	05:55	07:01 07:42-08:23/41	08:06 08:41-09:00/19	08:17 09:39-09:53/14	09:04 09:49-10:06/17 10:40-11:03/23
	22:05	20:56	19:30	18:08 09:01-09:27/26	15:59	15:36 10:15-10:39/24
21	04:54	05:58	07:03 07:43-08:23/40	08:09 08:41-08:58/17	08:19 09:39-09:55/16	09:05 09:50-10:07/17 10:41-11:04/23
	22:03	20:53	19:28	18:05 09:00-09:28/28	15:57	15:36 10:16-10:40/24
22	04:56	06:00	07:05 07:43-08:22/39	08:11 08:43-08:57/14	08:21 09:38-09:55/17	09:05 09:50-10:07/17 10:41-11:04/23
	22:01	20:50	19:25	18:03 09:00-09:30/30	15:56	15:37 10:16-10:40/24
23	04:58	06:02	07:08 07:44-08:22/38	08:13 08:45-08:54/9	08:23 09:38-09:57/19	09:06 09:51-10:08/17 10:42-11:05/23
	21:59	20:48	19:22	18:00 09:00-09:30/30	15:54	15:37 10:17-10:41/24
24	04:59	06:04	07:10 07:45-08:21/36	08:15 09:00-09:31/31	08:25 09:37-09:57/20	09:06 09:51-10:08/17 10:42-11:05/23
	21:58	20:45	19:19	17:58	15:52	15:38 10:17-10:41/24
25	05:01	06:06	07:12 07:47-08:20/33	07:18 08:00-08:31/31	08:27 09:37-09:58/21	09:06 09:51-10:08/17
	21:56	20:42	19:16	16:55	15:51 10:16-10:18/2	15:38 10:18-11:06/48
26	05:03	06:08	07:14 08:31-08:44/13	07:20 08:01-08:32/31	08:29 09:37-09:59/22	09:07 09:52-10:09/17 10:43-11:06/23
	21:54	20:40	19:14 07:52-08:19/27	16:53	15:50 10:13-10:22/9	15:39 10:18-10:42/24
27	05:05	06:10	07:16 08:29-08:47/18	07:22 08:01-08:32/31	08:31 09:37-09:59/22	09:07 09:52-10:09/17 10:43-11:06/23
	21:52	20:37	19:11 07:54-08:19/25	16:50	15:48 10:12-10:24/12	15:40 10:18-10:42/24
28	05:07	06:13	07:18 08:27-08:48/21	07:24 08:03-08:33/30	08:33 09:37-09:59/22	09:07 09:52-10:10/18 10:44-11:07/23
	21:50	20:34	19:08 07:55-08:17/22	16:48	15:47 10:11-10:25/14	15:41 10:19-10:43/24
29	05:09	06:15	07:20 08:25-08:49/24	07:27 08:03-08:33/30	08:35 09:37-10:00/23	09:07 09:53-10:11/18 10:45-11:07/22
	21:48	20:32	19:05 07:56-08:15/19	16:45	15:46 10:10-10:26/16	15:42 10:20-10:44/24
30	05:11	06:17	07:22 08:24-08:49/25	07:29 08:06-08:33/27	08:37 09:38-10:01/23	09:07 09:53-10:12/19 10:46-11:08/22
	21:46	20:29	19:02 07:58-08:13/15	16:43	15:45 10:10-10:28/18	15:43 10:21-10:44/23
31	05:13	06:19		07:31 08:08-08:32/24		09:07 09:53-10:12/19 10:46-11:08/22
	21:44	20:26		16:41		15:44 10:20-10:44/24
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	162	0	805	1108	397	1946

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 6 - Z5

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June	July	August	September	October	November	December
1	09:06	08:27	07:20	06:54	05:34	04:33	04:26	05:15	06:21	07:25	07:34	08:39
	15:46	16:46	17:52	20:01	21:07	22:09	22:26	21:41	20:23	18:59	16:38	15:43
2	09:06	08:25	07:17	06:51	05:31	04:32	04:27	05:17	06:23	07:27	07:36	08:41
	15:47	16:48	17:54	20:03	21:10	22:10	22:25	21:39	20:21	18:57	16:36	15:42
3	09:06	08:23	07:14	06:48	05:29	04:31	04:28	05:19	06:25	07:29	07:38	08:43
	15:48	16:51	17:57	20:06	21:12	22:12	22:25	21:37	20:18	18:54	16:33	15:41
4	09:05	08:21	07:11	06:45	05:27	04:29	04:29	05:21	06:27	07:31	07:41	08:44
	15:50	16:53	17:59	20:08	21:14	22:13	22:24	21:35	20:15	18:51	16:31	15:40
5	09:05	08:19	07:09	06:43	05:24	04:28	04:30	05:23	06:29	07:33	07:43	08:46
	15:51	16:56	18:01	20:10	21:16	22:14	22:23	21:32	20:12	18:48	16:29	15:40
6	09:04	08:16	07:06	06:40	05:22	04:27	04:31	05:26	06:32	07:35	07:45	08:48
	15:53	16:58	18:03	20:12	21:18	22:16	22:23	21:30	20:10	18:46	16:27	15:39
7	09:03	08:14	07:03	06:37	05:19	04:27	04:32	05:28	06:34	07:37	07:47	08:49
	15:54	17:00	18:06	20:14	21:21	22:17	22:22	21:28	20:07	18:43	16:24	15:38
8	09:03	08:12	07:01	06:34	05:17	04:26	04:34	05:30	06:36	07:40	07:50	08:51
	15:56	17:03	18:08	20:17	21:23	22:18	22:21	21:25	20:04	18:40	16:22	15:37
9	09:02	08:10	06:58	06:32	05:15	04:25	04:35	05:32	06:38	07:42	07:52	08:52
	15:58	17:05	18:10	20:19	21:25	22:19	22:20	21:23	20:01	18:37	16:20	15:37
10	09:01	08:07	06:55	06:29	05:13	04:24	04:36	05:34	06:40	07:44	07:54	08:53
	15:59	17:07	18:12	20:21	21:27	22:20	22:19	21:21	19:58	18:35	16:18	15:36
11	09:00	08:05	06:52	06:26	05:10	04:24	04:38	05:36	06:42	07:46	07:57	08:55
	16:01	17:10	18:15	20:23	21:29	22:21	22:18	21:18	19:56	18:32	16:16	15:36
12	08:59	08:03	06:50	06:23	05:08	04:23	04:39	05:38	06:44	07:48	07:59	08:56
	16:03	17:12	18:17	20:25	21:31	22:22	22:16	21:16	19:53	18:29	16:14	15:36
13	08:58	08:00	06:47	06:21	05:06	04:22	04:40	05:40	06:46	07:51	08:01	08:57
	16:05	17:15	18:19	20:28	21:33	22:23	22:15	21:13	19:50	18:27	16:12	15:35
14	08:57	07:58	06:44	06:18	05:04	04:22	04:42	05:43	06:48	07:53	08:03	08:58
	16:07	17:17	18:21	20:30	21:35	22:24	22:14	21:11	19:47	18:24	16:10	15:35
15	08:56	07:55	06:41	06:15	05:02	04:22	04:44	05:45	06:51	07:55	08:06	09:00
	16:09	17:19	18:24	20:32	21:37	22:25	22:12	21:08	19:44	18:21	16:08	15:35
16	08:54	07:53	06:39	06:13	05:00	04:21	04:45	05:47	06:53	07:57	08:08	09:01
	16:11	17:22	18:26	20:34	21:40	22:25	22:11	21:06	19:42	18:18	16:06	15:35
17	08:53	07:51	06:36	06:10	04:58	04:21	04:47	05:49	06:55	07:59	08:10	09:01
	16:13	17:24	18:28	20:36	21:42	22:26	22:09	21:03	19:39	18:16	16:04	15:35
18	08:52	07:48	06:33	06:07	04:56	04:21	04:49	05:51	06:57	08:02	08:12	09:02
	16:15	17:26	18:30	20:39	21:44	22:26	22:08	21:01	19:36	18:13	16:02	15:35
19	08:50	07:46	06:30	06:05	04:54	04:21	04:50	05:53	06:59	08:04	08:15	09:03
	16:17	17:29	18:33	20:41	21:46	22:27	22:06	20:58	19:33	18:11	16:01	15:35
20	08:49	07:43	06:27	06:02	04:52	04:21	04:52	05:55	07:01	08:06	08:17	09:04
	16:19	17:31	18:35	20:43	21:48	22:27	22:05	20:56	19:30	18:08	15:59	15:36
21	08:47	07:40	06:25	05:59	04:50	04:21	04:54	05:57	07:03	08:08	08:19	09:04
	16:21	17:33	18:37	20:45	21:49	22:27	22:03	20:53	19:28	18:05	15:57	15:36
22	08:46	07:38	06:22	05:57	04:48	04:21	04:56	06:00	07:05	08:11	08:21	09:05
	16:23	17:36	18:39	20:47	21:51	22:28	22:01	20:50	19:25	18:03	15:56	15:37
23	08:44	07:35	06:19	05:54	04:47	04:22	04:58	06:02	07:07	08:13	08:23	09:06
	16:25	17:38	18:41	20:50	21:53	22:28	21:59	20:48	19:22	18:00	15:54	15:37
24	08:42	07:33	06:16	05:51	04:45	04:22	04:59	06:04	07:10	08:15	08:25	09:06
	16:28	17:40	18:44	20:52	21:55	22:28	21:57	20:45	19:19	17:58	15:52	15:38
25	08:40	07:30	06:13	05:49	04:43	04:22	05:01	06:06	07:12	07:18	08:27	09:06
	16:30	17:43	18:46	20:54	21:57	22:28	21:56	20:42	19:16	16:55	15:51	15:38
26	08:39	07:27	06:11	05:46	04:42	04:23	05:03	06:08	07:14	07:20	08:29	09:07
	16:32	17:45	18:48	20:56	21:59	22:28	21:54	20:40	19:13	16:53	15:50	15:39
27	08:37	07:25	06:08	05:44	04:40	04:23	05:05	06:10	07:16	07:22	08:31	09:07
	16:34	17:47	18:50	20:59	22:00	22:27	21:52	20:37	19:11	16:50	15:48	15:40
28	08:35	07:22	06:05	05:41	04:39	04:24	05:07	06:12	07:18	07:24	08:33	09:07
	16:37	17:50	18:52	21:01	22:02	22:27	21:50	20:34	19:08	16:48	15:47	15:41
29	08:33		07:02	05:39	04:37	04:24	05:09	06:15	07:20	07:27	08:35	09:07
	16:39		19:55	21:03	22:04	22:27	21:48	20:32	19:05	16:45	15:46	15:42
30	08:31		06:59	05:36	04:36	04:25	05:11	06:17	07:22	07:29	08:37	09:07
	16:41		19:57	21:05	22:06	22:26	21:46	20:29	19:02	16:43	15:45	15:43
31	08:29		06:57		04:34		05:13	06:19		07:31		09:07
	16:44		19:59		22:07		21:43	20:26		16:40		15:44
Potential sun hours	227	262	365	429	515	539	538	474	386	321	241	207
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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 7 - Z6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 13:20-13:29/9 09:59-10:41/42	08:27 09:05-09:25/20	07:20	06:54	05:34	04:33
	15:46 13:35-13:43/8	16:46	17:52	20:01	21:07	22:09
2	09:06 13:22-13:29/7 09:59-10:42/43	08:25 09:04-09:25/21	07:17	06:51	05:31	04:32
	15:47 13:37-13:43/6	16:48	17:54	20:03	21:10	22:10
3	09:06 09:59-10:42/43	08:23 09:04-09:26/22	07:14	06:48	05:29	04:31
	15:48	16:51	17:57	20:06	21:12	22:12
4	09:05 09:59-10:42/43	08:21 09:05-09:27/22	07:11	06:45	05:26	04:29
	15:50	16:53	17:59	20:08	21:14	22:13
5	09:05 10:00-10:43/43	08:19 09:04-09:26/22	07:09	06:43	05:24	04:28
	15:51	16:55	18:01	20:10	21:16	22:14
6	09:04 10:00-10:43/43	08:16 09:05-09:26/21	07:06	06:40	05:22	04:27
	15:53	16:58	18:03	20:12	21:18	22:16
7	09:03 10:01-10:44/43	08:14 09:05-09:26/21	07:03	06:37	05:19	04:26
	15:54	17:00	18:06	20:14	21:21	22:17
8	09:03 10:01-10:43/42	08:12 09:06-09:26/20	07:01	06:34	05:17	04:26
	15:56	17:03	18:08	20:17	21:23	22:18
9	09:02 10:01-10:44/43	08:10 09:06-09:24/18	06:58	06:32	05:15	04:25
	15:57	17:05	18:10	20:19	21:25	22:19
10	09:01 10:01-10:44/43	08:07 09:08-09:24/16	06:55	06:29	05:13	04:24
	15:59	17:07	18:12	20:21	21:27	22:20
11	09:00 10:02-10:45/43	08:05 09:09-09:22/13	06:52	06:26	05:10	04:23
	16:01	17:10	18:15	20:23	21:29	22:21
12	08:59 10:02-10:44/42	08:03 09:12-09:20/8	06:50	06:23	05:08	04:23
	16:03	17:12	18:17	20:25	21:31	22:22
13	08:58 10:03-10:44/41	08:00	06:47	06:21	05:06	04:22
	16:05	17:15	18:19	20:28	21:33	22:23
14	08:57 10:03-10:44/41	07:58	06:44	06:18	05:04	04:22
	16:07	17:17	18:21	20:30	21:35	22:24
15	08:56 10:04-10:44/40	07:55	06:41	06:15	05:02	04:22
	16:09	17:19	18:24	20:32	21:38	22:25
16	08:54 10:26-10:43/17	07:53	06:39	06:13	05:00	04:21
	16:11 10:05-10:25/20	17:22	18:26	20:34	21:40	22:25
17	08:53 10:27-10:43/16	07:51	06:36	06:10	04:58	04:21
	16:13 10:05-10:24/19	17:24	18:28	20:36	21:42	22:26
18	08:52 10:29-10:42/13	07:48	06:33	06:07	04:56	04:21
	16:15 10:07-10:25/18	17:26	18:30	20:39	21:44	22:26
19	08:50 10:30-10:41/11	07:46	06:30	06:05	04:54	04:21
	16:17 10:08-10:24/16	17:29	18:33	20:41	21:46	22:27
20	08:49 10:33-10:38/5	07:43	06:27	06:02	04:52	04:21
	16:19 10:09-10:24/15	17:31	18:35	20:43	21:48	22:27
21	08:47 10:10-10:22/12	07:40	06:25	05:59	04:50	04:21
	16:21	17:33	18:37	20:45	21:49	22:27
22	08:46 10:12-10:21/9	07:38	06:22	05:57	04:48	04:21
	16:23	17:36	18:39	20:48	21:51	22:28
23	08:44	07:35	06:19	05:54	04:47	04:21
	16:25	17:38	18:41	20:50	21:53	22:28
24	08:42	07:33	06:16	05:51	04:45	04:22
	16:28	17:40	18:44	20:52	21:55	22:28
25	08:40	07:30	06:13	05:49	04:43	04:22
	16:30	17:43	18:46	20:54	21:57	22:28
26	08:39 09:13-09:16/3	07:27	06:11	05:46	04:42	04:23
	16:32	17:45	18:48	20:56	21:59	22:28
27	08:37 09:11-09:19/8	07:25	06:08	05:44	04:40	04:23
	16:34	17:47	18:50	20:59	22:01	22:28
28	08:35 09:09-09:21/12	07:22	06:05	05:41	04:38	04:24
	16:37	17:50	18:52	21:01	22:02	22:27
29	08:33 09:06-09:22/16		07:02	05:39	04:37	04:24
	16:39		19:55	21:03	22:04	22:27
30	08:31 09:05-09:23/18		06:59	05:36	04:36	04:25
	16:41		19:57	21:05	22:06	22:27
31	08:29 09:05-09:24/19		06:57		04:34	
	16:44		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	912	224	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 7 - Z6

