

REGIONE BASILICATA
PROVINCIA DI POTENZA

Comune:
Melfi

Località "Isca della Ricotta di Sopra - Torre della Cisterna "/ Monte Cervaro

VARIANTE DEL PROGETTO EOLICO - 10 AEROGENERATORI
PROGETTO ORIGINARIO A 12 AEROGENERATORI AUTORIZZATO CON DECRETO
N.23AF.2016/D.00220 DEL 27/10/2016

Titolo elaborato:
STUDIO SUGLI EFFETTI DI SHADOW-FLICKERING

N. Elaborato: A.8

Scala: -

Committente

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Rev.	Data	Elaborazione	Approvazione	Emissione	DESCRIZIONE
00	GIUGNO 2018	AB sigla	AB sigla	VI sigla	RICHIESTA DI VARIANTE
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1. EVOLUZIONE DELL'OMBRA GENERATA DAGLI AEROGENERATORI

Le turbine eoliche, come altre strutture fortemente sviluppate in altezza, proiettano un'ombra sulle aree adiacenti in presenza della luce solare diretta. Per chi vive in tali zone prossime all'insediamento eolico può essere molto fastidioso il cosiddetto fenomeno del "flicker" che consiste in un effetto di lampeggiamento che si verifica quando le pale del rotore in movimento "tagliano" la luce solare in maniera intermittente. Una progettazione attenta a questa problematica permette di evitare questo spiacevole fenomeno semplicemente prevedendo il luogo di incidenza dell'ombra e disponendo le turbine in maniera tale che l'ombra sulle zone sensibili non superi un certo numero di ore all'anno.

Il grafico in figura riporta l'evoluzione annuale dell'ombra di una turbina considerando il caso peggiore di pale sempre in rotazione intorno al mozzo, e orientate sempre ortogonalmente al sole durante la sua evoluzione giornaliera.

Come è evidente dal grafico e dalla legenda le ore annue di ombra sono sempre minori con l'aumentare della distanza dal pilone secondo una particolare geometria dettata dalla posizione geografica; da osservare che l'ombra arriva a proiettarsi anche sino ad una distanza di 1 km, anche se solo per pochi minuti all'anno.

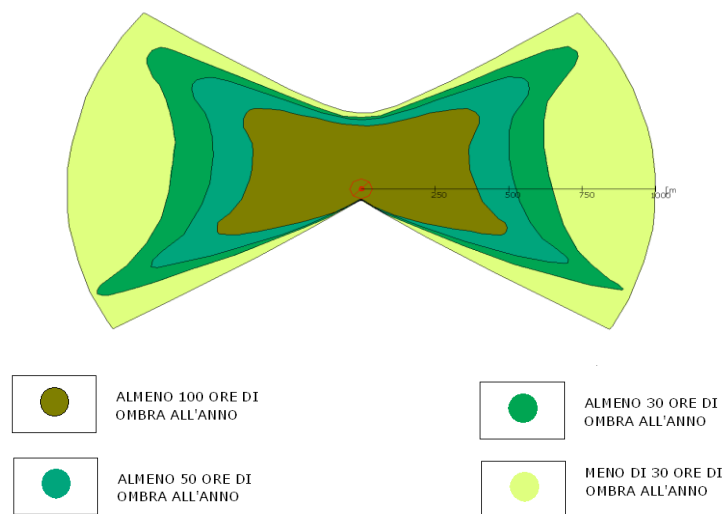


Figura 1: Evoluzione annuale tipo dell'ombra di una pala

In Italia, questo fenomeno è meno importante rispetto alle latitudini più settentrionali (come Danimarca, Germania) perché l'altezza media del sole è più elevata e, inversamente, la zona d'influenza è più ridotta.

Sono soprattutto le zone situate ad est o ad ovest degli impianti eolici che sono più suscettibili a subire questi fenomeni all'alba ed al tramonto. E' possibile stimare questi fenomeni tramite degli appositi software.

In Italia e nel mondo non esiste alcuna norma o regolamento che regoli questo aspetto a livello nazionale.

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2. IL CASO STUDIO

Oggetto della presente relazione è la stima del fenomeno dello shadow-flickering relativo alla variante non sostanziale del progetto d'impianto eolico previsto nel territorio del Comune di Melfi in località Monte Cervaro Autorizzato con Determinazione Dirigenziale n. 150C.2014/D.000585 del 20/06/2014 emanato dalla Regione Basilicata e successiva presa d'atto per variante non sostanziale con Determinazione Dirigenziale n. 23AF.2016/D.00220 del 27/10/2016.

Nella proposta di variante non sostanziale si prevede l'installazione dei seguenti 10 aerogeneratori di potenza installata complessiva è pari a 34 MW.

Sul territorio del comune di Melfi e, in particolare, in prossimità delle aree ove si prevede l'installazione delle turbine di progetto, sono attualmente altri impianti eolici (Parco Eolico della società Breathe srl e Parco Eolico della società Alfa Wind), per cui si verificano effetti di cumulo che sono stati considerati nel presente studio.

Le aree interessate dall'intervento sono caratterizzate da basso grado di urbanizzazione. L'urbanizzazione è costituita da poche case sparse, masserie, depositi, cascine. Di fatto, non tutti i fabbricati hanno le caratteristiche di edificio (inteso come "costruzione duratura, stabile, che serve per l'abitazione oppure per il lavoro, la formazione, la cultura o lo sport") o permettono la permanenza persone o lo svolgimento di attività antropiche. Per tanto, ai fini della valutazione degli impatti indotti dall'impianto eolico di progetto e, in particolare, dell'effetto di flickering/ombreggiamento, sono stati individuati i soli "recettori sensibili" costituiti da abitazioni così come definite dal PIEAR vigente.

Per il dettaglio sui "recettori" sensibili, si rimanda all'elaborato grafico (cfr. *A.16.b.1.1.1e alla relazione A6*). Restano quindi fuori calcolo i recettori che non presentano caratteristiche di abitazione (ad esempio opifici, ruderi, resti di case distrutte etc..).

3. IPOTESI DI CALCOLO

Al fine di stimare l'effetto di ombreggiamento indotto dall'impianto eolico di progetto, è stato effettuato il calcolo nell'ipotesi di "condizioni più sfavorevoli" (worst case)

Le ipotesi più restrittive prevedono che:

- il sole risplende per tutta la giornata dall'alba al tramonto (cioè si è sempre in assenza di copertura nuvolosa);
- il piano di rotazione delle pale è sempre perpendicolare alla linea che passa per il sole e per l'aerogeneratore (l'aerogeneratore "insegue" il sole);
- l'aerogeneratore è sempre operativo;
- il recettore stesso è considerato completamente finestrato su tutti i suoi lati (green house mode); inoltre, nel calcolo non sono stati considerati gli eventuali ostacoli che potrebbero intercettare l'ombra generata dalle pale (filari alberi, muri perimetrali alle masserie, ecc.), tenendo conto esclusivamente della sola orografia.

Data l'assenza di una normativa di settore in Italia, si è assunto come limite di buona progettazione il rispetto di 100 ore/anno di flickering, limite rilevato anche da esperienze pregresse maturate su numerosi studi

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effettuati nel settore eolico.

Anche limiti superiori a tale limite possono comunque essere accettabili date le condizioni di stima adottate, e valutando poi nella fattispecie le particolari condizioni su ogni recettore.

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4. ANALISI DEI RISULTATI PER IMPIANTO DI PROGETTO E TURBINE ESISTENTI (EFFETTO CUMULATIVO)

A seguire si riporta la sintesi dei risultati con riferimento alle ipotesi di calcolo richiamate nel paragrafo precedente per le sole turbine di progetto considerando gli effetti di cumulo con altri impianti esistenti .

Con riferimento alle ipotesi di calcolo richiamate nel paragrafo precedente è stato valutato per le turbine di progetto e per quelle esistenti relative agli impianti che insistono nello stesso areale delle torri di progetto.

5.1 Worst Case

Con riferimento a tale condizione, i risultati, dettagliatamente riportati nell'allegato "**Main Result**", hanno evidenziato che nessun recettore supera il limite delle 100 ore di ombreggiamento anno. Il recettore più sollecitato riceve al più 79.05 ore/anno (recettore F03).

Nello stesso report, è indicata, per ogni aerogeneratore, la durata totale di ombreggiamento annuo generata sui recettori. In particolare la torre che genera maggiore ombreggiamento è la torre indicata M01, che genera complessive 136:56 ore di flickering all'anno sui recettori prossimi al sito d'impianto torre di progetto).

Dalla lettura del "**Calendar**", è possibile leggere giorno per giorno, per tutto l'anno e per singolo recettore, la durata giornaliera del fenomeno, l'orario di inizio e di fine del fenomeno e l'aerogeneratore, o gli aerogeneratori, responsabili dello stesso.

Con riferimento al recettore F03, dal "**Calendar**" si desume che il recettore riceve ombreggiamento durante tutti i mesi dell'anno. Il picco è stimato nel mese di aprile con 881 minuti complessivi. Su tale report si possono, altresì, ottenere informazioni circa:

- i giorni in cui il fenomeno del flickering è maggiormente presente
(per il recettore F03 sono i giorni dal 23 al 25 aprile 58 min .al giorno);
- per ogni giorno dell'anno, l'aerogeneratore con il quale inizia il fenomeno del flickering e quello con il quale termina
(sul recettore F03 ,il 25 aprile inizia con M08 e finisce con M09)
- l'ora di inizio e l'ora di fine del fenomeno e, quindi, la durata giornaliera in minuti del fenomeno
(per il recettore F03 la massima durata giornaliera di ombreggiamento è di 58min. al giorno ad esempio il 23 aprile);

Oltre al **Calendar**, è stato stilato anche il report **Calendar per WTG** sul quale viene riportato, per ogni aerogeneratore e per ogni giorno dell'anno, l'orario in cui lo stesso inizia a generare ombreggiamento e quello in cui il fenomeno cessa, oltre alla durata complessiva giornaliera.

In particolare, con riferimento all'aerogeneratore M01, che tra tutti è quello che genera maggior ombreggiamento si leggono le seguenti informazioni:

- l'aerogeneratore M01 genera flickering tutti i mesi ;
- il fenomeno risulta essere maggiormente evidente nel mese gennaio;
- la massima durata giornaliera di induzione del fenomeno è di 46 minuti che si verifica ad esempio il giorno 6 marzo;

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I risultati delle suddette elaborazioni sono riportati in formato grafico, rispettivamente, nei report “**Calendar, graphical**” e “**Calendar per WTG, graphical**”.

Infine, si allega la Mappa (report “**Map – Worst case**”) in cui vengono indicate, con diverse gradazioni di colore, le zone soggette ad una determinata durata del fenomeno dell’ombreggiamento oltre all’estensione areale nella quale il fenomeno risulta significativo.

6 CONSIDERAZIONI CONCLUSIVE

E’ stato verificato l’effetto di ombreggiamento indotto dall’impianto eolico di progetto e dagli impianti esistenti, sui recettori ricadenti in prossimità del sito d’impianto. Le simulazioni sono state effettuate grazie all’ausilio del software Windpro della EMD considerando la doppia ipotesi di “condizioni sfavorevoli” (worst case).

Nonostante si abbiano incrementi del fenomeno di ombreggiamento considerando l’effetto cumulativo, si osserva che gli stessi sono tali da non superare in ogni caso il limite delle 100 ore /anno (limite rilevato anche da esperienze pregresse maturate su numerosi studi effettuati nel settore eolico). In entrambi i casi, si sottolinea che i risultati sono ampiamente cautelativi, in quanto nei calcoli, sono stati esclusi tutti gli eventuali ostacoli che potrebbero intercettare l’ombra generata dalle pale (filari alberi, muri perimetrali alle masserie, ecc...), tenendo conto della sola orografia.

Come discusso nel presente studio, i limiti di ombreggiamento sono ampiamente soddisfatti.

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6. ALLEGATI

IMPIANTO DI PROGETTO ED ESISTENTI (CUMULATIVO)

- **Main result:** quadro sintetico dei risultati di calcolo (con risultati relativi a “worst case”);
- **Calendar :** Riporta i minuti d’ombra per ogni giorno dell’ anno e l’intervallo in cui esse si verificano, su ogni recettore (con risultati relativi a “worst case”)
- **;Calendar Graphical:** Visualizzazione grafica dell’ allegato Calendar (con risultati relativi a “worst case”);
- **Calendar per Wtg:** Riporta i minuti d’ombra per ogni giorno dell’ anno e l’intervallo in cui esse si verificano, prodotti da ogni pala (con risultati relativi a “worst case”);
- **Calendar per Wtg graphical:** Visualizzazione grafica dell’ allegato Calendar per Wtg (con risultati relativi a “worst case”);
- **Map:** mappa delle aree soggette ad ombreggiamento (con risultati relativi a “worst case”);

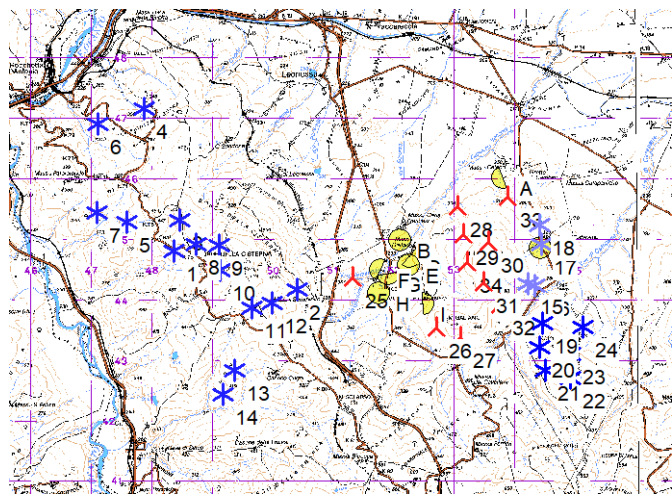
SHADOW - Main Result

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
- The calculated times are "worst case" given by the following assumptions:
 - The sun is shining all the day, from sunrise to sunset
 - The rotor plane is always perpendicular to the line from the WTG to the sun
 - The WTG is always operating

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:

- Height contours used: DTM
- Obstacles used in calculation
- Eye height: 1,7 m
- Grid resolution: 10 m



Scale 1:125.000
 ^ New WTG * Existing WTG ☺ Shadow receptor

WTGs

UTM WGS84 Zone: 33				WTG type		Shadow data					
East	North	Z	Row data/Description	Valid	Manufact.	Type-generator	Power, [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM [RPM]
UTM WGS84 Zone: 33			[m]								
1	548.358	4.544.808	509,1 A01	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
2	550.395	4.544.163	477,0 A03	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
3	548.458	4.545.309	525,0 A06	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
4	547.864	4.547.166	340,3 A07	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
5	547.575	4.545.275	406,7 A10	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
6	547.100	4.546.911	315,0 A11	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
7	547.096	4.545.432	387,1 A12	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
8	548.723	4.544.917	548,6 A15	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
9	549.109	4.544.896	600,0 A16	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
10	549.121	4.544.480	571,9 A17	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
11	549.659	4.543.862	576,2 A18	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
12	549.992	4.543.942	575,0 A19	Yes		V117 3.3-3.300	3.300	117,0	116,5	1.710	17,7
13	549.359	4.542.827	455,1 A21	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
14	549.166	4.542.433	400,1 A22	No		V126-3.300	3.300	126,0	117,0	1.710	12,8
15	554.222	4.544.269	340,4 LGH01	No		-80	80	18,0	32,0	2.000	120,0
16	554.327	4.544.231	324,1 LGH02	No		-80	80	18,0	32,0	2.000	120,0
17	554.437	4.544.917	312,5 Aria01	No		-55	55	18,0	28,0	2.000	0,0
18	554.411	4.545.232	291,8 Aria02	No		-55	55	18,0	28,0	2.000	0,0
19	554.461	4.543.608	346,2 Edpr01	Yes		G132-3.300	3.300	132,0	84,0	2.000	12,0
20	554.410	4.543.212	393,5 Edpr02	Yes		G132-3.300	3.300	132,0	84,0	2.000	12,0
21	554.499	4.542.826	436,0 Edpr03	Yes		G132-3.300	3.300	132,0	84,0	2.000	12,0
22	554.910	4.542.702	437,6 Edpr04	Yes		G132-3.300	3.300	132,0	84,0	2.000	12,0
23	554.911	4.543.098	400,5 Edpr05	Yes		G132-3.300	3.300	132,0	84,0	2.000	12,0
24	555.123	4.543.554	336,8 Edpr06	Yes		G132-3.300	3.300	132,0	84,0	2.000	12,0
25	551.325	4.544.360	366,0 M01	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
26	552.702	4.543.538	409,6 M04	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
27	553.109	4.543.372	420,0 M05	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
28	553.051	4.545.535	287,7 M06	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
29	553.148	4.545.072	360,0 M07	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
30	553.562	4.544.951	400,2 M08	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
31	553.485	4.544.275	444,8 M09	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
32	553.763	4.543.910	383,2 M10	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
33	553.883	4.545.691	285,0 M11	Yes		3.4M 144-3.400	3.400	144,0	108,0	1.758	0,0
34	553.217	4.544.614	413,6 M12	Yes		3.4M122-3.400	3.400	122,0	114,5	1.723	11,2

SHADOW - Main Result

Shadow receptor-Input

No.	Name	UTM WGS84 Zone: 33			Width	Height	Height a.g.l.	Degrees from south cw	Slope of window	Direction mode
		East	North	Z						
		[m]	[m]	[m]						
A	F01	553.807	4.546.019	256,2	1,0	1,0	0,0	-111,2	90,0	Fixed direction
B	F02	552.100	4.544.981	300,0	1,0	1,0	0,0	0,0	90,0	"Green house mode"
C	F03	554.422	4.544.846	315,0	1,0	1,0	0,0	0,0	90,0	"Green house mode"
D	F04	552.258	4.544.710	285,0	1,0	1,0	0,0	-230,1	90,0	Fixed direction
E	F05	552.248	4.544.572	295,8	1,0	1,0	0,0	0,0	90,0	"Green house mode"
F	F07	551.778	4.544.484	303,9	1,0	1,0	0,0	-66,0	90,0	Fixed direction
G	F08	551.908	4.544.426	300,2	1,0	1,0	0,0	-187,5	90,0	Fixed direction
H	F10	551.754	4.544.105	315,0	1,0	1,0	0,0	0,0	90,0	"Green house mode"
I	F11	552.482	4.543.926	337,9	1,0	1,0	0,0	86,3	90,0	Fixed direction

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case		
		Shadow hours per year	Shadow days per year	Max shadow hours per day
		[h/year]	[days/year]	[h/day]
A	F01	21:50	86	0:18
B	F02	96:22	261	0:35
C	F03	79:05	194	0:58
D	F04	18:36	44	0:33
E	F05	68:51	162	1:01
F	F07	59:53	176	0:40
G	F08	59:40	156	0:45
H	F10	49:46	121	0:41
I	F11	26:16	76	0:29

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

No.	Name	Worst case	Expected
		[h/year]	[h/year]
1	A01	0:00	
2	A03	8:10	
3	A06	0:00	
4	A07	0:00	
5	A10	0:00	
6	A11	0:00	
7	A12	0:00	
8	A15	0:00	
9	A16	0:00	
10	A17	0:00	
11	A18	0:00	
12	A19	0:00	
13	A21	0:00	
14	A22	0:00	
15	LGH01	0:00	
16	LGH02	0:00	
17	Aria01	0:00	
18	Aria02	0:00	
19	Edpr01	0:00	
20	Edpr02	0:00	
21	Edpr03	0:00	
22	Edpr04	0:00	
23	Edpr05	0:00	
24	Edpr06	0:00	
25	M01	136:56	
26	M04	27:23	
27	M05	24:29	
28	M06	20:41	
29	M07	63:27	

To be continued on next page...

SHADOW - Main Result

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
30	M08	57:58	
31	M09	50:33	
32	M10	7:58	
33	M11	21:50	
34	M12	55:15	

SHADOW - Calendar

Shadow receptor: B - F02

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June					
1	07:23 16:40	15:29 (25) 17:14	07:10 21	15:42 (25) 17:48	06:34 21	07:22 (34) 19:22	06:43 22	07:19 (30) 19:54	05:57 19:57	05:28 4	05:50 (28) 05:54 (28)
2	07:23 16:40	15:29 (25) 17:15	07:09 18	15:44 (25) 17:49	06:32 23	07:20 (34) 19:23	06:41 21	07:19 (30) 19:55	05:56 19:55	05:28 6	05:49 (28) 05:55 (28)
3	07:23 16:41	15:29 (25) 17:16	07:08 13	15:47 (25) 17:50	06:31 24	07:20 (34) 19:24	06:40 20	07:19 (30) 19:56	05:55 19:56	05:28 7	05:49 (28) 05:56 (28)
4	07:23 16:42	15:29 (25) 17:18	07:07 7	15:50 (31) 17:51	06:29 23	07:20 (34) 19:25	06:38 28	07:11 (29) 19:57	05:53 19:57	05:27 9	05:49 (28) 05:58 (28)
5	07:23 16:43	15:29 (25) 17:19	07:06 13	15:52 (31) 17:53	06:28 23	07:20 (34) 19:26	06:37 30	07:07 (29) 19:58	05:52 19:58	05:27 10	05:49 (28) 05:59 (28)
6	07:23 16:44	15:29 (25) 17:20	07:05 15	15:55 (31) 17:54	06:26 23	07:20 (34) 19:27	06:35 29	07:05 (29) 19:59	05:51 19:59	05:26 11	05:48 (28) 05:59 (28)
7	07:23 16:45	15:29 (25) 17:21	07:04 18	15:58 (31) 17:55	06:24 21	07:20 (34) 19:28	06:33 27	07:04 (29) 20:00	05:50 20:00	05:26 12	05:48 (28) 06:00 (28)
8	07:23 16:46	15:29 (25) 17:23	07:02 19	16:00 (31) 17:56	06:23 20	07:21 (34) 19:29	06:32 26	07:02 (29) 20:01	05:49 20:01	05:26 13	05:48 (28) 06:01 (28)
9	07:23 16:47	15:30 (25) 17:24	07:01 21	16:01 (31) 17:57	06:21 18	07:21 (34) 19:31	06:30 28	07:00 (29) 20:02	05:47 20:02	05:26 13	05:48 (28) 06:01 (28)
10	07:23 16:48	15:30 (25) 17:25	07:00 21	16:02 (31) 17:58	06:20 15	07:22 (34) 19:32	06:28 29	07:28 (29) 20:03	05:46 20:03	05:26 14	05:47 (28) 06:01 (28)
11	07:23 16:49	15:29 (25) 17:26	06:59 22	16:03 (31) 17:59	06:18 10	07:23 (34) 19:33	06:27 31	06:58 (29) 20:04	05:45 20:04	05:25 15	05:47 (28) 06:02 (28)
12	07:22 16:50	15:30 (25) 17:28	06:58 21	16:04 (31) 18:00	06:16 19	07:35 (34) 19:33	06:25 31	06:58 (29) 20:05	05:44 20:05	05:25 15	05:47 (28) 06:02 (28)
13	07:22 16:51	15:31 (25) 17:29	06:56 21	16:05 (31) 18:02	06:15 20	07:43 (31) 19:34	06:15 32	06:57 (29) 20:06	05:43 20:06	05:25 15	05:47 (28) 06:02 (28)
14	07:22 16:52	15:30 (25) 17:30	06:55 20	16:06 (31) 18:03	06:13 10	07:44 (31) 19:35	06:13 31	06:58 (29) 20:07	05:42 20:07	05:25 16	05:47 (28) 06:03 (28)
15	07:21 16:53	15:31 (25) 17:31	06:54 20	16:07 (31) 18:04	06:11 19	07:43 (31) 19:37	06:11 31	06:57 (29) 20:08	05:41 20:08	05:25 16	05:47 (28) 06:03 (28)
16	07:21 16:55	15:31 (25) 17:32	06:53 19	16:08 (31) 18:05	06:10 19	07:44 (31) 19:38	06:10 30	06:58 (29) 20:09	05:40 20:09	05:25 17	05:47 (28) 06:04 (28)
17	07:21 16:56	15:31 (25) 17:34	06:51 16	16:09 (31) 18:06	06:08 16	07:46 (31) 19:39	06:08 30	06:57 (29) 20:10	05:39 20:10	05:25 17	05:47 (28) 06:04 (28)
18	07:20 16:57	15:31 (25) 17:35	06:50 12	16:10 (31) 18:07	06:06 12	07:47 (31) 19:40	06:06 29	06:58 (29) 20:11	05:38 20:11	05:25 17	05:48 (28) 06:05 (28)
19	07:20 16:58	15:32 (25) 17:36	06:48 7	16:11 (31) 18:08	06:05 7	07:59 (31) 19:41	06:05 27	06:58 (29) 20:12	05:37 20:12	05:25 17	05:48 (28) 06:05 (28)
20	07:19 16:59	15:32 (25) 17:37	06:47 35	16:12 (31) 18:09	06:03 26	07:57 (31) 19:42	06:03 26	06:59 (29) 20:13	05:36 20:13	05:25 17	05:48 (28) 06:05 (28)
21	07:18 17:00	15:32 (25) 17:39	06:46 35	16:13 (31) 18:10	06:01 24	07:58 (31) 19:43	06:01 24	06:59 (29) 20:14	05:36 20:14	05:26 17	05:48 (28) 06:05 (28)
22	07:18 17:02	15:33 (25) 17:40	06:44 35	16:14 (31) 18:11	06:00 21	07:59 (31) 19:44	06:00 21	07:23 (29) 20:15	05:35 20:15	05:26 17	05:48 (28) 06:05 (28)
23	07:17 17:03	15:34 (25) 17:41	06:43 34	16:15 (31) 18:12	05:58 18	07:59 (31) 19:45	05:58 18	07:01 (29) 20:16	05:34 20:16	05:26 17	05:48 (28) 06:05 (28)
24	07:16 17:04	15:34 (25) 17:42	06:41 33	16:16 (31) 18:13	05:56 6	07:59 (31) 19:46	05:56 13	07:19 (29) 20:17	05:33 20:17	05:26 17	05:49 (28) 06:06 (28)
25	07:16 17:05	15:34 (25) 17:43	06:40 9	16:17 (34) 18:15	05:55 12	07:37 (34) 19:48	05:55 5	07:07 (29) 20:18	05:33 20:18	05:27 17	05:49 (28) 06:06 (28)
26	07:15 17:06	15:35 (25) 17:44	06:38 14	16:18 (34) 18:16	05:53 17	07:25 (34) 19:49	05:53 17	06:24 (30) 20:19	05:32 20:19	05:27 17	05:49 (28) 06:06 (28)
27	07:14 17:08	15:37 (25) 17:46	06:37 17	16:19 (34) 18:17	05:51 19	07:39 (34) 19:50	05:51 19	06:41 (30) 20:20	05:31 20:20	05:27 16	05:50 (28) 06:06 (28)
28	07:13 17:09	15:37 (25) 17:47	06:35 20	16:20 (34) 18:18	05:50 20	07:22 (34) 19:51	05:50 20	06:21 (30) 20:21	05:31 20:21	05:28 16	05:50 (28) 06:06 (28)
29	07:13 17:10	15:38 (25) 17:48	06:34 28	16:21 (34) 18:19	05:48 21	07:21 (30) 19:52	05:48 21	06:41 (30) 20:22	05:30 20:22	05:28 16	05:51 (28) 06:07 (28)
30	07:12 17:11	15:39 (25) 17:49	06:33 26	16:22 (34) 18:20	05:46 22	07:20 (30) 19:53	05:46 22	06:42 (30) 20:23	05:29 20:23	05:28 15	05:51 (28) 06:06 (28)
31	07:11 17:13	15:41 (25) 18:05 (25)		06:45 19:21	06:45 22	07:19 (30) 07:41 (30)		05:29 20:23	05:29 05:52 (28)		05:50 (28) 05:52 (28)
Potential sun hours	297	297	369	360	399	639	448	452	426		
Total, worst case	978	384	360	639	2						