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:25	07:34 08:37-08:54/17	08:39 09:44-10:27/43
	22:26	21:41	20:23	18:59	16:38	15:43
2	04:27	05:17	06:23	07:27	07:36 08:36-08:54/18	08:41 09:45-10:27/42
	22:26	21:39	20:21	18:57	16:36	15:42
3	04:28	05:19	06:25	07:29	07:38 08:35-08:55/20	08:43 09:45-10:28/43
	22:25	21:37	20:18	18:54	16:33	15:41
4	04:29	05:21	06:27	07:31	07:41 08:34-08:55/21	08:44 09:45-10:28/43
	22:24	21:35	20:15	18:51	16:31	15:40
5	04:30	05:23	06:29	07:33	07:43 08:35-08:56/21	08:46 09:46-10:29/43
	22:23	21:32	20:12	18:48	16:29	15:40
6	04:31	05:26	06:32	07:35	07:45 08:34-08:56/22	08:48 09:46-10:29/43
	22:23	21:30	20:10	18:46	16:27	15:39
7	04:32	05:28	06:34	07:37	07:47 08:34-08:56/22	08:49 09:46-10:29/43
	22:22	21:28	20:07	18:43	16:24	15:38
8	04:33	05:30	06:36	07:40	07:50 08:35-08:57/22	08:51 09:47-10:30/43
	22:21	21:25	20:04	18:40	16:22	15:37
9	04:35	05:32	06:38	07:42	07:52 08:35-08:56/21	08:52 09:48-10:31/43
	22:20	21:23	20:01	18:37	16:20	15:37
10	04:36	05:34	06:40	07:44	07:54 08:36-08:56/20	08:54 13:11-13:18/7 09:48-10:31/43
	22:19	21:21	19:58	18:35	16:18	15:36 13:27-13:32/5
11	04:37	05:36	06:42	07:46	07:57 08:36-08:55/19	08:55 13:11-13:20/9 09:49-10:32/43
	22:18	21:18	19:56	18:32	16:16	15:36 13:26-13:34/8
12	04:39	05:38	06:44	07:48	07:59 08:37-08:55/18	08:56 13:10-13:21/11 09:49-10:32/43
	22:16	21:16	19:53	18:29	16:14	15:36 13:25-13:35/10
13	04:40	05:40	06:46	07:51	08:01 08:38-08:54/16	08:57 13:10-13:21/11 09:49-10:32/43
	22:15	21:13	19:50	18:27	16:12	15:35 13:25-13:36/11
14	04:42	05:43	06:48	07:53	08:03 08:41-08:53/12	08:58 13:10-13:23/13 09:51-10:33/42
	22:14	21:11	19:47	18:24	16:10	15:35 13:25-13:38/13
15	04:44	05:45	06:51	07:55	08:06 08:44-08:52/8	09:00 13:10-13:24/14 09:51-10:33/42
	22:12	21:08	19:44	18:21	16:08	15:35 13:25-13:38/13
16	04:45	05:47	06:53	07:57	08:08 08:46-08:49/3	09:01 13:10-13:39/29
	22:11	21:06	19:42	18:18	16:06	15:35 09:52-10:34/42
17	04:47	05:49	06:55	07:59	08:10	09:02 13:11-13:25/14 09:52-10:34/42
	22:09	21:03	19:39	18:16	16:04	15:35 13:26-13:40/14
18	04:49	05:51	06:57	08:02	08:12	09:02 13:11-13:41/30
	22:08	21:01	19:36	18:13	16:02	15:35 09:53-10:35/42
19	04:50	05:53	06:59	08:04	08:15	09:03 13:10-13:40/30
	22:06	20:58	19:33	18:11	16:01	15:35 09:53-10:34/41
20	04:52	05:55	07:01	08:06	08:17 09:47-09:56/9	09:04 13:11-13:41/30
	22:05	20:56	19:30	18:08	15:59	15:36 09:53-10:35/42
21	04:54	05:57	07:03	08:08	08:19 09:46-09:58/12	09:05 13:12-13:42/30
	22:03	20:53	19:28	18:05	15:57	15:36 09:54-10:36/42
22	04:56	06:00	07:05	08:11	08:21 10:10-10:14/4	09:05 13:12-13:42/30
	22:01	20:50	19:25	18:03	15:56 09:45-10:00/15	15:37 09:54-10:36/42
23	04:57	06:02	07:07	08:13	08:23 10:07-10:17/10	09:06 13:13-13:43/30
	21:59	20:48	19:22	18:00	15:54 09:45-10:01/16	15:37 09:55-10:37/42
24	04:59	06:04	07:10	08:15	08:25 10:06-10:19/13	09:06 13:13-13:43/30
	21:57	20:45	19:19	17:58	15:52 09:44-10:02/18	15:38 09:56-10:37/41
25	05:01	06:06	07:12	07:18	08:27 10:05-10:21/16	09:06 13:14-13:44/30
	21:56	20:42	19:16	16:55	15:51 09:43-10:03/20	15:38 09:56-10:37/41
26	05:03	06:08	07:14	07:20	08:29 10:05-10:22/17	09:07 13:14-13:44/30
	21:54	20:40	19:13	16:53	15:50 09:44-10:04/20	15:39 09:56-10:38/42
27	05:05	06:10	07:16	07:22	08:31 09:44-10:23/39	09:07 13:15-13:29/14 09:56-10:38/42
	21:52	20:37	19:11	16:50	15:48	15:40 13:30-13:44/14
28	05:07	06:12	07:18	07:24	08:33 09:43-10:24/41	09:07 13:16-13:30/14 09:57-10:39/42
	21:50	20:34	19:08	16:48	15:47	15:41 13:31-13:44/13
29	05:09	06:15	07:20	07:27	08:35 09:43-10:25/42	09:07 13:17-13:30/13 09:57-10:40/43
	21:48	20:32	19:05	16:45	15:46	15:42 13:32-13:45/13
30	05:11	06:17	07:22	07:29 08:41-08:50/9	08:37 09:44-10:26/42	09:07 13:17-13:29/12 09:58-10:40/42
	21:46	20:29	19:02	16:43	15:44	15:43 13:32-13:44/12
31	05:13	06:19		07:31 08:38-08:52/14		09:07 13:19-13:30/11 09:58-10:40/42
	21:43	20:26		16:40		15:44 13:34-13:44/10
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	0	23	614	1890

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 8 - Z9

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 15:46	08:27 16:46	07:19 17:52	06:54 18:52-19:32/40 20:01 17:48-18:38/50	05:34 06:04-06:26/22 18:44-19:16/32 21:07 19:46-20:19/33	04:33 21:27-21:28/1 22:08
2	09:06 15:47	08:25 16:48	07:17 17:54	06:51 18:49-19:34/45 20:03 17:48-18:37/49	05:31 06:05-06:26/21 18:45-19:14/29 21:09 19:46-20:18/32	04:32 21:25-21:29/4 22:10
3	09:06 15:48	08:23 16:51	07:14 17:56	06:48 18:47-19:36/49 20:05 17:48-18:35/47	05:29 06:04-06:25/21 18:48-19:12/24 21:12 19:46-20:18/32	04:31 21:23-21:30/7 22:11
4	09:05 15:50	08:21 16:53	07:11 17:59	06:45 18:45-19:38/53 20:08 17:49-18:34/45	05:26 06:04-06:25/21 18:51-19:09/18 21:14 19:47-20:17/30	04:29 21:23-21:32/9 22:13
5	09:05 15:51	08:18 16:55	07:09 18:01	06:43 18:44-19:40/56 20:10 17:50-18:33/43	05:24 06:05-06:25/20 18:55-19:05/10 21:16 19:47-20:17/30	04:28 21:22-21:33/11 22:14
6	09:04 15:53	08:16 16:58	07:06 18:03	06:40 18:42-19:40/58 20:12 17:51-18:32/41	05:22 06:05-06:24/19 21:18 19:48-20:16/28	04:27 05:05-05:11/6 22:15 21:22-21:34/12
7	09:03 15:54	08:14 17:00	07:03 18:06	06:37 18:41-19:39/58 20:14 17:52-18:30/38	05:19 06:06-06:23/17 21:20 19:48-20:15/27	04:26 05:04-05:12/8 22:17 21:21-21:35/14
8	09:03 15:56	08:12 17:03	07:00 18:08	06:34 18:40-19:38/58 20:16 17:54-18:27/33	05:17 06:07-06:22/15 21:23 19:49-20:14/25	04:26 05:04-05:14/10 22:18 21:21-21:36/15
9	09:02 15:57	08:10 17:05	06:58 17:11-17:26/15 18:10	06:32 18:39-19:38/59 20:19 17:56-18:26/30	05:15 06:08-06:21/13 21:25 19:50-20:13/23	04:25 05:03-05:15/12 22:19 21:20-21:37/17
10	09:01 15:59	08:07 17:07	06:55 17:06-17:30/24 18:12	06:29 18:38-19:37/59 20:21 17:58-18:23/25	05:13 06:10-06:19/9 21:27 19:51-20:11/20	04:24 05:03-05:16/13 22:20 21:21-21:38/17
11	09:00 16:01	08:05 17:10	06:52 17:04-17:33/29 18:15	06:26 18:37-19:35/58 20:23 18:01-18:19/18	05:10 06:13-06:16/3 21:29 19:53-20:10/17	04:23 05:02-05:17/15 22:21 21:20-21:38/18
12	08:59 16:03	08:03 17:12	06:50 17:01-17:35/34 18:17	06:23 18:37-19:35/58 20:25	05:08 19:55-20:08/13 21:31	04:23 05:02-05:18/16 22:22 21:20-21:40/20
13	08:58 16:05	08:00 17:14	06:47 16:59-17:37/38 18:19	06:21 18:36-19:32/56 20:27	05:06 19:58-20:04/6 21:33	04:22 05:02-05:19/17 22:23 21:20-21:40/20
14	08:57 16:07	07:58 17:17	06:44 16:57-17:38/41 18:21	06:18 18:35-19:29/54 20:30	05:04 21:35	04:22 05:01-05:18/17 22:24 21:20-21:41/21
15	08:55 16:09	07:55 17:19	06:41 16:55-17:39/44 18:24	06:15 18:36-19:29/53 20:32	05:02 21:37	04:22 05:01-05:19/18 22:24 21:20-21:42/22
16	08:54 16:11	07:53 17:22	06:38 16:55-17:40/45 18:26	06:12 18:35-19:28/53 20:34	05:00 21:39	04:21 05:01-05:20/19 22:25 21:20-21:42/22
17	08:53 16:13	07:50 17:24	06:36 16:53-17:41/48 18:28	06:10 18:36-19:28/52 20:36	04:58 21:41	04:21 05:01-05:20/19 22:26 21:20-21:43/23
18	08:51 16:15	07:48 17:26	06:33 16:52-17:41/49 18:30	06:07 19:59-20:07/8 20:39 18:35-19:28/53	04:56 21:43	04:21 05:01-05:20/19 22:26 21:21-21:43/22
19	08:50 16:17	07:45 17:29	06:30 16:51-17:41/50 18:32	06:04 19:56-20:10/14 20:41 18:36-19:28/52	04:54 21:45	04:21 05:01-05:21/20 22:27 21:21-21:44/23
20	08:49 16:19	07:43 17:31	06:27 16:50-17:41/51 18:35	06:02 19:54-20:11/17 20:43 18:35-19:27/52	04:52 21:47	04:21 05:01-05:21/20 22:27 21:21-21:44/23
21	08:47 16:21	07:40 17:33	06:24 16:49-17:41/52 18:37	05:59 19:53-20:14/21 20:45 18:36-19:27/51	04:50 21:49	04:21 05:01-05:21/20 22:27 21:21-21:44/23
22	08:45 16:23	07:38 17:36	06:22 16:49-17:42/53 18:39	05:57 19:51-20:15/24 20:47 18:36-19:26/50	04:48 21:51	04:21 05:01-05:21/20 22:27 21:21-21:44/23
23	08:44 16:25	07:35 17:38	06:19 16:48-17:42/54 18:41	05:54 19:50-20:18/28 20:50 18:37-19:25/48	04:47 21:53	04:21 05:02-05:22/20 22:28 21:22-21:45/23
24	08:42 16:28	07:33 17:40	06:16 16:48-17:42/54 18:43	05:51 19:49-20:18/29 20:52 18:37-19:24/47	04:45 21:55	04:22 05:02-05:22/20 22:28 21:22-21:44/22
25	08:40 16:30	07:30 17:43	06:13 16:47-17:41/54 18:46	05:49 06:17-06:22/5 18:38-19:23/45 20:54 19:48-20:19/31	04:43 21:57	04:22 05:03-05:22/19 22:28 21:22-21:44/22
26	08:39 16:32	07:27 17:45	06:10 16:47-17:41/54 18:48	05:46 06:15-06:24/9 18:38-19:22/44 20:56 19:47-20:19/32	04:42 21:59	04:23 05:03-05:22/19 22:27 21:22-21:44/22
27	08:37 16:34	07:25 17:47	06:08 16:47-17:41/54 18:50	05:44 06:12-06:24/12 18:39-19:21/42 20:58 19:47-20:19/32	04:40 22:00	04:23 05:04-05:22/18 22:27 21:22-21:44/22
28	08:35 16:37	07:22 17:50	06:05 16:47-17:41/54 18:52	05:41 06:10-06:25/15 18:40-19:20/40 21:01 19:47-20:19/32	04:38 22:02	04:24 05:04-05:22/18 22:27 21:23-21:44/21
29	08:33 16:39		07:02 17:47-18:40/53 19:54	05:39 06:07-06:25/18 18:41-19:19/38 21:03 19:46-20:19/33	04:37 22:04	04:24 05:05-05:22/17 22:27 21:24-21:44/20
30	08:31 16:41		06:59 19:23-19:27/4 18:58-19:15/17 19:57 17:47-18:39/52	05:36 06:05-06:25/20 18:42-19:17/35 21:05 19:46-20:19/33	04:36 22:05	04:25 05:05-05:21/16 22:26 21:23-21:43/20
31	08:29 16:44		06:56 19:20-19:29/9 18:54-19:18/24 19:59 17:47-18:38/51		04:34 22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	0	0	1107	2348	610	955

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 8 - Z9

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26 05:06-05:21/15	05:15 20:05-20:20/15	06:21 18:37-19:34/57	07:24 17:40-18:15/35	07:33	08:39
	22:26 21:24-21:43/19	21:41	20:23 18:01-18:19/18	18:59	16:38	15:43
2	04:27 05:07-05:21/14	05:17 06:22-06:28/6	06:23 18:37-19:36/59	07:27 17:41-18:12/31	07:36	08:41
	22:25 21:25-21:43/18	21:39 20:02-20:21/19	20:21 17:57-18:22/25	18:57	16:36	15:42
3	04:28 05:08-05:21/13	05:19 06:19-06:30/11	06:25 18:37-19:36/59	07:29 17:43-18:09/26	07:38	08:42
	22:25 21:26-21:42/16	21:37 20:01-20:22/21	20:18 17:54-18:24/30	18:54	16:33	15:41
4	04:29 05:09-05:20/11	05:21 06:17-06:31/14	06:27 18:38-19:36/58	07:31 17:46-18:06/20	07:40	08:44
	22:24 21:26-21:42/16	21:35 20:00-20:23/23	20:15 17:52-18:25/33	18:51	16:31	15:40
5	04:30 05:10-05:19/9	05:23 06:16-06:32/16	06:29 18:38-19:36/58	07:33 17:52-18:00/8	07:43	08:46
	22:23 21:27-21:41/14	21:32 19:59-20:24/25	20:12 17:49-18:27/38	18:48	16:29	15:40
6	04:31 05:11-05:18/7	05:26 06:15-06:33/18	06:31 18:38-19:36/58	07:35	07:45	08:47
	22:22 21:28-21:41/13	21:30 19:58-20:25/27	20:09 17:47-18:28/41	18:45	16:26	15:39
7	04:32 05:12-05:16/4	05:28 06:14-06:34/20	06:34 18:39-19:35/56	07:37	07:47	08:49
	22:22 21:28-21:40/12	21:28 19:57-20:26/29	20:07 17:46-18:28/42	18:43	16:24	15:38
8	04:33 21:29-21:39/10	05:30 06:14-06:34/20 19:03-19:16/13	06:36 18:40-19:33/53	07:40	07:50	08:50
	22:21	21:25 19:57-20:26/29	20:04 17:44-18:29/45	18:40	16:22	15:37
9	04:35 21:30-21:38/8	05:32 06:13-06:34/21 18:59-19:19/20	06:38 18:41-19:30/49	07:42	07:52	08:52
	22:20	21:23 19:56-20:27/31	20:01 17:43-18:30/47	18:37	16:20	15:37
10	04:36 21:31-21:37/6	05:34 06:13-06:34/21 18:56-19:22/26	06:40 18:42-19:27/45	07:44	07:54	08:53
	22:19	21:21 19:56-20:27/31	19:58 17:41-18:30/49	18:35	16:18	15:36
11	04:37 21:34-21:37/3	05:36 06:13-06:34/21 18:54-19:23/29	06:42 18:44-19:25/41	07:46	07:56	08:55
	22:17	21:18 19:55-20:27/32	19:56 17:40-18:30/50	18:32	16:16	15:36
12	04:39	05:38 06:13-06:34/21 18:52-19:25/33	06:44 19:12-19:22/10 18:46-19:11/25	07:48	07:59	08:56
	22:16	21:16 19:55-20:27/32	19:53 17:39-18:30/51	18:29	16:14	15:36
13	04:40	05:40 06:14-06:34/20 18:51-19:26/35	06:46 19:14-19:19/5 18:49-19:07/18	07:50	08:01	08:57
	22:15	21:13 19:55-20:27/32	19:50 17:38-18:30/52	18:26	16:12	15:35
14	04:42	05:42 06:16-06:33/17 18:49-19:27/38	06:48 17:37-18:30/53	07:53	08:03	08:58
	22:14	21:11 19:54-20:27/33	19:47 18:56-19:00/4	18:24	16:10	15:35
15	04:44	05:45 06:18-06:33/15 18:48-19:28/40	06:50 17:36-18:30/54	07:55	08:06	08:59
	22:12	21:08 19:54-20:27/33	19:44	18:21	16:08	15:35
16	04:45	05:47 06:20-06:32/12 18:46-19:29/43	06:53 17:36-18:30/54	07:57	08:08	09:00
	22:11	21:06 19:53-20:26/33	19:41	18:18	16:06	15:35
17	04:47	05:49 06:22-06:30/8 18:45-19:30/45	06:55 17:35-18:29/54	07:59	08:10	09:01
	22:09	21:03 19:54-20:25/31	19:39	18:16	16:04	15:35
18	04:48	05:51 06:24-06:28/4 18:43-19:29/46	06:57 17:35-18:29/54	08:02	08:12	09:02
	22:08	21:01 19:54-20:24/30	19:36	18:13	16:02	15:35
19	04:50	05:53 19:54-20:24/30	06:59 17:34-18:29/55	08:04	08:14	09:03
	22:06	20:58 18:42-19:30/48	19:33	18:10	16:00	15:35
20	04:52	05:55 19:55-20:22/27	07:01 17:34-18:28/54	08:06	08:17	09:04
	22:04	20:55 18:41-19:30/49	19:30	18:08	15:59	15:36
21	04:54	05:57 19:55-20:20/25	07:03 17:35-18:28/53	08:08	08:19	09:04
	22:03	20:53 18:40-19:30/50	19:27	18:05	15:57	15:36
22	04:56	06:00 19:56-20:17/21	07:05 17:34-18:27/53	08:11	08:21	09:05
	22:01	20:50 18:40-19:30/50	19:25	18:03	15:55	15:36
23	04:57	06:02 19:58-20:15/17	07:07 17:34-18:26/52	08:13	08:23	09:05
	21:59	20:48 18:39-19:30/51	19:22	18:00	15:54	15:37
24	04:59	06:04 19:59-20:12/13	07:09 17:34-18:25/51	08:15	08:25	09:06
	21:57	20:45 18:38-19:30/52	19:19	17:58	15:52	15:38
25	05:01	06:06 20:02-20:10/8	07:12 17:35-18:24/49	07:17	08:27	09:06
	21:55	20:42 18:38-19:30/52	19:16	16:55	15:51	15:38
26	05:03	06:08 18:37-19:30/53	07:14 17:35-18:23/48	07:20	08:29	09:06
	21:53	20:40	19:13	16:53	15:49	15:39
27	05:05	06:10 18:37-19:30/53	07:16 17:35-18:21/46	07:22	08:31	09:07
	21:52	20:37	19:11	16:50	15:48	15:40
28	05:07	06:12 18:38-19:31/53	07:18 17:36-18:20/44	07:24	08:33	09:07
	21:50	20:34	19:08	16:48	15:47	15:41
29	05:09	06:14 18:37-19:30/53	07:20 17:38-18:19/41	07:27	08:35	09:07
	21:47	20:31	19:05	16:45	15:46	15:42
30	05:11	06:17 18:37-19:32/55	07:22 17:39-18:17/38	07:29	08:37	09:07
	21:45	20:29	19:02	16:43	15:44	15:43
31	05:13 20:08-20:17/9	06:19 18:37-19:34/57		07:31		09:07
	21:43	20:26 18:10-18:11/1		16:40		15:44
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	217	1957	2029	120	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 9 - Z10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January		February		March	April	May		June	
1	09:06		08:27	15:05-15:52/47	07:19	06:54	05:34		04:33	20:41-20:58/17
	15:45		16:46		17:52	20:01	21:07		22:09	
2	09:06		08:25	15:06-15:52/46	07:17	06:51	05:31		04:32	20:42-20:57/15
	15:47		16:48		17:54	20:03	21:09		22:10	
3	09:06		08:23	15:07-15:53/46	07:14	06:48	05:29		04:30	20:43-20:56/13
	15:48		16:51		17:56	20:05	21:12		22:12	
4	09:05		08:21	15:07-15:52/45	07:11	06:45	05:26		04:29	20:44-20:56/12
	15:49		16:53		17:59	20:08	21:14		22:13	
5	09:05		08:18	15:09-15:52/43	07:09	06:43	05:24		04:28	20:46-20:56/10
	15:51		16:55		18:01	20:10	21:16		22:14	
6	09:04		08:16	15:10-15:51/41	07:06	06:40	05:22		04:27	20:47-20:54/7
	15:52		16:58		18:03	20:12	21:18		22:16	
7	09:03		08:14	15:12-15:51/39	07:03	06:37	05:19		04:26	20:49-20:52/3
	15:54		17:00		18:06	20:14	21:20		22:17	
8	09:03		08:12	15:27-15:50/23	07:00	06:34	05:17	20:45-20:47/2	04:26	
	15:56		17:03	15:14-15:25/11	18:08	20:16	21:23		22:18	
9	09:02		08:10	15:28-15:50/22	06:58	06:32	05:15	20:42-20:49/7	04:25	
	15:57		17:05		18:10	20:19	21:25		22:19	
10	09:01		08:07	15:29-15:48/19	06:55	06:29	05:13	20:41-20:51/10	04:24	
	15:59		17:07		18:12	20:21	21:27		22:20	
11	09:00		08:05	15:32-15:47/15	06:52	06:26	05:10	20:39-20:53/14	04:23	
	16:01		17:10		18:15	20:23	21:29		22:21	
12	08:59	15:10-15:16/6	08:03	15:34-15:44/10	06:50	06:23	05:08	20:38-20:55/17	04:23	
	16:03		17:12		18:17	20:25	21:31		22:22	
13	08:58	15:09-15:19/10	08:00		06:47	06:21	05:06	20:37-20:57/20	04:22	
	16:05		17:14		18:19	20:27	21:33		22:23	
14	08:57	15:07-15:21/14	07:58		06:44	06:18	05:04	20:38-20:59/21	04:22	
	16:07		17:17		18:21	20:30	21:35		22:24	
15	08:55	15:06-15:22/16	07:55		06:41	06:15	05:02	20:37-21:00/23	04:22	
	16:09		17:19		18:24	20:32	21:37		22:24	
16	08:54	15:06-15:24/18	07:53		06:38	06:12	05:00	20:36-21:00/24	04:21	
	16:11		17:21		18:26	20:34	21:39		22:25	
17	08:53	15:05-15:25/20	07:50		06:36	06:10	04:58	20:36-21:00/24	04:21	
	16:13		17:24		18:28	20:36	21:41		22:26	
18	08:51	15:04-15:26/22	07:48		06:33	06:07	04:56	20:36-21:00/24	04:21	
	16:15		17:26		18:30	20:39	21:43		22:26	
19	08:50	15:04-15:28/24	07:45		06:30	06:04	04:54	20:36-21:01/25	04:21	
	16:17		17:29		18:32	20:41	21:45		22:27	
20	08:49	15:04-15:29/25	07:43		06:27	06:02	04:52	20:36-21:00/24	04:21	
	16:19		17:31		18:35	20:43	21:47		22:27	
21	08:47	15:31-15:41/10	07:40		06:24	05:59	04:50	20:37-21:01/24	04:21	
	16:21	15:04-15:30/26	17:33		18:37	20:45	21:49		22:27	
22	08:45	15:03-15:43/40	07:38		06:22	05:57	04:48	20:36-21:01/25	04:21	
	16:23		17:36		18:39	20:47	21:51		22:27	
23	08:44	15:03-15:45/42	07:35		06:19	05:54	04:46	20:36-21:00/24	04:21	
	16:25		17:38		18:41	20:50	21:53		22:28	
24	08:42	15:03-15:46/43	07:33		06:16	05:51	04:45	20:37-21:00/23	04:22	
	16:28		17:40		18:43	20:52	21:55		22:28	
25	08:40	15:03-15:47/44	07:30		06:13	05:49	04:43	20:38-21:01/23	04:22	
	16:30		17:43		18:46	20:54	21:57		22:28	
26	08:39	15:03-15:49/46	07:27		06:10	05:46	04:41	20:37-21:00/23	04:23	
	16:32		17:45		18:48	20:56	21:59		22:28	
27	08:37	15:04-15:50/46	07:25		06:08	05:44	04:40	20:38-21:00/22	04:23	
	16:34		17:47		18:50	20:58	22:00		22:27	
28	08:35	15:03-15:50/47	07:22		06:05	05:41	04:38	20:39-21:00/21	04:24	
	16:37		17:50		18:52	21:01	22:02		22:27	
29	08:33	15:04-15:51/47			07:02	05:39	04:37	20:40-21:00/20	04:24	
	16:39				19:54	21:03	22:04		22:27	
30	08:31	15:04-15:51/47			06:59	05:36	04:35	20:40-20:58/18	04:25	
	16:41				19:57	21:05	22:05		22:26	
31	08:29	15:05-15:52/47			06:56		04:34	20:40-20:58/18		
	16:44				19:59		22:07			
Potential sun hours	227		262		365	429	515		539	
Sum of minutes with flicker	640		407		0	0	476		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-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
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SHADOW - Calendar per WTG

WTG: 9 - Z10

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July		August		September	October		November		December
1	04:26		05:15	20:49-21:04/15	06:21	07:24		07:33	14:59-15:18/19	08:39
	22:26		21:41		20:23	18:59		16:38		15:43
2	04:27		05:17	20:50-21:02/12	06:23	07:27		07:36	14:58-15:20/22	08:41
	22:25		21:39		20:21	18:57		16:36		15:42
3	04:28		05:19	20:51-21:01/10	06:25	07:29		07:38	14:56-15:20/24	08:42
	22:25		21:37		20:18	18:54		16:33	14:43-14:55/12	15:41
4	04:29		05:21	20:53-20:59/6	06:27	07:31		07:40	14:41-15:21/40	08:44
	22:24		21:35		20:15	18:51		16:31		15:40
5	04:30		05:23		06:29	07:33		07:43	14:40-15:22/42	08:46
	22:23		21:32		20:12	18:48		16:29		15:39
6	04:31	20:54-21:00/6	05:25		06:31	07:35		07:45	14:38-15:22/44	08:47
	22:23		21:30		20:09	18:45		16:26		15:39
7	04:32	20:53-21:01/8	05:28		06:34	07:37		07:47	14:38-15:23/45	08:49
	22:22		21:28		20:07	18:43		16:24		15:38
8	04:33	20:52-21:03/11	05:30		06:36	07:40		07:50	14:37-15:22/45	08:51
	22:21		21:25		20:04	18:40		16:22		15:37
9	04:35	20:51-21:03/12	05:32		06:38	07:42		07:52	14:36-15:23/47	08:52
	22:20		21:23		20:01	18:37		16:20		15:37
10	04:36	20:50-21:04/14	05:34		06:40	07:44		07:54	14:36-15:22/46	08:53
	22:19		21:21		19:58	18:35		16:18		15:36
11	04:37	20:50-21:06/16	05:36		06:42	07:46		07:56	14:36-15:23/47	08:55
	22:17		21:18		19:56	18:32		16:16		15:36
12	04:39	20:49-21:06/17	05:38		06:44	07:48		07:59	14:36-15:23/47	08:56
	22:16		21:16		19:53	18:29		16:14		15:36
13	04:40	20:48-21:07/19	05:40		06:46	07:50		08:01	14:35-15:22/47	08:57
	22:15		21:13		19:50	18:26		16:12		15:35
14	04:42	20:49-21:08/19	05:42		06:48	07:53		08:03	14:36-15:23/47	08:58
	22:14		21:11		19:47	18:24		16:10		15:35
15	04:43	20:48-21:08/20	05:45		06:50	07:55		08:06	14:36-15:22/46	08:59
	22:12		21:08		19:44	18:21		16:08		15:35
16	04:45	20:47-21:08/21	05:47		06:53	07:57		08:08	14:36-15:22/46	09:00
	22:11		21:06		19:41	18:18		16:06		15:35
17	04:47	20:47-21:09/22	05:49		06:55	07:59		08:10	14:36-15:20/44	09:01
	22:09		21:03		19:39	18:16		16:04		15:35
18	04:48	20:46-21:09/23	05:51		06:57	08:02		08:12	14:37-15:20/43	09:02
	22:08		21:01		19:36	18:13		16:02		15:35
19	04:50	20:47-21:10/23	05:53		06:59	08:04		08:14	14:37-15:19/42	09:03
	22:06		20:58		19:33	18:10		16:00		15:35
20	04:52	20:47-21:11/24	05:55		07:01	08:06		08:17	14:38-15:18/40	09:04
	22:04		20:55		19:30	18:08		15:59		15:36
21	04:54	20:46-21:10/24	05:57		07:03	08:08		08:19	15:06-15:16/10	09:04
	22:03		20:53		19:27	18:05		15:57	14:39-15:05/26	15:36
22	04:56	20:46-21:11/25	06:00		07:05	08:11		08:21	14:40-15:05/25	09:05
	22:01		20:50		19:25	18:03		15:55		15:36
23	04:57	20:46-21:10/24	06:02		07:07	08:13		08:23	14:40-15:04/24	09:05
	21:59		20:48		19:22	18:00		15:54		15:37
24	04:59	20:46-21:11/25	06:04		07:09	08:15		08:25	14:42-15:04/22	09:06
	21:57		20:45		19:19	17:58		15:52		15:38
25	05:01	20:46-21:11/25	06:06		07:12	07:17		08:27	14:43-15:03/20	09:06
	21:55		20:42		19:16	16:55		15:51		15:38
26	05:03	20:47-21:11/24	06:08		07:14	07:20		08:29	14:44-15:02/18	09:06
	21:54		20:40		19:13	16:53		15:49		15:39
27	05:05	20:46-21:10/24	06:10		07:16	07:22		08:31	14:46-15:02/16	09:07
	21:52		20:37		19:11	16:50		15:48		15:40
28	05:07	20:47-21:10/23	06:12		07:18	07:24		08:33	14:47-15:01/14	09:07
	21:50		20:34		19:08	16:48		15:47		15:41
29	05:09	20:47-21:10/23	06:14		07:20	07:27		08:35	14:49-15:00/11	09:07
	21:48		20:31		19:05	16:45		15:46		15:42
30	05:11	20:48-21:09/21	06:17		07:22	07:29	15:03-15:14/11	08:37	14:51-14:58/7	09:07
	21:45		20:29		19:02	16:43		15:44		15:43
31	05:13	20:49-21:07/18	06:19			07:31	15:01-15:17/16			09:07
	21:43		20:26			16:40				15:44
Potential sun hours	538		474		386	321		241		207
Sum of minutes with flicker	511		43		0	27		1028		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
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Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 10 - Z12