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

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

SHADOW - Calendar

Shadow receptor: B - F02

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes
 The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	July	August	September	October	November	December
1	05:29 20:34	05:52 (28) 20:15	06:24 19:32	06:57 (29) 18:42	06:54 16:55	07:12 (31) 16:31
2	05:29 20:34	05:52 (28) 20:14	06:25 19:31	06:58 (29) 18:40	08:06 (34) 16:29	07:13 (31) 16:30
3	05:30 20:34	05:53 (28) 20:13	06:26 19:29	06:58 (29) 18:38	08:02 (34) 16:30	07:14 (31) 16:30
4	05:30 20:34	05:53 (28) 20:12	06:27 19:27	06:59 (29) 18:37	08:00 (34) 16:31	07:14 (31) 16:30
5	05:31 20:34	05:54 (28) 20:11	06:28 19:26	07:00 (29) 18:35	07:58 (34) 16:30	07:15 (31) 16:30
6	05:32 20:33	05:54 (28) 20:10	06:29 19:24	07:01 (29) 18:33	07:57 (34) 16:29	07:18 (31) 16:30
7	05:32 20:33	05:55 (28) 20:08	06:30 19:22	07:02 (29) 18:32	07:56 (34) 16:28	07:20 (31) 16:30
8	05:33 20:33	05:55 (28) 20:07	06:31 19:21	07:05 (29) 18:30	07:55 (34) 16:27	15:17 (25) 16:29
9	05:33 20:32	05:56 (28) 20:06	06:32 19:19	07:13 (30) 18:28	07:54 (34) 16:26	15:15 (25) 16:29
10	05:34 20:32	05:57 (28) 20:05	06:33 19:17	07:12 (30) 18:27	07:54 (34) 16:25	15:13 (25) 16:29
11	05:35 20:32	05:57 (28) 20:03	06:34 19:16	07:11 (30) 18:25	07:54 (34) 16:24	15:12 (25) 16:30
12	05:36 20:31	05:58 (28) 20:02	06:35 19:14	07:11 (30) 18:24	07:54 (34) 16:23	15:10 (25) 16:30
13	05:36 20:31	05:59 (28) 20:01	06:36 19:12	07:11 (30) 18:22	07:55 (34) 16:22	15:09 (25) 16:30
14	05:37 20:30	06:00 19:59	06:37 19:11	07:11 (30) 18:21	07:56 (34) 16:21	15:09 (25) 16:30
15	05:38 20:30	06:07 19:58	06:37 19:09	07:11 (30) 18:19	07:57 (34) 16:20	15:08 (25) 16:30
16	05:39 20:29	06:08 19:57	06:38 19:07	07:11 (30) 18:17	07:58 (34) 16:19	15:09 (25) 16:30
17	05:39 20:28	06:09 19:55	06:39 19:05	07:12 (30) 18:16	08:02 (34) 16:18	15:08 (25) 16:31
18	05:40 20:28	06:10 19:54	06:40 19:04	07:13 (30) 18:14	08:07 (34) 16:18	15:08 (25) 16:31
19	05:41 20:27	06:11 19:52	06:41 19:02	07:16 (30) 18:13	08:13 (34) 16:17	15:08 (25) 16:31
20	05:42 20:26	06:12 19:51	06:42 19:00	07:14 18:11	08:14 (34) 16:16	15:08 (25) 16:32
21	05:43 20:26	06:13 19:49	06:43 18:59	07:15 18:10	08:15 (34) 16:15	15:08 (25) 16:32
22	05:44 20:25	06:14 19:48	06:44 18:57	07:16 18:08	08:16 (34) 16:14	15:08 (25) 16:33
23	05:44 20:24	06:15 19:46	06:45 18:55	07:17 18:07	08:18 (31) 16:13	15:08 (25) 16:33
24	05:45 20:23	06:16 19:45	06:46 18:54	07:19 18:06	08:28 (31) 16:13	15:08 (25) 16:34
25	05:46 20:22	06:17 19:43	06:47 18:52	07:19 18:04	08:16 (31) 16:13	15:09 (25) 16:34
26	05:47 20:21	06:18 19:42	06:48 18:50	07:21 18:03	07:32 (31) 16:13	15:44 (25) 16:34
27	05:48 20:20	06:19 19:40	06:50 18:48	07:22 18:02	07:14 (31) 16:13	15:10 (25) 16:35
28	05:49 20:19	06:20 19:39	06:51 18:47	07:23 18:00	07:32 (31) 16:13	15:10 (25) 16:36
29	05:50 20:18	06:21 19:37	06:52 18:45	07:24 17:59	07:13 (31) 16:13	15:11 (25) 16:36
30	05:51 20:17	06:22 19:35	06:53 18:43	07:25 17:58	07:34 (31) 16:13	15:11 (25) 16:37
31	05:52 20:16	06:23 19:34	06:57 18:42	07:26 17:57	07:12 (31) 16:13	15:11 (25) 16:38
Potential sun hours	459	428	375	345	298	288
Total, worst case	123	356	438	450	812	814

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

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

SHADOW - Calendar

Shadow receptor: C - F03

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes
 The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	January	February	March	April	May	June								
1	07:23	07:10	16:02 (31)	06:34	06:43	05:57	18:16 (30)	05:28	19:48 (28)					
	16:40	17:14	15	16:17 (31)	17:48	19:22	19:54	50	19:07 (29)	20:23	11	19:59 (28)		
2	07:23	07:09	16:00 (31)	06:32	06:41	05:56	18:17 (30)	05:28	19:47 (28)					
	16:40	17:15	19	16:19 (31)	17:49	19:23	19:55	42	19:04 (29)	20:24	12	19:59 (28)		
3	07:23	07:08	15:59 (31)	06:31	06:40	05:55	18:18 (30)	05:27	19:48 (28)					
	16:41	17:16	21	16:20 (31)	17:50	19:24	19:56	34	18:52 (30)	20:25	12	20:00 (28)		
4	07:23	07:07	15:58 (31)	06:29	06:38	05:53	18:18 (30)	05:27	19:49 (28)					
	16:42	17:18	24	16:22 (31)	17:51	19:25	19:57	34	18:52 (30)	20:25	12	20:01 (28)		
5	07:23	07:06	15:56 (31)	06:28	06:36	05:52	18:19 (30)	05:27	19:48 (28)					
	16:43	17:19	26	16:22 (31)	17:52	19:26	19:58	32	18:51 (30)	20:26	13	20:01 (28)		
6	07:23	07:05	15:56 (31)	06:26	06:35	05:51	18:19 (30)	05:26	19:49 (28)					
	16:44	17:20	27	16:23 (31)	17:54	19:27	19:59	30	18:49 (30)	20:27	13	20:02 (28)		
7	07:23	07:03	15:55 (31)	06:24	06:33	05:50	18:20 (30)	05:26	19:49 (28)					
	16:45	17:21	29	16:24 (31)	17:55	19:28	20:00	28	18:48 (30)	20:27	13	20:02 (28)		
8	07:23	07:02	15:55 (31)	06:23	06:31	05:49	18:21 (30)	05:26	19:50 (28)					
	16:46	17:23	29	16:24 (31)	17:56	19:29	20:01	26	18:47 (30)	20:28	13	20:03 (28)		
9	07:23	07:01	15:55 (31)	06:21	06:30	05:47	18:23 (30)	05:26	19:50 (28)					
	16:47	17:24	30	16:25 (31)	17:57	19:30	20:02	23	18:46 (30)	20:29	14	20:04 (28)		
10	07:23	07:00	15:55 (31)	06:20	17:09 (34)	06:28	05:46	18:24 (30)	05:25	19:49 (28)				
	16:48	17:25	30	16:25 (31)	17:58	3	17:12 (34)	19:31	20:03	21	18:45 (30)	20:29	15	20:04 (28)
11	07:23	06:59	15:55 (31)	06:18	17:05 (34)	06:27	05:45	18:26 (30)	05:25	19:50 (28)				
	16:49	17:26	30	16:25 (31)	17:59	12	17:17 (34)	19:33	20:04	17	18:43 (30)	20:30	14	20:04 (28)
12	07:22	06:58	15:55 (31)	06:16	17:02 (34)	06:25	05:44	18:29 (30)	05:25	19:50 (28)				
	16:50	17:27	30	16:25 (31)	18:00	16	17:18 (34)	19:34	20:05	11	18:40 (30)	20:30	15	20:05 (28)
13	07:22	06:56	15:55 (31)	06:15	17:00 (34)	06:23	05:43	18:31 (30)	05:25	19:51 (28)				
	16:51	17:29	30	16:25 (31)	18:01	19	17:19 (34)	19:35	20:06	14	20:05 (28)			
14	07:22	06:55	15:55 (31)	06:13	17:00 (34)	06:22	05:42	19:10 (29)	20:07	20:31	15	20:06 (28)		
	16:52	17:30	29	16:24 (31)	18:03	20	17:20 (34)	19:36	25	18:28 (30)	05:41	05:25	19:51 (28)	
15	07:21	06:54	15:56 (31)	06:11	16:59 (34)	06:20	05:41	19:12 (29)	20:08	20:32	15	20:06 (28)		
	16:53	17:31	28	16:24 (31)	18:04	21	17:20 (34)	19:37	35	18:25 (30)	05:40	05:25	19:51 (28)	
16	07:21	06:52	15:57 (31)	06:10	16:58 (34)	06:19	05:40	19:13 (29)	20:09	20:32	15	20:06 (28)		
	16:54	17:32	27	16:24 (31)	18:05	22	17:20 (34)	19:38	43	18:24 (30)	05:39	05:25	19:52 (28)	
17	07:20	06:51	15:57 (31)	06:08	16:58 (34)	06:17	05:39	19:14 (29)	20:10	20:32	15	20:07 (28)		
	16:56	17:34	26	16:23 (31)	18:06	23	17:21 (34)	19:39	48	18:22 (30)	05:38	05:25	19:52 (28)	
18	07:20	06:50	15:59 (31)	06:06	16:58 (34)	06:16	05:38	19:15 (29)	20:11	20:33	15	20:07 (28)		
	16:57	17:35	23	16:22 (31)	18:07	22	17:20 (34)	19:40	53	18:21 (30)	05:37	05:25	19:53 (28)	
19	07:19	06:48	16:00 (31)	06:05	16:57 (34)	06:14	05:37	19:16 (29)	20:12	20:33	15	20:08 (28)		
	16:58	17:36	21	16:21 (31)	18:08	22	17:19 (34)	19:41	55	18:19 (30)	05:36	05:25	19:53 (28)	
20	07:19	06:47	16:01 (31)	06:03	16:58 (34)	06:13	05:36	19:15 (29)	20:13	20:33	15	20:08 (28)		
	16:59	17:37	18	16:19 (31)	18:09	21	17:19 (34)	19:42	56	18:19 (30)	05:36	05:25	19:53 (28)	
21	07:18	06:46	16:04 (31)	06:01	16:59 (34)	06:11	05:36	19:16 (29)	20:14	20:34	15	20:08 (28)		
	17:00	17:38	13	16:17 (31)	18:10	18	17:17 (34)	19:43	57	18:19 (30)	05:35	05:26	19:53 (28)	
22	07:18	06:44	16:00 (31)	06:00	16:59 (34)	06:10	05:35	19:16 (29)	20:15	2	19:50 (28)	20:34	15	20:08 (28)
	17:01	17:40	18:11	16	17:15 (34)	19:44	57	18:17 (30)	05:34	19:49 (28)	05:26	19:53 (28)		
23	07:17	06:43	15:58	06:08	17:02 (34)	06:08	05:34	19:15 (29)	20:16	3	19:52 (28)	20:34	15	20:08 (28)
	17:03	17:41	18:12	12	17:14 (34)	19:45	58	18:17 (30)	05:33	19:48 (28)	05:26	19:54 (28)		
24	07:16	06:41	15:56	06:07	17:04 (34)	06:07	05:33	19:15 (29)	20:17	4	19:52 (28)	20:34	15	20:09 (28)
	17:04	17:42	18:13	6	17:10 (34)	19:46	58	18:16 (30)	05:32	19:48 (28)	05:26	19:54 (28)		
25	07:16	06:40	15:55	06:05	16:59 (34)	06:05	05:32	19:14 (29)	20:18	5	19:53 (28)	20:34	15	20:09 (28)
	17:05	17:43	18:14	19:47	58	18:17 (30)	05:32	19:48 (28)	05:27	19:54 (28)				
26	07:15	06:38	15:53	06:04	16:58 (34)	06:04	05:32	19:14 (29)	20:18	6	19:54 (28)	20:34	14	20:08 (28)
	17:06	17:44	18:16	19:48	57	18:17 (30)	05:31	19:48 (28)	05:27	19:54 (28)				
27	07:14	06:37	15:51	06:03	16:59 (34)	06:03	05:31	19:14 (29)	20:19	6	19:54 (28)	20:34	15	20:09 (28)
	17:08	17:46	18:17	19:50	57	18:16 (30)	05:31	19:48 (28)	05:28	19:54 (28)				
28	07:13	06:35	15:50	06:01	16:59 (34)	06:01	05:31	19:12 (29)	20:20	8	19:56 (28)	20:34	15	20:09 (28)
	17:09	17:47	18:18	19:51	56	18:16 (30)	05:30	19:47 (28)	05:28	19:55 (28)				
29	07:12	06:48	15:48	06:00	16:59 (34)	06:00	05:30	19:11 (29)	20:21	9	19:56 (28)	20:34	14	20:09 (28)
	17:10	17:48	18:19	19:52	55	18:17 (30)	05:29	19:48 (28)	05:28	19:54 (28)				
30	07:12	06:46	15:46	05:59	16:59 (34)	05:59	05:29	19:10 (29)	20:22	9	19:57 (28)	20:34	15	20:09 (28)
	17:11	17:49	18:20	19:53	53	18:18 (30)	05:29	19:47 (28)						
31	07:11	16:04 (31)	06:45	19:53	53	18:18 (30)	05:29	19:47 (28)						
	17:13	10	16:14 (31)	19:21	53	18:18 (30)	05:29	19:47 (28)						
Potential sun hours	297	297	369	399	448	410	452	424						
Total, worst case	10	525	253	881	410	424								

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

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

SHADOW - Calendar

Shadow receptor: C - F03

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July		August		September		October		November		December	
1	05:29	19:54 (28)	05:53	18:38 (30)	06:24	06:53	17:41 (34)	06:28	15:24 (31)	07:03		
	20:34	14 20:08 (28)	20:15	14 18:52 (30)	19:32	18:42	17 17:58 (34)	16:55	30 15:54 (31)	16:31		
2	05:29	19:55 (28)	05:54	18:36 (30)	06:25	06:55	17:43 (34)	06:29	15:25 (31)	07:04		
	20:34	14 20:09 (28)	20:14	18 18:54 (30)	19:31	18:40	13 17:56 (34)	16:54	30 15:55 (31)	16:30		
3	05:30	19:54 (28)	05:55	18:34 (30)	06:25	06:56	17:45 (34)	06:30	15:25 (31)	07:05		
	20:34	14 20:08 (28)	20:13	22 18:56 (30)	19:29	18:38	8 17:53 (34)	16:52	29 15:54 (31)	16:30		
4	05:30	19:55 (28)	05:56	18:33 (30)	06:26	06:57		06:31	15:25 (31)	07:06		
	20:34	13 20:08 (28)	20:12	24 18:57 (30)	19:27	18:37		16:51	28 15:53 (31)	16:30		
5	05:31	19:55 (28)	05:57	18:32 (30)	06:27	06:58		06:32	15:26 (31)	07:07		
	20:34	14 20:09 (28)	20:11	26 18:58 (30)	19:26	18:35		16:50	26 15:52 (31)	16:30		
6	05:31	19:55 (28)	05:58	18:31 (30)	06:28	06:59		06:34	15:27 (31)	07:08		
	20:33	13 20:08 (28)	20:10	28 18:59 (30)	19:24	18:33		16:49	25 15:52 (31)	16:29		
7	05:32	19:55 (28)	05:59	18:29 (30)	06:29	07:00		06:35	15:28 (31)	07:09		
	20:33	13 20:08 (28)	20:08	30 18:59 (30)	19:22	18:32		16:48	23 15:51 (31)	16:29		
8	05:33	19:55 (28)	06:00	18:28 (30)	06:30	07:01		06:36	15:29 (31)	07:09		
	20:33	12 20:07 (28)	20:07	32 19:00 (30)	19:21	18:30		16:47	21 15:50 (31)	16:29		
9	05:33	19:55 (28)	06:01	18:27 (30)	06:31	07:02		06:37	15:30 (31)	07:10		
	20:32	12 20:07 (28)	20:06	33 19:00 (30)	19:19	18:28		16:46	18 15:48 (31)	16:29		
10	05:34	19:56 (28)	06:02	18:26 (30)	06:32	07:03		06:38	15:33 (31)	07:11		
	20:32	11 20:07 (28)	20:05	35 19:01 (30)	19:17	18:27		16:45	14 15:47 (31)	16:29		
11	05:35	19:55 (28)	06:03	18:26 (30)	06:33	07:04		06:40	15:35 (31)	07:12		
	20:31	11 20:06 (28)	20:03	44 19:14 (29)	19:16	18:25		16:44	9 15:44 (31)	16:29		
12	05:35	19:56 (28)	06:04	18:25 (30)	06:34	07:05		06:41		07:13		
	20:31	10 20:06 (28)	20:02	51 19:16 (29)	19:14	18:24		16:43		16:30		
13	05:36	19:56 (28)	06:05	18:24 (30)	06:35	07:06		06:42		07:14		
	20:31	10 20:06 (28)	20:01	54 19:18 (29)	19:12	18:22		16:42		16:30		
14	05:37	19:57 (28)	06:06	18:24 (30)	06:36	07:07		06:43		07:14		
	20:30	9 20:06 (28)	19:59	55 19:19 (29)	19:10	18:20		16:41		16:30		
15	05:38	19:56 (28)	06:07	18:24 (30)	06:37	07:08		06:44		07:15		
	20:29	8 20:04 (28)	19:58	56 19:20 (29)	19:09	18:19		16:40		16:30		
16	05:38	19:57 (28)	06:08	18:24 (30)	06:38	07:09		06:46		07:16		
	20:29	7 20:04 (28)	19:56	56 19:20 (29)	19:07	18:17		16:39		16:30		
17	05:39	19:57 (28)	06:09	18:23 (30)	06:39	07:11		06:47		07:17		
	20:28	7 20:04 (28)	19:55	58 19:21 (29)	19:05	18:16		16:38		16:31		
18	05:40	19:58 (28)	06:10	18:23 (30)	06:40	07:12		06:48		07:17		
	20:28	5 20:03 (28)	19:54	58 19:21 (29)	19:04	18:14		16:38		16:31		
19	05:41	19:58 (28)	06:11	18:23 (30)	06:41	07:13		06:49		07:18		
	20:27	4 20:02 (28)	19:52	58 19:21 (29)	19:02	18:13		16:37		16:31		
20	05:42	19:58 (28)	06:12	18:23 (30)	06:42	17:47 (34)	07:14	16:38 (31)	06:50	07:19		
	20:26	3 20:01 (28)	19:51	58 19:21 (29)	19:00	12 17:59 (34)	18:11	7 16:45 (31)	16:36	16:32		
21	05:43	19:59 (28)	06:13	18:24 (30)	06:43	17:45 (34)	07:15	16:34 (31)	06:51	07:19		
	20:25	2 20:01 (28)	19:49	57 19:21 (29)	18:59	15 18:00 (34)	18:10	14 16:48 (31)	16:35	16:32		
22	05:43		06:14	18:24 (30)	06:44	17:43 (34)	07:16	16:31 (31)	06:53	07:20		
	20:25		19:48	57 19:21 (29)	18:57	18 18:01 (34)	18:08	19 16:50 (31)	16:35	16:33		
23	05:44		06:15	18:24 (30)	06:45	17:42 (34)	07:17	16:29 (31)	06:54	07:20		
	20:24		19:46	56 19:20 (29)	18:55	20 18:02 (34)	18:07	22 16:51 (31)	16:34	16:33		
24	05:45		06:16	18:25 (30)	06:46	17:41 (34)	07:18	16:28 (31)	06:55	07:21		
	20:23		19:45	54 19:19 (29)	18:53	21 18:02 (34)	18:06	24 16:52 (31)	16:34	16:34		
25	05:46		06:17	18:26 (30)	06:47	17:40 (34)	06:20	15:28 (31)	06:56	07:21		
	20:22		19:43	51 19:18 (29)	18:52	22 18:02 (34)	17:04	26 15:54 (31)	16:33	16:34		
26	05:47		06:18	18:27 (30)	06:48	17:40 (34)	06:21	15:26 (31)	06:57	07:21		
	20:21		19:42	48 19:17 (29)	18:50	22 18:02 (34)	17:03	28 15:54 (31)	16:33	16:35		
27	05:48		06:19	18:28 (30)	06:49	17:39 (34)	06:22	15:25 (31)	06:58	07:22		
	20:20		19:40	43 19:16 (29)	18:48	23 18:02 (34)	17:01	29 15:54 (31)	16:32	16:36		
28	05:49		06:20	18:30 (30)	06:50	17:39 (34)	06:23	15:25 (31)	06:59	07:22		
	20:19		19:39	35 19:14 (29)	18:47	22 18:01 (34)	17:00	29 15:54 (31)	16:32	16:36		
29	05:50		06:21	18:31 (30)	06:51	17:39 (34)	06:24	15:25 (31)	07:00	07:22		
	20:18		19:37	24 19:10 (29)	18:45	21 18:00 (34)	16:59	30 15:55 (31)	16:31	16:37		
30	05:51		06:22		06:52	17:41 (34)	06:25	15:25 (31)	07:02	07:23		
	20:17		19:35		18:43	19 18:00 (34)	16:57	30 15:55 (31)	16:31	16:38		
31	05:52		06:23				06:27	15:24 (31)		07:23		
	20:16	6 18:48 (30)	19:34				16:56	31 15:55 (31)		16:38		
Potential sun hours	459		428		375		345		298		288	
Total, worst case	212		1235		215		327		253			

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)

SHADOW - Calendar

Shadow receptor: D - F04

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48									
2	07:23 16:40	07:09 17:15	06:32 17:49	33								
3	07:23 16:41	07:08 17:16	06:31 17:50	32								
4	07:23 16:42	07:07 17:18	06:29 17:51	31								
5	07:23 16:43	07:06 17:19	06:28 17:53	30								
6	07:23 16:44	07:05 17:20	06:26 17:54	29								
7	07:23 16:45	07:04 17:21	06:24 17:55	26								
8	07:23 16:46	07:02 17:23	06:23 17:56	23								
9	07:23 16:47	07:01 17:24	06:21 17:57	20								
10	07:23 16:48	07:00 17:25	06:20 17:58	16								
11	07:23 16:49	06:59 17:26	06:18 17:59	7								
12	07:22 16:50	06:58 17:28	06:16 18:00									
13	07:22 16:51	06:56 17:29	06:15 18:02									
14	07:22 16:52	06:55 17:30	06:13 18:03									
15	07:21 16:53	06:54 17:31	06:11 18:04									
16	07:21 16:55	06:53 17:32	06:10 18:05									
17	07:21 16:56	06:51 17:34	06:08 18:06									
18	07:20 16:57	06:50 17:35	06:06 18:07									
19	07:20 16:58	06:48 17:36	06:05 18:08									
20	07:19 16:59	06:47 17:37	06:03 18:09									
21	07:18 17:00	06:46 17:39	06:01 18:10									
22	07:18 17:02	06:44 17:40	06:00 18:11									
23	07:17 17:03	06:43 17:41	05:58 18:12									
24	07:16 17:04	06:41 17:42	05:56 18:13									
25	07:16 17:05	06:40 17:43	05:55 18:15									
26	07:15 17:06	06:38 17:44	05:53 18:16									
27	07:14 17:08	06:37 17:46	05:51 18:17									
28	07:13 17:09	06:35 17:47	05:50 18:18									
29	07:13 17:10		06:48 19:19									
30	07:12 17:11		06:46 19:20									
31	07:11 17:13		06:45 19:21									
Potential sun hours	297		369									
Total, worst case		277		279							560	

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

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

SHADOW - Calendar

Shadow receptor: E - F05

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	06:33 (30) 06:47 (30) 20:23
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	06:31 (30) 06:48 (30) 20:24
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	06:30 (30) 06:49 (30) 20:25
4	07:23 16:42	07:07 17:18	06:29 17:51	17:00 (25) 06:38 17:09 (25) 19:25	05:53 19:57	06:29 (30) 06:50 (30) 20:26
5	07:23 16:43	07:06 17:19	06:28 17:53	16:56 (25) 06:36 17:13 (25) 19:26	05:52 19:58	06:28 (30) 06:51 (30) 20:26
6	07:23 16:44	07:05 17:20	07:34 (32) 06:26 07:38 (32) 17:54	07:15 (31) 06:35 17:15 (25) 19:27	05:51 19:59	06:28 (30) 06:51 (30) 20:27
7	07:23 16:45	07:04 17:21	07:31 (32) 06:24 07:41 (32) 17:55	07:12 (31) 06:33 17:16 (25) 19:28	07:35 (34) 05:50 07:37 (34) 20:00	06:26 (30) 06:51 (30) 20:28
8	07:23 16:46	07:02 17:23	07:29 (32) 06:23 07:43 (32) 17:56	07:10 (31) 06:32 17:18 (25) 19:29	07:28 (34) 05:49 07:41 (34) 20:01	06:26 (30) 06:51 (30) 20:28
9	07:23 16:47	07:01 17:24	07:28 (32) 06:21 07:45 (32) 17:57	07:08 (31) 06:30 17:18 (25) 19:31	07:25 (34) 05:47 07:43 (34) 20:02	06:26 (30) 06:51 (30) 20:29
10	07:23 16:48	07:00 17:25	07:28 (32) 06:20 07:46 (32) 17:58	07:07 (31) 06:28 17:18 (25) 19:32	07:24 (34) 05:46 07:45 (34) 20:03	06:26 (30) 06:51 (30) 20:29
11	07:23 16:49	06:59 17:26	07:26 (32) 06:18 07:46 (32) 17:59	07:07 (31) 06:27 17:19 (25) 19:33	07:22 (34) 05:45 07:45 (34) 20:04	06:26 (30) 06:51 (30) 20:30
12	07:22 16:50	06:58 17:28	07:26 (32) 06:16 07:46 (32) 18:00	07:06 (31) 06:25 17:19 (25) 19:34	07:22 (34) 05:44 07:47 (34) 20:05	06:26 (30) 06:51 (30) 20:30
13	07:22 16:51	06:56 17:29	07:26 (32) 06:15 07:47 (32) 18:02	07:05 (31) 06:24 17:19 (25) 19:35	07:20 (34) 05:43 07:47 (34) 20:06	06:26 (30) 06:50 (30) 20:31
14	07:22 16:52	06:55 17:30	07:27 (32) 06:13 07:47 (32) 18:03	07:05 (31) 06:22 17:19 (25) 19:36	07:20 (34) 05:42 07:47 (34) 20:07	06:27 (30) 06:50 (30) 20:31
15	07:21 16:53	06:54 17:31	07:26 (32) 06:11 07:46 (32) 18:04	07:05 (31) 06:20 17:19 (25) 19:37	07:19 (34) 05:41 07:47 (34) 20:08	06:27 (30) 06:50 (30) 20:32
16	07:21 16:55	06:53 17:32	07:27 (32) 06:10 07:46 (32) 18:05	07:05 (31) 06:19 17:18 (25) 19:38	07:19 (34) 05:40 07:47 (34) 20:09	06:27 (30) 06:49 (30) 20:32
17	07:21 16:56	06:51 17:34	07:28 (32) 06:08 07:46 (32) 18:06	07:06 (31) 06:17 17:18 (25) 19:39	07:18 (34) 05:39 07:46 (34) 20:10	06:28 (30) 06:48 (30) 20:32
18	07:20 16:57	06:50 17:35	07:28 (32) 06:06 07:44 (32) 18:07	07:06 (31) 06:16 17:17 (25) 19:40	07:18 (34) 05:38 07:46 (34) 20:11	06:29 (30) 06:48 (30) 20:33
19	07:20 16:58	06:48 17:36	07:30 (32) 06:05 07:43 (32) 18:08	07:07 (31) 06:14 17:16 (25) 19:41	07:18 (34) 05:37 07:45 (34) 20:12	06:30 (30) 06:47 (30) 20:33
20	07:19 16:59	06:47 17:37	07:31 (32) 06:03 07:40 (32) 18:09	07:09 (31) 06:13 17:16 (25) 19:42	07:19 (34) 05:36 07:45 (34) 20:13	06:31 (30) 06:46 (30) 20:33
21	07:18 17:00	06:46 17:39	06:01 18:10	07:11 (31) 06:11 17:14 (25) 19:43	07:18 (34) 05:36 07:44 (34) 20:14	06:32 (30) 06:45 (30) 20:34
22	07:18 17:02	06:44 17:40	06:00 18:11	16:47 (25) 06:10 17:12 (25) 19:44	07:19 (34) 05:35 07:43 (34) 20:15	06:35 (30) 06:43 (30) 20:34
23	07:17 17:03	06:43 17:41	05:58 18:12	16:49 (25) 06:08 17:11 (25) 19:45	07:19 (34) 05:34 07:41 (34) 20:16	05:26 20:34
24	07:16 17:04	06:41 17:42	05:56 18:13	16:51 (25) 06:07 17:08 (25) 19:46	07:21 (34) 05:33 07:40 (34) 20:17	05:26 20:34
25	07:16 17:05	06:40 17:43	05:55 18:15	16:54 (25) 06:06 17:04 (25) 19:47	07:22 (34) 05:33 07:38 (34) 20:18	05:27 20:34
26	07:15 17:06	06:38 17:44	05:53 18:16	06:04 19:49	07:24 (34) 05:32 07:36 (34) 20:18	05:27 20:34
27	07:14 17:08	06:37 17:46	05:51 18:17	06:03 19:50	05:31 20:19	05:27 20:34
28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 20:34
29	07:13 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:34
30	07:12 17:11		06:46 19:20	05:59 19:53	06:36 (30) 06:44 (30) 20:22	05:29 20:34
31	07:11 17:13		06:45 19:21		05:29 20:23	
Potential sun hours	297	297	369	399	448	452
Total, worst case		239	910	448	451	