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:07 11:46-14:10/144	08:27 11:55-13:19/84 09:50-10:10/20	07:20 08:04-08:36/32	06:54 19:24-19:32/8	05:34	04:33
	15:45 14:22-14:45/23	16:46 13:35-13:44/9	17:52 07:47-08:01/14	20:01	21:07	22:09
2	09:06 11:47-14:11/144	08:25 11:55-13:17/82	07:17 08:04-08:36/32	06:51 19:22-19:34/12	05:31	04:32
	15:47 14:23-14:46/23	16:48 09:51-10:08/17	17:54 07:44-08:02/18	20:03	21:10	22:10
3	09:06 11:47-14:11/144	08:23 11:56-13:16/80	07:14 08:04-08:35/31	06:48 19:21-19:36/15	05:29	04:30
	15:48 14:23-14:47/24	16:51 09:53-10:07/14	17:56 07:43-08:02/19	20:06	21:12	22:12
4	09:05 11:47-14:11/144	08:21 11:56-13:15/79	07:11 08:05-08:35/30	06:45 19:20-19:38/18	05:26	04:29
	15:49 14:23-14:47/24	16:53 09:57-10:04/7	17:59 07:43-08:03/20	20:08	21:14	22:13
5	09:05 11:47-14:12/145	08:19 11:57-12:43/46	07:09 08:06-08:34/28	06:43 19:20-19:40/20	05:24	04:28
	15:51 14:23-14:47/24	16:55 12:45-13:13/28	18:01 07:43-08:03/20	20:10	21:16	22:14
6	09:04 11:48-14:13/145 09:50-09:54/4	08:16 11:59-12:43/44	07:06 08:07-08:33/26	06:40 19:19-19:39/20	05:22	04:27
	15:52 14:25-14:49/24	16:58 12:48-13:12/24	18:03 07:42-08:02/20	20:12	21:18	22:16
7	09:04 11:48-14:14/146 09:48-09:57/9	08:14 12:00-12:41/41	07:03 08:09-08:31/22	06:37 19:18-19:39/21	05:19	04:26
	15:54 14:25-14:49/24	17:00 12:51-13:08/17	18:06 07:42-08:02/20	20:14	21:21	22:17
8	09:03 11:47-14:13/146 09:47-09:59/12	08:12 12:01-12:40/39	07:01 08:11-08:29/18	06:34 19:18-19:38/20	05:17	04:25
	15:56 14:25-14:49/24	17:03 12:58-13:02/4	18:08 07:43-08:01/18	20:17	21:23	22:18
9	09:02 11:47-14:14/147 09:46-09:59/13	08:10 12:03-12:38/35	06:58 08:14-08:27/13	06:32 19:19-19:37/18	05:15	04:25
	15:57 14:25-14:49/24	17:05	18:10 07:44-08:00/16	20:19	21:25	22:19
10	09:01 11:48-14:15/147 09:45-10:01/16	08:07 12:05-12:37/32	06:55 08:18-08:22/4	06:29 19:19-19:36/17	05:13	04:24
	15:59 14:26-14:50/24	17:07	18:12 07:45-07:58/13	20:21	21:27	22:20
11	09:00 11:48-14:15/147 09:45-10:03/18	08:05 12:07-12:34/27	06:52 07:47-07:55/8	06:26 19:20-19:34/14	05:10	04:23
	16:01 14:27-14:50/23	17:10	18:15	20:23	21:29	22:21
12	08:59 11:48-14:15/147 09:44-10:03/19	08:03 12:10-12:32/22	06:50 07:16-07:23/7	06:23 19:23-19:32/9	05:08	04:23
	16:03 14:27-14:50/23	17:12	18:17	20:25	21:31	22:22
13	08:58 11:48-14:16/148 09:44-10:05/21	08:00 12:15-12:27/12	06:47 07:13-07:25/12	06:21	05:06	04:22
	16:05 14:28-14:51/23	17:14	18:19	20:28	21:33	22:23
14	08:57 11:48-14:16/148 09:44-10:05/21	07:58	06:44 07:10-07:26/16	06:18	05:04	04:22
	16:07 14:28-14:50/22	17:17	18:21	20:30	21:35	22:24
15	08:56 11:49-14:16/147 09:44-10:07/23	07:55 08:25-08:28/3	06:41 07:09-07:28/19	06:15	05:02	04:21
	16:09 14:29-14:51/22	17:19	18:24	20:32	21:38	22:25
16	08:54 11:49-14:16/147 09:43-10:07/24	07:53 08:22-08:31/9	06:39 07:08-07:28/20	06:13	05:00	04:21
	16:11 14:30-14:50/20	17:22	18:26	20:34	21:40	22:25
17	08:53 11:48-14:16/148 09:43-10:08/25	07:51 08:20-08:34/14	06:36 07:07-07:28/21	06:10	04:58	04:21
	16:13 14:30-14:50/20	17:24	18:28	20:36	21:42	22:26
18	08:52 11:49-14:17/148 09:44-10:09/25	07:48 08:17-08:34/17	06:33 07:06-07:28/22	06:07	04:56	04:21
	16:15 14:32-14:50/18	17:26	18:30	20:39	21:44	22:26
19	08:50 11:49-14:17/148 09:44-10:10/26	07:46 08:15-08:35/20	06:30 07:06-07:27/21	06:04	04:54	04:21
	16:17 14:33-14:50/17	17:29	18:32	20:41	21:46	22:27
20	08:49 11:49-14:16/147 09:43-10:10/27	07:43 08:15-08:36/21	06:27 07:07-07:27/20	06:02	04:52	04:21
	16:19 14:34-14:49/15	17:31	18:35	20:43	21:48	22:27
21	08:47 11:50-14:16/146 09:43-10:10/27	07:40 08:11-08:36/25	06:25 07:07-07:26/19	05:59	04:50	04:21
	16:21 14:36-14:48/12	17:33	18:37	20:45	21:50	22:27
22	08:46 11:50-14:16/146 09:44-10:11/27	07:38 08:09-08:36/27	06:22 07:07-07:25/18	05:57	04:48	04:21
	16:23 14:39-14:46/7	17:36	18:39	20:48	21:51	22:28
23	08:44 11:50-14:15/145	07:35 08:07-08:35/28	06:19 07:08-07:23/15	05:54	04:46	04:21
	16:25 09:44-10:11/27	17:38	18:41	20:50	21:53	22:28
24	08:42 11:50-14:15/145	07:33 08:06-08:36/30	06:16 07:10-07:20/10	05:51	04:45	04:22
	16:28 09:44-10:11/27	17:40	18:44	20:52	21:55	22:28
25	08:40 11:51-14:14/143	07:30 08:05-08:36/31	06:13	05:49	04:43	04:22
	16:30 09:44-10:12/28	17:43	18:46	20:54	21:57	22:28
26	08:39 11:51-13:21/90 09:45-10:12/27	07:27 08:04-08:36/32	06:11	05:46	04:41	04:22
	16:32 13:22-14:13/51	17:45	18:48	20:56	21:59	22:28
27	08:37 11:52-13:21/89 09:46-10:12/26	07:25 08:04-08:36/32	06:08	05:44	04:40	04:23
	16:34 13:23-14:12/49	17:47 07:53-07:58/5	18:50	20:59	22:01	22:28
28	08:35 11:52-13:21/89 09:46-10:12/26	07:22 08:04-08:37/33	06:05	05:41	04:38	04:24
	16:37 13:25-13:52/27 13:55-14:11/16	17:50 07:50-08:00/10	18:52	21:01	22:02	22:27
29	08:33 11:52-13:20/88 09:46-10:11/25		07:02	05:39	04:37	04:24
	16:39 13:25-13:50/25 13:57-14:07/10		19:55	21:03	22:04	22:27
30	08:31 11:53-13:19/86 09:47-10:11/24		06:59	05:36	04:35	04:25
	16:41 13:28-13:49/21		19:57	21:05	22:06	22:27
31	08:29 11:54-13:19/85 09:49-10:10/21		06:57 19:26-19:29/3		04:34	
	16:44 13:31-13:47/16		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	5422	1100	645	192	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 10 - Z12

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21 19:20-19:34/14	07:24 07:54-08:03/9	07:34 11:34-12:07/33	08:39 11:30-13:57/147 09:27-09:45/18
	22:26	21:41	20:23	18:59	16:38	15:43 14:09-14:33/24
2	04:27	05:17	06:23 19:18-19:35/17	07:27 08:28-08:31/3	07:36 11:32-12:08/36	08:41 11:31-13:58/147 09:28-09:44/16
	22:26	21:39	20:21	18:57 07:56-07:58/2	16:36	15:42 14:09-14:33/24
3	04:28	05:19	06:25 19:17-19:35/18	07:29 08:24-08:35/11	07:38 11:31-12:10/39	08:43 11:32-13:58/146 09:30-09:44/14
	22:25	21:37	20:18	18:54	16:33 12:26-12:34/8	15:41 14:09-14:33/24
4	04:29	05:21	06:27 19:16-19:36/20	07:31 08:52-09:03/11	07:41 11:29-12:11/42	08:44 11:32-13:58/146 09:31-09:43/12
	22:24	21:35	20:15	18:51 08:22-08:37/15	16:31 12:20-12:38/18	15:40 14:10-14:34/24
5	04:30	05:23	06:29 19:15-19:36/21	07:33 08:49-09:05/16	07:43 11:28-12:12/44	08:46 11:33-13:59/146 09:33-09:42/9
	22:24	21:32	20:12	18:48 08:20-08:37/17	16:29 12:17-12:42/25	15:39 14:10-14:34/24
6	04:31	05:25	06:31 19:15-19:35/20	07:35 08:46-09:07/21	07:45 11:27-12:13/46	08:48 11:33-13:58/145 09:36-09:40/4
	22:23	21:30	20:10	18:46 08:19-08:38/19	16:26 12:15-12:43/28	15:39 14:10-14:34/24
7	04:32	05:28	06:34 19:15-19:35/20	07:37 08:43-09:08/25	07:47 11:27-12:45/78	08:49 11:34-13:59/145
	22:22	21:28	20:07	18:43 08:19-08:39/20	16:24 09:26-09:34/8	15:38 14:10-14:34/24
8	04:33	05:30	06:36 19:15-19:33/18	07:40 08:42-09:09/27	07:50 11:26-12:46/80	08:51 11:35-13:59/144
	22:21	21:25	20:04	18:40 08:18-08:38/20	16:22 09:24-09:38/14	15:37 14:11-14:35/24
9	04:35	05:32	06:38 19:15-19:30/15	07:42 08:40-09:09/29	07:52 11:25-12:48/83	08:52 11:36-14:00/144
	22:20	21:23	20:01	18:37 08:17-08:38/21	16:20 09:21-09:39/18	15:37 14:12-14:36/24
10	04:36	05:34	06:40 19:15-19:27/12	07:44 08:39-09:09/30	07:54 11:25-12:50/85 09:21-09:41/20	08:54 11:36-14:00/144
	22:19	21:21	19:58	18:35 08:17-08:37/20	16:18 13:05-13:15/10	15:36 14:12-14:36/24
11	04:37	05:36	06:42 19:16-19:25/9	07:46 08:39-09:10/31	07:57 11:24-12:50/86 09:19-09:41/22	08:55 11:37-14:01/144
	22:18	21:18	19:56	18:32 08:18-08:37/19	16:16 13:01-13:18/17	15:36 14:13-14:36/23
12	04:39	05:38	06:44 19:18-19:22/4	07:48 08:38-09:10/32	07:59 11:25-12:51/86 09:19-09:43/24	08:56 11:37-14:01/144
	22:16	21:16	19:53	18:29 08:19-08:36/17	16:14 12:59-13:21/22	15:35 14:13-14:36/23
13	04:40	05:40	06:46	07:51 08:37-09:09/32	08:01 11:24-12:52/88 09:18-09:43/25	08:57 11:38-14:01/143
	22:15	21:13	19:50	18:26 08:21-08:34/13	16:12 12:57-13:22/25 13:29-13:39/10	15:35 14:13-14:36/23
14	04:42	05:42	06:48	07:53 08:37-09:10/33	08:03 11:24-12:53/89 09:18-09:44/26	08:59 11:39-14:02/143
	22:14	21:11	19:47	18:24 08:24-08:33/9	16:10 12:56-13:24/28 13:27-13:43/16	15:35 14:15-14:38/23
15	04:43	05:45	06:50	07:55 08:37-09:09/32	08:06 11:24-12:53/89 09:19-09:45/26	09:00 11:40-14:02/142
	22:12	21:08	19:44	18:21 08:26-08:29/3	16:08 12:55-13:44/49	15:35 14:15-14:38/23
16	04:45	05:47	06:53	07:57 08:37-09:08/31	08:08 11:24-12:54/90 09:18-09:45/27	09:01 11:40-14:02/142
	22:11	21:06	19:42	18:18	16:06 12:55-13:46/51	15:35 14:15-14:38/23
17	04:47	05:49	06:55	07:59 08:38-09:08/30	08:10 11:25-13:48/143	09:02 11:41-14:03/142
	22:09	21:03	19:39	18:16	16:04 09:18-09:46/28	15:35 14:16-14:39/23
18	04:48	05:51	06:57	08:02 08:38-09:07/29	08:12 11:24-13:49/145	09:02 11:41-14:03/142
	22:08	21:01	19:36	18:13	16:02 09:18-09:45/27	15:35 14:17-14:39/22
19	04:50	05:53	06:59 07:58-08:07/9	08:04 08:38-09:07/29	08:15 11:25-13:50/145	09:03 11:41-14:03/142
	22:06	20:58	19:33	18:11	16:00 09:19-09:46/27	15:35 14:16-14:39/23
20	04:52	05:55	07:01 07:55-08:09/14	08:06 08:40-09:07/27	08:17 11:25-13:51/146 09:19-09:46/27	09:04 11:42-14:04/142
	22:05	20:56	19:30	18:08	15:59 14:14-14:21/7	15:36 14:17-14:39/22
21	04:54	05:57	07:03 07:53-08:10/17	08:08 08:42-09:06/24	08:19 11:26-13:52/146 09:19-09:46/27	09:05 11:43-14:05/142
	22:03	20:53	19:27	18:05	15:57 14:12-14:24/12	15:36 14:18-14:40/22
22	04:56	06:00	07:05 07:52-08:11/19	08:11 08:45-09:06/21	08:21 11:26-13:52/146 09:20-09:46/26	09:05 11:43-14:05/142
	22:01	20:50	19:25	18:03	15:55 14:10-14:25/15	15:36 14:18-14:40/22
23	04:57	06:02	07:07 07:51-08:11/20	08:13 08:45-09:05/20	08:23 11:25-13:53/148 09:21-09:47/26	09:06 11:44-14:06/142
	21:59	20:48	19:22	18:00	15:54 14:09-14:26/17	15:37 14:19-14:41/22
24	04:59	06:04	07:10 07:50-08:11/21	08:15 08:48-09:04/16	08:25 11:26-13:54/148 09:21-09:46/25	09:06 11:44-14:06/142
	21:58	20:45	19:19	17:58	15:52 14:09-14:27/18	15:38 14:19-14:42/23
25	05:01	06:06	07:12 07:49-08:10/21	07:18 07:50-08:03/13	08:27 11:27-13:54/147 09:21-09:46/25	09:06 11:44-14:06/142
	21:56	20:42	19:16	16:55	15:51 14:08-14:28/20	15:38 14:20-14:42/22
26	05:03	06:08	07:14 07:49-08:10/21	07:20 07:53-08:01/8	08:29 11:28-13:55/147 09:23-09:46/23	09:07 11:45-14:07/142
	21:54	20:40	19:13	16:53	15:49 14:09-14:30/21	15:39 14:20-14:42/22
27	05:05	06:10	07:16 07:50-08:10/20	07:22	08:31 11:28-13:55/147 09:23-09:46/23	09:07 11:45-14:07/142
	21:52	20:37	19:11	16:50	15:48 14:08-14:30/22	15:40 14:20-14:43/23
28	05:07	06:12	07:18 07:50-08:09/19	07:24	08:33 11:28-13:56/148 09:24-09:45/21	09:07 11:45-14:08/143
	21:50	20:34	19:08	16:48	15:47 14:08-14:30/22	15:41 14:21-14:44/23
29	05:09	06:14	07:20 07:50-08:08/18	07:27 11:43-11:57/14	08:35 11:29-13:56/147 09:24-09:45/21	09:07 11:46-14:09/143
	21:48	20:32	19:05	16:45	15:46 14:08-14:31/23	15:42 14:21-14:44/23
30	05:11	06:17	07:22 07:52-08:06/14	07:29 11:38-12:01/23	08:37 11:29-13:56/147 09:26-09:45/19	09:07 11:45-14:08/143
	21:46	20:29	19:02	16:43	15:44 14:08-14:31/23	15:43 14:21-14:44/23
31	05:13	06:19 19:21-19:31/10		07:31 11:36-12:04/28		09:07 11:46-14:09/143
	21:44	20:26		16:40		15:44 14:22-14:45/23
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	10	401	850	4206	5235

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 11 - Z13

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 10:36-11:40/64 12:20-12:37/17	08:27	07:19	06:54	05:34	04:33
	15:45 11:49-12:15/26	16:46	17:52	20:01	21:07	22:09
2	09:06 10:37-11:41/64 12:22-12:38/16	08:25	07:17	06:51	05:31	04:32
	15:47 11:50-12:16/26	16:48	17:54	20:03	21:10	22:10
3	09:06 10:37-11:41/64 12:22-12:37/15	08:23	07:14	06:48	05:29	04:30
	15:48 11:51-12:16/25	16:51	17:56	20:05	21:12	22:12
4	09:05 10:38-11:41/63 12:24-12:37/13	08:21	07:11	06:45	05:26	04:29
	15:49 11:51-12:15/24	16:53	17:59	20:08	21:14	22:13
5	09:05 10:38-11:42/64 12:25-12:36/11	08:19	07:09	06:43	05:24	04:28
	15:51 11:52-12:15/23	16:55	18:01	20:10	21:16	22:14
6	09:04 10:39-11:43/64 12:28-12:36/8	08:16	07:06	06:40	05:22	04:27
	15:52 11:54-12:16/22	16:58	18:03	20:12	21:18	22:16
7	09:03 10:40-11:43/63	08:14	07:03	06:37	05:19	04:26
	15:54 11:55-12:16/21	17:00	18:06	20:14	21:21	22:17
8	09:03 10:39-11:42/63	08:12	07:01	06:34	05:17	04:25
	15:56 11:55-12:15/20	17:03	18:08	20:17	21:23	22:18
9	09:02 10:40-11:43/63	08:10	06:58	06:32	05:15	04:25
	15:57 11:57-12:15/18	17:05	18:10	20:19	21:25	22:19
10	09:01 10:40-11:43/63	08:07	06:55	06:29	05:13	04:24
	15:59 11:58-12:14/16	17:07	18:12	20:21	21:27	22:20
11	09:00 10:41-11:44/63	08:05 08:35-08:41/6	06:52	06:26	05:10	04:23
	16:01 12:00-12:14/14	17:10	18:15	20:23	21:29	22:21
12	08:59 10:41-11:43/62	08:03 08:33-08:44/11	06:50	06:23	05:08	04:23
	16:03 12:02-12:11/9	17:12	18:17	20:25	21:31	22:22
13	08:58 10:42-11:43/61	08:00 08:30-08:45/15	06:47	06:21	05:06	04:22
	16:05	17:14	18:19	20:28	21:33	22:23
14	08:57 10:42-11:43/61	07:58 08:27-08:45/18	06:44	06:18	05:04	04:22
	16:07	17:17	18:21	20:30	21:35	22:24
15	08:56 10:43-11:43/60	07:55 08:27-08:47/20	06:41 17:46-17:54/8	06:15	05:02	04:21
	16:09	17:19	18:24	20:32	21:37	22:25
16	08:54 10:43-11:42/59	07:53 08:26-08:47/21	06:38 17:44-17:57/13	06:12	05:00	04:21
	16:10	17:22	18:26	20:34	21:40	22:25
17	08:53 10:43-11:42/59	07:50 08:27-08:48/21	06:36 17:42-17:59/17	06:10	04:58	04:21
	16:13	17:24	18:28	20:36	21:42	22:26
18	08:52 10:45-11:18/33	07:48 08:26-08:47/21	06:33 17:40-18:01/21	06:07	04:56	04:21
	16:15 11:19-11:42/23	17:26	18:30	20:39	21:44	22:26
19	08:50 10:45-11:17/32	07:45 08:26-08:47/21	06:30 17:39-18:03/24	06:04	04:54	04:21
	16:17 11:20-11:41/21	17:29	18:32	20:41	21:46	22:27
20	08:49 10:46-11:17/31	07:43 08:27-08:47/20	06:27 17:37-18:05/28	06:02	04:52	04:21
	16:19 11:22-11:39/17	17:31	18:35	20:43	21:48	22:27
21	08:47 10:47-11:17/30	07:40 08:27-08:46/19	06:25 17:37-18:06/29	05:59	04:50	04:21
	16:21 11:24-11:38/14	17:33	18:37	20:45	21:49	22:27
22	08:46 10:48-11:16/28	07:38 08:27-08:45/18	06:22 17:37-18:07/30	05:57	04:48	04:21
	16:23 11:28-11:34/6	17:36	18:39	20:47	21:51	22:28
23	08:44 10:49-11:16/27	07:35 08:28-08:43/15	06:19 17:37-18:07/30	05:54	04:46	04:21
	16:25	17:38	18:41	20:50	21:53	22:28
24	08:42 10:50-11:15/25	07:33 08:30-08:42/12	06:16 17:36-18:07/31	05:51	04:45	04:22
	16:28	17:40	18:43	20:52	21:55	22:28
25	08:40 10:51-11:14/23	07:30 08:34-08:38/4	06:13 17:36-18:06/30	05:49	04:43	04:22
	16:30	17:43	18:46	20:54	21:57	22:28
26	08:39 10:53-11:13/20	07:27	06:11 17:36-18:05/29	05:46	04:41	04:23
	16:32	17:45	18:48	20:56	21:59	22:28
27	08:37 10:55-11:12/17	07:25	06:08 17:38-18:05/27	05:44	04:40	04:23
	16:34	17:47	18:50	20:59	22:00	22:27
28	08:35 10:58-11:09/11	07:22	06:05 17:39-18:03/24	05:41	04:38	04:24
	16:37	17:50	18:52	21:01	22:02	22:27
29	08:33		07:02 18:40-19:01/21	05:39	04:37	04:24
	16:39		19:54	21:03	22:04	22:27
30	08:31		06:59 18:43-18:59/16	05:36	04:35	04:25
	16:41		19:57	21:05	22:06	22:27
31	08:29		06:57		04:34	
	16:44		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1742	242	378	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 11 - Z13

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September		October		November		December	
1	04:26	05:15	06:21		07:24		07:34		08:39	10:23-11:26/63
	22:26	21:41	20:23		18:59		16:38		15:43	11:43-11:56/13
2	04:27	05:17	06:23		07:27		07:36		08:41	10:23-11:26/63
	22:26	21:39	20:21		18:57		16:36		15:42	11:42-11:57/15
3	04:28	05:19	06:25		07:29		07:38		08:43	10:24-11:27/63
	22:25	21:37	20:18		18:54		16:33		15:41	11:41-11:59/18
4	04:29	05:21	06:27		07:31		07:40		08:44	10:24-11:27/63
	22:24	21:35	20:15		18:51		16:31		15:40	11:40-12:00/20
5	04:30	05:23	06:29		07:33		07:43		08:46	10:25-11:28/63
	22:23	21:32	20:12		18:48		16:29		15:39	11:40-12:01/21
6	04:31	05:25	06:31		07:35		07:45		08:48	10:24-11:28/64 12:13-12:21/8
	22:23	21:30	20:10		18:46		16:26		15:39	11:39-12:01/22
7	04:32	05:28	06:34		07:37		07:47		08:49	10:25-11:29/64 12:12-12:23/11
	22:22	21:28	20:07		18:43		16:24		15:38	11:39-12:02/23
8	04:33	05:30	06:36		07:40		07:50		08:51	10:26-11:29/63 12:12-12:25/13
	22:21	21:25	20:04		18:40		16:22		15:37	11:40-12:04/24
9	04:35	05:32	06:38		07:42		07:52		08:52	10:27-11:30/63 12:12-12:26/14
	22:20	21:23	20:01		18:37		16:20		15:37	11:40-12:05/25
10	04:36	05:34	06:40		07:44		07:54		08:53	10:26-11:30/64 12:11-12:27/16
	22:19	21:21	19:58		18:35		16:18		15:36	11:40-12:05/25
11	04:37	05:36	06:42		07:46		07:57		08:55	10:28-11:31/63 12:11-12:29/18
	22:18	21:18	19:56		18:32		16:16		15:36	11:40-12:06/26
12	04:39	05:38	06:44		07:48		07:59		08:56	10:28-11:31/63 12:11-12:29/18
	22:16	21:16	19:53		18:29		16:14		15:35	11:40-12:06/26
13	04:40	05:40	06:46	18:36-18:50/14	07:51		08:01		08:57	10:28-11:31/63 12:10-12:30/20
	22:15	21:13	19:50		18:26		16:12		15:35	11:40-12:07/27
14	04:42	05:42	06:48	18:31-18:51/20	07:53		08:03	10:30-10:41/11	08:58	10:29-11:33/64 12:11-12:31/20
	22:14	21:11	19:47		18:24		16:10		15:35	11:41-12:08/27
15	04:43	05:45	06:50	18:29-18:52/23	07:55		08:06	10:27-10:44/17	09:00	10:29-11:33/64 12:11-12:32/21
	22:12	21:08	19:44		18:21		16:08		15:35	11:41-12:09/28
16	04:45	05:47	06:53	18:27-18:53/26	07:57		08:08	10:26-10:46/20	09:01	10:30-11:33/63 12:12-12:32/20
	22:11	21:06	19:42		18:18		16:06		15:35	11:41-12:09/28
17	04:47	05:49	06:55	18:25-18:53/28	07:59	09:04-09:12/8	08:10	10:25-10:48/23	09:01	10:30-11:34/64 12:12-12:33/21
	22:09	21:03	19:39		18:16		16:04		15:35	11:42-12:10/28
18	04:48	05:51	06:57	18:24-18:53/29	08:02	09:01-09:14/13	08:12	10:24-10:49/25	09:02	10:31-11:35/64 12:12-12:34/22
	22:08	21:01	19:36		18:13		16:02		15:35	11:42-12:10/28
19	04:50	05:53	06:59	18:23-18:53/30	08:04	08:59-09:15/16	08:15	10:24-10:51/27	09:03	10:31-11:34/63 12:12-12:33/21
	22:06	20:58	19:33		18:10		16:00		15:35	11:42-12:10/28
20	04:52	05:55	07:01	18:22-18:53/31	08:06	08:58-09:16/18	08:17	10:23-10:51/28	09:04	10:32-11:35/63 12:13-12:34/21
	22:05	20:56	19:30		18:08		15:59	11:03-11:09/6	15:36	11:43-12:11/28
21	04:54	05:57	07:03	18:23-18:52/29	08:08	08:57-09:17/20	08:19	10:23-10:53/30	09:05	10:33-11:36/63 12:13-12:35/22
	22:03	20:53	19:27		18:05		15:57	11:00-11:14/14	15:36	11:43-12:12/29
22	04:56	06:00	07:05	18:22-18:52/30	08:11	08:57-09:17/20	08:21	10:22-10:53/31	09:05	10:33-11:36/63 12:13-12:35/22
	22:01	20:50	19:25		18:03		15:55	10:58-11:15/17	15:36	11:43-12:12/29
23	04:57	06:02	07:07	18:22-18:51/29	08:13	08:56-09:17/21	08:23	10:21-10:53/32	09:06	10:34-11:37/63 12:14-12:36/22
	21:59	20:48	19:22		18:00		15:54	10:57-11:17/20	15:37	11:45-12:13/28
24	04:59	06:04	07:09	18:22-18:48/26	08:15	08:56-09:18/22	08:25	10:22-10:55/33	09:06	10:34-11:37/63 12:15-12:36/21
	21:57	20:45	19:19		17:58		15:52	10:56-11:19/23	15:38	11:45-12:13/28
25	05:01	06:06	07:12	18:22-18:45/23	07:17	07:56-08:17/21	08:27	10:22-11:20/58	09:06	10:34-11:37/63 12:15-12:37/22
	21:56	20:42	19:16		16:55		15:51		15:38	11:45-12:13/28
26	05:03	06:08	07:14	18:23-18:42/19	07:20	07:56-08:16/20	08:29	10:22-11:21/59	09:07	10:34-11:38/64 12:16-12:37/21
	21:54	20:40	19:13		16:53		15:49		15:39	11:46-12:14/28
27	05:05	06:10	07:16	18:24-18:39/15	07:22	07:57-08:16/19	08:31	10:22-11:22/60	09:07	10:35-11:38/63 12:16-12:37/21
	21:52	20:37	19:11		16:50		15:48		15:40	11:46-12:14/28
28	05:07	06:12	07:18	18:26-18:36/10	07:24	07:57-08:14/17	08:33	10:22-11:23/61	09:07	10:35-11:39/64 12:17-12:37/20
	21:50	20:34	19:08		16:48		15:47		15:41	11:47-12:14/27
29	05:09	06:14	07:20		07:27	08:00-08:14/14	08:35	10:22-11:23/61	09:07	10:36-11:39/63 12:18-12:38/20
	21:48	20:32	19:05		16:45		15:46		15:42	11:48-12:15/27
30	05:11	06:17	07:22		07:29	08:03-08:13/10	08:37	10:22-11:24/62	09:07	10:36-11:39/63 12:18-12:37/19
	21:46	20:29	19:02		16:43		15:44	11:43-11:52/9	15:43	11:47-12:15/28
31	05:13	06:19			07:31	08:05-08:10/5			09:07	10:36-11:40/64 12:19-12:38/19
	21:43	20:26			16:40				15:44	11:49-12:15/26
Potential sun hours	538	474	386		321		241		207	
Sum of minutes with flicker	0	0	382		244		727		3242	