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

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

SHADOW - Calendar

Shadow receptor: E - F05

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	July	August	September	October	November	December				
1	05:29	05:53	06:37 (30)	06:24	07:21 (34)	06:54	07:45 (31)	06:28	06:57 (32)	07:03
	20:34	20:15	24 07:01 (30)	19:32	23 07:44 (34)	18:42	59 17:59 (25)	16:55	17 07:14 (32)	16:31
2	05:29	05:54	06:37 (30)	06:25	07:22 (34)	06:55	07:45 (31)	06:29	06:58 (32)	07:04
	20:34	20:14	25 07:02 (30)	19:31	21 07:43 (34)	18:40	58 17:58 (25)	16:54	16 07:14 (32)	16:30
3	05:30	05:55	06:37 (30)	06:26	07:23 (34)	06:56	07:45 (31)	06:30	06:59 (32)	07:05
	20:34	20:13	25 07:02 (30)	19:29	18 07:41 (34)	18:38	56 17:57 (25)	16:53	14 07:13 (32)	16:30
4	05:30	05:56	06:37 (30)	06:27	07:25 (34)	06:57	07:46 (31)	06:31	07:01 (32)	07:06
	20:34	20:12	25 07:02 (30)	19:27	13 07:38 (34)	18:37	52 17:56 (25)	16:51	10 07:11 (32)	16:30
5	05:31	05:57	06:37 (30)	06:28	07:30 (34)	06:58	07:46 (31)	06:33	07:05 (32)	07:07
	20:34	20:11	24 07:01 (30)	19:26	3 07:33 (34)	18:35	49 17:55 (25)	16:50	2 07:06 (32)	16:30
6	05:32	05:58	06:37 (30)	06:29		06:59	07:47 (31)	06:34		07:08
	20:33	20:10	24 07:01 (30)	19:24		18:33	44 17:53 (25)	16:49		16:30
7	05:32	05:59	06:38 (30)	06:30		07:00	07:49 (31)	06:35		07:09
	20:33	20:08	23 07:01 (30)	19:22		18:32	36 17:51 (25)	16:48		16:30
8	05:33	06:00	06:38 (30)	06:31		07:01	07:53 (31)	06:36		07:10
	20:33	20:07	22 07:00 (30)	19:21		18:30	24 17:49 (25)	16:47		16:29
9	05:34	06:01	06:38 (30)	06:32		07:02	17:32 (25)	06:37		07:10
	20:32	20:06	20 06:58 (30)	19:19		18:28	14 17:46 (25)	16:46		16:29
10	05:34	06:02	06:39 (30)	06:33		07:03		06:39		07:11
	20:32	20:05	18 06:57 (30)	19:17		18:27		16:45		16:29
11	05:35	06:03	06:40 (30)	06:34		07:04		06:40		07:12
	20:32	20:03	16 06:56 (30)	19:16		18:25		16:44		16:30
12	05:36	06:04	06:41 (30)	06:35		07:05		06:41		07:13
	20:31	20:02	13 06:54 (30)	19:14		18:24		16:43		16:30
13	05:36	06:05	06:44 (30)	06:36		07:06		06:42		07:14
	20:31	20:01	7 06:51 (30)	19:12		18:22		16:42		16:30
14	05:37	06:06		06:36		07:07		06:43		07:15
	20:30	19:59		19:11		18:21		16:41		16:30
15	05:38	06:07		06:37		07:08		06:45		07:15
	20:30	19:58		19:09		18:19		16:40		16:30
16	05:39	06:08	07:34 (34)	06:38		07:10		06:46		07:16
	20:29	19:57	5 07:39 (34)	19:07		18:17		16:39		16:30
17	05:39	06:09	07:30 (34)	06:39		07:11		06:47		07:17
	20:28	19:55	13 07:43 (34)	19:05		18:16		16:38		16:31
18	05:40	06:10	07:28 (34)	06:40	17:43 (25)	07:12		06:48		07:17
	20:28	19:54	17 07:45 (34)	19:04	8 17:51 (25)	18:14		16:38		16:31
19	05:41	06:11	07:26 (34)	06:41	17:39 (25)	07:13		06:49		07:18
	20:27	19:52	20 07:46 (34)	19:02	16 17:55 (25)	18:13		16:37		16:31
20	05:42	06:12	07:25 (34)	06:42	17:36 (25)	07:14		06:50		07:19
	20:26	19:51	22 07:47 (34)	19:00	21 17:57 (25)	18:11		16:36		16:32
21	05:43	06:46 (30)	06:13	07:24 (34)	06:43	17:34 (25)	07:15		06:52	07:19
	20:26	6 06:52 (30)	19:49	24 07:48 (34)	18:59	24 17:58 (25)	18:10		16:36	16:32
22	05:44	06:43 (30)	06:14	07:23 (34)	06:44	07:58 (31)	07:16	08:01 (32)	06:53	07:20
	20:25	11 06:54 (30)	19:48	26 07:49 (34)	18:57	33 17:59 (25)	18:08	11 08:12 (32)	16:35	16:33
23	05:44	06:42 (30)	06:15	07:22 (34)	06:45	07:54 (31)	07:17		07:59 (32)	06:54
	20:24	14 06:56 (30)	19:46	27 07:49 (34)	18:55	42 18:00 (25)	18:07	14 08:13 (32)	16:34	16:33
24	05:45	06:41 (30)	06:16	07:22 (34)	06:46	07:51 (31)	07:19		07:57 (32)	06:55
	20:23	16 06:57 (30)	19:45	27 07:49 (34)	18:54	48 18:00 (25)	18:06	17 08:14 (32)	16:34	16:34
25	05:46	06:40 (30)	06:17	07:21 (34)	06:47	07:50 (31)	06:20		06:57 (32)	06:56
	20:22	18 06:58 (30)	19:43	28 07:49 (34)	18:52	53 18:01 (25)	17:04	19 07:16 (32)	16:33	16:34
26	05:47	06:39 (30)	06:18	07:21 (34)	06:48	07:48 (31)	06:21		06:56 (32)	06:57
	20:21	19 06:58 (30)	19:42	28 07:49 (34)	18:50	55 18:01 (25)	17:03	20 07:16 (32)	16:33	16:35
27	05:48	06:38 (30)	06:19	07:21 (34)	06:50	07:47 (31)	06:22		06:56 (32)	06:58
	20:20	21 06:59 (30)	19:40	28 07:49 (34)	18:48	58 18:01 (25)	17:01	20 07:16 (32)	16:32	16:36
28	05:49	06:38 (30)	06:20	07:21 (34)	06:51	07:46 (31)	06:23		06:55 (32)	06:59
	20:19	22 07:00 (30)	19:39	28 07:49 (34)	18:47	59 18:00 (25)	17:00	21 07:16 (32)	16:32	16:36
29	05:50	06:37 (30)	06:21	07:21 (34)	06:52	07:46 (31)	06:24		06:56 (32)	07:01
	20:18	23 07:00 (30)	19:37	27 07:48 (34)	18:45	59 18:00 (25)	16:59	20 07:16 (32)	16:31	16:37
30	05:51	06:37 (30)	06:22	07:21 (34)	06:53	07:45 (31)	06:25		06:56 (32)	07:02
	20:17	24 07:01 (30)	19:35	26 07:47 (34)	18:43	61 18:00 (25)	16:58	20 07:16 (32)	16:31	16:38
31	05:52	06:37 (30)	06:23	07:20 (34)			06:27		06:56 (32)	07:23
	20:16	24 07:01 (30)	19:34	26 07:46 (34)			16:56	19 07:15 (32)		16:39
Potential sun hours	459		428	375	615	345	573	298	59	288
Total, worst case	198		638	615	573					

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

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

SHADOW - Calendar

Shadow receptor: F - F07

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June				
1	07:23	08:08 (27)	07:10	06:34	06:43	05:57	05:28	06:01 (29)		
	16:40	35 08:50 (26)	17:14	17:48	19:22	19:54	20:23	23 06:24 (29)		
2	07:23	08:08 (27)	07:09	06:32	06:41	05:56	05:28	06:02 (29)		
	16:41	34 08:50 (26)	17:15	17:49	19:23	19:55	20:24	22 06:24 (29)		
3	07:23	08:09 (27)	07:08	06:31	06:40	05:55	05:28	06:01 (29)		
	16:41	31 08:49 (26)	17:16	17:50	19:24	19:56	20:25	22 06:23 (29)		
4	07:23	08:09 (27)	07:07	06:29	06:38	05:53	05:27	06:02 (29)		
	16:42	30 08:49 (26)	17:18	17:51	19:25	19:57	20:26	21 06:23 (29)		
5	07:23	08:10 (27)	07:06	06:28	06:37	05:52	05:27	06:03 (29)		
	16:43	26 08:48 (26)	17:19	17:53	19:26	19:58	20:26	21 06:24 (29)		
6	07:23	08:10 (27)	07:05	06:26	06:35	05:51	05:27	06:02 (29)		
	16:44	18 08:28 (27)	17:20	17:54	19:27	19:59	20:27	21 06:23 (29)		
7	07:23	08:11 (27)	07:04	06:25	06:33	05:50	05:26	06:03 (29)		
	16:45	18 08:29 (27)	17:21	17:55	19:28	20:00	20:28	20 06:23 (29)		
8	07:23	08:12 (27)	07:02	06:23	06:32	05:49	05:26	06:04 (29)		
	16:46	17 08:29 (27)	17:23	17:56	19:29	9 07:18 (34)	20:01	20:28	19 06:23 (29)	
9	07:23	08:13 (27)	07:01	06:21	06:30	07:07 (34)	05:48	05:26	06:04 (29)	
	16:47	16 08:29 (27)	17:24	17:57	19:31	13 07:20 (34)	20:02	20:29	19 06:23 (29)	
10	07:23	08:14 (27)	07:00	06:20	06:28	07:05 (34)	05:46	05:26	06:05 (29)	
	16:48	15 08:29 (27)	17:25	17:58	19:32	16 07:21 (34)	20:03	20:29	18 06:23 (29)	
11	07:23	08:14 (27)	06:59	06:18	06:27	07:04 (34)	05:45	05:25	06:05 (29)	
	16:49	14 08:28 (27)	17:26	17:59	19:33	17 07:21 (34)	20:04	20:30	17 06:22 (29)	
12	07:22	08:16 (27)	06:58	06:16	06:25	07:03 (34)	05:44	05:25	06:05 (29)	
	16:50	12 08:28 (27)	17:28	18:00	19:34	19 07:22 (34)	20:05	20:30	17 06:22 (29)	
13	07:22	08:18 (27)	06:56	06:15	06:24	07:02 (34)	05:43	05:25	06:06 (29)	
	16:51	10 08:28 (27)	17:29	18:02	19:35	20 07:22 (34)	20:06	20:31	16 06:22 (29)	
14	07:22	08:19 (27)	06:55	06:13	06:22	07:02 (34)	05:42	06:07 (29)	05:25	06:06 (29)
	16:52	7 08:26 (27)	17:30	18:03	19:36	20 07:22 (34)	20:07	7 06:14 (29)	20:31	16 06:22 (29)
15	07:21	06:54	06:11	06:46 (31)	06:20	07:02 (34)	05:41	06:05 (29)	05:25	06:06 (29)
	16:53	17:31	18:04	10 06:56 (31)	19:37	19 07:21 (34)	20:08	11 06:16 (29)	20:32	16 06:22 (29)
16	07:21	06:53	06:10	06:43 (31)	06:19	07:02 (34)	05:40	06:03 (29)	05:25	06:07 (29)
	16:55	17:33	18:05	14 06:57 (31)	19:38	19 07:21 (34)	20:09	15 06:18 (29)	20:32	15 06:22 (29)
17	07:21	06:51	06:08	06:42 (31)	06:17	07:02 (34)	05:39	06:03 (29)	05:25	06:07 (29)
	16:56	17:34	18:06	17 06:59 (31)	19:39	18 07:20 (34)	20:10	17 06:20 (29)	20:32	15 06:22 (29)
18	07:20	06:50	06:07	06:41 (31)	06:16	07:04 (34)	05:38	06:02 (29)	05:25	06:08 (29)
	16:57	17:35	18:07	18 06:59 (31)	19:40	15 07:19 (34)	20:11	19 06:21 (29)	20:33	15 06:23 (29)
19	07:20	06:49	06:05	06:40 (31)	06:14	07:04 (34)	05:37	06:01 (29)	05:25	06:09 (29)
	16:58	17:36	18:08	19 06:59 (31)	19:41	13 07:17 (34)	20:12	20 06:21 (29)	20:33	14 06:23 (29)
20	07:19	06:47	06:03	06:40 (31)	06:13	07:06 (34)	05:36	06:00 (29)	05:25	06:09 (29)
	16:59	17:37	18:09	19 06:59 (31)	19:42	9 07:15 (34)	20:13	21 06:21 (29)	20:33	14 06:23 (29)
21	07:18	06:46	06:02	06:40 (31)	06:11	05:36	06:00 (29)	05:26	06:09 (29)	
	17:00	17:39	18:10	18 06:58 (31)	19:43	22 06:22 (29)	20:14	22 06:22 (29)	20:34	14 06:23 (29)
22	07:18	06:44	06:00	06:39 (31)	06:10	05:35	06:00 (29)	05:26	06:09 (29)	
	17:02	17:40	18:11	18 06:57 (31)	19:44	23 06:23 (29)	20:15	23 06:23 (29)	20:34	14 06:23 (29)
23	07:17	06:43	05:58	06:40 (31)	06:08	05:34	06:00 (29)	05:26	06:10 (29)	
	17:03	17:41	18:12	17 06:57 (31)	19:45	20:16	23 06:23 (29)	20:34	14 06:24 (29)	
24	07:16	06:41	05:56	06:41 (31)	06:07	05:33	05:59 (29)	05:26	06:09 (29)	
	17:04	17:42	18:13	14 06:55 (31)	19:46	20:17	24 06:23 (29)	20:34	15 06:24 (29)	
25	07:16	06:40	05:55	06:42 (31)	06:06	05:33	06:00 (29)	05:27	06:09 (29)	
	17:05	17:43	18:15	11 06:53 (31)	19:48	20:18	24 06:24 (29)	20:34	15 06:24 (29)	
26	07:15	06:38	05:53	06:45 (31)	06:04	05:32	06:00 (29)	05:27	06:09 (29)	
	17:06	17:44	18:16	5 06:50 (31)	19:49	20:19	23 06:23 (29)	20:34	15 06:24 (29)	
27	07:14	06:37	05:51	06:03	06:03	05:31	05:59 (29)	05:27	06:10 (29)	
	17:08	17:46	18:17	19:50	20:19	24 06:23 (29)	20:34	15 06:25 (29)		
28	07:13	06:35	05:50	06:01	06:01	05:31	06:00 (29)	05:28	06:09 (29)	
	17:09	17:47	18:18	19:51	20:20	24 06:24 (29)	20:34	16 06:25 (29)		
29	07:13	06:48	06:00	06:00	06:00	05:30	06:00 (29)	05:28	06:10 (29)	
	17:10	19:19	19:52	20:21	23 06:23 (29)	20:34	16 06:26 (29)			
30	07:12	06:46	05:59	06:00	06:00	05:30	06:00 (29)	05:28	06:09 (29)	
	17:11	19:20	19:53	20:22	24 06:24 (29)	20:34	17 06:26 (29)			
31	07:11	06:45	06:00	06:00	06:00	05:29	06:00 (29)			
	17:13	19:21	19:54	20:23	23 06:23 (29)					
Potential sun hours	297	297	369	399	448	452				
Total, worst case	283	180	207	367	512					

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

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

SHADOW - Calendar

Shadow receptor: F - F07

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	July	August	September	October	November	December		
1	05:29 20:34	06:10 (29) 20:15	05:53 20:15	06:24 19:32	07:03 (34) 18:42	06:54 16:55	06:28 16:31	07:03 14 08:10 (27)
2	05:29 20:34	06:09 (29) 20:14	05:54 20:14	06:25 19:31	07:03 (34) 18:40	06:29 16:54	06:29 16:30	07:04 15 08:11 (27)
3	05:30 20:34	06:10 (29) 20:13	05:55 20:13	06:26 19:29	07:04 (34) 18:38	06:30 16:53	06:30 16:30	07:05 16 08:12 (27)
4	05:30 20:34	06:09 (29) 20:12	05:56 20:12	06:27 19:27	07:06 (34) 18:37	06:57 16:51	06:31 16:30	07:06 17 08:13 (27)
5	05:31 20:34	06:09 (29) 20:11	05:57 20:11	06:28 19:26	07:15 (34) 18:35	18:37 16:50	06:58 16:30	06:33 18 08:14 (27)
6	05:32 20:33	06:09 (29) 20:10	05:58 20:10	06:29 19:24	07:17 (34) 18:33	06:59 16:49	06:34 16:30	07:08 18 08:14 (27)
7	05:32 20:33	06:09 (29) 20:08	05:59 20:08	06:30 19:22	07:00 18:32	06:35 16:48	06:35 16:30	07:09 26 08:34 (26)
8	05:33 20:33	06:08 (29) 20:07	06:00 20:07	06:31 19:21	07:01 18:30	06:36 16:47	06:36 16:29	07:10 30 08:36 (26)
9	05:34 20:32	06:09 (29) 20:06	06:01 20:06	06:32 19:19	07:02 18:29	06:37 16:46	06:37 16:29	07:10 31 08:37 (26)
10	05:34 20:32	06:09 (29) 20:05	06:02 20:05	06:33 19:17	07:03 18:27	06:39 16:45	06:39 16:30	07:11 34 08:39 (26)
11	05:35 20:32	06:08 (29) 20:03	06:03 20:03	06:34 19:16	07:04 18:25	06:40 16:44	06:40 16:30	07:12 35 08:40 (26)
12	05:36 20:31	06:08 (29) 20:02	06:04 20:02	06:35 19:14	07:05 18:24	06:41 16:43	06:41 16:30	07:13 37 08:41 (26)
13	05:36 20:31	06:09 (29) 20:01	06:05 20:01	06:36 19:12	07:06 18:22	06:42 16:42	06:42 16:30	07:14 36 08:41 (26)
14	05:37 20:30	06:09 (29) 20:00	06:06 20:00	06:37 19:11	07:07 18:21	06:43 16:41	06:43 16:30	07:15 37 08:42 (26)
15	05:38 20:30	06:08 (29) 19:58	06:07 19:58	06:38 19:09	07:08 18:19	06:45 16:40	06:45 16:30	07:15 39 08:43 (26)
16	05:39 20:29	06:09 (29) 19:57	06:08 19:57	06:38 19:07	07:10 18:17	06:46 16:39	06:46 16:30	07:16 39 08:44 (26)
17	05:39 20:28	06:09 (29) 19:55	06:09 19:55	06:39 19:05	07:11 18:16	06:47 16:38	06:47 16:31	07:17 39 08:44 (26)
18	05:40 20:28	06:09 (29) 19:54	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38	06:48 16:31	07:17 39 08:45 (26)
19	05:41 20:27	06:10 (29) 19:52	06:11 19:52	06:41 19:02	07:13 (31) 18:13	07:12 16:37	07:12 16:31	07:18 40 08:45 (26)
20	05:42 20:26	06:09 (29) 19:51	06:12 19:51	06:42 19:00	07:28 (31) 18:11	07:14 16:36	07:14 16:32	07:19 40 08:46 (26)
21	05:43 20:26	06:32 (29) 19:51	06:13 19:51	06:43 18:59	07:43 (31) 18:10	18:11 16:36	18:11 16:32	07:19 40 08:46 (26)
22	05:44 20:25	06:32 (29) 19:49	06:14 19:49	06:44 18:59	07:26 (31) 18:10	07:15 16:36	07:15 16:32	07:19 40 08:47 (26)
23	05:45 20:25	06:10 (29) 19:48	06:14 19:48	06:44 18:57	07:25 (31) 18:09	07:16 16:35	07:16 16:30	07:20 40 08:47 (26)
24	05:45 20:24	06:32 (29) 19:46	06:15 19:46	06:45 18:57	07:44 (31) 18:07	07:17 16:34	07:17 16:33	07:20 40 08:47 (26)
25	05:45 20:23	06:11 (29) 19:45	06:16 19:45	06:46 18:55	07:24 (31) 18:06	07:19 16:34	07:19 16:34	07:21 40 08:48 (26)
26	05:46 20:22	06:32 (29) 19:43	06:17 19:43	06:47 18:54	07:21 (34) 18:05	07:19 16:34	07:19 16:34	07:21 40 08:48 (26)
27	05:46 20:22	06:12 (29) 19:42	06:17 19:42	06:47 18:52	07:24 (31) 18:04	06:20 16:33	06:20 16:34	07:21 39 08:49 (26)
28	05:47 20:21	06:31 (29) 19:42	06:18 19:42	06:49 18:50	07:42 (31) 18:03	07:14 16:33	07:14 16:35	07:21 39 08:49 (26)
29	05:47 20:21	06:13 (29) 19:42	06:18 19:42	06:49 18:50	07:41 (31) 18:03	06:21 16:33	06:21 16:35	07:21 39 08:49 (26)
30	05:48 20:20	06:31 (29) 19:42	06:19 19:42	06:50 18:48	07:25 (31) 18:02	06:22 16:32	06:22 16:36	07:22 38 08:49 (26)
31	05:48 20:20	06:14 (29) 19:40	06:20 19:40	06:51 18:48	07:26 (31) 18:02	06:23 16:32	06:23 16:36	07:22 38 08:49 (26)
	05:49 20:19	06:28 (29) 19:39	06:21 19:39	06:52 18:47	07:29 (31) 18:01	17:00 16:32	17:00 16:36	07:23 39 08:49 (26)
	05:50 20:18	06:16 (29) 19:37	06:21 19:37	06:52 18:45	07:58 (27) 18:00	06:24 16:31	07:01 16:36	07:22 39 08:49 (26)
	05:51 20:17	06:26 (29) 19:35	06:22 19:35	06:53 18:43	07:35 (31) 18:00	16:59 16:31	16:31 16:36	08:08 (27) 38 08:49 (26)
	05:51 20:17	06:19 (29) 19:35	06:22 19:35	06:53 18:43	07:03 (34) 18:00	06:53 16:58	07:03 16:31	07:23 37 08:49 (26)
	05:52 20:16	06:23 (29) 19:35	06:23 19:35	06:53 18:43	07:23 (34) 18:00	18:43 16:58	18:43 16:31	08:09 (27) 37 08:49 (26)
	05:52 20:16	06:23 (29) 19:35	06:23 19:35	06:53 18:43	07:02 (34) 18:00	16:57 16:31	16:31 16:36	07:23 36 08:50 (26)
	05:52 20:16	06:23 (29) 19:35	06:23 19:35	06:53 18:43	07:02 (34) 18:00	16:57 16:31	16:31 16:36	07:23 36 08:50 (26)
Potential sun hours	459	428	375	345	298	288	288	
Total, worst case	598	152	239	29	1026			

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

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

SHADOW - Calendar

Shadow receptor: G - F08

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	January	February	March	April	May	June		
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	17:58 (25) 18:22 (25)	05:57 19:54	06:28 (30) 20:23	05:57 (29) 06:06 (29)
2	07:23 16:41	07:09 17:15	06:32 17:49	06:41 19:23	17:56 (25) 18:22 (25)	05:56 19:55	06:24 (30) 20:24	05:56 (29) 06:08 (29)
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	17:54 (25) 18:22 (25)	05:55 19:56	06:22 (30) 20:25	05:55 (29) 06:09 (29)
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 19:25	17:52 (25) 18:22 (25)	05:53 19:57	06:21 (30) 20:26	05:55 (29) 06:10 (29)
5	07:23 16:43	07:06 17:19	06:28 17:53	06:37 19:26	17:50 (25) 18:22 (25)	05:52 19:58	06:20 (30) 20:26	05:54 (29) 06:11 (29)
6	07:23 16:44	07:05 17:20	06:26 17:54	06:35 19:27	17:47 (25) 18:21 (25)	05:51 19:59	06:20 (30) 20:27	05:53 (29) 06:11 (29)
7	07:23 16:45	07:04 17:21	06:24 17:55	06:33 19:28	17:46 (25) 18:21 (25)	05:50 20:00	06:18 (30) 20:28	05:53 (29) 06:12 (29)
8	07:23 16:46	07:02 17:23	06:23 17:56	06:32 19:29	17:43 (25) 18:21 (25)	05:49 20:01	06:18 (30) 20:28	05:53 (29) 06:13 (29)
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:31	17:42 (25) 18:21 (25)	05:47 20:02	06:18 (30) 20:29	05:53 (29) 06:13 (29)
10	07:23 16:48	07:00 17:25	06:20 17:58	06:28 19:32	17:40 (25) 18:20 (25)	05:46 20:03	06:18 (30) 20:29	05:53 (29) 06:14 (29)
11	07:23 16:49	06:59 17:26	06:18 17:59	06:27 19:33	17:37 (25) 18:19 (25)	05:45 20:04	06:18 (30) 20:30	05:52 (29) 06:13 (29)
12	07:22 16:50	06:58 17:28	06:16 18:00	06:25 19:34	17:36 (25) 18:18 (25)	05:44 20:05	06:19 (30) 20:30	05:52 (29) 06:14 (29)
13	07:22 16:51	06:56 17:29	06:15 18:02	06:24 19:35	17:33 (25) 18:17 (25)	05:43 20:06	06:19 (30) 20:31	05:53 (29) 06:14 (29)
14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	17:32 (25) 18:17 (25)	05:42 20:07	06:19 (30) 20:31	05:53 (29) 06:15 (29)
15	07:21 16:53	06:54 17:31	06:11 18:04	06:20 19:37	17:30 (25) 18:15 (25)	05:41 20:08	06:20 (30) 20:32	05:53 (29) 06:15 (29)
16	07:21 16:55	06:53 17:33	06:10 18:05	06:19 19:38	17:32 (25) 18:15 (25)	05:40 20:09	06:21 (30) 20:32	05:53 (29) 06:15 (29)
17	07:21 16:56	06:51 17:34	06:08 18:06	06:17 19:39	06:58 (34) 18:13 (25)	05:39 20:10	06:23 (30) 20:32	05:53 (29) 06:15 (29)
18	07:20 16:57	06:50 17:35	06:07 18:07	06:16 19:40	06:57 (34) 18:12 (25)	05:38 20:11	06:24 (30) 20:33	05:54 (29) 06:17 (29)
19	07:20 16:58	06:48 17:36	06:05 18:08	06:14 19:41	06:56 (34) 18:10 (25)	05:37 20:12	06:27 (30) 20:33	05:54 (29) 06:17 (29)
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	06:56 (34) 18:08 (25)	05:36 20:13	05:25 20:33	05:54 (29) 06:17 (29)
21	07:18 17:00	06:46 17:39	06:01 18:10	06:11 19:43	06:55 (34) 18:06 (25)	05:36 20:14	05:26 20:34	05:54 (29) 06:17 (29)
22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 19:44	06:55 (34) 18:04 (25)	05:35 20:15	05:26 20:34	05:54 (29) 06:17 (29)
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	06:54 (34) 18:00 (25)	05:34 20:16	05:26 20:34	05:55 (29) 06:18 (29)
24	07:16 17:04	06:41 17:42	05:56 18:13	06:07 19:46	06:54 (34) 17:56 (25)	05:33 20:17	05:26 20:34	05:55 (29) 06:18 (29)
25	07:16 17:05	06:40 17:43	05:55 18:15	06:06 19:48	06:55 (34) 07:14 (34)	05:33 20:18	05:27 20:34	05:55 (29) 06:18 (29)
26	07:15 17:06	06:38 17:44	05:53 18:16	06:04 19:49	06:55 (34) 07:13 (34)	05:32 20:19	05:27 20:34	05:55 (29) 06:17 (29)
27	07:14 17:08	06:37 17:46	05:51 18:17	06:03 19:50	06:56 (34) 07:13 (34)	05:31 20:19	05:27 20:34	05:56 (29) 06:18 (29)
28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	06:56 (34) 07:11 (34)	05:31 20:20	05:28 20:34	05:56 (29) 06:18 (29)
29	07:13 17:10		06:48 19:19	06:00 19:52	06:58 (34) 18:05 (25)	05:30 19:52	05:28 20:34	05:57 (29) 06:18 (29)
30	07:12 17:11		06:46 19:20	05:59 19:53	07:01 (34) 18:22 (25)	05:29 20:22	05:28 20:34	05:57 (29) 06:18 (29)
31	07:11 17:13		06:45 19:21	05:58 18:00 (25)	07:06 (34) 18:22 (25)	05:29 20:23	05:58 (29) 06:04 (29)	
Potential sun hours	297	297	369	399	448	452	452	609
Total, worst case			102	988	293			

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

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

SHADOW - Calendar

Shadow receptor: G - F08

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
- The sun is shining all the day, from sunrise to sunset
 - The rotor plane is always perpendicular to the line from the WTG to the sun
 - The WTG is always operating

	July	August	September	October	November	December			
1	05:29	05:57 (29)	05:53	06:29 (30)	06:24	17:36 (25)	06:54	06:28	07:03
	20:34	22 06:19 (29)	20:15	19 06:48 (30)	19:32	42 18:18 (25)	18:42	16:55	16:31
2	05:29	05:57 (29)	05:54	06:29 (30)	06:25	17:38 (25)	06:55	06:29	07:04
	20:34	21 06:18 (29)	20:14	20 06:49 (30)	19:31	40 18:18 (25)	18:40	16:54	16:30
3	05:30	05:58 (29)	05:55	06:29 (30)	06:26	17:39 (25)	06:56	06:30	07:05
	20:34	21 06:19 (29)	20:13	20 06:49 (30)	19:29	39 18:18 (25)	18:38	16:53	16:30
4	05:30	05:58 (29)	05:56	06:29 (30)	06:27	17:40 (25)	06:57	06:31	07:06
	20:34	20 06:18 (29)	20:12	20 06:49 (30)	19:27	38 18:18 (25)	18:37	16:51	16:30
5	05:31	05:59 (29)	05:57	06:29 (30)	06:28	17:42 (25)	06:58	06:33	07:07
	20:34	19 06:18 (29)	20:11	19 06:48 (30)	19:26	35 18:17 (25)	18:35	16:50	16:30
6	05:32	05:59 (29)	05:58	06:29 (30)	06:29	17:43 (25)	06:59	06:34	07:08
	20:33	18 06:17 (29)	20:10	19 06:48 (30)	19:24	34 18:17 (25)	18:33	16:49	16:30
7	05:32	06:00 (29)	05:59	06:30 (30)	06:30	17:45 (25)	07:00	06:35	07:09
	20:33	17 06:17 (29)	20:08	18 06:48 (30)	19:22	32 18:17 (25)	18:32	16:48	16:30
8	05:33	06:00 (29)	06:00	06:30 (30)	06:31	17:46 (25)	07:01	06:36	07:10
	20:33	16 06:16 (29)	20:07	17 06:47 (30)	19:21	30 18:16 (25)	18:30	16:47	16:29
9	05:34	06:02 (29)	06:01	06:30 (30)	06:32	17:48 (25)	07:02	06:37	07:10
	20:32	14 06:16 (29)	20:06	15 06:45 (30)	19:19	28 18:16 (25)	18:29	16:46	16:29
10	05:34	06:03 (29)	06:02	06:31 (30)	06:33	17:49 (25)	07:03	06:39	07:11
	20:32	13 06:16 (29)	20:05	13 06:44 (30)	19:17	26 18:15 (25)	18:27	16:45	16:29
11	05:35	06:04 (29)	06:03	06:33 (30)	06:34	17:50 (25)	07:04	06:40	07:12
	20:32	10 06:14 (29)	20:03	9 06:42 (30)	19:16	25 18:15 (25)	18:25	16:44	16:30
12	05:36	06:06 (29)	06:04		06:35	17:52 (25)	07:05	06:41	07:13
	20:31	7 06:13 (29)	20:02		19:14	22 18:14 (25)	18:24	16:43	16:30
13	05:36		06:05		06:36	17:53 (25)	07:06	06:42	07:14
	20:31		20:01	7 07:15 (34)	19:12	20 18:13 (25)	18:22	16:42	16:30
14	05:37		06:06		06:37	17:55 (25)	07:07	06:43	07:15
	20:30		19:59	12 07:17 (34)	19:11	17 18:12 (25)	18:21	16:41	16:30
15	05:38		06:07		06:38	17:56 (25)	07:08	06:45	07:15
	20:30		19:58	15 07:19 (34)	19:09	15 18:11 (25)	18:19	16:40	16:30
16	05:39		06:08		06:38	17:57 (25)	07:10	06:46	07:16
	20:29		19:57	18 07:20 (34)	19:07	13 18:10 (25)	18:17	16:39	16:30
17	05:39		06:09		06:39	17:59 (25)	07:11	06:47	07:17
	20:28		19:55	19 07:20 (34)	19:05	9 18:08 (25)	18:16	16:38	16:31
18	05:40		06:10		06:40	18:00 (25)	07:12	06:48	07:17
	20:28		19:54	18 07:19 (34)	19:04	7 18:07 (25)	18:14	16:38	16:31
19	05:41		06:11		06:41	18:02 (25)	07:13	06:49	07:18
	20:27		19:52	28 18:03 (25)	19:02	3 18:05 (25)	18:13	16:37	16:31
20	05:42		06:12		06:42		07:14	06:50	07:19
	20:26		19:51	35 18:07 (25)	19:00		18:11	16:36	16:32
21	05:43		06:13		06:43		07:15	06:52	07:19
	20:26		19:49	39 18:09 (25)	18:59		18:10	16:36	16:32
22	05:44		06:14		06:44		07:16	06:53	07:20
	20:25		19:48	42 18:11 (25)	18:57		18:09	16:35	16:33
23	05:45		06:15		06:45		07:17	06:54	07:20
	20:24		19:46	43 18:13 (25)	18:55		18:07	16:34	16:33
24	05:45		06:16		06:46		07:19	06:55	07:21
	20:23		19:45	44 18:14 (25)	18:54		18:06	16:34	16:34
25	05:46	06:36 (30)	06:17		06:47		06:20	06:56	07:21
	20:22	6 06:42 (30)	19:43	45 18:15 (25)	18:52		17:04	16:33	16:34
26	05:47	06:34 (30)	06:18		06:49		06:21	06:57	07:21
	20:21	10 06:44 (30)	19:42	45 18:16 (25)	18:50		17:03	16:33	16:35
27	05:48	06:32 (30)	06:19		06:50		06:22	06:58	07:22
	20:20	13 06:45 (30)	19:40	43 18:17 (25)	18:48		17:02	16:32	16:36
28	05:49	06:31 (30)	06:20		06:51		06:23	06:59	07:22
	20:19	15 06:46 (30)	19:39	45 18:17 (25)	18:47		17:00	16:32	16:36
29	05:50	06:30 (30)	06:21		06:52		06:24	07:01	07:22
	20:18	17 06:47 (30)	19:37	45 18:18 (25)	18:45		16:59	16:31	16:37
30	05:51	06:30 (30)	06:22		06:53		06:25	07:02	07:23
	20:17	17 06:47 (30)	19:35	44 18:18 (25)	18:43		16:58	16:31	16:38
31	05:52	06:29 (30)	06:23		06:54		06:27		07:23
	20:16	19 06:48 (30)	19:34	42 18:17 (25)			16:56		16:39
Potential sun hours	459		428		375		345	298	288
Total, worst case		295		818		475			