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 12 - Z16

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 11:16-11:32/16	08:27 09:18-09:46/28 15:15-15:32/17	07:19 08:33-08:40/7	06:54	05:34 18:45-19:47/62	04:33 19:10-19:21/11
	15:45 14:21-14:43/22	16:46 09:01-09:14/13 09:49-10:12/23	17:52	20:01	21:07	22:09
2	09:06 11:18-11:33/15	08:25 09:18-09:46/28 15:17-15:31/14	07:17	06:51	05:31 18:44-19:45/61	04:31
	15:47 14:22-14:44/22	16:48 08:58-09:15/17 09:49-10:11/22	17:54	20:03	21:10	22:10
3	09:06 11:18-11:32/14	08:23 09:18-09:46/28 15:19-15:30/11	07:14	06:48	05:29 18:45-19:45/60	04:30
	15:48 14:23-14:44/21	16:51 08:58-09:17/19 09:51-10:10/19	17:56	20:05	21:12	22:12
4	09:05 11:20-11:32/12	08:21 09:18-09:46/28 09:52-10:08/16	07:11	06:45	05:26 18:45-19:45/60	04:29
	15:49 14:23-14:44/21	16:53 08:56-09:17/21	17:59	20:08	21:14	22:13
5	09:05 11:21-11:31/10	08:19 08:52-09:46/54	07:09	06:43	05:24 18:45-19:45/60	04:28
	15:51 14:23-14:44/21	16:55 09:55-10:06/11	18:01	20:10	21:16	22:14
6	09:04 11:24-11:31/7	08:16 08:50-09:47/57	07:06	06:40	05:22 18:44-19:43/59	04:27
	15:52 14:24-14:45/21	16:58	18:03	20:12	21:18	22:16
7	09:03 14:24-14:45/21	08:14 08:48-09:46/58	07:03	06:37	05:19 18:45-19:43/58	04:26
	15:54 09:50-09:56/6	17:00	18:05	20:14	21:20	22:17
8	09:03 14:25-14:45/20	08:12 08:47-09:46/59	07:00	06:34	05:17 18:45-19:42/57	04:25
	15:56 09:47-09:58/11	17:02	18:08	20:16	21:23	22:18
9	09:02 14:26-14:45/19	08:10 09:21-09:44/23	06:58	06:31	05:15 18:45-19:41/56	04:25
	15:57 09:46-10:00/14	17:05 08:46-09:20/34	18:10	20:19	21:25	22:19
10	09:01 14:27-14:46/19	08:07 09:22-09:44/22	06:55	06:29	05:12 18:46-19:41/55	04:24
	15:59 09:46-10:01/15	17:07 08:46-09:21/35	18:12	20:21	21:27	22:20
11	09:00 14:28-14:46/18 09:46-10:03/17	08:05 09:23-09:42/19	06:52	06:26 19:21-19:31/10	05:10 18:46-19:40/54	04:23
	16:01 15:15-15:18/3	17:10 08:45-09:21/36	18:15	20:23	21:29	22:21
12	08:59 14:28-14:45/17 09:45-10:04/19	08:03 08:35-08:42/7 08:44-09:21/37	06:49	06:23 19:10-19:36/26	05:08 18:47-19:39/52	04:23
	16:03 15:13-15:19/6	17:12 09:24-09:40/16	18:17	20:25	21:31	22:22
13	08:58 14:30-14:46/16 09:45-10:05/20	08:00 08:31-09:20/49	06:47	06:21 19:06-19:38/32	05:06 18:47-19:39/52	04:22
	16:05 15:12-15:22/10	17:14 09:27-09:38/11	18:19	20:27	21:33	22:23
14	08:57 14:31-14:45/14 09:44-10:06/22	07:58 08:29-09:19/50	06:44	06:18 19:02-19:40/38	05:04 18:48-19:38/50	04:22
	16:06 15:11-15:24/13	17:17	18:21	20:30	21:35	22:24
15	08:56 14:33-14:45/12 09:44-10:07/23	07:55 08:28-09:19/51	06:41	06:15 19:00-19:42/42	05:02 18:49-19:39/50	04:21
	16:08 15:11-15:26/15	17:19	18:23	20:32	21:37	22:25
16	08:54 14:34-14:43/9 09:44-10:08/24	07:53 08:27-09:17/50	06:38	06:12 18:58-19:43/45	05:00 18:50-19:38/48	04:21
	16:10 15:10-15:28/18	17:21	18:26	20:34	21:39	22:25
17	08:53 14:36-14:41/5 09:43-10:09/26	07:50 08:25-09:16/51	06:36	06:10 18:56-19:44/48	04:58 18:50-19:37/47	04:21
	16:12 15:10-15:30/20	17:24	18:28	20:36	21:42	22:26
18	08:52 15:09-15:30/21	07:48 08:25-09:14/49	06:33	06:07 18:54-19:45/51	04:56 18:51-19:36/45	04:21
	16:15 09:44-10:10/26	17:26	18:30	20:39	21:44	22:26
19	08:50 15:10-15:32/22	07:45 08:25-09:09/44	06:30	06:04 18:53-19:46/53	04:54 18:52-19:36/44	04:21
	16:17 09:44-10:11/27	17:29	18:32	20:41	21:46	22:27
20	08:49 15:10-15:33/23	07:43 08:24-09:08/44	06:27	06:02 18:52-19:46/54	04:52 18:53-19:35/42	04:21
	16:19 09:43-10:11/28	17:31	18:35	20:43	21:47	22:27
21	08:47 15:10-15:33/23	07:40 08:25-09:07/42	06:24	05:59 18:50-19:46/56	04:50 18:53-19:34/41	04:21
	16:21 09:43-10:11/28	17:33	18:37	20:45	21:49	22:27
22	08:45 09:25-09:34/9 09:43-10:12/29	07:38 08:24-09:05/41	06:22	05:56 18:50-19:47/57	04:48 18:55-19:34/39	04:21
	16:23 15:10-15:34/24	17:36	18:39	20:47	21:51	22:28
23	08:44 09:23-09:37/14 09:44-10:12/28	07:35 08:24-08:49/25	06:19	05:54 18:49-19:47/58	04:46 18:55-19:32/37	04:21
	16:25 15:10-15:34/24	17:38 08:51-09:02/11	18:41	20:50	21:53	22:28
24	08:42 09:21-09:38/17 09:44-10:13/29	07:33 08:25-08:50/25	06:16	05:51 18:48-19:47/59	04:45 18:57-19:32/35	04:22
	16:27 15:10-15:34/24	17:40	18:43	20:52	21:55	22:28
25	08:40 09:21-09:40/19 09:44-10:13/29	07:30 08:26-08:48/22	06:13	05:49 18:48-19:47/59	04:43 18:59-19:32/33	04:22
	16:30 15:10-15:35/25	17:43	18:46	20:54	21:57	22:28
26	08:39 09:20-09:41/21 09:45-10:13/28	07:27 08:26-08:47/21	06:10	05:46 18:46-19:47/61	04:41 18:59-19:30/31	04:22
	16:32 15:11-15:35/24	17:45	18:48	20:56	21:59	22:28
27	08:37 09:19-09:43/24 09:45-10:14/29	07:25 08:27-08:45/18	06:08	05:44 18:46-19:47/61	04:40 19:01-19:29/28	04:23
	16:34 15:11-15:35/24	17:47	18:50	20:58	22:00	22:27
28	08:35 09:19-09:44/25 09:46-10:14/28	07:22 08:30-08:44/14	06:05	05:41 18:45-19:46/61	04:38 19:03-19:28/25	04:24
	16:37 15:11-15:34/23	17:49	18:52	21:01	22:02	22:27
29	08:33 09:18-09:44/26 09:45-10:13/28		07:02	05:39 18:45-19:46/61	04:37 19:04-19:26/22	04:24
	16:39 15:12-15:34/22		19:54	21:03	22:04	22:27
30	08:31 09:18-09:45/27 09:46-10:13/27		06:59	05:36 18:45-19:47/62	04:35 19:06-19:25/19	04:25
	16:41 15:13-15:34/21		19:57	21:05	22:05	22:26
31	08:29 09:18-09:45/27 15:14-15:34/20		06:56		04:34 19:08-19:23/15	
	16:44 09:03-09:10/7 09:47-10:13/26		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	1580	1390	7	994	1397	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-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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 12 - Z16

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15 18:57-19:50/53	06:21 19:21-19:31/10	07:24	07:34 08:15-09:14/59	08:39 14:09-14:27/18 09:28-09:45/17
	22:26	21:41	20:23	18:59	16:38	15:43 14:56-14:59/3
2	04:27	05:17 18:56-19:50/54	06:23	07:27	07:36 08:16-09:14/58	08:41 14:10-14:29/19
	22:25	21:39	20:21	18:57	16:36	15:42 09:29-09:45/16
3	04:28	05:19 18:56-19:51/55	06:25	07:29	07:38 08:17-09:15/58	08:42 14:10-14:30/20
	22:25	21:37	20:18	18:54	16:33	15:41 09:30-09:44/14
4	04:29	05:21 18:56-19:52/56	06:27	07:31	07:40 08:18-09:15/57	08:44 14:10-14:30/20
	22:24	21:35	20:15	18:51	16:31	15:40 09:32-09:43/11
5	04:30	05:23 18:55-19:53/58	06:29	07:33	07:43 08:20-09:16/56	08:46 14:10-14:30/20
	22:23	21:32	20:12	18:48	16:29	15:39 09:34-09:42/8
6	04:31	05:25 18:55-19:53/58	06:31	07:35	07:45 08:22-09:16/54	08:48 11:09-11:15/6
	22:23	21:30	20:09	18:45	16:26 09:24-09:36/12	15:39 14:10-14:31/21
7	04:32	05:27 18:55-19:54/59	06:34	07:37	07:47 08:27-09:17/50 09:22-09:39/17	08:49 11:08-11:18/10
	22:22	21:28	20:07	18:43	16:24 14:53-14:57/4	15:38 14:11-14:31/20
8	04:33	05:30 18:54-19:54/60	06:36	07:40	07:50 08:48-09:16/28 14:49-15:00/11	08:51 11:08-11:20/12
	22:21	21:25	20:04	18:40	16:22 08:29-08:47/18 09:20-09:40/20	15:37 14:11-14:32/21
9	04:35	05:32 18:54-19:54/60	06:38	07:42	07:52 08:48-09:17/29 14:47-15:02/15	08:52 11:08-11:21/13
	22:20	21:23	20:01	18:37	16:20 08:29-08:45/16 09:20-09:42/22	15:37 14:11-14:32/21
10	04:36	05:34 18:54-19:55/61	06:40	07:44	07:54 08:49-09:17/28 14:47-15:04/17	08:53 11:07-11:22/15
	22:19	21:21	19:58	18:34	16:18 08:32-08:44/12 09:19-09:43/24	15:36 14:12-14:33/21
11	04:37 19:20-19:27/7	05:36 18:54-19:55/61	06:42	07:46	07:57 08:49-09:16/27 14:45-15:05/20	08:55 11:07-11:23/16
	22:17	21:18	19:56	18:32	16:16 08:34-08:41/7 09:18-09:43/25	15:36 14:13-14:34/21
12	04:39 19:17-19:31/14	05:38 18:54-19:55/61	06:44	07:48	07:59 08:50-09:16/26 09:18-09:45/27	08:56 11:07-11:24/17
	22:16	21:16	19:53	18:29	16:14 14:45-15:06/21	15:35 14:13-14:34/21
13	04:40 19:15-19:33/18	05:40 18:54-19:55/61	06:46	07:50 09:04-09:15/11	08:01 08:50-09:15/25 09:17-09:45/28	08:57 11:07-11:24/17
	22:15	21:13	19:50	18:26	16:12 14:44-15:06/22	15:35 14:13-14:34/21
14	04:42 19:13-19:34/21	05:42 18:53-19:54/61	06:48	07:53 09:01-09:17/16	08:03 08:51-09:15/24 09:18-09:46/28	08:58 11:08-11:26/18
	22:14	21:11	19:47	18:24	16:10 14:44-15:07/23	15:35 14:13-14:34/21
15	04:43 19:12-19:36/24	05:44 18:53-19:54/61	06:50	07:55 09:00-09:19/19	08:06 08:51-09:14/23 09:17-09:45/28	09:00 11:08-11:26/18
	22:12	21:08	19:44	18:21	16:08 14:43-15:07/24	15:35 14:14-14:36/22
16	04:45 19:10-19:37/27	05:47 18:53-19:54/61	06:53	07:57 08:58-09:19/21	08:08 08:53-09:14/21 09:17-09:46/29	09:01 11:08-11:27/19
	22:11	21:06	19:41	18:18	16:06 14:44-15:08/24	15:35 14:15-14:36/21
17	04:47 19:10-19:39/29	05:49 18:53-19:53/60	06:55	07:59 08:56-09:20/24	08:10 08:55-09:14/19 09:18-09:47/29	09:01 11:08-11:28/20
	22:09	21:03	19:39	18:16	16:04 14:43-15:08/25	15:35 14:15-14:36/21
18	04:48 19:08-19:40/32	05:51 18:53-19:53/60	06:57	08:02 08:56-09:21/25	08:12 08:55-09:12/17 09:18-09:47/29	09:02 11:09-11:28/19
	22:08	21:01	19:36	18:13 09:25-09:31/6	16:02 14:44-15:08/24	15:35 14:16-14:37/21
19	04:50 19:07-19:41/34	05:53 18:53-19:52/59	06:59	08:04 08:55-09:34/39	08:14 08:58-09:12/14 09:19-09:47/28	09:03 11:08-11:28/20
	22:06	20:58	19:33	18:10	16:00 14:44-15:08/24	15:35 14:15-14:37/22
20	04:52 19:07-19:43/36	05:55 18:54-19:52/58	07:01	08:06 08:55-09:37/42	08:17 09:00-09:09/9 09:18-09:47/29	09:04 11:09-11:29/20
	22:04	20:55	19:30	18:08	15:59 14:45-15:09/24	15:35 14:16-14:38/22
21	04:54 19:05-19:43/38	05:57 18:54-19:51/57	07:03	08:08 08:55-09:38/43	08:19 14:45-15:08/23	09:04 11:10-11:30/20
	22:03	20:53	19:27	18:05	15:57 09:19-09:48/29	15:36 14:17-14:38/21
22	04:55 19:05-19:44/39	05:59 18:55-19:50/55	07:05	08:11 08:55-09:39/44	08:21 14:46-15:09/23	09:05 11:10-11:30/20
	22:01	20:50	19:25	18:03	15:55 09:19-09:47/28	15:36 14:17-14:38/21
23	04:57 19:03-19:45/42	06:02 18:56-19:49/53	07:07	08:13 08:55-09:41/46	08:23 14:46-15:08/22	09:06 11:11-11:31/20
	21:59	20:48	19:22	18:00	15:54 09:20-09:47/27	15:37 14:17-14:38/21
24	04:59 19:03-19:46/43	06:04 18:56-19:48/52	07:09	08:15 08:55-09:44/49	08:25 14:47-15:09/22	09:06 11:11-11:31/20
	21:57	20:45	19:19	17:58	15:52 09:21-09:47/26	15:37 14:18-14:40/22
25	05:01 19:02-19:47/45	06:06 18:57-19:47/50	07:12	07:17 07:56-08:46/50	08:27 14:15-14:19/4 09:21-09:47/26	09:06 11:11-11:31/20
	21:56	20:42	19:16	16:55	15:51 14:48-15:08/20	15:38 14:19-14:40/21
26	05:03 19:02-19:48/46	06:08 18:58-19:46/48	07:14	07:20 07:56-08:47/51	08:29 14:12-14:21/9 09:23-09:47/24	09:07 11:12-11:31/19
	21:54	20:40	19:13	16:52	15:49 14:49-15:07/18	15:39 14:19-14:40/21
27	05:05 19:00-19:47/47	06:10 19:00-19:44/44	07:16	07:22 07:58-08:48/50	08:31 14:12-14:24/12 09:23-09:47/24	09:07 11:12-11:32/20
	21:52	20:37	19:11	16:50	15:48 14:50-15:06/16	15:40 14:19-14:41/22
28	05:07 19:00-19:48/48	06:12 19:01-19:43/42	07:18	07:24 07:59-08:49/50	08:33 14:11-14:25/14 09:24-09:46/22	09:07 11:13-11:32/19
	21:50	20:34	19:08	16:48	15:47 14:51-15:04/13	15:41 14:20-14:41/21
29	05:09 18:59-19:49/50	06:14 19:03-19:41/38	07:20	07:27 08:01-08:13/12 08:14-08:50/36	08:35 14:10-14:26/16 09:25-09:45/20	09:07 11:14-11:33/19
	21:48	20:31	19:05	16:45 08:56-09:08/12	15:45 14:52-15:02/10	15:42 14:21-14:42/21
30	05:11 18:59-19:50/51	06:17 19:06-19:38/32	07:22	07:29 08:04-08:09/5 08:13-08:49/36	08:37 14:10-14:27/17 09:26-09:45/19	09:07 11:14-11:32/18
	21:46	20:29	19:02	16:43 08:53-09:10/17	15:44 14:54-15:00/6	15:43 14:20-14:42/22
31	05:13 18:58-19:50/52	06:19 19:10-19:35/25		07:31 08:52-09:12/20		09:07 11:15-11:32/17
	21:43	20:26		16:40 08:14-08:50/36		15:44 14:21-14:43/22
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	743	1673	10	760	1878	1170

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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 13 - Z17

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	January	February	March	April	May	June
1	09:06 10:25-11:04/39	08:27 10:45-11:06/21 09:25-09:45/20	07:19 07:50-08:12/22 08:14-08:53/39	06:54 07:50-08:12/22	05:34	04:33
	15:45 09:50-10:21/31	16:46 15:16-15:44/28	17:52 16:22-16:44/22	20:01	21:07	22:09
2	09:06 10:26-11:05/39	08:25 10:47-11:03/16 09:26-09:44/18	07:17 07:48-08:52/64	06:51 07:51-08:10/19	05:31	04:31
	15:47 09:49-10:21/32	16:48 15:17-15:44/27	17:54 16:23-16:42/19	20:03	21:10	22:10
3	09:06 10:26-11:05/39	08:23 10:51-10:59/8 09:27-09:43/16	07:14 07:46-08:52/66	06:48 07:52-08:07/15	05:29	04:30
	15:48 09:48-10:21/33	16:51 15:19-15:44/25	17:56 16:26-16:38/12	20:05	21:12	22:12
4	09:05 10:26-11:05/39	08:21 15:19-15:42/23	07:11 07:45-08:51/66	06:45 07:55-08:02/7	05:26	04:29
	15:49 09:47-10:21/34	16:53 09:30-09:42/12	17:59	20:08	21:14	22:13
5	09:05 10:26-11:06/40	08:19 15:20-15:42/22	07:09 07:36-08:51/75	06:43	05:24	04:28
	15:51 09:47-10:23/36	16:55 09:33-09:38/5	18:01	20:10	21:16	22:14
6	09:04 10:28-11:07/39	08:16 15:21-15:40/19	07:06 07:33-08:50/77	06:40	05:22	04:27
	15:52 09:46-10:23/37	16:58	18:03	20:12	21:18	22:16
7	09:03 10:28-11:08/40	08:14 15:24-15:39/15	07:03 07:30-08:49/79	06:37	05:19	04:26
	15:54 09:45-10:24/39	17:00	18:05	20:14	21:20	22:17
8	09:03 10:27-11:08/41	08:12 15:27-15:37/10	07:01 07:28-08:47/79	06:34	05:17	04:25
	15:56 09:43-10:23/40	17:02	18:08	20:16	21:23	22:18
9	09:02 10:28-11:08/40	08:10	06:58 07:26-08:45/79	06:31	05:15	04:25
	15:57 09:44-10:24/40	17:05	18:10	20:19	21:25	22:19
10	09:01 10:28-11:09/41	08:07	06:55 07:26-08:44/78	06:29	05:12	04:24
	15:59 09:44-10:25/41	17:07	18:12	20:21	21:27	22:20
11	09:00 10:29-11:10/41	08:05 16:28-16:36/8	06:52 07:22-08:17/55	06:26	05:10	04:23
	16:01 09:44-10:26/42	17:10	18:15 08:20-08:42/22	20:23	21:29	22:21
12	08:59 10:29-11:10/41	08:03 16:25-16:38/13	06:49 07:16-08:16/60	06:23	05:08	04:23
	16:03 09:44-10:25/41	17:12	18:17 08:22-08:38/16	20:25	21:31	22:22
13	08:58 10:29-11:11/42	08:00 16:24-16:41/17	06:47 07:13-08:16/63	06:21	05:06	04:22
	16:04 09:45-10:26/41	17:14	18:19 08:28-08:31/3	20:28	21:33	22:23
14	08:57 10:29-11:11/42 15:20-15:23/3	07:58 16:22-16:43/21	06:44 07:11-08:15/64	06:18	05:04	04:22
	16:06 09:44-10:26/42	17:17	18:21	20:30	21:35	22:24
15	08:56 10:30-11:11/41 15:19-15:26/7	07:55 16:21-16:47/26	06:41 07:10-08:14/64	06:15	05:02	04:21
	16:08 09:45-10:27/42 09:34-09:37/3	17:19	18:23	20:32	21:37	22:25
16	08:54 10:30-11:11/41 15:18-15:28/10	07:53 16:20-16:47/27	06:38 07:08-08:13/65	06:12	05:00	04:21
	16:10 09:45-10:26/41 09:32-09:38/6	17:21 08:28-08:41/13	18:26	20:34	21:40	22:25
17	08:53 10:30-11:11/41 15:17-15:30/13	07:50 16:19-16:48/29	06:36 07:02-08:12/70	06:10	04:58	04:21
	16:12 09:45-10:26/41 09:30-09:39/9	17:24 08:25-08:44/19	18:28	20:36	21:42	22:26
18	08:52 10:31-11:12/41 15:17-15:34/17	07:48 16:19-16:49/30	06:33 06:59-08:10/71	06:07	04:56	04:21
	16:14 09:46-10:27/41 09:29-09:41/12	17:26 08:23-08:46/23	18:30	20:39	21:44	22:26
19	08:50 10:32-11:12/40 15:17-15:36/19	07:45 16:18-16:49/31	06:30 06:56-08:07/71	06:04	04:54	04:21
	16:17 09:46-10:27/41 09:27-09:42/15	17:28 08:21-08:48/27	18:32	20:41	21:46	22:27
20	08:49 10:32-11:12/40 15:16-15:38/22	07:43 16:17-16:49/32	06:27 06:53-08:05/72	06:02	04:52	04:21
	16:19 09:47-10:26/39 09:25-09:43/18	17:31 08:19-08:49/30	18:35	20:43	21:48	22:27
21	08:47 10:33-11:12/39 15:16-15:40/24	07:40 16:18-16:49/31	06:24 06:52-07:48/56	05:59	04:50	04:21
	16:21 09:47-10:26/39 09:23-09:43/20	17:33 08:18-08:51/33	18:37 07:51-08:01/10	20:45	21:49	22:27
22	08:46 10:33-11:12/39 15:15-15:41/26	07:38 16:17-16:49/32	06:22 06:51-07:46/55	05:56	04:48	04:21
	16:23 09:48-10:25/37 09:21-09:44/23	17:36 08:17-08:51/34	18:39	20:47	21:51	22:28
23	08:44 10:34-11:12/38 15:15-15:42/27	07:35 16:17-16:49/32	06:19 06:49-07:42/53	05:54	04:46	04:21
	16:25 09:48-10:25/37 09:21-09:44/23	17:38 08:16-08:52/36	18:41	20:50	21:53	22:28
24	08:42 10:34-11:12/38 15:15-15:42/27	07:33 16:17-16:48/31	06:16 06:49-07:35/46	05:51	04:45	04:21
	16:27 09:49-10:24/35 09:21-09:45/24	17:40 08:16-08:53/37	18:43	20:52	21:55	22:28
25	08:40 10:35-11:12/37 15:15-15:43/28	07:30 16:18-16:48/30	06:13 06:48-07:34/46	05:49	04:43	04:22
	16:30 09:50-10:22/32 09:21-09:45/24	17:43 08:15-08:53/38	18:46	20:54	21:57	22:28
26	08:39 10:36-11:11/35 15:15-15:44/29 09:21-09:46/25	07:27 16:18-16:47/29	06:10 06:47-07:32/45	05:46	04:41	04:22
	16:32 09:51-10:12/21 10:13-10:19/6	17:45 08:14-08:53/39	18:48	20:56	21:59	22:28
27	08:37 10:37-11:11/34 15:15-15:44/29	07:25 07:56-08:06/10 08:14-08:53/39	06:08 06:48-07:32/44	05:44	04:40	04:23
	16:34 09:53-10:12/19 09:22-09:46/24	17:47 16:19-16:46/27	18:50	20:59	22:01	22:28
28	08:35 10:39-11:11/32 15:15-15:44/29	07:22 07:53-08:10/17 08:14-08:53/39	06:05 06:48-07:30/42	05:41	04:38	04:23
	16:37 09:54-10:11/17 09:22-09:46/24	17:49 16:20-16:44/24	18:52	21:01	22:02	22:27
29	08:33 10:39-11:09/30 15:15-15:44/29		07:02 07:47-08:28/41	05:39	04:37	04:24
	16:39 09:55-10:09/14 09:22-09:45/23		19:54	21:03	22:04	22:27
30	08:31 10:41-11:08/27 15:16-15:44/28		06:59 07:48-08:25/37	05:36	04:35	04:25
	16:41 09:58-10:06/8 09:23-09:46/23		19:57	21:05	22:06	22:27
31	08:29 10:42-11:07/25 09:24-09:45/21		06:56 07:49-08:21/32		04:34	
	16:43 15:17-15:45/28		19:59		22:07	
Potential sun hours	227	262	365	429	515	539
Sum of minutes with flicker	2932	1189	1980	63	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:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG

WTG: 13 - Z17

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0,96	2,07	4,32	6,59	9,64	9,55	9,82	8,35	5,52	3,17	1,24	0,85

Operational time

0	1	Sum
4 076	4 076	8 152

	July	August	September	October	November	December
1	04:26	05:15	06:21	07:24 07:54-08:55/61	07:34	08:39 10:11-10:52/41
	22:26	21:41	20:23	18:59 09:03-09:15/12	16:38	15:43 09:27-10:08/41
2	04:27	05:17	06:23	07:27 07:57-08:55/58	07:36	08:41 10:11-10:52/41
	22:26	21:39	20:21	18:57 08:59-09:18/19	16:36	15:42 09:27-10:08/41
3	04:28	05:19	06:25	07:29 08:03-08:55/52	07:38 14:56-15:07/11	08:43 10:12-10:52/40
	22:25	21:37	20:18	18:54 08:56-09:20/24	16:33	15:41 09:28-10:08/40
4	04:29	05:21	06:27	07:31 08:04-09:23/79	07:40 14:53-15:09/16	08:44 10:12-10:53/41
	22:24	21:35	20:15	18:51	16:31	15:40 09:28-10:09/41
5	04:30	05:23	06:29	07:33 08:05-09:24/79	07:43 14:52-15:11/19	08:46 10:13-10:53/40
	22:23	21:32	20:12	18:48	16:29	15:39 09:30-10:09/39
6	04:31	05:25	06:31	07:35 08:05-09:24/79	07:45 14:50-15:12/22	08:48 10:13-10:52/39
	22:23	21:30	20:09	18:45	16:26 09:02-09:08/6	15:39 09:31-10:08/37
7	04:32	05:27	06:34	07:37 08:07-09:25/78	07:47 14:49-15:13/24	08:49 10:13-10:53/40
	22:22	21:28	20:07	18:43	16:24 08:59-09:12/13	15:38 09:33-10:09/36
8	04:33	05:30	06:36 07:51-07:57/6	07:40 08:10-09:26/76	07:50 10:20-10:29/9 08:58-09:14/16	08:51 10:14-10:54/40
	22:21	21:25	20:04	18:40	16:22 14:48-15:13/25	15:37 09:35-10:10/35
9	04:34	05:32	06:38 07:47-08:01/14	07:42 08:20-09:26/66	07:52 10:17-10:34/17 08:56-09:15/19	08:52 10:15-10:54/39
	22:20	21:23	20:01	18:37 08:13-08:19/6	16:20 14:48-15:14/26	15:37 09:37-10:10/33
10	04:36	05:34	06:40 07:44-08:03/19	07:44 08:20-09:26/66	07:54 10:15-10:37/22 08:56-09:16/20	08:54 10:15-10:54/39
	22:19	21:21	19:58	18:34 17:02-17:11/9	16:18 14:48-15:15/27	15:36 09:38-10:10/32
11	04:37	05:36	06:42 07:42-08:04/22	07:46 08:21-09:26/65	07:57 10:13-10:38/25 08:55-09:16/21	08:55 10:16-10:55/39
	22:18	21:18	19:56	18:32 16:58-17:14/16	16:16 14:47-15:15/28	15:36 09:40-10:11/31
12	04:39	05:38	06:44 07:40-08:05/25	07:48 08:23-09:26/63	07:59 10:12-10:40/28 14:48-15:16/28	08:56 10:16-10:55/39
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	22:15	21:13	19:50	18:26 16:54-17:17/23	16:12 09:27-09:41/14 08:54-09:17/23	15:35 09:42-10:11/29
14	04:42	05:42	06:48 07:38-08:18/40	07:53 08:26-08:41/15 08:46-09:25/39	08:03 10:10-10:43/33 14:48-15:16/28	08:58 10:18-10:56/38 11:25-11:27/2
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15	04:43	05:44	06:50 07:37-08:19/42	07:55 08:32-08:36/4 08:47-09:26/39	08:06 10:09-10:43/34 14:47-15:16/29	09:00 10:18-10:56/38 11:23-11:29/6
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	21:46	20:29	19:02	16:43	15:44 09:26-10:07/41	15:43 09:51-10:19/28
31	05:13	06:19		07:31 15:59-16:05/6		09:07 10:25-11:03/38
	21:43	20:26		16:40		15:44 09:50-10:19/29
Potential sun hours	538	474	386	321	241	207
Sum of minutes with flicker	0	0	1103	1888	2389	2250