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

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

SHADOW - Calendar

Shadow receptor: H - F10

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	January	February	March	April	May	June			
1	07:23	07:10	07:44 (27)	06:34	06:43	05:57	05:28		
	16:40	17:14	37 08:21 (26)	17:48	19:22	19:54	20:23		
2	07:23	07:09	07:43 (27)	06:32	06:41	05:56	05:28		
	16:41	17:15	39 08:22 (26)	17:49	19:23	19:55	20:24		
3	07:23	07:08	07:43 (27)	06:31	06:40	05:55	05:28		
	16:41	17:16	40 08:23 (26)	17:50	19:24	19:56	20:25		
4	07:23	07:07	07:43 (27)	06:29	06:38	05:53	05:27		
	16:42	17:18	40 08:23 (26)	17:51	19:25	19:57	20:26		
5	07:23	07:06	07:43 (27)	06:28	06:37	05:52	05:27		
	16:43	17:19	40 08:23 (26)	17:53	19:26	19:58	20:26		
6	07:23	07:05	07:42 (27)	06:26	06:35	05:51	05:27		
	16:44	17:20	41 08:23 (26)	17:54	19:27	19:59	20:27		
7	07:23	07:04	07:42 (27)	06:25	06:33	07:06 (31)	05:26		
	16:45	17:21	41 08:23 (26)	17:55	19:28	7 07:13 (31)	20:28		
8	07:23	07:02	07:43 (27)	06:23	06:32	07:03 (31)	05:49	06:25 (34)	05:26
	16:46	17:23	40 08:23 (26)	17:56	19:29	18 18:34 (2)	20:01	4 06:29 (34)	20:28
9	07:23	07:01	07:43 (27)	06:21	06:30	07:02 (31)	05:48	06:22 (34)	05:26
	16:47	17:24	40 08:23 (26)	17:57	19:31	28 18:38 (2)	20:02	10 06:32 (34)	20:29
10	07:23	07:00	07:44 (27)	06:20	06:28	07:00 (31)	05:46	06:21 (34)	05:26
	16:48	17:25	39 08:23 (26)	17:58	19:32	33 18:39 (2)	20:03	12 06:33 (34)	20:29
11	07:23	06:59	07:45 (27)	06:18	06:27	06:59 (31)	05:45	06:20 (34)	05:25
	16:49	17:26	37 08:22 (26)	17:59	19:33	36 18:39 (2)	20:04	14 06:34 (34)	20:30
12	07:22	06:58	07:46 (27)	06:16	06:25	06:59 (31)	05:44	06:19 (34)	05:25
	16:50	17:28	35 08:21 (26)	18:00	19:34	38 18:40 (2)	20:05	16 06:35 (34)	20:30
13	07:22	06:56	07:48 (27)	06:15	06:24	06:58 (31)	05:43	06:18 (34)	05:25
	16:51	17:29	32 08:20 (26)	18:02	19:35	39 18:40 (2)	20:06	18 06:36 (34)	20:31
14	07:22	06:55	07:57 (26)	06:13	06:22	06:58 (31)	05:42	06:18 (34)	05:25
	16:52	17:30	23 08:20 (26)	18:03	19:36	40 18:41 (2)	20:07	18 06:36 (34)	20:31
15	07:21	06:54	07:58 (26)	06:11	06:20	06:58 (31)	05:41	06:17 (34)	05:25
	16:53	17:31	19 08:17 (26)	18:04	19:37	39 18:40 (2)	20:08	19 06:36 (34)	20:32
16	07:21	06:53	08:00 (26)	06:10	06:19	06:59 (31)	05:40	06:17 (34)	05:25
	16:55	17:33	16 08:16 (26)	18:05	19:38	38 18:40 (2)	20:09	19 06:36 (34)	20:32
17	07:21	06:51	08:04 (26)	06:08	06:17	06:59 (31)	05:39	06:18 (34)	05:25
	16:56	17:34	9 08:13 (26)	18:06	19:39	35 18:39 (2)	20:10	19 06:37 (34)	20:32
18	07:20	06:50	08:07	06:07	06:16	07:01 (31)	05:38	06:18 (34)	05:25
	16:57	17:35	18:07	19:40	31 18:39 (2)	20:11	19 06:37 (34)	20:33	
19	07:20	06:48	08:05	06:14	06:23	07:02 (31)	05:37	06:18 (34)	05:25
	16:58	17:36	18:08	19:41	25 18:37 (2)	20:12	19 06:37 (34)	20:33	
20	07:19	06:47	08:03	06:13	06:22	18:21 (2)	05:37	06:18 (34)	05:25
	16:59	17:37	18:09	19:42	15 18:36 (2)	20:13	18 06:36 (34)	20:33	
21	07:18	06:46	08:02	06:11	06:20	18:22 (2)	05:36	06:18 (34)	05:26
	17:00	17:39	18:10	19:43	12 18:34 (2)	20:14	18 06:36 (34)	20:34	
22	07:18	06:44	08:00	06:10	06:19	18:25 (2)	05:35	06:19 (34)	05:26
	17:02	17:40	18:11	19:44	6 18:31 (2)	20:15	17 06:36 (34)	20:34	
23	07:17	06:43	08:08	06:08	06:17	05:34	05:34	06:20 (34)	05:26
	17:03	17:41	18:12	19:45	15 06:35 (34)	20:34			
24	07:16	06:41	08:05	06:07	06:16	05:33	05:33	06:20 (34)	05:26
	17:04	17:42	18:13	19:46	14 06:34 (34)	20:34			
25	07:16	08:00 (26)	06:40	05:55	06:06	05:33	06:22 (34)	05:27	
	17:05	11 08:11 (26)	17:43	18:15	19:48	20:18	12 06:34 (34)	20:34	
26	07:15	07:58 (26)	06:38	05:53	06:04	05:32	06:22 (34)	05:27	
	17:06	15 08:13 (26)	17:44	18:16	19:49	20:19	11 06:33 (34)	20:34	
27	07:14	07:58 (26)	06:37	05:51	06:03	05:31	06:23 (34)	05:27	
	17:08	18 08:16 (26)	17:46	18:17	19:50	20:19	8 06:31 (34)	20:34	
28	07:13	07:49 (27)	06:35	05:50	06:01	05:31	06:26 (34)	05:28	
	17:09	28 08:17 (26)	17:47	18:18	19:51	20:20	4 06:30 (34)	20:34	
29	07:13	07:46 (27)	06:34	06:48	06:00	05:30	05:30	05:28	
	17:10	33 08:19 (26)	17:46	19:19	19:52	20:21	20:34		
30	07:12	07:45 (27)	06:33	06:46	05:59	05:30	05:30	05:28	
	17:11	35 08:20 (26)	17:45	19:20	19:53	20:22	20:34		
31	07:11	07:44 (27)	06:32	06:45	05:58	05:29	05:29	05:28	
	17:13	37 08:21 (26)	17:44	19:21	19:54	20:23	20:34		
Potential sun hours	297	297	369	399	440	448	304	452	
Total, worst case	177	568	440	304	452				

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

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

SHADOW - Calendar

Shadow receptor: H - F10

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

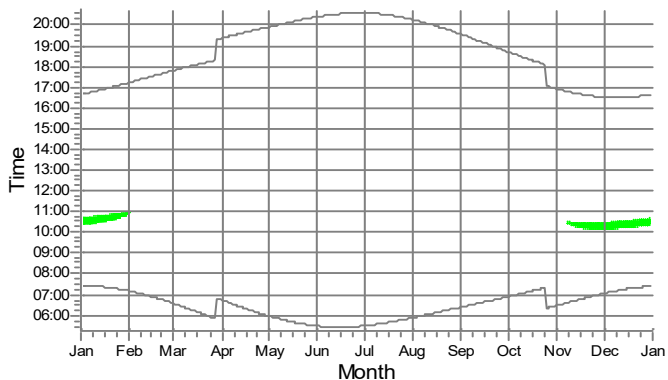
	July	August	September	October	November	December			
1	05:29	05:53	06:30 (34)	06:24	06:58 (31)	06:54	06:28	07:13 (27)	07:03
	20:34	20:15	16 06:46 (34)	19:32	36 18:38 (2)	18:42	16:55	39 07:52 (26)	16:31
2	05:29	05:54	06:31 (34)	06:25	06:58 (31)	06:55	06:29	07:13 (27)	07:04
	20:34	20:14	14 06:45 (34)	19:31	33 18:37 (2)	18:40	16:54	40 07:53 (26)	16:30
3	05:30	05:55	06:32 (34)	06:26	06:59 (31)	06:56	06:30	07:13 (27)	07:05
	20:34	20:13	12 06:44 (34)	19:29	28 18:35 (2)	18:38	16:53	40 07:53 (26)	16:30
4	05:30	05:56	06:33 (34)	06:27	07:00 (31)	06:57	06:31	07:12 (27)	07:06
	20:34	20:12	9 06:42 (34)	19:27	18 18:31 (2)	18:37	16:51	41 07:53 (26)	16:30
5	05:31	05:57	06:28	06:28	07:02 (31)	06:58	06:33	07:12 (27)	07:07
	20:34	20:11	06:26	8 07:10 (31)	18:35	16:50	41 07:53 (26)	16:30	
6	05:32	05:58	06:29	06:29	06:59	06:59	06:34	07:13 (27)	07:08
	20:33	20:10	19:24	18:33	16:49	40 07:53 (26)	16:30		
7	05:32	05:59	06:30	06:30	07:00	06:35	07:13 (27)	07:09	
	20:33	20:08	19:22	18:32	16:48	40 07:53 (26)	16:30		
8	05:33	06:00	06:31	06:31	07:01	06:36	07:13 (27)	07:10	
	20:33	20:07	19:21	18:30	16:47	39 07:52 (26)	16:30		
9	05:34	06:01	06:32	06:32	07:02	06:37	07:14 (27)	07:10	
	20:32	20:06	19:19	18:29	16:46	39 07:53 (26)	16:29		
10	05:34	06:02	06:33	06:33	07:03	06:39	07:14 (27)	07:11	
	20:32	20:05	19:17	18:27	16:45	38 07:52 (26)	16:30		
11	05:35	06:03	06:34	06:34	07:04	06:40	07:15 (27)	07:12	
	20:32	20:03	19:16	18:25	16:44	36 07:51 (26)	16:30		
12	05:36	06:04	06:35	06:35	07:05	06:41	07:16 (27)	07:13	
	20:31	20:02	19:14	18:24	16:43	34 07:50 (26)	16:30		
13	05:36	06:05	06:36	06:36	07:06	06:42	07:19 (27)	07:14	
	20:31	20:01	19:12	18:22	16:42	31 07:50 (26)	16:30		
14	05:37	06:06	06:37	06:37	07:07	06:43	07:21 (27)	07:15	
	20:30	19:59	19:11	18:21	16:41	28 07:49 (26)	16:30		
15	05:38	06:07	06:38	06:38	07:08	06:45	07:30 (26)	07:15	
	20:30	19:58	19:09	18:19	16:40	18 07:48 (26)	16:30		
16	05:39	06:33 (34)	06:08	06:39	07:10	06:46	07:32 (26)	07:16	
	20:29	7 06:40 (34)	19:57	19:07	18:17	16:39	15 07:47 (26)	16:30	
17	05:39	06:32 (34)	06:09	06:39	07:11	06:47	07:34 (26)	07:17	
	20:28	10 06:42 (34)	19:55	19:05	18:16	16:38	11 07:45 (26)	16:31	
18	05:40	06:31 (34)	06:10	06:40	07:12	06:48	07:17	07:17	
	20:28	12 06:43 (34)	19:54	19:04	18:14	16:38	16:31		
19	05:41	06:31 (34)	06:11	06:41	07:13	06:49	07:18	07:18	
	20:27	13 06:44 (34)	19:52	19:02	18:13	16:37	16:31		
20	05:42	06:29 (34)	06:12	06:42	07:14	06:50	07:19	07:19	
	20:26	15 06:44 (34)	19:51	19:00	18:11	16:36	16:32		
21	05:43	06:29 (34)	06:13	18:29 (2)	06:43	07:15	06:52	07:19	
	20:26	16 06:45 (34)	19:49	8 18:37 (2)	18:59	18:10	16:36	16:32	
22	05:44	06:29 (34)	06:14	18:27 (2)	06:44	07:16	06:53	07:20	
	20:25	17 06:46 (34)	19:48	12 18:39 (2)	18:57	18:09	16:35	16:33	
23	05:45	06:29 (34)	06:15	18:25 (2)	06:45	07:17	06:54	07:20	
	20:24	17 06:46 (34)	19:46	15 18:40 (2)	18:55	18:07	16:34	16:33	
24	05:45	06:29 (34)	06:16	07:06 (31)	06:46	07:19	06:55	07:21	
	20:23	18 06:47 (34)	19:45	25 18:41 (2)	18:54	18:06	16:34	16:34	
25	05:46	06:29 (34)	06:17	07:03 (31)	06:48	06:20	07:33 (26)	06:56	
	20:22	18 06:47 (34)	19:43	32 18:42 (2)	18:52	17:04	10 07:43 (26)	16:33	
26	05:47	06:29 (34)	06:18	07:02 (31)	06:49	06:21	07:30 (26)	06:57	
	20:21	19 06:48 (34)	19:42	35 18:42 (2)	18:50	17:03	16 07:46 (26)	16:33	
27	05:48	06:28 (34)	06:19	07:01 (31)	06:50	06:22	07:27 (26)	06:58	
	20:20	19 06:47 (34)	19:40	38 18:42 (2)	18:48	17:02	20 07:47 (26)	16:32	
28	05:49	06:28 (34)	06:20	07:00 (31)	06:51	06:23	07:20 (27)	06:59	
	20:19	19 06:47 (34)	19:39	39 18:42 (2)	18:47	17:00	28 07:49 (26)	16:32	
29	05:50	06:28 (34)	06:21	06:59 (31)	06:52	06:24	07:18 (27)	07:01	
	20:18	19 06:47 (34)	19:37	40 18:42 (2)	18:45	16:59	32 07:50 (26)	16:31	
30	05:51	06:28 (34)	06:22	06:59 (31)	06:53	06:25	07:16 (27)	07:02	
	20:17	18 06:46 (34)	19:35	39 18:41 (2)	18:43	16:58	35 07:51 (26)	16:31	
31	05:52	06:29 (34)	06:23	06:58 (31)	06:54	06:27	07:14 (27)	07:03	
	20:16	17 06:46 (34)	19:34	38 18:39 (2)	18:41	16:56	37 07:51 (26)	16:31	
Potential sun hours	459	428	375	345	298	288			
Total, worst case	254	372	123	178	570				

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

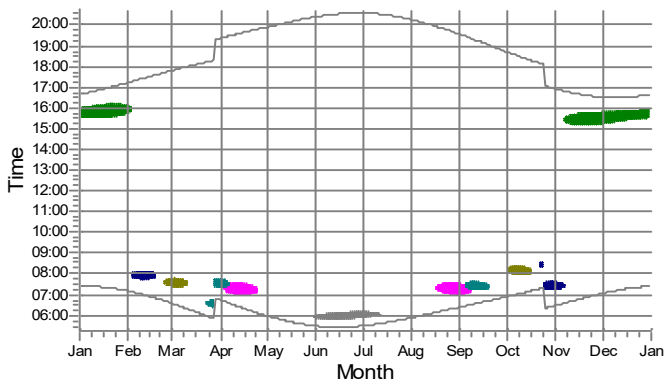
Day in month	Sun rise (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)		Last time (hh:mm) with flicker	(WTG causing flicker last time)

SHADOW - Calendar, graphical

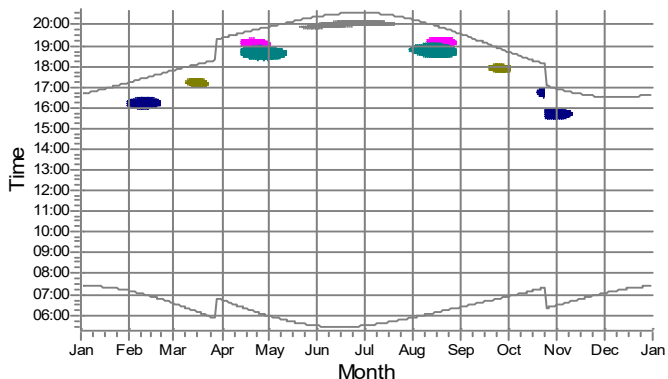
A: F01



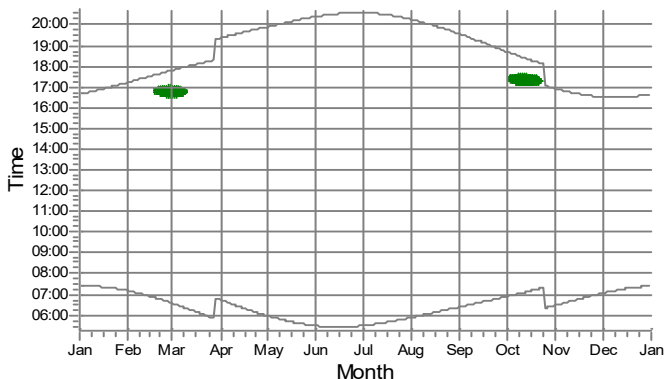
B: F02



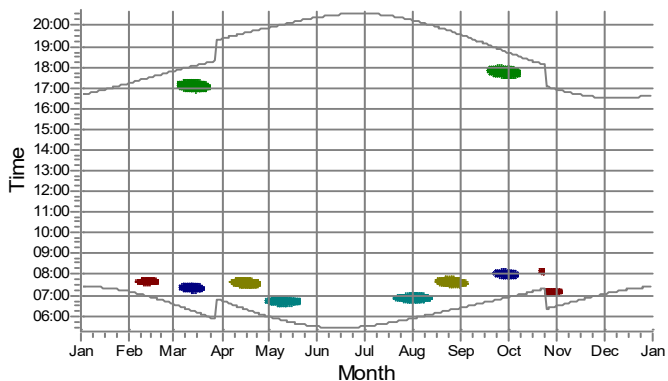
C: F03



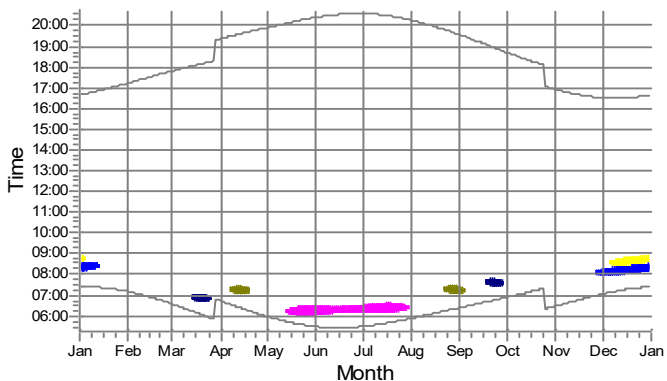
D: F04



E: F05



F: F07

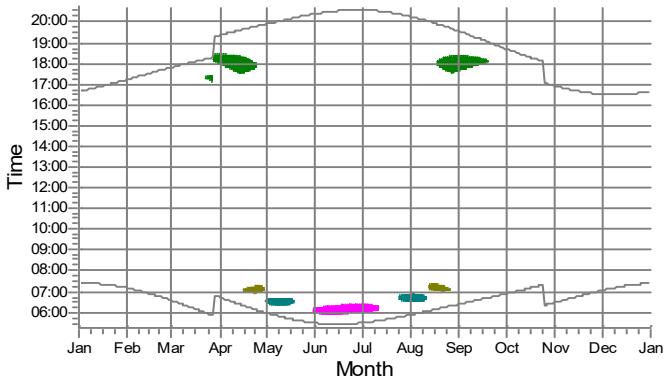


WTGs

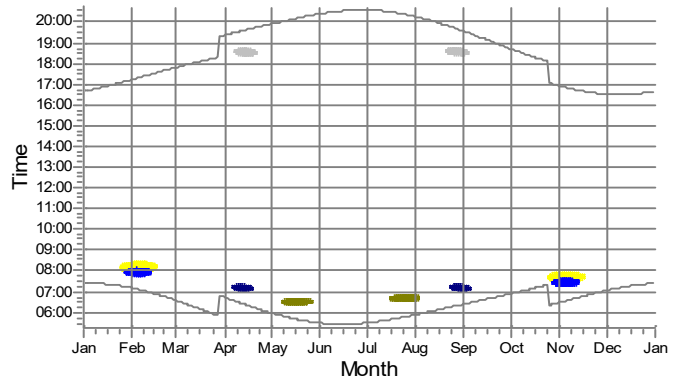


SHADOW - Calendar, graphical

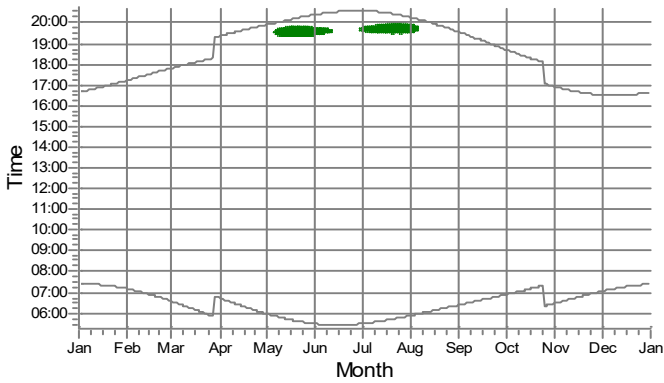
G: F08



H: F10



I: F11



WTGs

- | | | | |
|--|---|---|---|
|  25: M01 |  27: M05 |  30: M08 |  34: M12 |
|  26: M04 |  29: M07 |  31: M09 |  2: A03 |

SHADOW - Calendar per WTG

WTG: 25 - M01

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:23 15:29-15:56/27 16:40	07:10 15:42-16:03/21 17:14	06:34 16:28-17:01/33 17:48	06:43 17:58-18:22/24 19:22	05:57 19:54	05:29 19:21-19:42/21 20:23
2	07:23 15:29-15:56/27 16:41	07:09 15:44-16:02/18 17:15	06:32 16:28-17:00/32 17:49	06:41 17:56-18:22/26 19:23	05:56 19:55	05:28 19:22-19:42/20 20:24
3	07:23 15:29-15:57/28 16:41	07:08 15:47-16:00/13 17:16	06:31 16:28-17:00/32 17:50	06:40 17:54-18:22/28 19:24	05:55 19:56	05:28 19:22-19:41/19 20:25
4	07:23 15:29-15:58/29 16:42	07:07 17:18	06:29 16:28-16:59/31 17:51 17:00-17:09/9	06:38 17:52-18:22/30 19:25	05:54 19:57	05:27 19:23-19:41/18 20:26
5	07:23 15:29-15:59/30 16:43	07:06 17:19	06:28 16:29-17:13/44 17:53	06:37 17:50-18:22/32 19:26	05:52 19:58	05:27 19:24-19:41/17 20:26
6	07:23 15:29-15:59/30 16:44	07:05 17:20	06:26 16:29-17:15/46 17:54	06:35 17:47-18:21/34 19:27	05:51 19:30-19:32/2 19:59	05:27 19:24-19:40/16 20:27
7	07:23 15:29-16:00/31 16:45	07:04 17:21	06:25 16:30-17:16/46 17:55	06:33 17:46-18:21/35 19:28	05:50 19:24-19:36/12 20:00	05:26 19:25-19:40/15 20:28
8	07:23 15:29-16:01/32 16:46	07:02 17:23	06:23 16:32-17:18/46 17:56	06:32 17:43-18:21/38 19:29	05:49 19:22-19:37/15 20:01	05:26 19:27-19:39/12 20:28
9	07:23 15:30-16:01/31 16:47	07:01 17:24	06:21 16:33-17:18/45 17:57	06:30 17:42-18:21/39 19:31	05:48 19:21-19:38/17 20:02	05:26 19:28-19:39/11 20:29
10	07:23 15:30-16:02/32 16:48	07:00 17:25	06:20 16:34-17:18/44 17:58	06:28 17:40-18:20/40 19:32	05:46 19:20-19:39/19 20:03	05:26 19:28-19:37/9 20:29
11	07:23 15:29-16:02/33 16:49	06:59 17:26	06:18 16:39-16:46/7 17:59 16:47-17:19/32	06:27 17:37-18:19/42 19:33	05:45 19:19-19:40/21 20:04	05:25 19:29-19:37/8 20:30
12	07:22 15:30-16:03/33 16:50	06:58 17:28	06:16 16:46-17:19/33 18:00	06:25 17:36-18:18/42 19:34	05:44 19:18-19:41/23 20:05	05:25 19:31-19:36/5 20:30
13	07:22 15:31-16:04/33 16:51	06:56 17:29	06:15 16:45-17:19/34 18:02	06:24 17:33-18:17/44 19:35	05:43 19:17-19:42/25 20:06	05:25 20:31
14	07:22 15:30-16:04/34 16:52	06:55 17:30	06:13 16:45-17:19/34 18:03	06:22 17:32-18:17/45 19:36	05:42 19:17-19:43/26 20:07	05:25 20:31
15	07:21 15:31-16:05/34 16:54	06:54 17:31	06:12 16:45-17:19/34 18:04	06:21 17:30-18:15/45 19:37	05:41 19:16-19:43/27 20:08	05:25 20:32
16	07:21 15:31-16:05/34 16:55	06:53 17:33	06:10 16:44-17:18/34 18:05	06:19 17:32-18:15/43 19:38	05:40 19:16-19:44/28 20:09	05:25 20:32
17	07:21 15:31-16:06/35 16:56	06:51 17:34	06:08 16:45-17:18/33 18:06	06:17 17:32-18:13/41 19:39	05:39 19:16-19:44/28 20:10	05:25 20:33
18	07:20 15:31-16:06/35 16:57	06:50 16:41-16:49/8 17:35	06:07 16:45-17:17/32 18:07	06:16 17:34-18:12/38 19:40	05:38 19:16-19:45/29 20:11	05:25 20:33
19	07:20 15:32-16:07/35 16:58	06:49 16:38-16:53/15 17:36	06:05 16:45-17:16/31 18:08	06:14 17:34-18:10/36 19:41	05:37 19:16-19:45/29 20:12	05:25 20:33
20	07:19 15:32-16:07/35 16:59	06:47 16:35-16:55/20 17:37	06:03 16:46-17:16/30 18:09	06:13 17:36-18:08/32 19:42	05:37 19:16-19:44/28 20:13	05:25 20:33
21	07:18 15:32-16:07/35 17:00	06:46 16:34-16:57/23 17:39	06:02 16:47-17:14/27 18:10	06:11 17:38-18:06/28 19:43	05:36 19:16-19:44/28 20:14	05:26 20:34
22	07:18 15:33-16:08/35 17:02	06:44 16:32-16:58/26 17:40	06:00 16:47-17:12/25 18:11	06:10 17:40-18:04/24 19:44	05:35 19:17-19:45/28 20:15	05:26 20:34
23	07:17 15:34-16:08/34 17:03	06:43 16:31-16:59/28 17:41	05:58 16:49-17:11/22 18:12	06:08 17:42-18:00/18 19:45	05:34 19:17-19:45/28 20:16	05:26 20:34
24	07:16 15:34-16:07/33 17:04	06:41 16:30-16:59/29 17:42	05:57 16:51-17:08/17 18:14 17:15-17:17/2	06:07 17:48-17:56/8 19:46	05:33 19:17-19:44/27 20:17	05:26 20:34
25	07:16 15:34-16:07/33 17:05	06:40 16:29-17:00/31 17:43	05:55 16:54-17:04/10 18:15 17:12-17:18/6	06:06 19:48	05:33 19:18-19:45/27 20:18	05:27 20:34
26	07:15 15:35-16:07/32 17:06	06:38 16:28-17:00/32 17:45	05:53 17:11-17:20/9 18:16	06:04 19:49	05:32 19:18-19:44/26 20:19	05:27 20:34
27	07:14 15:37-16:07/30 17:08	06:37 16:28-17:01/33 17:46	05:51 17:08-17:20/12 18:17	06:03 19:50	05:31 19:18-19:43/25 20:19	05:27 20:34
28	07:13 15:37-16:07/30 17:09	06:35 16:28-17:00/32 17:47	05:50 17:06-17:20/14 18:18	06:01 19:51	05:31 19:19-19:44/25 20:20	05:28 20:34
29	07:13 15:38-16:06/28 17:10		06:48 18:05-18:22/17 19:19	06:00 19:52	05:30 19:19-19:43/24 20:21	05:28 20:34
30	07:12 15:39-16:05/26 17:11		06:46 18:02-18:22/20 19:20	05:59 19:53	05:30 19:20-19:43/23 20:22	05:29 19:36-19:39/3 20:34
31	07:11 15:41-16:05/24 17:13		06:45 18:00-18:22/22 19:21		05:29 19:20-19:42/22 20:23	
Potential sun hours	297	297	369	399	448	452
Sum of minutes with flicker	978	329	945	812	612	174

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

SHADOW - Calendar per WTG

WTG: 25 - M01

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:29 19:35-19:41/6 20:34	05:53 19:29-19:52/23 20:15	06:24 17:36-18:18/42 19:32	06:54 17:25-17:59/34 18:42	06:28 16:55	07:03 15:11-15:44/33 16:31
2	05:29 19:33-19:42/9 20:34	05:54 19:30-19:51/21 20:14	06:25 17:38-18:18/40 19:31	06:55 17:25-17:58/33 18:40	06:29 16:54	07:04 15:12-15:45/33 16:30
3	05:30 19:33-19:44/11 20:34	05:55 19:31-19:50/19 20:13	06:26 17:39-18:18/39 19:29	06:56 17:14-17:57/43 18:38	06:30 16:53	07:05 15:13-15:45/32 16:30
4	05:31 19:32-19:44/12 20:34	05:56 19:32-19:49/17 20:12	06:27 17:40-18:18/38 19:27	06:57 17:11-17:56/45 18:37	06:31 16:51	07:06 15:13-15:45/32 16:30
5	05:31 19:32-19:46/14 20:34	05:57 19:34-19:48/14 20:11	06:28 17:42-18:17/35 19:26	06:58 17:09-17:55/46 18:35	06:33 16:50	07:07 15:14-15:45/31 16:30
6	05:32 19:31-19:46/15 20:33	05:58 19:36-19:45/9 20:10	06:29 17:43-18:17/34 19:24	06:59 17:07-17:53/46 18:33	06:34 16:49	07:08 15:15-15:45/30 16:30
7	05:32 19:31-19:47/16 20:33	05:59 20:08	06:30 17:45-18:17/32 19:22	07:00 17:06-17:51/45 18:32	06:35 15:22-15:25/3 16:48	07:09 15:15-15:45/30 16:30
8	05:33 19:30-19:47/17 20:33	06:00 20:07	06:31 17:46-18:16/30 19:21	07:01 17:04-17:49/45 18:30	06:36 15:17-15:30/13 16:47	07:10 15:16-15:45/29 16:30
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11	05:35 19:28-19:49/21 20:32	06:03 20:03	06:34 17:50-18:15/25 19:16	07:04 17:01-17:34/33 18:25	06:40 15:12-15:36/24 16:44	07:12 15:19-15:46/27 16:30
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18	05:40 19:27-19:54/27 20:28	06:10 19:54	06:41 17:43-17:51/8 19:04	07:12 17:01-17:30/29 18:14	06:48 15:08-15:41/33 16:38	07:17 15:24-15:47/23 16:31
19	05:41 19:27-19:54/27 20:27	06:11 17:52-18:03/11 19:52	06:42 17:39-17:55/16 19:02	07:13 17:02-17:29/27 18:13	06:49 15:08-15:42/34 16:37	07:18 15:24-15:47/23 16:31
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21	05:43 19:26-19:54/28 20:26	06:13 17:45-18:09/24 19:49	06:43 17:34-17:58/24 18:59	07:15 17:05-17:27/22 18:10	06:52 15:08-15:43/35 16:36	07:19 15:26-15:49/23 16:32
22	05:44 19:26-19:55/29 20:25	06:14 17:42-18:11/29 19:48	06:45 17:32-17:59/27 18:57	07:16 17:06-17:25/19 18:09	06:53 15:08-15:43/35 16:35	07:20 15:26-15:49/23 16:33
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31	05:52 19:28-19:53/25 20:16	06:23 17:35-18:17/42 19:34	 	06:27 16:56	 	07:23 15:29-15:55/26 16:39
Potential sun hours	459	428	375	345	298	288
Sum of minutes with flicker	687	554	833	774	704	814

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

SHADOW - Calendar per WTG

WTG: 26 - M04

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 08:35-08:50/15 16:40	07:10 07:54-08:21/27 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 07:23-07:52/29 16:55	07:03 16:31
2	07:23 08:36-08:50/14 16:40	07:09 07:53-08:22/29 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:28 20:24	05:29 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 07:23-07:53/30 16:54	07:04 16:30
3	07:23 08:37-08:49/12 16:41	07:08 07:53-08:23/30 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:38	06:30 07:23-07:53/30 16:53	07:05 16:30
4	07:23 08:39-08:49/10 16:42	07:07 07:53-08:23/30 17:18	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:25	05:30 20:34	05:56 20:12	06:27 19:27	06:57 18:37	06:31 07:22-07:53/31 16:51	07:06 16:30
5	07:23 08:41-08:48/7 16:43	07:06 07:53-08:23/30 17:19	06:28 17:53	06:36 19:26	05:52 19:58	05:27 20:26	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:33 07:22-07:53/31 16:50	07:07 16:30
6	07:23 16:44	07:05 07:52-08:23/31 17:20	06:26 17:54	06:35 19:27	05:51 19:59	05:27 20:27	05:32 20:33	05:58 20:10	06:29 19:24	06:59 18:33	06:34 07:23-07:53/30 16:49	07:08 16:30
7	07:23 16:45	07:04 07:52-08:23/31 17:21	06:24 17:55	06:33 19:28	05:50 20:00	05:26 20:27	05:32 20:33	05:59 20:09	06:30 19:22	07:00 18:32	06:35 07:23-07:53/30 16:48	07:09 08:27-08:34/7 16:30
8	07:23 16:46	07:02 07:53-08:23/30 17:23	06:23 17:56	06:32 19:29	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:07	06:31 19:21	07:01 18:30	06:36 07:23-07:52/29 16:47	07:10 08:26-08:36/10 16:29
9	07:23 16:47	07:01 07:53-08:23/30 17:24	06:21 17:57	06:30 19:30	05:47 20:02	05:26 20:29	05:34 20:32	06:01 20:06	06:32 19:19	07:02 18:28	06:37 07:24-07:53/29 16:46	07:10 08:25-08:37/12 16:29
10	07:23 16:48	07:00 07:54-08:23/29 17:25	06:20 17:58	06:28 19:32	05:46 20:03	05:26 20:29	05:34 20:32	06:02 20:05	06:33 19:17	07:03 18:27	06:38 07:25-07:52/27 16:45	07:11 08:25-08:39/14 16:29
11	07:23 16:49	06:59 07:54-08:22/28 17:26	06:18 17:59	06:27 19:33	05:45 20:04	05:25 20:30	05:35 20:32	06:03 20:03	06:34 19:16	07:04 18:25	06:40 07:25-07:51/26 16:44	07:12 08:25-08:40/15 16:30
12	07:22 16:50	06:58 07:55-08:21/26 17:28	06:16 18:00	06:25 19:34	05:44 20:05	05:25 20:30	05:36 20:31	06:04 20:02	06:35 19:14	07:05 18:24	06:41 07:26-07:50/24 16:43	07:13 08:25-08:41/16 16:30
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15	07:21 16:53	06:54 07:58-08:17/19 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:25 20:32	05:38 20:30	06:07 19:58	06:37 19:09	07:08 18:19	06:44 07:30-07:48/18 16:40	07:15 08:25-08:43/18 16:30
16	07:21 16:55	06:53 08:00-08:16/16 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:57	06:38 19:07	07:10 18:17	06:46 07:32-07:47/15 16:39	07:16 08:26-08:44/18 16:30
17	07:21 16:56	06:51 08:04-08:13/9 17:34	06:08 18:06	06:17 19:39	05:39 20:10	05:25 20:32	05:39 20:28	06:09 19:55	06:39 19:05	07:11 18:16	06:47 07:34-07:45/11 16:38	07:17 08:25-08:44/19 16:30
18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:40 19:04	07:12 18:14	06:48 07:17 16:38	07:18 08:26-08:45/19 16:31
19	07:20 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37	07:18 08:26-08:45/19 16:31
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21	07:18 17:00	06:46 17:39	06:01 18:10	06:11 19:43	05:36 20:14	05:26 20:34	05:43 20:25	06:13 19:49	06:43 18:59	07:15 18:10	06:52 16:35	07:19 08:28-08:47/19 16:32
22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:44 18:57	07:16 18:08	06:53 16:35	07:20 08:28-08:47/19 16:33
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31	07:11 17:13	07:54-08:21/27 17:50	06:32 18:21	05:45 19:54	05:29 20:23	05:27 20:34	05:52 20:16	06:23 19:34	06:54 16:56	07:08 16:57	07:03 07:23-07:51/28 16:31	07:23 08:34-08:50/16 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
Sum of minutes with flicker	199	442	0	0	0	0	0	0	0	149	434	419

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

SHADOW - Calendar per WTG

WTG: 27 - M05

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 08:08-08:28/20	07:10 07:44-08:02/18	06:34 06:43 05:57 05:28	05:29 05:53 06:24 06:54	06:28 07:13-07:32/19	07:03 07:56-08:10/14						
	16:40	17:14	17:48	19:22 19:54 20:23 20:34	20:15 19:32 18:42	16:55	16:31					
2	07:23 08:08-08:28/20	07:09 07:43-08:03/20	06:32 06:41 05:56 05:28	05:29 05:54 06:25 06:55	06:29 07:13-07:34/21	07:04 07:56-08:11/15						
	16:40	17:15	17:49	19:23 19:55 20:24 20:34	20:14 19:31 18:40	16:54	16:30					
3	07:23 08:09-08:28/19	07:08 07:43-08:04/21	06:31 06:40 05:55 05:28	05:30 05:55 06:26 06:56	06:30 07:13-07:34/21	07:05 07:56-08:12/16						
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4	07:23 08:09-08:29/20	07:07 07:43-08:04/21	06:29 06:38 05:53 05:27	05:30 05:56 06:27 06:57	06:31 07:12-07:34/22	07:06 07:56-08:13/17						
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	16:50	17:28	18:00	19:34 20:05 20:30 20:31	20:02 19:14 18:24	16:43	16:30					
13	07:22 08:18-08:28/10	06:56 07:48-07:59/11	06:15 06:24 05:43 05:25	05:36 06:05 06:35 07:06	06:42 07:19-07:30/11	07:14 07:58-08:18/20						
	16:51	17:29	18:01	19:35 20:06 20:31 20:31	20:01 19:12 18:22	16:42	16:30					
14	07:22 08:19-08:26/7	06:55	06:13 06:22 05:42 05:25	05:37 06:06 06:36 07:07	06:43 07:21-07:28/7	07:15 07:59-08:19/20						
	16:52	17:30	18:03	19:36 20:07 20:31 20:30	19:59 19:11 18:20	16:41	16:30					
15	07:21	06:54	06:11 06:20 05:41 05:25	05:38 06:07 06:37 07:08	06:44	07:15 07:59-08:20/21						
	16:53	17:31	18:04	19:37 20:08 20:32 20:29	19:58 19:09 18:19	16:40	16:30					
16	07:21	06:52	06:10 06:19 05:40 05:25	05:39 06:08 06:38 07:09	06:46	07:16 08:00-08:21/21						
	16:55	17:32	18:05	19:38 20:09 20:32 20:29	19:57 19:07 18:17	16:39	16:30					
17	07:20	06:51	06:08 06:17 05:39 05:25	05:39 06:09 06:39 07:11	06:47	07:17 08:00-08:20/20						
	16:56	17:34	18:06	19:39 20:10 20:32 20:28	19:55 19:05 18:16	16:38	16:31					
18	07:20	06:50	06:06 06:16 05:38 05:25	05:40 06:10 06:40 07:12	06:48	07:17 08:01-08:21/20						
	16:57	17:35	18:07	19:40 20:11 20:33 20:28	19:54 19:04 18:14	16:38	16:31					
19	07:19	06:48	06:05 06:14 05:37 05:25	05:41 06:11 06:41 07:13	06:49	07:18 08:00-08:21/21						
	16:58	17:36	18:08	19:41 20:12 20:33 20:27	19:52 19:02 18:13	16:37	16:31					
20	07:19	06:47	06:03 06:13 05:36 05:25	05:42 06:12 06:42 07:14	06:50	07:19 08:01-08:22/21						
	16:59	17:37	18:09	19:42 20:13 20:33 20:26	19:51 19:00 18:11	16:36	16:32					
21	07:18	06:46	06:01 06:11 05:36 05:26	05:43 06:13 06:43 07:15	06:51	07:19 08:02-08:23/21						
	17:00	17:39	18:10	19:43 20:14 20:34 20:25	19:49 18:59 18:10	16:35	16:32					
22	07:18	06:44	06:00 06:10 05:35 05:26	05:44 06:14 06:44 07:16	06:53	07:20 08:02-08:23/21						
	17:02	17:40	18:11	19:44 20:15 20:34 20:25	19:48 18:57 18:08	16:35	16:33					
23	07:17	06:43	05:58 06:08 05:34 05:26	05:44 06:15 06:45 07:17	06:54	07:20 08:02-08:23/21						
	17:03	17:41	18:12	19:45 20:16 20:34 20:24	19:46 18:55 18:07	16:34	16:30					
24	07:16	06:41	05:56 06:07 05:33 05:26	05:45 06:16 06:46 07:18	06:55	07:21 08:03-08:24/21						
	17:04	17:42	18:13	19:46 20:17 20:34 20:23	19:45 18:53 18:06	16:34	16:34					
25	07:16	06:40	05:55 06:06 05:33 05:27	05:46 06:17 06:47 07:20	06:56	07:21 08:04-08:24/20						
	17:05	17:43	18:14	19:47 20:18 20:34 20:22	19:43 18:52 17:04	16:34	16:34					
26	07:15	06:38	05:53 06:04 05:32 05:27	05:47 06:18 06:48 06:21	06:57	07:21 08:05-08:25/20						
	17:06	17:44	18:16	19:49 20:18 20:34 20:21	19:42 18:50 17:03	16:33	16:35					
27	07:14	06:37	05:51 06:03 05:31 05:27	05:48 06:19 06:49 06:22	06:58	07:22 08:05-08:25/20						
	17:08	17:46	18:17	19:50 20:19 20:34 20:20	19:40 18:48 17:01	16:32	16:36					
28	07:13 07:49-07:56/7	06:35	05:50 06:01 05:31 05:28	05:49 06:20 06:50 06:23	07:20-07:25/5	06:59 07:59-08:06/7	07:22 08:05-08:26/21					
	17:09	17:47	18:18	19:51 20:20 20:34 20:19	19:39 18:47 17:00	16:32	16:36					
29	07:12 07:46-07:58/12	06:48	06:00 05:30 05:28	05:50 06:21 06:52 06:24	07:18-07:29/11	07:00 07:58-08:08/10	07:22 08:05-08:26/21					
	17:10	17:49	18:20	19:52 20:21 20:34 20:18	19:37 18:45 16:59	16:31	16:37					
30	07:12 07:45-08:00/15	06:46	05:59 05:29 05:28	05:51 06:22 06:53 06:25	07:16-07:31/15	07:02 07:57-08:09/12	07:23 08:06-08:26/20					
	17:11	17:50	18:21	19:53 20:22 20:34 20:17	19:35 18:43 16:58	16:31	16:38					
31	07:11 07:44-08:01/17	06:45	05:58 05:29 05:28	05:52 06:23 06:54 06:27	07:14-07:32/18	06:27 07:14-07:32/18	07:23 08:07-08:27/20					
	17:13	17:52	18:23	19:54 20:23 20:34 20:16	19:34 16:56	16:31	16:39					
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
Sum of minutes with flicker	276	250	0	0	0	0	0	0	0	49	287	607

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

SHADOW - Calendar per WTG

WTG: 28 - M06

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:
 The sun is shining all the day, from sunrise to sunset
 The rotor plane is always perpendicular to the line from the WTG to the sun
 The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 19:48-19:59/11	05:29 19:54-20:08/14	05:52-06:07/15 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:28 19:48-19:59/12	05:29 19:55-20:09/14	05:52-06:06/14 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:28 19:49-20:01/12	05:30 19:54-20:08/14	05:53-06:07/14 20:13	06:26 19:29	06:56 18:38	06:30 16:53	07:05 16:30
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 19:25	05:53 19:57	05:27 19:49-20:01/12	05:30 19:55-20:08/13	05:53-06:06/13 20:12	06:27 19:27	06:57 18:37	06:31 16:51	07:06 16:30
5	07:23 16:43	07:06 17:19	06:28 17:53	06:36 19:26	05:52 19:58	05:27 19:48-20:01/13	05:31 19:55-20:09/14	05:54-06:06/12 20:11	06:28 19:26	06:58 18:35	06:33 16:50	07:07 16:30
6	07:23 16:44	07:05 17:20	06:26 17:54	06:35 19:27	05:51 19:59	05:26 19:49-20:02/13	05:32 19:55-20:08/13	05:54-06:05/11 20:10	06:29 19:24	06:59 18:33	06:34 16:49	07:08 16:30
7	07:23 16:45	07:04 17:21	06:24 17:55	06:33 19:28	05:50 20:00	05:26 19:49-20:02/13	05:32 19:55-20:05/10	05:55-06:05/10 20:08	06:30 19:22	07:00 18:32	06:35 16:48	07:09 16:29
8	07:23 16:46	07:02 17:23	06:23 17:56	06:32 19:29	05:49 20:01	05:26 19:50-20:03/13	05:33 19:55-20:07/12	05:55-06:04/9 20:07	06:00 19:21	06:31 18:30	07:01 16:47	07:10 16:29
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:30	05:47 20:02	05:26 19:50-20:04/14	05:33 19:55-20:07/12	05:56-06:04/8 20:06	06:01 19:19	06:32 18:28	07:02 16:46	07:10 16:29
10	07:23 16:48	07:00 17:25	06:20 17:58	06:28 19:32	05:46 20:03	05:25 19:49-20:04/15	05:34 19:56-20:07/11	05:57-06:04/7 20:05	06:02 19:17	06:32 18:27	07:03 16:45	06:39 16:30
11	07:23 16:49	06:59 17:26	06:18 17:59	06:27 19:33	05:45 20:04	05:25 19:50-20:04/14	05:35 19:55-20:06/11	05:57-06:02/5 20:03	06:03 19:16	06:33 18:25	07:04 16:44	06:40 16:29
12	07:22 16:50	06:58 17:28	06:16 18:00	06:25 19:34	05:44 20:05	05:25 19:50-20:05/15	05:36 19:56-20:06/10	05:58-06:01/3 20:02	06:04 19:14	06:34 18:24	07:05 16:43	06:41 16:30
13	07:22 16:51	06:56 17:29	06:15 18:01	06:24 19:35	05:43 20:06	05:25 19:51-20:05/14	05:36 19:56-20:06/10	05:59-06:00/1 20:01	06:05 19:12	06:35 18:22	07:06 16:42	06:42 16:30
14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:07	05:25 19:52-20:06/15	05:37 20:30	05:47-06:03/16 20:30	06:06 19:59	06:36 19:11	07:07 18:20	06:43 16:41
15	07:21 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:25 19:51-20:06/15	05:38 20:30	19:56-20:04/8 20:30	06:07 19:58	06:37 19:09	07:08 18:19	06:44 16:40
16	07:21 16:55	06:53 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:25 19:51-20:06/15	05:39 20:29	05:47-06:04/17 19:57-20:04/7	06:08 19:57	06:38 19:07	07:10 18:17	06:46 16:39
17	07:21 16:56	06:51 17:34	06:08 18:06	06:17 19:39	05:39 20:10	05:25 19:52-20:07/15	05:39 20:28	05:47-06:04/17 19:57-20:04/7	06:09 19:55	06:39 19:05	07:11 18:16	06:47 16:38
18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 19:52-20:07/15	05:40 20:28	05:48-06:05/17 19:58-20:03/5	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38
19	07:20 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 19:53-20:08/15	05:41 20:27	05:48-06:05/17 19:58-20:02/4	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	05:36 20:13	05:25 19:53-20:08/15	05:42 20:26	05:48-06:05/17 19:58-20:01/3	06:12 19:51	06:42 19:00	07:14 18:11	06:50 16:36
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:36 20:14	05:26 19:53-20:08/15	05:43 20:26	05:48-06:05/17 19:59-20:01/2	06:13 19:49	06:43 18:59	07:15 18:10	06:52 16:35
22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 19:53-20:08/15	05:44 20:25	05:48-06:05/17 19:58-20:03/5	06:14 19:48	06:44 18:57	07:16 18:08	06:53 16:33
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 19:53-20:08/15	05:44 20:24	05:48-06:05/17 19:58-20:02/4	06:15 19:46	06:45 18:55	07:17 18:07	06:54 16:34
24	07:16 17:04	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 19:54-20:09/15	05:45 20:23	05:49-06:06/17 19:58-20:01/3	06:16 19:45	06:46 18:53	07:18 18:06	06:55 16:34
25	07:16 17:05	06:40 17:43	05:55 18:15	06:05 19:47	05:33 20:18	05:26 19:54-20:09/15	05:46 20:22	05:49-06:06/17 19:58-20:01/3	06:17 19:43	06:47 18:52	06:20 17:04	06:56 16:33
26	07:15 17:06	06:38 17:44	05:53 18:16	06:04 19:49	05:32 20:18	05:27 19:54-20:08/14	05:47 20:21	05:49-06:06/17 19:58-20:01/3	06:18 19:42	06:48 18:50	06:21 17:03	06:57 16:33
27	07:14 17:08	06:37 17:46	05:51 18:17	06:03 19:50	05:31 20:19	05:27 19:54-20:09/15	05:48 20:20	05:50-06:06/16 19:58-20:01/3	06:19 19:40	06:49 18:48	06:22 17:01	06:58 16:32
28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 19:54-20:09/15	05:49 20:19	05:50-06:06/16 19:58-20:01/3	06:20 19:39	06:50 18:47	06:23 17:00	06:59 16:32
29	07:12 17:10	06:48 17:48	06:00 18:19	06:00 19:52	05:30 20:21	05:28 19:55-20:09/14	05:50 20:18	05:51-06:07/16 19:58-20:01/3	06:21 19:37	06:52 18:45	06:24 16:59	07:01 16:31
30	07:12 17:11	06:46 17:49	05:59 18:20	05:59 19:53	05:29 20:22	05:28 19:54-20:09/15	05:51 20:17	05:51-06:06/15 19:58-20:01/3	06:22 19:35	06:53 18:43	06:25 16:57	07:02 16:31
31	07:11 17:13	06:45 17:51	06:45 18:21	06:45 19:53	05:29 20:23	05:50-05:52/2 19:47-19:57/10	05:52 20:16	05:52-06:07/15 19:58-20:01/3	06:23 19:34	06:27 18:43	06:27 16:56	07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
Sum of minutes with flicker	0	0	0	0	63	850	328	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

SHADOW - Calendar per WTG

WTG: 30 - M08

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 07:19-07:41/22 19:22	05:57 06:28-06:31/3 19:54 06:33-06:47/14	18:16-18:53/37 20:23
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 07:19-07:40/21 19:23	05:56 06:24-06:35/11 19:55 06:35-06:48/13	18:17-18:52/35 20:24
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 07:19-07:39/20 19:24	05:55 06:22-06:36/14 19:56 06:36-06:49/13	18:18-18:52/34 20:25
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 07:20-07:39/19 19:25	05:53 06:21-06:38/17 19:57 06:38-06:50/12	18:18-18:52/34 20:25
5	07:23 16:43	07:06 17:19	06:28 17:52	06:36 07:21-07:37/16 19:26	05:52 06:20-06:39/19 19:58 06:39-06:51/12	18:19-18:51/32 20:26
6	07:23 16:44	07:05 17:20	06:26 17:54	06:35 07:22-07:34/12 19:27	05:51 06:20-06:39/19 19:59 06:39-06:51/12	18:19-18:49/30 20:27
7	07:23 16:45	07:04 17:21	06:24 17:55	06:33 07:25-07:31/6 19:28	05:50 06:18-06:39/21 20:00 06:39-06:51/12	18:20-18:48/28 20:27
8	07:23 16:46	07:02 17:23	06:23 17:56	06:32 19:29	05:49 06:18-06:39/21 20:01 06:39-06:51/12	18:21-18:47/26 20:28
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:30	05:47 06:18-06:39/21 20:02 06:39-06:51/12	18:23-18:46/23 20:29
10	07:23 16:48	07:00 17:25	06:20 17:58	06:28 19:32	05:46 06:18-06:39/21 20:03 06:39-06:51/12	18:24-18:45/21 20:29
11	07:23 16:49	06:59 17:26	06:18 17:59	06:27 19:33	05:45 06:18-06:39/21 20:04 06:39-06:51/12	18:26-18:43/17 20:30
12	07:22 16:50	06:58 17:28	06:16 18:00	06:25 19:34	05:44 06:19-06:39/20 20:05 06:39-06:51/12	18:29-18:40/11 20:30
13	07:22 16:51	06:56 17:29	06:15 18:01	06:24 19:35	05:43 06:19-06:38/19 20:06 06:38-06:50/12	20:31
14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 18:31-18:46/15 19:36	05:42 06:19-06:38/19 20:07 06:38-06:50/12	20:31
15	07:21 16:53	06:54 17:31	06:11 18:04	06:20 18:28-18:48/20 19:37	05:41 06:20-06:37/17 20:08 06:37-06:50/13	20:32
16	07:21 16:55	06:52 17:32	06:10 18:05	06:19 18:25-18:49/24 19:38	05:40 06:21-06:36/15 20:09 06:36-06:49/13	20:32
17	07:21 16:56	06:51 17:34	06:08 18:06	06:17 18:24-18:51/27 19:39	05:39 06:23-06:36/13 20:10 06:36-06:48/12	20:32
18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 18:22-18:52/30 19:40	05:38 06:24-06:34/10 20:11 06:34-06:48/14	20:33
19	07:20 16:58	06:48 17:36	06:05 18:08	06:14 18:21-18:53/32 19:41	05:37 06:27-06:31/4 20:12 06:31-06:47/16	20:33
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 18:19-18:53/34 19:42	05:36 06:31-06:46/15 20:13	20:33
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 18:19-18:54/35 19:43	05:36 06:32-06:45/13 20:14	20:34
22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 18:19-18:55/36 19:44	05:35 06:35-06:43/8 20:15	20:34
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 18:17-18:54/37 19:45	05:34 20:16	20:34
24	07:16 17:04	06:41 17:42	05:56 06:30-06:36/6 18:13	06:07 18:17-18:55/38 19:46	05:33 20:17	20:34
25	07:16 17:05	06:40 17:43	05:55 06:26-06:38/12 18:14	06:05 18:16-18:54/38 19:47	05:33 20:18	20:34
26	07:15 17:06	06:38 17:44	05:53 06:24-06:41/17 18:16	06:04 18:17-18:55/38 19:49	05:32 20:18	20:34
27	07:14 17:08	06:37 17:46	05:51 06:22-06:41/19 18:17	06:03 18:17-18:55/38 19:50	05:31 20:19	20:34
28	07:13 17:09	06:35 17:47	05:50 06:21-06:41/20 18:18	06:01 18:16-18:54/38 19:51	05:31 20:20	20:34
29	07:12 17:10	06:34 19:19	06:48 07:21-07:42/21 19:19	06:00 18:16-18:54/38 19:52	05:30 20:21	20:34
30	07:12 17:11	06:46 19:20	07:20-07:42/22 19:20	05:59 06:36-06:44/8 19:53	05:29 20:22	20:34
31	07:11 17:13	06:45 19:21	07:19-07:41/22 19:21	05:58 20:23	05:29 20:23	20:34
Potential sun hours	297	297	369	399	448	452
Sum of minutes with flicker	0	0	139	679	909	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