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

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LV-1002 Riga
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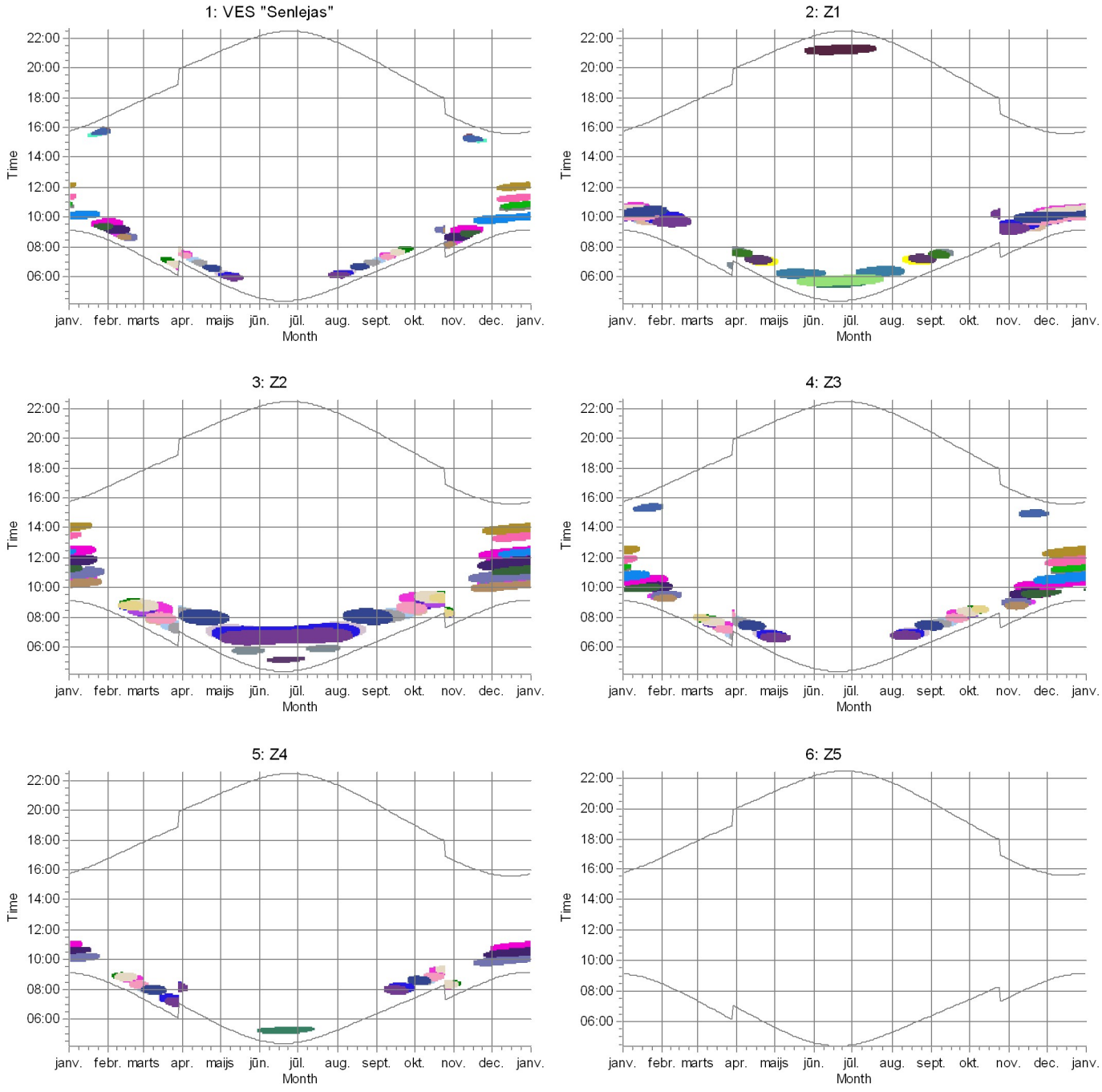
SIA Enviroprojekts
Calculated:
16.06.2025 07:24/4.1.287

SHADOW - Calendar per WTG, graphical



Shadow receptors

A: Aiviekstes	P: Drupas	AE: Kalnmalas	AU: Lojas	BH: Pavuli	BS: Stienu ž i	CC: Veckastani
B: Akmengravas	Q: Dundagas	AJ: Krusteici	AW: Mazkaleji	BJ: Pucites	BU: Sunuki	CE: Vecsilupites
C: Atputas	X: Jaunjeceni	AK: Krumini	BB: Me ž meiniki	BK: Raudupes	BW: Tamisari	CJ: Vejini
D: Ausekli	Y: Jaunkastanas	AL: Kudlei š i	BD: Norinas	BM: Saulkrasti	BX: Tomsoni	
K: Bezdeligas Ligzda	AA: Jaunterces	AP: Lapskalni	BF: Paegli	BP: Silveveri	BZ: Urgas	
O: Cerini 2	AC: Jaunupites	AQ: Leinieki	BG: Pavasari	BQ: Smilgas	CA: Vaverites	

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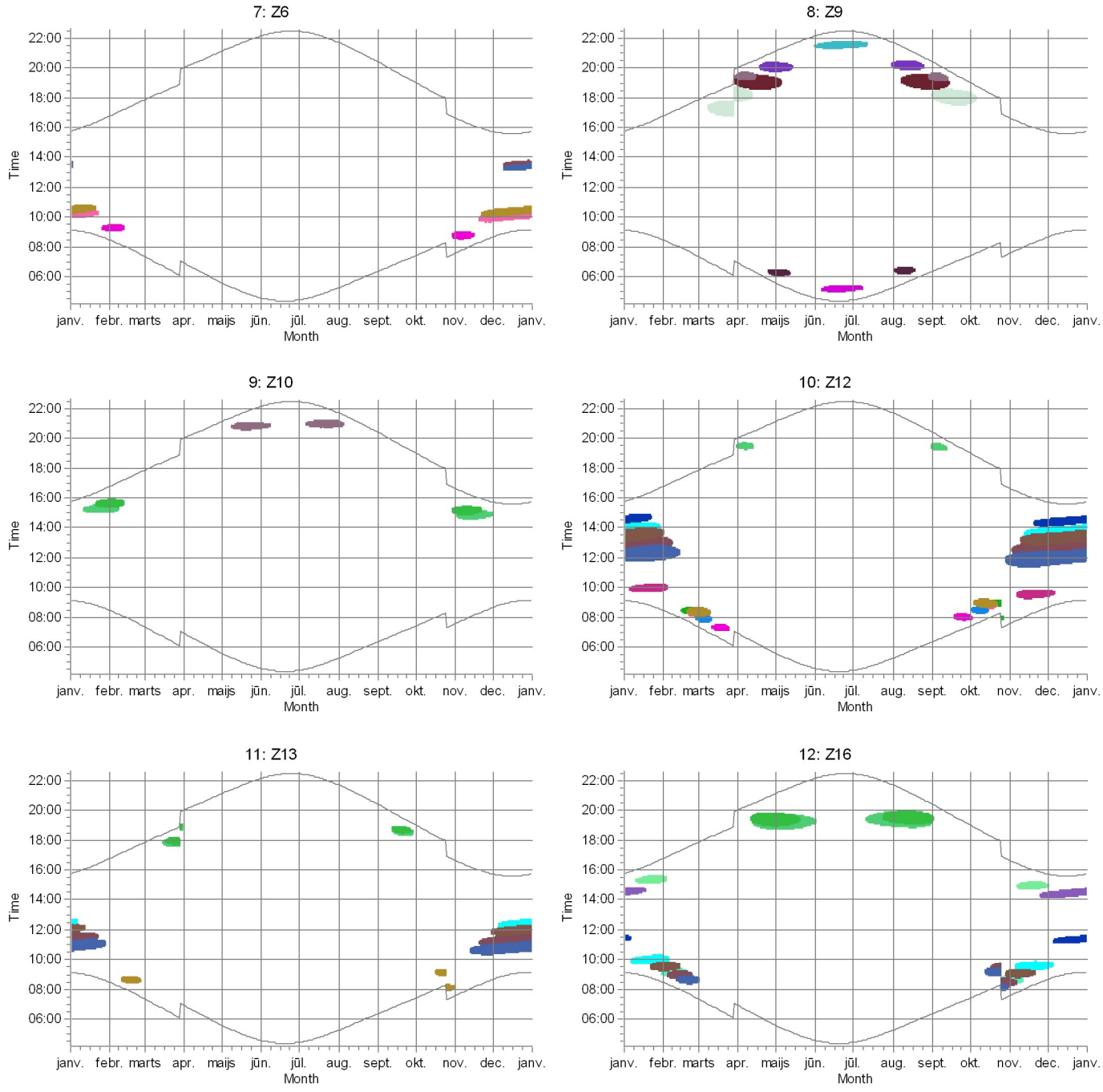
SHADOW - Calendar per WTG, graphical



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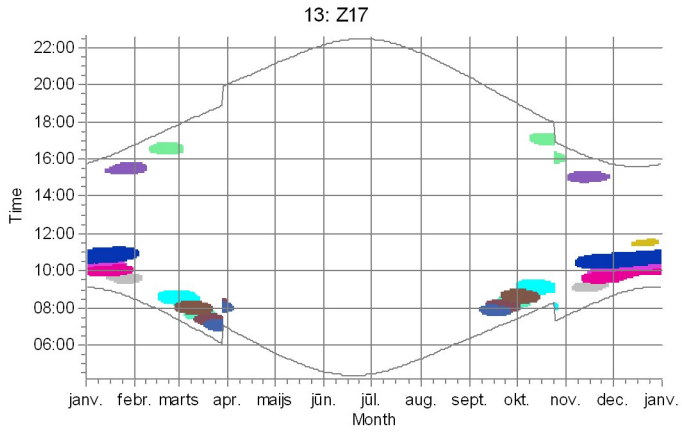
SHADOW - Calendar per WTG, graphical



Shadow receptors

L: Birztalinas	Z: Jaunspringi	AI: Krivas	BD: Norinas	BY: Tuiskas	CD: Vecmelderi
M: Birzuli	AD: Jemekli	AS: Lielspringi	BN: Silkaleji	CA: Vaverites	CE: Vecsilupites

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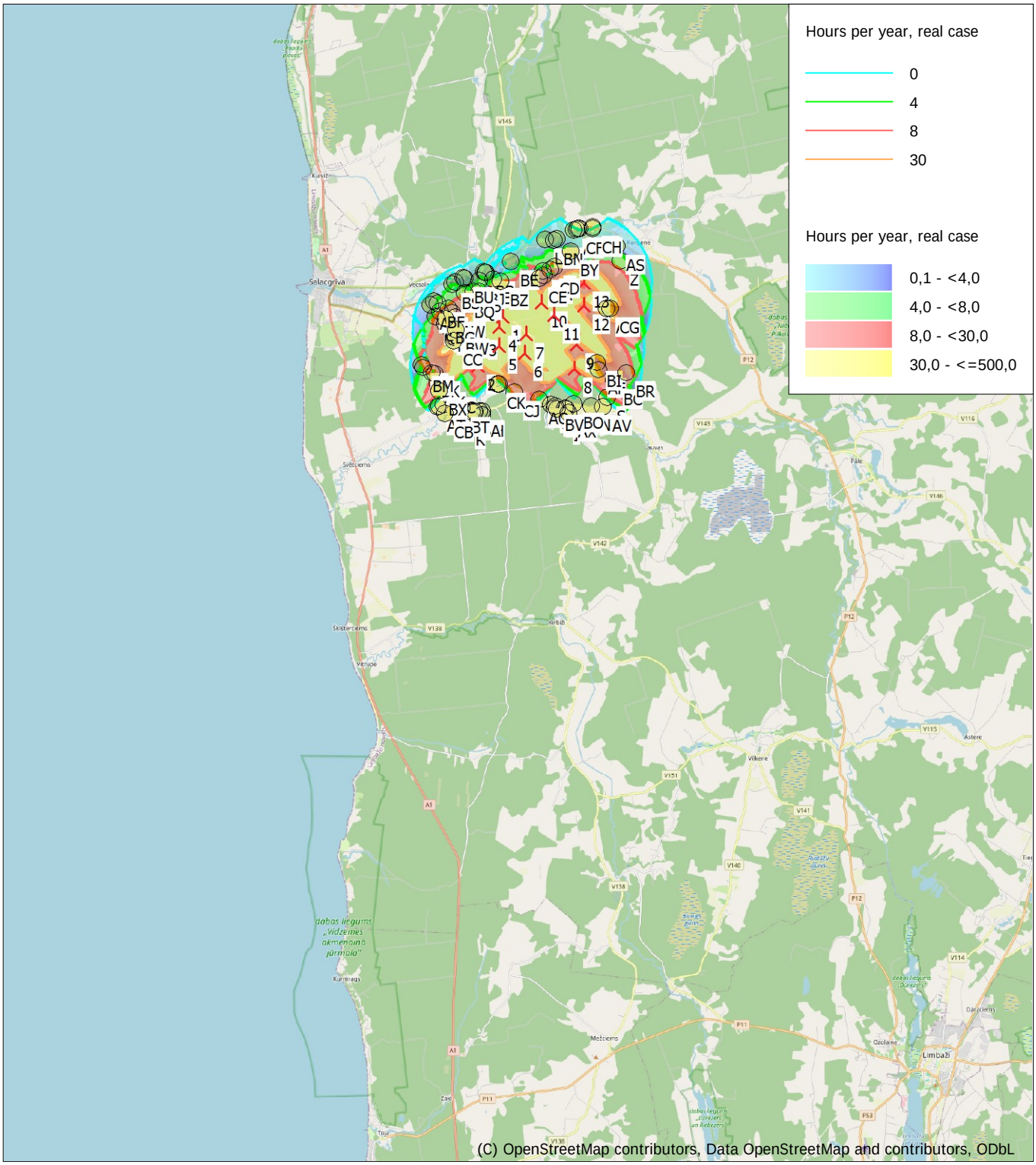
SHADOW - Map



Map: EMD OpenStreetMap , Print scale 1:200 000, Map center Latvian TM LKS92-LKS92 (LV) East: 528 700 North: 391 940

New WTG Shadow receptor

Flicker map level: Elevation Grid Data Object: ground.wpg (7)

Time step: 2 minutes, Day step: 3 days, Map resolution: 10 m, Visibility resolution: 5 m, Eye height: 1,5 m