SHADOW - Calendar per WTG

WTG: 30 - M08

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:29	05:53 06:29-06:49/20 18:38-18:52/14	06:24	06:54	06:28	07:03
	20:34	20:15 06:49-07:01/12	19:32	18:42	16:55	16:31
2	05:29	05:54 06:29-06:50/21 18:36-18:54/18	06:25	06:55	06:29	07:04
	20:34	20:14 06:50-07:02/12	19:31	18:40	16:54	16:30
3	05:30	05:55 06:29-06:50/21 18:34-18:56/22	06:26	06:56	06:30	07:05
	20:34	20:13 06:50-07:02/12	19:29	18:38	16:52	16:30
4	05:30	05:56 06:29-06:50/21 18:33-18:57/24	06:27	06:57	06:31	07:06
	20:34	20:12 06:50-07:02/12	19:27	18:37	16:51	16:30
5	05:31	05:57 06:29-06:49/20 18:32-18:58/26	06:28 07:21-07:27/6	06:58	06:33	07:07
	20:34	20:11 06:49-07:01/12	19:26	18:35	16:50	16:30
6	05:32	05:58 06:29-06:49/20 18:31-18:59/28	06:29 07:18-07:30/12	06:59	06:34	07:08
	20:33	20:10 06:49-07:01/12	19:24	18:33	16:49	16:30
7	05:32	05:59 06:30-06:49/19 18:29-18:59/30	06:30 07:16-07:32/16	07:00	06:35	07:09
	20:33	20:08 06:49-07:01/12	19:22	18:32	16:48	16:29
8	05:33	06:00 06:30-06:48/18 18:28-19:00/32	06:30 07:14-07:33/19	07:01	06:36	07:10
	20:33	20:07 06:48-07:00/12	19:21	18:30	16:47	16:29
9	05:33	06:01 06:30-06:46/16 18:27-19:00/33	06:31 07:13-07:33/20	07:02	06:37	07:10
	20:32	20:06 06:46-06:58/12	19:19	18:28	16:46	16:29
10	05:34	06:02 06:31-06:45/14 18:26-19:01/35	06:32 07:12-07:34/22	07:03	06:38	07:11
	20:32	20:05 06:45-06:57/12	19:17	18:27	16:45	16:29
11	05:35	06:03 06:33-06:43/10 18:26-19:01/35	06:33 07:11-07:34/23	07:04	06:40	07:12
	20:32	20:03 06:43-06:56/13	19:16	18:25	16:44	16:29
12	05:36	06:04 06:41-06:54/13	06:34 07:11-07:33/22	07:05	06:41	07:13
	20:31	20:02 18:25-19:02/37	19:14	18:24	16:43	16:30
13	05:36	06:05 06:44-06:51/7	06:35 07:11-07:33/22	07:06	06:42	07:14
	20:31	20:01 18:24-19:02/38	19:12	18:22	16:42	16:30
14	05:37	06:06 18:24-19:02/38	06:36 07:11-07:32/21	07:07	06:43	07:15
	20:30	19:59	19:11	18:20	16:41	16:30
15	05:38	06:07 18:24-19:02/38	06:37 07:11-07:32/21	07:08	06:44	07:15
	20:30	19:58	19:09	18:19	16:40	16:30
16	05:39	06:08 18:24-19:02/38	06:38 07:11-07:31/20	07:09	06:46	07:16
	20:29	19:57	19:07	18:17	16:39	16:30
17	05:39	06:09 18:23-19:01/38	06:39 07:12-07:29/17	07:11	06:47	07:17
	20:28	19:55	19:05	18:16	16:38	16:31
18	05:40	06:10 18:23-19:01/38	06:40 07:13-07:27/14	07:12	06:48	07:17
	20:28	19:54	19:04	18:14	16:38	16:31
19	05:41	06:11 18:23-19:01/38	06:41 07:16-07:24/8	07:13	06:49	07:18
	20:27	19:52	19:02	18:13	16:37	16:31
20	05:42	06:12 18:23-19:00/37	06:42	07:14	06:50	07:19
	20:26	19:51	19:00	18:11	16:36	16:32
21	05:43 06:46-06:52/6	06:13 18:24-18:59/35	06:43	07:15	06:52	07:19
	20:25	19:49	18:59	18:10	16:35	16:32
22	05:44 06:43-06:54/11	06:14 18:24-18:59/35	06:44	07:16	06:53	07:20
	20:25	19:48	18:57	18:08	16:35	16:33
23	05:44 06:42-06:56/14	06:15 18:24-18:58/34	06:45	07:17	06:54	07:20
	20:24	19:46	18:55	18:07	16:34	16:33
24	05:45 06:41-06:57/16	06:16 18:25-18:57/32	06:46	07:18	06:55	07:21
	20:23	19:45	18:53	18:06	16:34	16:34
25	05:46 06:36-06:43/7	06:17 18:26-18:55/29	06:47	06:20	06:56	07:21
	20:22 06:43-06:58/15	19:43	18:52	17:04	16:33	16:34
26	05:47 06:34-06:45/11	06:18 18:27-18:54/27	06:48	06:21	06:57	07:21
	20:21 06:45-06:58/13	19:42	18:50	17:03	16:33	16:35
27	05:48 06:32-06:46/14	06:19 18:28-18:52/24	06:49	06:22	06:58	07:22
	20:20 06:46-06:59/13	19:40	18:48	17:01	16:32	16:36
28	05:49 06:31-06:47/16	06:20 18:30-18:50/20	06:50	06:23	06:59	07:22
	20:19 06:47-07:00/13	19:39	18:47	17:00	16:32	16:36
29	05:50 06:30-06:48/18	06:21 18:31-18:45/14	06:51	06:24	07:01	07:22
	20:18 06:48-07:00/12	19:37	18:45	16:59	16:31	16:37
30	05:51 06:30-06:48/18	06:22	06:53	06:25	07:02	07:23
	20:17 06:48-07:01/13	19:35	18:43	16:57	16:31	16:38
31	05:52 06:29-06:49/20 18:42-18:48/6	06:23		06:27		07:23
	20:16 06:49-07:01/12	19:34		16:56		16:39
Potential sun hours	459	428	375	345	298	288
Sum of minutes with flicker	248	1240	263	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

SHADOW - Calendar per WTG

WTG: 31 - M09

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:23	07:10 16:02-16:17/15	06:34	06:43	05:57	05:28
	16:40	17:14	17:48	19:22	19:54	20:23
2	07:23	07:09 16:00-16:19/19	06:32	06:41	05:56	05:28
	16:40	17:15	17:49	19:23	19:55	20:24
3	07:23	07:08 15:59-16:20/21	06:31	06:40	05:55	05:28
	16:41	17:16	17:50	19:24	19:56	20:25
4	07:23	07:07 07:50-07:57/7	06:29	06:38	05:53	05:27
	16:42	17:18 15:58-16:22/24	17:51	19:25	19:57	20:25
5	07:23	07:06 07:47-08:00/13	06:28	06:36	05:52	05:27
	16:43	17:19 15:56-16:22/26	17:52	19:26	19:58	20:26
6	07:23	07:05 07:45-08:00/15	06:26 07:15-07:25/10	06:35	05:51	05:26
	16:44	17:20 15:56-16:23/27	17:54	19:27	19:59	20:27
7	07:23	07:03 07:44-08:02/18	06:24 07:12-07:27/15	06:33 07:06-07:13/7	05:50	05:26
	16:45	17:21 15:55-16:24/29	17:55	19:28	20:00	20:27
8	07:23	07:02 07:44-08:03/19	06:23 07:10-07:29/19	06:32 07:03-07:15/12	05:49	05:26
	16:46	17:23 15:55-16:24/29	17:56	19:29	20:01	20:28
9	07:23	07:01 07:43-08:04/21	06:21 07:08-07:30/22	06:30 07:02-07:17/15	05:47	05:26
	16:47	17:24 15:55-16:25/30	17:57	19:30	20:02	20:29
10	07:23	07:00 07:43-08:04/21	06:20 07:07-07:30/23	06:28 07:00-07:17/17	05:46	05:25
	16:48	17:25 15:55-16:25/30	17:58	19:32	20:03	20:29
11	07:23	06:59 07:42-08:04/22	06:18 07:07-07:31/24	06:27 06:59-07:17/18	05:45	05:25
	16:49	17:26 15:55-16:25/30	17:59	19:33	20:04	20:30
12	07:22	06:58 07:43-08:04/21	06:16 07:06-07:31/25	06:25 06:59-07:18/19	05:44	05:25
	16:50	17:28 15:55-16:25/30	18:00	19:34	20:05	20:30
13	07:22	06:56 07:43-08:04/21	06:15 07:05-07:30/25	06:24 06:58-07:17/19	05:43	05:25
	16:51	17:29 15:55-16:25/30	18:01	19:35	20:06	20:31
14	07:22	06:55 07:44-08:04/20	06:13 07:05-07:31/26	06:22 06:58-07:17/19	05:42	05:25
	16:52	17:30 15:55-16:24/29	18:03	19:36	20:07	20:31
15	07:21	06:54 07:43-08:03/20	06:11 06:46-06:56/10	06:20 06:58-07:16/18	05:41	05:25
	16:53	17:31 15:56-16:24/28	18:04 07:05-07:30/25	19:37	20:08	20:32
16	07:21	06:52 07:44-08:03/19	06:10 06:43-06:57/14	06:19 06:59-07:16/17	05:40	05:25
	16:55	17:32 15:57-16:24/27	18:05 07:05-07:29/24	19:38	20:09	20:32
17	07:20	06:51 07:46-08:02/16	06:08 06:42-06:59/17	06:17 06:59-07:14/15	05:39	05:25
	16:56	17:34 15:57-16:23/26	18:06 07:06-07:28/22	19:39	20:10	20:32
18	07:20	06:50 07:47-07:59/12	06:06 06:41-06:59/18	06:16 07:01-07:13/12	05:38	05:25
	16:57	17:35 15:59-16:22/23	18:07 07:06-07:27/21	19:40	20:11	20:33
19	07:19	06:48 07:50-07:57/7	06:05 06:40-06:59/19	06:14 07:02-07:10/8	05:37	05:25
	16:58	17:36 16:00-16:21/21	18:08 07:07-07:25/18	19:41	20:12	20:33
20	07:19	06:47 16:01-16:19/18	06:03 06:40-06:59/19	06:13	05:36	05:25
	16:59	17:37	18:09 07:09-07:23/14	19:42	20:13	20:33
21	07:18	06:46 16:04-16:17/13	06:01 06:40-06:58/18	06:11	05:36	05:26
	17:00	17:38	18:10 07:11-07:20/9	19:43	20:14	20:34
22	07:18	06:44	06:00 06:39-06:57/18	06:10	05:35	05:26
	17:02	17:40	18:11	19:44	20:15	20:34
23	07:17	06:43	05:58 06:40-06:57/17	06:08	05:34	05:26
	17:03	17:41	18:12	19:45	20:16	20:34
24	07:16	06:41	05:56 06:41-06:55/14	06:07	05:33	05:26
	17:04	17:42	18:13	19:46	20:17	20:34
25	07:16	06:40	05:55 06:42-06:53/11	06:05	05:33	05:27
	17:05	17:43	18:14	19:47	20:18	20:34
26	07:15	06:38	05:53 06:45-06:50/5	06:04	05:32	05:27
	17:06	17:44	18:16	19:48	20:18	20:34
27	07:14	06:37	05:51	06:03	05:31	05:27
	17:08	17:46	18:17	19:50	20:19	20:34
28	07:13	06:35	05:50	06:01	05:31	05:28
	17:09	17:47	18:18	19:51	20:20	20:34
29	07:12		06:48	06:00	05:30	05:28
	17:10		19:19	19:52	20:21	20:34
30	07:12		06:46	05:59	05:29	05:28
	17:11		19:20	19:53	20:22	20:34
31	07:11 16:04-16:14/10		06:45		05:29	
	17:13		19:21		20:23	
Potential sun hours	297	297	369	399	448	452
Sum of minutes with flicker	10	797	502	196	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

SHADOW - Calendar per WTG

WTG: 31 - M09

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:29 20:34	05:53 20:15	06:24 19:32	06:58-07:16/18 18:42	06:54 16:55	07:12-07:33/21 15:24-15:54/30	07:03 16:31
2	05:29 20:34	05:54 20:14	06:25 19:31	06:58-07:15/17 18:40	06:55 16:54	07:13-07:33/20 15:25-15:55/30	07:04 16:30
3	05:30 20:34	05:55 20:13	06:26 19:29	06:59-07:14/15 18:38	06:56 16:53	07:14-07:32/18 15:25-15:54/29	07:05 16:30
4	05:30 20:34	05:56 20:12	06:27 19:27	07:00-07:12/12 18:37	06:57 16:51	07:14-07:31/17 15:25-15:53/28	07:06 16:30
5	05:31 20:34	05:57 20:11	06:28 19:26	07:02-07:10/8 18:35	06:58 16:50	07:15-07:30/15 15:26-15:52/26	07:07 16:30
6	05:32 20:33	05:58 20:10	06:29 19:24	06:59 18:33	07:47-08:05/18 16:49	07:18-07:29/11 15:27-15:52/25	07:08 16:30
7	05:32 20:33	05:59 20:08	06:30 19:22	07:00 18:32	07:49-08:02/13 16:48	07:20-07:26/6 15:28-15:51/23	07:09 16:29
8	05:33 20:33	06:00 20:07	06:31 19:21	07:01 18:30	07:53-07:58/5 16:47	15:29-15:50/21 16:30	07:09 16:29
9	05:33 20:32	06:01 20:06	06:31 19:19	07:02 18:28	15:30-15:48/18 16:46	16:30 16:29	07:10 16:29
10	05:34 20:32	06:02 20:05	06:32 19:17	07:03 18:27	15:33-15:47/14 16:45	16:30 16:29	07:11 16:29
11	05:35 20:32	06:03 20:03	06:33 19:16	07:04 18:25	15:35-15:44/9 16:44	16:30 16:29	07:12 16:29
12	05:36 20:31	06:04 20:02	06:34 19:14	07:05 18:24	16:41 16:43	16:30 16:30	07:13 16:30
13	05:36 20:31	06:05 20:01	06:35 19:12	07:06 18:22	16:42 16:42	16:30 16:30	07:14 16:30
14	05:37 20:30	06:06 19:59	06:36 19:11	07:07 18:20	16:43 16:41	16:30 16:30	07:15 16:30
15	05:38 20:29	06:07 19:58	06:37 19:09	07:08 18:19	16:44 16:40	16:30 16:30	07:15 16:30
16	05:39 20:29	06:08 19:57	06:38 19:07	07:09 18:17	16:46 16:39	16:30 16:30	07:16 16:30
17	05:39 20:28	06:09 19:55	06:39 19:05	07:11 18:16	16:47 16:38	16:30 16:31	07:17 16:31
18	05:40 20:28	06:10 19:54	06:40 19:04	07:31-07:41/10 18:14	16:48 16:38	16:30 16:31	07:17 16:31
19	05:41 20:27	06:11 19:52	06:41 19:02	07:28-07:42/14 18:13	16:49 16:37	16:30 16:31	07:18 16:31
20	05:42 20:26	06:12 19:51	06:42 19:00	07:27-07:43/16 18:11	16:38-16:45/7 16:36	16:30 16:32	07:19 16:32
21	05:43 20:25	06:13 19:49	06:43 18:59	07:26-07:44/18 18:10	16:34-16:48/14 16:35	16:30 16:32	07:19 16:32
22	05:44 20:25	06:14 19:48	06:44 18:57	07:25-07:44/19 18:08	16:31-16:50/19 16:35	16:30 16:33	07:20 16:33
23	05:44 20:24	06:15 19:46	06:45 18:55	07:24-07:44/20 18:07	08:18-08:28/10 16:29-16:51/22	16:34 16:34	07:20 16:33
24	05:45 20:23	06:16 19:45	06:46 18:53	07:24-07:43/19 18:06	08:16-08:30/14 16:28-16:52/24	16:34 16:34	07:21 16:34
25	05:46 20:22	06:17 19:43	06:47 18:52	07:24-07:42/18 18:05	07:15-07:32/17 15:28-15:54/26	16:36 16:33	07:21 16:34
26	05:47 20:21	06:18 19:42	06:48 18:50	07:50-08:10/20 17:04	07:14-07:32/18 15:26-15:54/28	16:37 16:33	07:21 16:35
27	05:48 20:20	06:19 19:40	06:49 18:48	07:48-08:10/22 17:03	07:13-07:33/20 15:25-15:54/29	16:38 16:32	07:22 16:36
28	05:49 20:19	06:20 19:39	06:50 18:47	07:26-07:38/12 17:00	07:12-07:33/21 15:25-15:54/29	16:39 16:32	07:22 16:36
29	05:50 20:18	06:21 19:37	06:51 18:45	07:29-07:35/6 17:00	07:13-07:34/21 15:25-15:55/30	16:40 16:31	07:22 16:37
30	05:51 20:17	06:22 19:35	06:52 18:43	07:45-08:11/26 16:59	07:12-07:34/22 15:25-15:55/30	16:41 16:31	07:23 16:38
31	05:52 20:16	06:23 19:34	06:53 18:42	07:46-08:11/25 16:58	07:12-07:34/22 15:24-15:55/31	16:42 16:32	07:23 16:39
Potential sun hours	459	428	375	345	298	288	
Sum of minutes with flicker	0	128	433	606	361	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

SHADOW - Calendar per WTG

WTG: 32 - M10

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	06:57-07:14/17 16:31
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:28 20:24	05:29 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	06:58-07:14/16 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:38	06:30 16:53	06:59-07:13/14 16:30
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:25	05:30 20:34	05:56 20:12	06:27 19:27	06:57 18:37	06:31 16:51	07:01-07:11/10 16:30
5	07:23 16:43	07:06 17:19	06:28 17:52	06:36 19:26	05:52 19:58	05:27 20:26	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:32 16:50	07:05-07:06/1 16:30
6	07:23 16:44	07:05 17:20	07:34-07:38/4 17:54	06:26 19:27	06:35 19:59	05:51 20:27	05:26 20:33	05:58 20:10	06:29 19:24	06:59 18:33	06:34 16:49	07:08 16:30
7	07:23 16:45	07:03 17:21	07:31-07:41/10 17:55	06:24 19:28	06:33 20:00	05:50 20:27	05:32 20:33	05:59 20:08	06:30 19:22	07:00 18:32	06:35 16:48	07:09 16:29
8	07:23 16:46	07:02 17:23	07:29-07:43/14 17:56	06:23 19:29	06:32 20:01	05:49 20:28	05:33 20:33	06:00 20:07	06:30 19:21	07:01 18:30	06:36 16:47	07:09 16:29
9	07:23 16:47	07:01 17:24	07:28-07:45/17 17:57	06:21 19:30	06:30 20:02	05:47 20:29	05:33 20:32	06:01 20:06	06:31 19:19	07:02 18:28	06:37 16:46	07:10 16:29
10	07:23 16:48	07:00 17:25	07:28-07:46/18 17:58	06:20 19:31	06:28 20:03	05:46 20:29	05:34 20:32	06:02 20:05	06:32 19:17	07:03 18:27	06:38 16:45	07:11 16:29
11	07:23 16:49	06:59 17:26	07:26-07:46/20 17:59	06:18 19:33	06:27 20:04	05:45 20:30	05:35 20:32	06:03 20:03	06:33 19:16	07:04 18:25	06:40 16:44	07:12 16:29
12	07:22 16:50	06:58 17:28	07:26-07:46/20 18:00	06:16 19:34	06:25 20:05	05:44 20:30	05:36 20:31	06:04 20:02	06:34 19:14	07:05 18:24	06:41 16:43	07:13 16:30
13	07:22 16:51	06:56 17:29	07:26-07:47/21 18:01	06:15 19:35	06:24 20:06	05:43 20:31	05:36 20:31	06:05 20:01	06:35 19:12	07:06 18:22	06:42 16:42	07:14 16:30
14	07:22 16:52	06:55 17:30	07:27-07:47/20 18:03	06:13 19:36	06:22 20:07	05:42 20:31	05:37 20:30	06:06 19:59	06:36 19:11	07:07 18:20	06:43 16:41	07:14 16:30
15	07:21 16:53	06:54 17:31	07:26-07:46/20 18:04	06:11 19:37	06:20 20:08	05:41 20:32	05:38 20:29	06:07 19:58	06:37 19:09	07:08 18:19	06:44 16:40	07:15 16:30
16	07:21 16:55	06:52 17:32	07:27-07:46/19 18:05	06:10 19:38	06:19 20:09	05:40 20:32	05:39 20:29	06:08 19:57	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:20 16:56	06:51 17:34	07:28-07:46/18 18:06	06:08 19:39	06:17 20:10	05:39 20:32	05:39 20:28	06:09 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:31
18	07:20 16:57	06:50 17:35	07:28-07:44/16 18:07	06:06 19:40	06:16 20:11	05:38 20:33	05:40 20:30	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38	07:17 16:31
19	07:19 16:58	06:48 17:36	07:30-07:43/13 18:08	06:05 19:41	06:14 20:12	05:37 20:33	05:41 20:27	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37	07:18 16:31
20	07:19 16:59	06:47 17:37	07:31-07:40/9 18:09	06:03 19:42	06:13 20:13	05:36 20:33	05:42 20:26	06:12 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:19 16:32
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:36 20:14	05:26 20:34	05:43 20:25	06:13 19:49	06:43 18:59	07:15 18:10	06:51 16:35	07:19 16:32
22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:44 18:57	07:16 18:08	08:01-08:12/11 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 20:34	05:44 20:24	06:15 19:46	06:45 18:55	07:17 18:07	07:59-08:13/14 16:34	07:20 16:33
24	07:16 17:04	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:16 19:45	06:46 18:53	07:18 18:06	07:57-08:14/17 16:34	07:21 16:34
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:47	05:33 20:18	05:27 20:34	05:46 20:22	06:17 19:43	06:47 18:52	08:20 17:04	06:57-07:16/19 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:16	06:04 19:48	05:32 20:18	05:27 20:34	05:47 20:21	06:18 19:42	06:48 18:50	06:21 17:03	06:56-07:16/20 16:33	07:21 16:35
27	07:14 17:08	06:37 17:46	05:51 18:17	06:03 19:50	05:31 20:19	05:27 20:34	05:48 20:20	06:19 19:49	06:49 18:48	06:22 17:01	06:56-07:16/20 16:32	07:22 16:36
28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 20:34	05:49 20:19	06:20 19:39	06:50 18:47	06:23 17:00	06:55-07:16/21 16:32	07:22 16:36
29	07:12 17:10	06:34 17:48	05:48 18:19	06:00 19:52	05:30 20:21	05:28 20:34	05:50 20:18	06:21 19:37	06:51 18:45	06:24 16:59	06:56-07:16/20 16:31	07:22 16:37
30	07:12 17:11	06:33 17:49	05:46 18:20	05:59 19:53	05:29 20:22	05:28 20:34	05:51 20:17	06:22 19:35	06:52 18:43	06:25 16:57	06:56-07:16/20 16:31	07:23 16:38
31	07:11 17:13	06:32 17:50	05:45 18:21	05:58 19:54	05:29 20:22	05:29 20:34	05:52 20:16	06:23 19:34	06:27 18:43	06:56-07:15/19 16:56	07:23 16:39	
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
Sum of minutes with flicker	0	239	0	0	0	0	0	0	0	181	58	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

SHADOW - Calendar per WTG

WTG: 34 - M12

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:23 16:40	07:10 17:14	06:34 07:22-07:43/21 17:48	06:43 19:22	05:57 19:54	05:28 20:23
2	07:23 16:40	07:09 17:15	06:32 07:20-07:43/23 17:49	06:41 19:23	05:56 19:55	05:28 20:24
3	07:23 16:41	07:08 17:16	06:31 07:20-07:44/24 17:50	06:40 19:24	05:55 19:56	05:28 20:25
4	07:23 16:42	07:07 17:18	06:29 07:20-07:43/23 17:51	06:38 19:25	05:53 19:57	05:27 20:25
5	07:23 16:43	07:06 17:19	06:28 07:20-07:43/23 17:53	06:36 19:26	05:52 19:58	05:27 20:26
6	07:23 16:44	07:05 17:20	06:26 07:20-07:43/23 17:54	06:35 19:27	05:51 19:59	05:26 20:27
7	07:23 16:45	07:04 17:21	06:24 07:20-07:41/21 17:55	06:33 07:35-07:37/2 19:28	05:50 20:00	05:26 20:27
8	07:23 16:46	07:02 17:23	06:23 07:21-07:41/20 17:56	06:32 07:09-07:18/9 19:29 07:28-07:41/13	05:49 06:25-06:29/4 20:01	05:26 20:28
9	07:23 16:47	07:01 17:24	06:21 07:21-07:39/18 17:57	06:30 07:07-07:20/13 19:30 07:25-07:43/18	05:47 06:22-06:32/10 20:02	05:26 20:29
10	07:23 16:48	07:00 17:25	06:20 07:22-07:37/15 17:58 17:09-17:12/3	06:28 07:05-07:21/16 19:32 07:24-07:45/21	05:46 06:21-06:33/12 20:03	05:25 20:29
11	07:23 16:49	06:59 17:26	06:18 07:25-07:35/10 17:59 17:05-17:17/12	06:27 07:04-07:21/17 19:33 07:22-07:45/23	05:45 06:20-06:34/14 20:04	05:25 20:30
12	07:22 16:50	06:58 17:28	06:16 17:02-17:18/16 18:00	06:25 07:03-07:23/20 19:34 07:23-07:47/24	05:44 06:19-06:35/16 20:05	05:25 20:30
13	07:22 16:51	06:56 17:29	06:15 17:00-17:19/19 18:01	06:24 07:02-07:23/21 19:35 07:23-07:47/24	05:43 06:18-06:36/18 20:06	05:25 20:31
14	07:22 16:52	06:55 17:30	06:13 17:00-17:20/20 18:03	06:22 07:02-07:23/21 19:36 07:23-07:47/24	05:42 06:18-06:36/18 20:07	05:25 20:31
15	07:21 16:53	06:54 17:31	06:11 16:59-17:20/21 18:04	06:20 07:02-07:22/20 19:37 07:22-07:47/25	05:41 06:17-06:36/19 20:08	05:25 20:32
16	07:21 16:55	06:52 17:32	06:10 16:58-17:20/22 18:05	06:19 07:02-07:22/20 19:38 07:22-07:47/25	05:40 06:17-06:36/19 20:09	05:25 20:32
17	07:21 16:56	06:51 17:34	06:08 16:58-17:21/23 18:06	06:17 06:58-07:03/5 19:39 07:03-07:46/43	05:39 06:18-06:37/19 20:10	05:25 20:32
18	07:20 16:57	06:50 17:35	06:06 16:58-17:20/22 18:07	06:16 06:57-07:05/8 19:40 07:05-07:46/41	05:38 06:18-06:37/19 20:11	05:25 20:33
19	07:20 16:58	06:48 17:36	06:05 16:57-17:19/22 18:08	06:14 06:56-07:06/10 07:18-07:45/27 19:41 07:06-07:17/11	05:37 06:18-06:37/19 20:12	05:25 20:33
20	07:19 16:59	06:47 17:37	06:03 16:58-17:19/21 18:09	06:13 06:56-07:08/12 07:19-07:45/26 19:42 07:08-07:15/7	05:36 06:18-06:36/18 20:13	05:25 20:33
21	07:18 17:00	06:46 17:38	06:01 16:59-17:17/18 18:10	06:11 06:55-07:07/12 19:43 07:18-07:44/26	05:36 06:18-06:36/18 20:14	05:26 20:34
22	07:18 17:02	06:44 17:40	06:00 16:59-17:15/16 18:11	06:10 06:55-07:09/14 19:44 07:19-07:43/24	05:35 06:19-06:36/17 20:15	05:26 20:34
23	07:17 17:03	06:43 17:41	05:58 17:02-17:14/12 18:12	06:08 06:54-07:10/16 19:45 07:19-07:41/22	05:34 06:20-06:35/15 20:16	05:26 20:34
24	07:16 17:04	06:41 17:42	05:56 17:04-17:10/6 18:13	06:07 06:54-07:12/18 19:46 07:21-07:40/19	05:33 06:20-06:34/14 20:17	05:26 20:34
25	07:16 17:05	06:40 07:28-07:37/9 17:43	05:55 18:14	06:05 06:55-07:14/19 19:47 07:22-07:38/16	05:33 06:22-06:34/12 20:18	05:27 20:34
26	07:15 17:06	06:38 07:25-07:39/14 17:44	05:53 18:16	06:04 06:55-07:13/18 19:49 07:24-07:36/12	05:32 06:22-06:33/11 20:18	05:27 20:34
27	07:14 17:08	06:37 07:24-07:41/17 17:46	05:51 18:17	06:03 06:56-07:13/17 19:50	05:31 06:23-06:31/8 20:19	05:27 20:34
28	07:13 17:09	06:35 07:22-07:42/20 17:47	05:50 18:18	06:01 06:56-07:11/15 19:51	05:31 06:26-06:30/4 20:20	05:28 20:34
29	07:12 17:10		06:48 19:19	06:00 06:58-07:09/11 19:52	05:30 20:21	05:28 20:34
30	07:12 17:11		06:46 19:20	05:59 07:01-07:06/5 19:53	05:29 20:22	05:28 20:34
31	07:11 17:13		06:45 19:21		05:29 20:23	
Potential sun hours	297	297	369	399	448	452
Sum of minutes with flicker	0	60	474	810	304	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

SHADOW - Calendar per WTG

WTG: 34 - M12

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:29 20:34	05:53 06:30-06:46/16 20:15	06:24 07:03-07:20/17 19:32 07:21-07:44/23	06:54 17:41-17:58/17 18:42	06:28 16:55	07:03 16:31
2	05:29 20:34	05:54 06:31-06:45/14 20:14	06:25 07:03-07:19/16 19:31 07:22-07:43/21	06:55 08:06-08:11/5 18:40 17:43-17:56/13	06:29 16:54	07:04 16:30
3	05:30 20:34	05:55 06:32-06:44/12 20:13	06:26 07:04-07:17/13 19:29 07:23-07:41/18	06:56 08:02-08:14/12 18:38 17:45-17:53/8	06:30 16:53	07:05 16:30
4	05:30 20:34	05:56 06:33-06:42/9 20:12	06:27 07:06-07:15/9 19:27 07:25-07:38/13	06:57 08:00-08:16/16 18:37	06:31 16:51	07:06 16:30
5	05:31 20:34	05:57 20:11	06:28 07:30-07:33/3 19:26	06:58 07:58-08:17/19 18:35	06:33 16:50	07:07 16:30
6	05:32 20:33	05:58 20:10	06:29 19:24	06:59 07:57-08:18/21 18:33	06:34 16:49	07:08 16:30
7	05:32 20:33	05:59 20:08	06:30 19:22	07:00 07:56-08:18/22 18:32	06:35 16:48	07:09 16:29
8	05:33 20:33	06:00 20:07	06:31 19:21	07:01 07:55-08:18/23 18:30	06:36 16:47	07:10 16:29
9	05:33 20:32	06:01 20:06	06:32 19:19	07:02 07:54-08:18/24 18:28	06:37 16:46	07:10 16:29
10	05:34 20:32	06:02 20:05	06:32 19:17	07:03 07:54-08:18/24 18:27	06:38 16:45	07:11 16:29
11	05:35 20:32	06:03 20:03	06:33 19:16	07:04 07:54-08:17/23 18:25	06:40 16:44	07:12 16:29
12	05:36 20:31	06:04 20:02	06:34 19:14	07:05 07:54-08:16/22 18:24	06:41 16:43	07:13 16:30
13	05:36 20:31	06:05 07:08-07:15/7 20:01	06:35 19:12	07:06 07:55-08:16/21 18:22	06:42 16:42	07:14 16:30
14	05:37 20:30	06:06 07:05-07:17/12 19:59	06:36 19:11	07:07 07:56-08:15/19 18:20	06:43 16:41	07:15 16:30
15	05:38 20:30	06:07 07:04-07:19/15 19:58	06:37 19:09	07:08 07:57-08:13/16 18:19	06:44 16:40	07:15 16:30
16	05:39 06:33-06:40/7 20:29	06:08 07:02-07:20/18 19:57 07:34-07:39/5	06:38 19:07	07:09 07:58-08:11/13 18:17	06:46 16:39	07:16 16:30
17	05:39 06:32-06:42/10 20:28	06:09 07:01-07:20/19 19:55 07:30-07:43/13	06:39 19:05	07:11 08:02-08:07/5 18:16	06:47 16:38	07:17 16:31
18	05:40 06:31-06:43/12 20:28	06:10 07:01-07:19/18 19:54 07:28-07:45/17	06:40 19:04	07:12 18:14	06:48 16:38	07:17 16:31
19	05:41 06:31-06:44/13 20:27	06:11 07:00-07:17/17 19:52 07:26-07:46/20	06:41 19:02	07:13 18:13	06:49 16:37	07:18 16:31
20	05:42 06:29-06:44/15 20:26	06:12 07:00-07:16/16 19:51 07:25-07:47/22	06:42 17:47-17:59/12 19:00	07:14 18:11	06:50 16:36	07:19 16:32
21	05:43 06:29-06:45/16 20:25	06:13 06:59-07:14/15 19:49 07:24-07:48/24	06:43 17:45-18:00/15 18:59	07:15 18:10	06:52 16:35	07:19 16:32
22	05:44 06:29-06:46/17 20:25	06:14 06:59-07:12/13 19:48 07:23-07:49/26	06:44 17:43-18:01/18 18:57	07:16 18:08	06:53 16:35	07:20 16:33
23	05:44 06:29-06:46/17 20:24	06:15 07:00-07:11/11 07:22-07:49/27 19:46 07:11-07:19/8	06:45 17:42-18:02/20 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	05:45 06:29-06:47/18 20:23	06:16 07:00-07:09/9 07:22-07:49/27 19:45 07:09-07:21/12	06:46 17:41-18:02/21 18:53	07:18 18:06	06:55 16:34	07:21 16:34
25	05:46 06:29-06:47/18 20:22	06:17 07:00-07:07/7 19:43 07:07-07:49/42	06:47 17:40-18:02/22 18:52	06:20 17:04	06:56 16:33	07:21 16:34
26	05:47 06:29-06:48/19 20:21	06:18 07:01-07:06/5 19:42 07:06-07:49/43	06:48 17:40-18:02/22 18:50	06:21 17:03	06:57 16:33	07:21 16:35
27	05:48 06:28-06:47/19 20:20	06:19 07:04-07:24/20 19:40 07:24-07:49/25	06:49 17:39-18:02/23 18:48	06:22 17:01	06:58 16:32	07:22 16:36
28	05:49 06:28-06:47/19 20:19	06:20 07:04-07:24/20 19:39 07:24-07:49/25	06:50 17:39-18:01/22 18:47	06:23 17:00	06:59 16:32	07:22 16:36
29	05:50 06:28-06:47/19 20:18	06:21 07:03-07:24/21 19:37 07:24-07:48/24	06:52 17:39-18:00/21 18:45	06:24 16:59	07:01 16:31	07:22 16:37
30	05:51 06:28-06:46/18 20:17	06:22 07:03-07:24/21 19:35 07:24-07:47/23	06:53 17:41-18:00/19 18:43	06:25 16:57	07:02 16:31	07:23 16:38
31	05:52 06:29-06:46/17 20:16	06:23 07:02-07:22/20 19:34 07:22-07:46/24	 	06:27 16:56	 	07:23 16:39
Potential sun hours	459	428	375	345	298	288
Sum of minutes with flicker	254	742	348	323	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

SHADOW - Calendar per WTG

WTG: 1 - A01

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23	07:10	06:34	06:43	05:57	05:29	05:29	05:53	06:24	06:54	06:28	07:03
	16:40	17:14	17:48	19:22	19:54	20:24	20:34	20:16	19:32	18:42	16:55	16:31
2	07:23	07:09	06:33	06:42	05:56	05:28	05:30	05:54	06:25	06:55	06:29	07:04
	16:41	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:31	18:40	16:54	16:31
3	07:24	07:08	06:31	06:40	05:55	05:28	05:30	05:55	06:26	06:56	06:30	07:05
	16:42	17:17	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:39	16:53	16:30
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	16:50	17:28	18:01	19:34	20:05	20:31	20:31	20:02	19:14	18:24	16:43	16:30
13	07:22	06:57	06:15	06:24	05:43	05:25	05:36	06:05	06:36	07:06	06:42	07:14
	16:51	17:29	18:02	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:42	16:30
14	07:22	06:55	06:13	06:22	05:42	05:25	05:37	06:06	06:37	07:08	06:44	07:15
	16:53	17:30	18:03	19:36	20:07	20:31	20:30	20:00	19:11	18:21	16:41	16:30
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	16:54	17:31	18:04	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:40	16:30
16	07:21	06:53	06:10	06:19	05:40	05:25	05:39	06:08	06:39	07:10	06:46	07:16
	16:55	17:33	18:05	19:38	20:09	20:32	20:29	19:57	19:07	18:18	16:39	16:31
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	16:56	17:34	18:06	19:39	20:10	20:33	20:29	19:55	19:06	18:16	16:39	16:31
18	07:20	06:50	06:07	06:16	05:38	05:25	05:40	06:10	06:41	07:12	06:48	07:18
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	16:58	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:13	16:37	16:32
20	07:19	06:47	06:03	06:13	05:37	05:26	05:42	06:12	06:43	07:14	06:51	07:19
	16:59	17:38	18:09	19:42	20:13	20:34	20:26	19:51	19:01	18:12	16:36	16:32
21	07:19	06:46	06:02	06:12	05:36	05:26	05:43	06:13	06:44	07:15	06:52	07:19
	17:01	17:39	18:10	19:43	20:14	20:34	20:26	19:50	18:59	18:10	16:36	16:32
22	07:18	06:44	06:00	06:10	05:35	05:26	05:44	06:14	06:45	07:16	06:53	07:20
	17:02	17:40	18:12	19:45	20:15	20:34	20:25	19:48	18:57	18:09	16:35	16:33
23	07:17	06:43	05:58	06:09	05:34	05:26	05:45	06:15	06:46	07:18	06:54	07:20
	17:03	17:41	18:13	19:46	20:16	20:34	20:24	19:47	18:55	18:07	16:34	16:33
24	07:17	06:42	05:57	06:07	05:33	05:26	05:46	06:16	06:47	07:19	06:55	07:21
	17:04	17:42	18:14	19:47	20:17	20:34	20:23	19:45	18:54	18:06	16:34	16:34
25	07:16	06:40	05:55	06:06	05:33	05:27	05:46	06:17	06:48	07:20	06:56	07:21
	17:05	17:43	18:15	19:48	20:18	20:34	20:22	19:43	18:52	17:04	16:33	16:35
26	07:15	06:39	05:53	06:04	05:32	05:27	05:47	06:18	06:49	07:21	06:57	07:22
	17:07	17:45	18:16	19:49	20:19	20:35	20:22	19:42	18:50	17:03	16:33	16:35
27	07:14	06:37	05:52	06:03	05:31	05:27	05:48	06:19	06:50	07:22	06:59	07:22
	17:08	17:46	18:17	19:50	20:20	20:35	20:21	19:40	18:49	17:02	16:32	16:36
28	07:14	06:36	05:50	06:02	05:31	05:28	05:49	06:20	06:51	07:23	07:00	07:22
	17:09	17:47	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:32	16:37
29	07:13		06:48	06:00	05:30	05:28	05:50	06:21	06:52	06:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:59	16:31	16:37
30	07:12		06:47	05:59	05:30	05:29	05:51	06:22	06:53	06:26	07:02	07:23
	17:12		19:20	19:53	20:22	20:35	20:18	19:36	18:44	16:58	16:31	16:38
31	07:11		06:45		05:29		05:52	06:23		06:27		07:23
	17:13		19:21		20:23		20:17	19:34		16:56		16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 2 - A03

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:23	05:29 20:34	05:53 20:15	06:24 19:32	18:20-18:38/18 18:42	06:28 16:55	07:03 16:31	
2	07:23 16:41	07:09 17:15	06:32 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:34	05:54 20:14	06:25 19:31	18:21-18:37/16 18:38	06:29 16:54	07:04 16:30	
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	18:22-18:35/13 18:38	06:30 16:53	07:05 16:30	
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:27	18:25-18:31/6 18:37	06:31 16:51	07:06 16:30	
5	07:23 16:43	07:06 17:19	06:28 17:53	06:37 19:26	05:52 19:58	05:27 20:26	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:33 16:50	07:07 16:30	
6	07:23 16:44	07:05 17:20	06:26 17:54	06:35 19:27	05:51 19:59	05:27 20:27	05:32 20:33	05:58 20:10	06:29 19:24	06:59 18:33	06:34 16:49	07:08 16:30	
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8	07:23 16:46	07:03 17:23	06:23 17:56	06:32 19:30	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:07	06:31 19:21	07:01 18:30	06:36 16:47	07:10 16:30	
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:31	05:48 20:02	05:26 20:29	05:34 20:32	06:01 20:06	06:32 19:19	07:02 18:29	06:37 16:46	07:11 16:30	
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12	07:22 16:50	06:58 17:28	06:16 18:01	06:25 19:34	05:44 20:05	05:25 20:30	05:36 20:31	06:04 20:02	06:35 19:14	07:05 18:24	06:41 16:43	07:13 16:30	
13	07:22 16:51	06:56 17:29	06:15 18:02	06:24 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:05 20:01	06:36 19:12	07:06 18:22	06:42 16:42	07:14 16:30	
14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:07	05:25 20:31	05:37 20:30	06:06 19:59	06:37 19:11	07:07 18:21	06:43 16:41	07:15 16:30	
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16	07:21 16:55	06:53 17:33	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:57	06:39 19:07	07:10 18:18	06:46 16:39	07:16 16:31	
17	07:21 16:56	06:51 17:34	06:08 18:06	06:17 19:39	05:39 20:10	05:25 20:33	05:40 20:28	06:09 19:55	06:40 19:06	07:11 18:16	06:47 16:39	07:17 16:31	
18	07:20 16:57	06:50 17:35	06:07 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:41 19:04	07:12 18:14	06:48 16:38	07:17 16:31	
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22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:45 18:57	07:16 18:09	06:53 16:35	07:20 16:33	
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 20:34	05:45 20:24	06:15 19:46	06:46 18:55	07:17 18:07	06:54 16:34	07:20 16:33	
24	07:17 17:04	06:41 17:42	05:57 18:14	06:07 19:47	05:33 20:17	05:26 20:34	05:45 20:23	06:16 19:45	06:47 18:54	07:19 18:06	06:55 16:34	07:21 16:34	
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Potential sun hours	297	297	369	399	448	452	459	428	375	53	345	298	288
Sum of minutes with flicker	0	0	0	244	0	0	0	193	53	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

SHADOW - Calendar per WTG

WTG: 3 - A06

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:24	05:29 20:35	05:53 20:16	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:23 16:41	07:09 17:15	06:33 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:31
3	07:24 16:42	07:08 17:17	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:39	06:30 16:53	07:05 16:30
4	07:24 16:42	07:07 17:18	06:29 17:52	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:28	06:57 18:37	06:32 16:52	07:06 16:30
5	07:24 16:43	07:06 17:19	06:28 17:53	06:37 19:26	05:52 19:58	05:27 20:26	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:33 16:50	07:07 16:30
6	07:24 16:44	07:05 17:20	06:26 17:54	06:35 19:28	05:51 19:59	05:27 20:27	05:32 20:34	05:58 20:10	06:29 19:24	06:59 18:34	06:34 16:49	07:08 16:30
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20	07:19 16:59	06:47 17:38	06:03 18:09	06:13 19:42	05:37 20:13	05:26 20:34	05:42 20:26	06:12 19:51	06:43 19:01	07:14 18:12	06:51 16:36	07:19 16:32
21	07:19 17:01	06:46 17:39	06:02 18:10	06:12 19:43	05:36 20:14	05:26 20:34	05:43 20:26	06:13 19:50	06:44 18:59	07:15 18:10	06:52 16:36	07:19 16:32
22	07:18 17:02	06:44 17:40	06:00 18:12	06:10 19:45	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:45 18:57	07:16 18:09	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:13	06:09 19:46	05:34 20:16	05:26 20:34	05:45 20:24	06:15 19:47	06:46 18:55	07:18 18:07	06:54 16:34	07:20 16:33
24	07:17 17:04	06:42 17:42	05:57 18:14	06:07 19:47	05:33 20:17	05:26 20:34	05:46 20:23	06:16 19:45	06:47 18:54	07:19 18:06	06:55 16:34	07:21 16:34
25	07:16 17:05	06:40 17:43	05:55 18:15	06:06 19:48	05:33 20:18	05:27 20:34	05:46 20:22	06:17 19:44	06:48 18:52	07:20 17:04	06:56 16:33	07:21 16:35
26	07:15 17:07	06:39 17:45	05:53 18:16	06:04 19:49	05:32 20:19	05:27 20:35	05:47 20:22	06:18 19:42	06:49 18:50	07:21 17:03	06:57 16:33	07:22 16:35
27	07:14 17:08	06:37 17:46	05:52 18:17	06:03 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:19 19:40	06:50 18:49	07:22 17:02	06:59 16:32	07:22 16:36
28	07:14 17:09	06:36 17:47	05:50 18:18	06:02 19:51	05:31 20:20	05:28 20:35	05:49 20:20	06:20 19:39	06:51 18:47	07:23 17:00	07:00 16:32	07:22 16:37
29	07:13 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:35	05:50 20:19	06:21 19:37	06:52 18:45	07:24 16:59	07:01 16:31	07:23 16:37
30	07:12 17:12		06:47 19:20	05:59 19:53	05:30 20:22	05:29 20:35	05:51 20:18	06:22 19:36	06:53 18:44	07:25 16:58	07:02 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:23		05:52 20:17	06:23 19:34		07:26 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 4 - A07

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
- The sun is shining all the day, from sunrise to sunset
 - The rotor plane is always perpendicular to the line from the WTG to the sun
 - The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23	07:10	06:34	06:43	05:57	05:29	05:29	05:53	06:24	06:54	06:28	07:03
	16:40	17:14	17:48	19:22	19:54	20:24	20:35	20:16	19:32	18:42	16:55	16:31
2	07:24	07:09	06:33	06:42	05:56	05:28	05:30	05:54	06:25	06:55	06:29	07:04
	16:41	17:15	17:49	19:23	19:55	20:24	20:34	20:15	19:31	18:40	16:54	16:30
3	07:24	07:08	06:31	06:40	05:55	05:28	05:30	05:55	06:26	06:56	06:30	07:05
	16:41	17:17	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:39	16:53	16:30
4	07:24	07:07	06:29	06:38	05:54	05:27	05:31	05:56	06:27	06:57	06:32	07:06
	16:42	17:18	17:52	19:25	19:57	20:26	20:34	20:12	19:28	18:37	16:52	16:30
5	07:24	07:06	06:28	06:37	05:52	05:27	05:31	05:57	06:28	06:58	06:33	07:07
	16:43	17:19	17:53	19:26	19:58	20:27	20:34	20:11	19:26	18:35	16:50	16:30
6	07:24	07:05	06:26	06:35	05:51	05:27	05:32	05:58	06:29	06:59	06:34	07:08
	16:44	17:20	17:54	19:28	19:59	20:27	20:34	20:10	19:24	18:34	16:49	16:30
7	07:24	07:04	06:25	06:33	05:50	05:26	05:32	05:59	06:30	07:00	06:35	07:09
	16:45	17:22	17:55	19:29	20:00	20:28	20:33	20:09	19:23	18:32	16:48	16:30
8	07:23	07:03	06:23	06:32	05:49	05:26	05:33	06:00	06:31	07:01	06:36	07:10
	16:46	17:23	17:56	19:30	20:01	20:28	20:33	20:07	19:21	18:30	16:47	16:30
9	07:23	07:02	06:21	06:30	05:48	05:26	05:34	06:01	06:32	07:02	06:38	07:11
	16:47	17:24	17:57	19:31	20:02	20:29	20:33	20:06	19:19	18:29	16:46	16:30
10	07:23	07:00	06:20	06:29	05:46	05:26	05:34	06:02	06:33	07:03	06:39	07:12
	16:48	17:25	17:58	19:32	20:04	20:30	20:32	20:05	19:18	18:27	16:45	16:30
11	07:23	06:59	06:18	06:27	05:45	05:25	05:35	06:03	06:34	07:04	06:40	07:12
	16:49	17:27	18:00	19:33	20:05	20:30	20:32	20:04	19:16	18:25	16:44	16:30
12	07:23	06:58	06:17	06:25	05:44	05:25	05:36	06:04	06:35	07:05	06:41	07:13
	16:50	17:28	18:01	19:34	20:06	20:31	20:31	20:02	19:14	18:24	16:43	16:30
13	07:22	06:57	06:15	06:24	05:43	05:25	05:36	06:05	06:36	07:06	06:42	07:14
	16:51	17:29	18:02	19:35	20:07	20:31	20:31	20:01	19:12	18:22	16:42	16:30
14	07:22	06:55	06:13	06:22	05:42	05:25	05:37	06:06	06:37	07:08	06:44	07:15
	16:52	17:30	18:03	19:36	20:08	20:32	20:30	20:00	19:11	18:21	16:41	16:30
15	07:22	06:54	06:12	06:21	05:41	05:25	05:38	06:07	06:38	07:09	06:45	07:16
	16:54	17:31	18:04	19:37	20:09	20:32	20:30	19:58	19:09	18:19	16:40	16:30
16	07:21	06:53	06:10	06:19	05:40	05:25	05:39	06:08	06:39	07:10	06:46	07:16
	16:55	17:33	18:05	19:38	20:10	20:32	20:29	19:57	19:07	18:18	16:39	16:31
17	07:21	06:51	06:08	06:18	05:39	05:25	05:40	06:09	06:40	07:11	06:47	07:17
	16:56	17:34	18:06	19:39	20:10	20:33	20:29	19:55	19:06	18:16	16:39	16:31
18	07:20	06:50	06:07	06:16	05:38	05:25	05:40	06:10	06:41	07:12	06:48	07:18
	16:57	17:35	18:07	19:40	20:11	20:33	20:28	19:54	19:04	18:15	16:38	16:31
19	07:20	06:49	06:05	06:15	05:37	05:25	05:41	06:11	06:42	07:13	06:49	07:18
	16:58	17:36	18:08	19:41	20:12	20:33	20:27	19:53	19:02	18:13	16:37	16:32
20	07:19	06:47	06:03	06:13	05:37	05:26	05:42	06:12	06:43	07:14	06:51	07:19
	16:59	17:38	18:09	19:42	20:13	20:34	20:27	19:51	19:01	18:12	16:36	16:32
21	07:19	06:46	06:02	06:12	05:36	05:26	05:43	06:13	06:44	07:15	06:52	07:19
	17:01	17:39	18:10	19:43	20:14	20:34	20:26	19:50	18:59	18:10	16:36	16:32
22	07:18	06:44	06:00	06:10	05:35	05:26	05:44	06:14	06:45	07:16	06:53	07:20
	17:02	17:40	18:12	19:45	20:15	20:34	20:25	19:48	18:57	18:09	16:35	16:33
23	07:17	06:43	05:58	06:09	05:34	05:26	05:45	06:15	06:46	07:18	06:54	07:20
	17:03	17:41	18:13	19:46	20:16	20:34	20:24	19:47	18:55	18:07	16:34	16:33
24	07:17	06:42	05:57	06:07	05:33	05:26	05:46	06:16	06:47	07:19	06:55	07:21
	17:04	17:42	18:14	19:47	20:17	20:34	20:23	19:45	18:54	18:06	16:34	16:34
25	07:16	06:40	05:55	06:06	05:33	05:27	05:46	06:17	06:48	07:20	06:56	07:21
	17:05	17:43	18:15	19:48	20:18	20:35	20:22	19:44	18:52	17:04	16:33	16:35
26	07:15	06:39	05:53	06:04	05:32	05:27	05:47	06:18	06:49	07:21	06:58	07:22
	17:07	17:45	18:16	19:49	20:19	20:35	20:22	19:42	18:50	17:03	16:33	16:35
27	07:14	06:37	05:52	06:03	05:31	05:27	05:48	06:19	06:50	07:22	06:59	07:22
	17:08	17:46	18:17	19:50	20:20	20:35	20:21	19:40	18:49	17:02	16:32	16:36
28	07:14	06:36	05:50	06:01	05:31	05:28	05:49	06:20	06:51	07:23	07:00	07:22
	17:09	17:47	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:32	16:36
29	07:13		06:48	06:00	05:30	05:28	05:50	06:21	06:52	06:25	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:59	16:31	16:37
30	07:12		06:47	05:59	05:30	05:29	05:51	06:22	06:53	06:26	07:02	07:23
	17:12		19:20	19:53	20:22	20:35	20:18	19:36	18:44	16:58	16:31	16:38
31	07:11		06:45		05:29		05:52	06:23		06:27		07:23
	17:13		19:21		20:23		20:17	19:34		16:56		16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 5 - A10

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:58 19:54	05:29 20:24	05:29 20:35	05:53 20:16	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:24 16:41	07:09 17:15	06:33 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:31
3	07:24 16:42	07:08 17:17	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:39	06:30 16:53	07:05 16:30
4	07:24 16:42	07:07 17:18	06:29 17:52	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:28	06:57 18:37	06:32 16:52	07:06 16:30
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7	07:24 16:45	07:04 17:22	06:25 17:55	06:33 19:29	05:50 20:00	05:26 20:28	05:32 20:33	05:59 20:09	06:30 19:23	07:00 18:32	06:35 16:48	07:09 16:30
8	07:23 16:46	07:03 17:23	06:23 17:56	06:32 19:30	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:07	06:31 19:21	07:01 18:30	06:36 16:47	07:10 16:30
9	07:23 16:47	07:02 17:24	06:21 17:57	06:30 19:31	05:48 20:02	05:26 20:29	05:34 20:33	06:01 20:06	06:32 19:19	07:02 18:29	06:38 16:46	07:11 16:30
10	07:23 16:48	07:00 17:25	06:20 17:58	06:29 19:32	05:47 20:03	05:26 20:30	05:34 20:32	06:02 20:05	06:33 19:18	07:03 18:27	06:39 16:45	07:12 16:30
11	07:23 16:49	06:59 17:27	06:18 18:00	06:27 19:33	05:45 20:04	05:26 20:30	05:35 20:32	06:03 20:04	06:34 19:16	07:04 18:25	06:40 16:44	07:12 16:30
12	07:23 16:50	06:58 17:28	06:17 18:01	06:25 19:34	05:44 20:06	05:25 20:31	05:36 20:31	06:04 20:02	06:35 19:14	07:05 18:24	06:41 16:43	07:13 16:30
13	07:22 16:51	06:57 17:29	06:15 18:02	06:24 19:35	05:43 20:07	05:25 20:31	05:37 20:31	06:05 20:01	06:36 19:13	07:06 18:22	06:42 16:42	07:14 16:30
14	07:22 16:53	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:08	05:25 20:32	05:37 20:30	06:06 20:00	06:37 19:11	07:08 18:21	06:44 16:41	07:15 16:30
15	07:22 16:54	06:54 17:31	06:12 18:04	06:21 19:37	05:41 20:09	05:25 20:32	05:38 20:30	06:07 19:58	06:38 19:09	07:09 18:19	06:45 16:40	07:16 16:30
16	07:21 16:55	06:53 17:33	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:57	06:39 19:07	07:10 18:18	06:46 16:39	07:16 16:31
17	07:21 16:56	06:51 17:34	06:08 18:06	06:18 19:39	05:39 20:10	05:25 20:33	05:40 20:29	06:09 19:55	06:40 19:06	07:11 18:16	06:47 16:39	07:17 16:31
18	07:20 16:57	06:50 17:35	06:07 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:07 19:04	07:12 18:15	06:48 16:38	07:18 16:31
19	07:20 16:58	06:49 17:36	06:05 18:08	06:15 19:41	05:38 20:12	05:25 20:33	05:41 20:27	06:11 19:53	06:42 19:02	07:13 18:13	06:49 16:37	07:18 16:32
20	07:19 16:59	06:47 17:38	06:03 18:09	06:13 19:42	05:37 20:13	05:26 20:34	05:42 20:27	06:12 19:51	06:43 19:01	07:14 18:12	06:51 16:36	07:19 16:32
21	07:19 17:01	06:46 17:39	06:02 18:10	06:12 19:43	05:36 20:14	05:26 20:34	05:43 20:26	06:13 19:50	06:44 18:59	07:15 18:10	06:52 16:36	07:19 16:32
22	07:18 17:02	06:44 17:40	06:00 18:12	06:10 19:45	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:45 18:57	07:16 18:09	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:13	06:09 19:46	05:34 20:16	05:26 20:34	05:45 20:24	06:15 19:47	06:46 18:55	07:18 18:07	06:54 16:34	07:20 16:33
24	07:17 17:04	06:42 17:42	05:57 18:14	06:07 19:47	05:34 20:17	05:26 20:34	05:46 20:23	06:16 19:45	06:47 18:54	07:19 18:06	06:55 16:34	07:21 16:34
25	07:16 17:05	06:40 17:43	05:55 18:15	06:06 19:48	05:33 20:18	05:27 20:35	05:46 20:22	06:17 19:44	06:48 18:52	07:20 17:04	06:56 16:33	07:21 16:35
26	07:15 17:07	06:39 17:45	05:53 18:16	06:04 19:49	05:32 20:19	05:27 20:35	05:47 20:22	06:18 19:42	06:49 18:50	07:21 17:03	06:58 16:33	07:22 16:35
27	07:14 17:08	06:37 17:46	05:52 18:17	06:03 19:50	05:31 20:20	05:27 20:35	05:48 20:21	06:19 19:40	06:50 18:49	07:22 17:02	06:59 16:32	07:22 16:36
28	07:14 17:09	06:36 17:47	05:50 18:18	06:02 19:51	05:31 20:20	05:28 20:35	05:49 20:20	06:20 19:39	06:51 18:47	07:23 17:00	07:00 16:32	07:22 16:37
29	07:13 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:35	05:50 20:19	06:21 19:37	06:52 18:45	07:24 16:59	07:01 16:32	07:23 16:37
30	07:12 17:12		06:47 19:20	05:59 19:53	05:30 20:22	05:29 20:35	05:51 20:18	06:22 19:36	06:53 18:44	07:25 16:58	07:02 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:23		05:52 20:17	06:23 19:34		07:26 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 6 - A11

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:58 19:54	05:29 20:24	05:29 20:35	05:53 20:16	06:24 19:33	06:54 18:42	06:28 16:55	07:03 16:31
2	07:24 16:41	07:09 17:15	06:33 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:35	05:54 20:15	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:31
3	07:24 16:42	07:08 17:17	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:39	06:30 16:53	07:05 16:30
4	07:24 16:42	07:07 17:18	06:29 17:52	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:28	06:57 18:37	06:32 16:52	07:06 16:30
5	07:24 16:43	07:06 17:19	06:28 17:53	06:37 19:27	05:52 19:58	05:27 20:27	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:33 16:50	07:07 16:30
6	07:24 16:44	07:05 17:20	06:26 17:54	06:35 19:28	05:51 19:59	05:27 20:27	05:32 20:34	05:58 20:10	06:29 19:24	06:59 18:34	06:34 16:49	07:08 16:30
7	07:24 16:45	07:04 17:22	06:25 17:55	06:33 19:29	05:50 20:00	05:26 20:28	05:32 20:33	05:59 20:09	06:30 19:23	07:00 18:32	06:35 16:48	07:09 16:30
8	07:24 16:46	07:03 17:23	06:23 17:56	06:32 19:30	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:08	06:31 19:21	07:01 18:30	06:36 16:47	07:10 16:30
9	07:23 16:47	07:02 17:24	06:22 17:57	06:30 19:31	05:48 20:03	05:26 20:29	05:34 20:33	06:01 20:06	06:32 19:19	07:02 18:29	06:38 16:46	07:11 16:30
10	07:23 16:48	07:00 17:25	06:20 17:58	06:29 19:32	05:47 20:04	05:26 20:30	05:34 20:32	06:02 20:05	06:33 19:18	07:03 18:27	06:39 16:45	07:12 16:30
11	07:23 16:49	06:59 17:27	06:18 18:00	06:27 19:33	05:45 20:05	05:26 20:30	05:35 20:32	06:03 20:04	06:34 19:16	07:04 18:25	06:40 16:44	07:12 16:30
12	07:23 16:50	06:58 17:28	06:17 18:01	06:25 19:34	05:44 20:06	05:25 20:31	05:36 20:31	06:04 20:02	06:35 19:14	07:05 18:24	06:41 16:43	07:13 16:30
13	07:22 16:51	06:57 17:29	06:15 18:02	06:24 19:35	05:43 20:07	05:25 20:31	05:36 20:31	06:05 20:01	06:36 19:13	07:07 18:22	06:42 16:42	07:14 16:30
14	07:22 16:53	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:08	05:25 20:32	05:37 20:30	06:06 20:00	06:37 19:11	07:08 18:21	06:44 16:41	07:15 16:30
15	07:22 16:54	06:54 17:31	06:12 18:04	06:21 19:37	05:41 20:09	05:25 20:32	05:38 20:30	06:07 19:58	06:38 19:09	07:09 18:19	06:45 16:40	07:16 16:30
16	07:21 16:55	06:53 17:33	06:10 18:05	06:19 19:38	05:40 20:10	05:25 20:32	05:39 20:29	06:08 19:57	06:39 19:07	07:10 18:18	06:46 16:39	07:16 16:31
17	07:21 16:56	06:51 17:34	06:08 18:06	06:18 19:39	05:39 20:11	05:25 20:33	05:40 20:29	06:09 19:55	06:40 19:06	07:11 18:16	06:47 16:39	07:17 16:31
18	07:20 16:57	06:50 17:35	06:07 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:07 19:04	07:12 18:15	06:48 16:38	07:18 16:31
19	07:20 16:58	06:49 17:36	06:05 18:08	06:15 19:41	05:38 20:12	05:25 20:33	05:41 20:27	06:11 19:53	06:42 19:02	07:13 18:13	06:50 16:37	07:18 16:32
20	07:19 16:59	06:47 17:38	06:03 18:09	06:13 19:42	05:37 20:13	05:26 20:34	05:42 20:27	06:12 19:51	06:43 19:01	07:14 18:12	06:51 16:36	07:19 16:32
21	07:19 17:01	06:46 17:39	06:02 18:10	06:12 19:44	05:36 20:14	05:26 20:34	05:43 20:26	06:13 19:50	06:44 18:59	07:15 18:10	06:52 16:36	07:19 16:32
22	07:18 17:02	06:45 17:40	06:00 18:12	06:10 19:45	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:45 18:57	07:17 18:09	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:13	06:09 19:46	05:34 20:16	05:26 20:34	05:45 20:24	06:15 19:47	06:46 18:55	07:18 18:07	06:54 16:34	07:21 16:33
24	07:17 17:04	06:42 17:42	05:57 18:14	06:07 19:47	05:33 20:17	05:26 20:34	05:46 20:23	06:16 19:45	06:47 18:54	07:19 18:06	06:55 16:34	07:21 16:34
25	07:16 17:05	06:40 17:44	05:55 18:15	06:06 19:48	05:33 20:18	05:27 20:35	05:46 20:23	06:17 19:44	06:48 18:52	07:20 17:04	06:56 16:33	07:21 16:35
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28	07:14 17:09	06:36 17:47	05:50 18:18	06:02 19:51	05:31 20:20	05:28 20:35	05:49 20:20	06:20 19:39	06:51 18:47	07:23 17:00	07:00 16:32	07:22 16:37
29	07:13 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:35	05:50 20:19	06:21 19:37	06:52 18:45	07:24 16:59	07:01 16:32	07:23 16:37
30	07:12 17:11		06:47 19:20	05:59 19:53	05:30 20:22	05:29 20:35	05:51 20:18	06:22 19:36	06:53 18:44	07:25 16:58	07:02 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:23		05:52 20:17	06:23 19:34		07:26 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 7 - A12

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23	07:10	06:34	06:43	05:58	05:29	05:29	05:53	06:24	06:54	06:28	07:03
	16:40	17:14	17:48	19:22	19:54	20:24	20:35	20:16	19:32	18:42	16:55	16:31
2	07:24	07:09	06:33	06:42	05:56	05:28	05:30	05:54	06:25	06:55	06:29	07:04
	16:41	17:15	17:49	19:23	19:55	20:24	20:34	20:15	19:31	18:40	16:54	16:31
3	07:24	07:08	06:31	06:40	05:55	05:28	05:30	05:55	06:26	06:56	06:30	07:05
	16:42	17:17	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:39	16:53	16:30
4	07:24	07:07	06:29	06:38	05:54	05:27	05:31	05:56	06:27	06:57	06:32	07:06
	16:42	17:18	17:52	19:25	19:57	20:26	20:34	20:12	19:28	18:37	16:52	16:30
5	07:24	07:06	06:28	06:37	05:52	05:27	05:31	05:57	06:28	06:58	06:33	07:07
	16:43	17:19	17:53	19:27	19:58	20:26	20:34	20:11	19:26	18:35	16:50	16:30
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	16:45	17:22	17:55	19:29	20:00	20:28	20:33	20:09	19:23	18:32	16:48	16:30
8	07:23	07:03	06:23	06:32	05:49	05:26	05:33	06:00	06:31	07:01	06:36	07:10
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10	07:23	07:00	06:20	06:29	05:47	05:26	05:34	06:02	06:33	07:03	06:39	07:12
	16:48	17:25	17:58	19:32	20:04	20:30	20:32	20:05	19:18	18:27	16:45	16:30
11	07:23	06:59	06:18	06:27	05:45	05:26	05:35	06:03	06:34	07:04	06:40	07:12
	16:49	17:27	18:00	19:33	20:05	20:30	20:32	20:04	19:16	18:26	16:44	16:30
12	07:23	06:58	06:17	06:25	05:44	05:25	05:36	06:04	06:35	07:05	06:41	07:13
	16:50	17:28	18:01	19:34	20:06	20:31	20:31	20:02	19:14	18:24	16:43	16:30
13	07:22	06:57	06:15	06:24	05:43	05:25	05:37	06:05	06:36	07:07	06:42	07:14
	16:51	17:29	18:02	19:35	20:07	20:31	20:31	20:01	19:13	18:22	16:42	16:30
14	07:22	06:55	06:13	06:22	05:42	05:25	05:37	06:06	06:37	07:08	06:44	07:15
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	16:54	17:32	18:04	19:37	20:09	20:32	20:30	19:58	19:09	18:19	16:40	16:30
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	16:55	17:33	18:05	19:38	20:10	20:32	20:29	19:57	19:07	18:18	16:39	16:31
17	07:21	06:51	06:08	06:18	05:39	05:25	05:40	06:09	06:40	07:11	06:47	07:17
	16:56	17:34	18:06	19:39	20:10	20:33	20:29	19:55	19:06	18:16	16:39	16:31
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19	07:20	06:49	06:05	06:15	05:38	05:26	05:41	06:11	06:42	07:13	06:49	07:18
	16:58	17:36	18:08	19:41	20:12	20:33	20:27	19:53	19:02	18:13	16:37	16:32
20	07:19	06:47	06:03	06:13	05:37	05:26	05:42	06:12	06:43	07:14	06:51	07:19
	16:59	17:38	18:09	19:42	20:13	20:34	20:27	19:51	19:01	18:12	16:36	16:32
21	07:19	06:46	06:02	06:12	05:36	05:26	05:43	06:13	06:44	07:15	06:52	07:19
	17:01	17:39	18:10	19:44	20:14	20:34	20:26	19:50	18:59	18:10	16:36	16:33
22	07:18	06:45	06:00	06:10	05:35	05:26	05:44	06:14	06:45	07:16	06:53	07:20
	17:02	17:40	18:12	19:45	20:15	20:34	20:25	19:48	18:57	18:09	16:35	16:33
23	07:17	06:43	05:58	06:09	05:34	05:26	05:45	06:15	06:46	07:18	06:54	07:20
	17:03	17:41	18:13	19:46	20:16	20:34	20:24	19:47	18:55	18:07	16:34	16:34
24	07:17	06:42	05:57	06:07	05:34	05:26	05:46	06:16	06:47	07:19	06:55	07:21
	17:04	17:42	18:14	19:47	20:17	20:34	20:23	19:45	18:54	18:06	16:34	16:34
25	07:16	06:40	05:55	06:06	05:33	05:27	05:46	06:17	06:48	07:20	06:56	07:21
	17:05	17:44	18:15	19:48	20:18	20:35	20:22	19:44	18:52	17:04	16:33	16:35
26	07:15	06:39	05:53	06:04	05:32	05:27	05:47	06:18	06:49	07:21	06:58	07:22
	17:07	17:45	18:16	19:49	20:19	20:35	20:22	19:42	18:50	17:03	16:33	16:35
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28	07:14	06:36	05:50	06:02	05:31	05:28	05:49	06:20	06:51	07:23	07:00	07:22
	17:09	17:47	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:32	16:37
29	07:13		06:48	06:00	05:30	05:28	05:50	06:21	06:52	07:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:59	16:32	16:37
30	07:12		06:47	05:59	05:30	05:29	05:51	06:22	06:53	07:25	07:02	07:23
	17:12		19:20	19:53	20:22	20:35	20:18	19:36	18:44	16:58	16:31	16:38
31	07:11		06:45		05:29		05:52	06:23		06:27		07:23
	17:13		19:21		20:23		20:17	19:34		16:56		16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 8 - A15

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23	07:10	06:34	06:43	05:57	05:29	05:29	05:53	06:24	06:54	06:28	07:03
	16:40	17:14	17:48	19:22	19:54	20:24	20:34	20:16	19:32	18:42	16:55	16:31
2	07:23	07:09	06:33	06:42	05:56	05:28	05:30	05:54	06:25	06:55	06:29	07:04
	16:41	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:31	18:40	16:54	16:31
3	07:24	07:08	06:31	06:40	05:55	05:28	05:30	05:55	06:26	06:56	06:30	07:05
	16:42	17:17	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:39	16:53	16:30
4	07:24	07:07	06:29	06:38	05:54	05:27	05:31	05:56	06:27	06:57	06:32	07:06
	16:42	17:18	17:52	19:25	19:57	20:26	20:34	20:12	19:28	18:37	16:52	16:30
5	07:24	07:06	06:28	06:37	05:52	05:27	05:31	05:57	06:28	06:58	06:33	07:07
	16:43	17:19	17:53	19:26	19:58	20:26	20:34	20:11	19:26	18:35	16:50	16:30
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10	07:23	07:00	06:20	06:29	05:47	05:26	05:34	06:02	06:33	07:03	06:39	07:12
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	16:49	17:27	17:59	19:33	20:04	20:30	20:32	20:04	19:16	18:25	16:44	16:30
12	07:23	06:58	06:17	06:25	05:44	05:25	05:36	06:04	06:35	07:05	06:41	07:13
	16:50	17:28	18:01	19:34	20:05	20:31	20:31	20:02	19:14	18:24	16:43	16:30
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	16:51	17:29	18:02	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:42	16:30
14	07:22	06:55	06:13	06:22	05:42	05:25	05:37	06:06	06:37	07:08	06:43	07:15
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16	07:21	06:53	06:10	06:19	05:40	05:25	05:39	06:08	06:39	07:10	06:46	07:16
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	16:56	17:34	18:06	19:39	20:10	20:33	20:29	19:55	19:06	18:16	16:39	16:31
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20	07:19	06:47	06:03	06:13	05:37	05:26	05:42	06:12	06:43	07:14	06:51	07:19
	16:59	17:37	18:09	19:42	20:13	20:34	20:26	19:51	19:01	18:12	16:36	16:32
21	07:19	06:46	06:02	06:11	05:36	05:26	05:43	06:13	06:44	07:15	06:52	07:19
	17:01	17:39	18:10	19:43	20:14	20:34	20:26	19:50	18:59	18:10	16:36	16:32
22	07:18	06:44	06:00	06:10	05:35	05:26	05:44	06:14	06:45	07:16	06:53	07:20
	17:02	17:40	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:09	16:35	16:33
23	07:17	06:43	05:58	06:09	05:34	05:26	05:45	06:15	06:46	07:18	06:54	07:20
	17:03	17:41	18:13	19:46	20:16	20:34	20:24	19:47	18:55	18:07	16:34	16:33
24	07:17	06:42	05:57	06:07	05:33	05:26	05:46	06:16	06:47	07:19	06:55	07:21
	17:04	17:42	18:14	19:47	20:17	20:34	20:23	19:45	18:54	18:06	16:34	16:34
25	07:16	06:40	05:55	06:06	05:33	05:27	05:46	06:17	06:48	07:20	06:56	07:21
	17:05	17:43	18:15	19:48	20:18	20:34	20:22	19:43	18:52	17:04	16:33	16:35
26	07:15	06:39	05:53	06:04	05:32	05:27	05:47	06:18	06:49	07:21	06:57	07:22
	17:07	17:45	18:16	19:49	20:19	20:35	20:21	19:42	18:50	17:03	16:33	16:35
27	07:14	06:37	05:52	06:03	05:31	05:27	05:48	06:19	06:50	07:22	06:59	07:22
	17:08	17:46	18:17	19:50	20:20	20:35	20:21	19:40	18:49	17:02	16:32	16:36
28	07:14	06:36	05:50	06:01	05:31	05:28	05:49	06:20	06:51	07:23	07:00	07:22
	17:09	17:47	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:32	16:37
29	07:13		06:48	06:00	05:30	05:28	05:50	06:21	06:52	06:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:59	16:31	16:37
30	07:12		06:47	05:59	05:30	05:29	05:51	06:22	06:53	06:26	07:02	07:23
	17:12		19:20	19:53	20:22	20:35	20:18	19:36	18:44	16:58	16:31	16:38
31	07:11		06:45		05:29		05:52	06:23		06:27		07:23
	17:13		19:21		20:23		20:17	19:34		16:56		16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 9 - A16

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23	07:10	06:34	06:43	05:57	05:29	05:29	05:53	06:24	06:54	06:28	07:03
	16:40	17:14	17:48	19:22	19:54	20:24	20:34	20:15	19:32	18:42	16:55	16:31
2	07:23	07:09	06:32	06:42	05:56	05:28	05:30	05:54	06:25	06:55	06:29	07:04
	16:41	17:15	17:49	19:23	19:55	20:24	20:34	20:14	19:31	18:40	16:54	16:30
3	07:24	07:08	06:31	06:40	05:55	05:28	05:30	05:55	06:26	06:56	06:30	07:05
	16:41	17:17	17:50	19:24	19:56	20:25	20:34	20:13	19:29	18:38	16:53	16:30
4	07:24	07:07	06:29	06:38	05:54	05:27	05:31	05:56	06:27	06:57	06:32	07:06
	16:42	17:18	17:52	19:25	19:57	20:26	20:34	20:12	19:27	18:37	16:52	16:30
5	07:24	07:06	06:28	06:37	05:52	05:27	05:31	05:57	06:28	06:58	06:33	07:07
	16:43	17:19	17:53	19:26	19:58	20:26	20:34	20:11	19:26	18:35	16:50	16:30
6	07:24	07:05	06:26	06:35	05:51	05:27	05:32	05:58	06:29	06:59	06:34	07:08
	16:44	17:20	17:54	19:27	19:59	20:27	20:34	20:10	19:24	18:34	16:49	16:30
7	07:23	07:04	06:25	06:33	05:50	05:26	05:32	05:59	06:30	07:00	06:35	07:09
	16:45	17:22	17:55	19:29	20:00	20:28	20:33	20:09	19:23	18:32	16:48	16:30
8	07:23	07:03	06:23	06:32	05:49	05:26	05:33	06:00	06:31	07:01	06:36	07:10
	16:46	17:23	17:56	19:30	20:01	20:28	20:33	20:07	19:21	18:30	16:47	16:30
9	07:23	07:01	06:21	06:30	05:48	05:26	05:34	06:01	06:32	07:02	06:37	07:11
	16:47	17:24	17:57	19:31	20:02	20:29	20:33	20:06	19:19	18:29	16:46	16:30
10	07:23	07:00	06:20	06:29	05:46	05:26	05:34	06:02	06:33	07:03	06:39	07:11
	16:48	17:25	17:58	19:32	20:03	20:29	20:32	20:05	19:17	18:27	16:45	16:30
11	07:23	06:59	06:18	06:27	05:45	05:26	05:35	06:03	06:34	07:04	06:40	07:12
	16:49	17:26	17:59	19:33	20:04	20:30	20:32	20:04	19:16	18:25	16:44	16:30
12	07:23	06:58	06:17	06:25	05:44	05:25	05:36	06:04	06:35	07:05	06:41	07:13
	16:50	17:28	18:01	19:34	20:05	20:30	20:31	20:02	19:14	18:24	16:43	16:30
13	07:22	06:57	06:15	06:24	05:43	05:25	05:36	06:05	06:36	07:06	06:42	07:14
	16:51	17:29	18:02	19:35	20:06	20:31	20:31	20:01	19:12	18:22	16:42	16:30
14	07:22	06:55	06:13	06:22	05:42	05:25	05:37	06:06	06:37	07:08	06:43	07:15
	16:52	17:30	18:03	19:36	20:07	20:31	20:30	20:00	19:11	18:21	16:41	16:30
15	07:22	06:54	06:12	06:21	05:41	05:25	05:38	06:07	06:38	07:09	06:45	07:15
	16:54	17:31	18:04	19:37	20:08	20:32	20:30	19:58	19:09	18:19	16:40	16:30
16	07:21	06:53	06:10	06:19	05:40	05:25	05:39	06:08	06:39	07:10	06:46	07:16
	16:55	17:33	18:05	19:38	20:09	20:32	20:29	19:57	19:07	18:18	16:39	16:31
17	07:21	06:51	06:08	06:18	05:39	05:25	05:40	06:09	06:40	07:11	06:47	07:17
	16:56	17:34	18:06	19:39	20:10	20:33	20:28	19:55	19:06	18:16	16:39	16:31
18	07:20	06:50	06:07	06:16	05:38	05:25	05:40	06:10	06:41	07:12	06:48	07:18
	16:57	17:35	18:07	19:40	20:11	20:33	20:28	19:54	19:04	18:15	16:38	16:31
19	07:20	06:49	06:05	06:14	05:37	05:25	05:41	06:11	06:42	07:13	06:49	07:18
	16:58	17:36	18:08	19:41	20:12	20:33	20:27	19:52	19:02	18:13	16:37	16:32
20	07:19	06:47	06:03	06:13	05:37	05:26	05:42	06:12	06:43	07:14	06:51	07:19
	16:59	17:37	18:09	19:42	20:13	20:34	20:26	19:51	19:00	18:12	16:36	16:32
21	07:19	06:46	06:02	06:11	05:36	05:26	05:43	06:13	06:44	07:15	06:52	07:19
	17:01	17:39	18:10	19:43	20:14	20:34	20:26	19:50	18:59	18:10	16:36	16:32
22	07:18	06:44	06:00	06:10	05:35	05:26	05:44	06:14	06:45	07:16	06:53	07:20
	17:02	17:40	18:11	19:44	20:15	20:34	20:25	19:48	18:57	18:09	16:35	16:33
23	07:17	06:43	05:58	06:09	05:34	05:26	05:45	06:15	06:46	07:18	06:54	07:20
	17:03	17:41	18:13	19:46	20:16	20:34	20:24	19:47	18:55	18:07	16:34	16:33
24	07:17	06:42	05:57	06:07	05:33	05:26	05:46	06:16	06:47	07:19	06:55	07:21
	17:04	17:42	18:14	19:47	20:17	20:34	20:23	19:45	18:54	18:06	16:34	16:34
25	07:16	06:40	05:55	06:06	05:33	05:27	05:46	06:17	06:48	07:20	06:56	07:21
	17:05	17:43	18:15	19:48	20:18	20:34	20:22	19:43	18:52	17:04	16:33	16:35
26	07:15	06:39	05:53	06:04	05:32	05:27	05:47	06:18	06:49	07:21	06:57	07:22
	17:07	17:45	18:16	19:49	20:19	20:35	20:21	19:42	18:50	17:03	16:33	16:35
27	07:14	06:37	05:52	06:03	05:31	05:27	05:48	06:19	06:50	07:22	06:59	07:22
	17:08	17:46	18:17	19:50	20:20	20:35	20:21	19:40	18:49	17:02	16:32	16:36
28	07:14	06:36	05:50	06:01	05:31	05:28	05:49	06:20	06:51	07:23	07:00	07:22
	17:09	17:47	18:18	19:51	20:20	20:35	20:20	19:39	18:47	17:00	16:32	16:37
29	07:13		06:48	06:00	05:30	05:28	05:50	06:21	06:52	07:24	07:01	07:23
	17:10		19:19	19:52	20:21	20:35	20:19	19:37	18:45	16:59	16:31	16:37
30	07:12		06:47	05:59	05:30	05:29	05:51	06:22	06:53	07:25	07:02	07:23
	17:12		19:20	19:53	20:22	20:35	20:18	19:36	18:44	16:58	16:31	16:38
31	07:11		06:45		05:29		05:52	06:23		06:27		07:23
	17:13		19:21		20:23		20:17	19:34		16:56		16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 10 - A17

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:24	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:23 16:41	07:09 17:15	06:32 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:31
3	07:24 16:41	07:08 17:17	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:38	06:30 16:53	07:05 16:30
4	07:24 16:42	07:07 17:18	06:29 17:52	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:27	06:57 18:37	06:32 16:52	07:06 16:30
5	07:24 16:43	07:06 17:19	06:28 17:53	06:37 19:26	05:52 19:58	05:27 20:26	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:33 16:50	07:07 16:30
6	07:24 16:44	07:05 17:20	06:26 17:54	06:35 19:27	05:51 19:59	05:27 20:27	05:32 20:34	05:58 20:10	06:29 19:24	06:59 18:34	06:34 16:49	07:08 16:30
7	07:23 16:45	07:04 17:22	06:25 17:55	06:33 19:29	05:50 20:00	05:26 20:28	05:32 20:33	05:59 20:09	06:30 19:23	07:00 18:32	06:35 16:48	07:09 16:30
8	07:23 16:46	07:03 17:23	06:23 17:56	06:32 19:30	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:07	06:31 19:21	07:01 18:30	06:36 16:47	07:10 16:30
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:31	05:48 20:02	05:26 20:29	05:34 20:33	06:01 20:06	06:32 19:19	07:02 18:29	06:37 16:46	07:11 16:30
10	07:23 16:48	07:00 17:25	06:20 17:58	06:29 19:32	05:46 20:03	05:26 20:29	05:34 20:32	06:02 20:05	06:33 19:17	07:03 18:27	06:39 16:45	07:11 16:30
11	07:23 16:49	06:59 17:26	06:18 17:59	06:27 19:33	05:45 20:04	05:26 20:30	05:35 20:32	06:03 20:04	06:34 19:16	07:04 18:25	06:40 16:44	07:12 16:30
12	07:23 16:50	06:58 17:28	06:17 18:01	06:25 19:34	05:44 20:05	05:25 20:30	05:36 20:31	06:04 20:02	06:35 19:14	07:05 18:24	06:41 16:43	07:13 16:30
13	07:22 16:51	06:57 17:29	06:15 18:02	06:24 19:35	05:43 20:06	05:25 20:31	05:36 20:31	06:05 20:01	06:36 19:12	07:06 18:22	06:42 16:42	07:14 16:30
14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:07	05:25 20:31	05:37 20:30	06:06 20:00	06:37 19:11	07:07 18:21	06:43 16:41	07:15 16:30
15	07:22 16:54	06:54 17:31	06:12 18:04	06:21 19:37	05:41 20:08	05:25 20:32	05:38 20:30	06:07 19:58	06:38 19:09	07:09 18:19	06:45 16:40	07:15 16:30
16	07:21 16:55	06:53 17:33	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:57	06:39 19:07	07:10 18:18	06:46 16:39	07:16 16:31
17	07:21 16:56	06:51 17:34	06:08 18:06	06:18 19:39	05:39 20:10	05:25 20:33	05:40 20:28	06:09 19:55	06:40 19:06	07:11 18:16	06:47 16:39	07:17 16:31
18	07:20 16:57	06:50 17:35	06:07 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:07 19:04	07:12 18:15	06:48 16:38	07:18 16:31
19	07:20 16:58	06:49 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:11 19:52	06:42 19:02	07:13 18:13	06:49 16:37	07:18 16:32
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	05:37 20:13	05:26 20:34	05:42 20:26	06:12 19:51	06:43 19:00	07:14 18:12	06:51 16:36	07:19 16:32
21	07:19 17:01	06:46 17:39	06:02 18:10	06:11 19:43	05:36 20:14	05:26 20:34	05:43 20:26	06:13 19:50	06:44 18:59	07:15 18:10	06:52 16:36	07:19 16:32
22	07:18 17:02	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:45 18:57	07:16 18:09	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:13	06:09 19:46	05:34 20:16	05:26 20:34	05:45 20:24	06:15 19:47	06:46 18:55	07:18 18:07	06:54 16:34	07:20 16:33
24	07:17 17:04	06:42 17:42	05:57 18:14	06:07 19:47	05:33 20:17	05:26 20:34	05:46 20:23	06:16 19:45	06:47 18:54	07:19 18:06	06:55 16:34	07:21 16:34
25	07:16 17:05	06:40 17:43	05:55 18:15	06:06 19:48	05:33 20:18	05:27 20:34	05:46 20:22	06:17 19:43	06:48 18:52	07:20 17:04	06:56 16:33	07:21 16:35
26	07:15 17:07	06:39 17:45	05:53 18:16	06:04 19:49	05:32 20:19	05:27 20:35	05:47 20:21	06:18 19:42	06:49 18:50	07:21 17:03	06:57 16:33	07:22 16:35
27	07:14 17:08	06:37 17:46	05:52 18:17	06:03 19:50	05:31 20:19	05:27 20:35	05:48 20:21	06:19 19:40	06:50 18:49	07:22 17:02	06:59 16:32	07:22 16:36
28	07:14 17:09	06:36 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 20:35	05:49 20:20	06:20 19:39	06:51 18:47	07:23 17:00	07:00 16:32	07:22 16:37
29	07:13 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:35	05:50 20:19	06:21 19:37	06:52 18:45	07:24 16:59	07:01 16:31	07:23 16:37
30	07:12 17:12		06:47 19:20	05:59 19:53	05:30 20:22	05:29 20:35	05:51 20:18	06:22 19:36	06:53 18:44	07:25 16:58	07:02 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:23		05:52 20:17	06:23 19:34		07:26 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 11 - A18

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:23 16:41	07:09 17:15	06:32 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:30
3	07:23 16:41	07:08 17:17	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:38	06:30 16:53	07:05 16:30
4	07:24 16:42	07:07 17:18	06:29 17:52	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:27	06:57 18:37	06:31 16:52	07:06 16:30
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 12 - A19

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 13 - A21

Assumptions for shadow calculations

- Maximum distance for influence 2.000 m
 - Minimum sun height over horizon for influence 3 °
 - Day step for calculation 1 days
 - Time step for calculation 1 minutes
- The calculated times are "worst case" given by the following assumptions:
- The sun is shining all the day, from sunrise to sunset
 - The rotor plane is always perpendicular to the line from the WTG to the sun
 - The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
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28	07:13 17:09	06:36 17:47	05:50 18:18	06:02 19:51	05:31 20:20	05:28 20:35	05:49 20:20	06:20 19:39	06:51 18:47	07:23 17:00	07:00 16:32	07:22 16:37
29	07:13 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:35	05:50 20:19	06:21 19:37	06:52 18:45	06:24 16:59	07:01 16:31	07:23 16:37
30	07:12 17:11		06:47 19:20	05:59 19:53	05:30 20:22	05:29 20:34	05:51 20:18	06:22 19:36	06:53 18:43	06:26 16:58	07:02 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:23		05:52 20:17	06:23 19:34		06:27 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 14 - A22

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:29 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:23 16:41	07:09 17:15	06:32 17:49	06:42 19:23	05:56 19:55	05:28 20:24	05:30 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:31
3	07:23 16:42	07:08 17:17	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:38	06:30 16:53	07:05 16:30
4	07:23 16:42	07:07 17:18	06:29 17:52	06:38 19:25	05:54 19:57	05:27 20:26	05:31 20:34	05:56 20:12	06:27 19:27	06:57 18:37	06:31 16:52	07:06 16:30
5	07:24 16:43	07:06 17:19	06:28 17:53	06:37 19:26	05:52 19:58	05:27 20:26	05:31 20:34	05:57 20:11	06:28 19:26	06:58 18:35	06:33 16:50	07:07 16:30
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7	07:23 16:45	07:04 17:22	06:25 17:55	06:33 19:29	05:50 20:00	05:26 20:28	05:32 20:33	05:59 20:09	06:30 19:23	07:00 18:32	06:35 16:48	07:09 16:30
8	07:23 16:46	07:03 17:23	06:23 17:56	06:32 19:30	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:07	06:31 19:21	07:01 18:30	06:36 16:47	07:10 16:30
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:31	05:48 20:02	05:26 20:29	05:34 20:32	06:01 20:06	06:32 19:19	07:02 18:29	06:37 16:46	07:11 16:30
10	07:23 16:48	07:00 17:25	06:20 17:58	06:29 19:32	05:47 20:03	05:26 20:29	05:34 20:32	06:02 20:05	06:33 19:17	07:03 18:27	06:39 16:45	07:11 16:30
11	07:23 16:49	06:59 17:27	06:18 17:59	06:27 19:33	05:45 20:04	05:26 20:30	05:35 20:32	06:03 20:03	06:34 19:16	07:04 18:25	06:40 16:44	07:12 16:30
12	07:23 16:50	06:58 17:28	06:17 18:01	06:25 19:34	05:44 20:05	05:25 20:30	05:36 20:31	06:04 20:02	06:35 19:14	07:05 18:24	06:41 16:43	07:13 16:30
13	07:22 16:51	06:57 17:29	06:15 18:02	06:24 19:35	05:43 20:06	05:25 20:31	05:37 20:31	06:05 20:01	06:36 19:12	07:06 18:22	06:42 16:42	07:14 16:30
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31	07:11 17:13		06:45 19:21		05:29 20:23		05:52 20:17	06:23 19:34		06:27 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 15 - LGH01

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
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3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:27 20:25	05:30 20:34	05:55 20:13	06:26 19:29	06:56 18:38	06:30 16:52	07:05 16:30
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14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:07	05:25 20:31	05:37 20:30	06:06 19:59	06:36 19:10	07:07 18:20	06:43 16:41	07:14 16:30
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16	07:21 16:54	06:52 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:56	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
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18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38	07:17 16:31
19	07:19 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	05:36 20:13	05:25 20:33	05:42 20:26	06:12 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:18 16:32
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22	07:18 17:01	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:44 18:57	07:16 18:08	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 20:34	05:44 20:24	06:15 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:04	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:16 19:45	06:46 18:53	07:18 18:06	06:55 16:34	07:21 16:34
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31	07:11 17:13	06:32 17:50	05:47 18:21	06:00 19:54	05:29 20:23	05:28 20:34	05:51 20:16	06:23 19:34	06:53 18:44	07:24 18:01	07:03 16:31	07:24 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 16 - LGH02

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:28 20:24	05:29 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:30
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16	07:21 16:54	06:52 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:56	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:20 16:56	06:51 17:34	06:08 18:06	06:17 19:39	05:39 20:10	05:25 20:32	05:39 20:28	06:09 19:55	06:39 19:05	07:11 18:16	06:47 16:38	07:17 16:31
18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38	07:17 16:31
19	07:19 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	05:36 20:13	05:25 20:33	05:42 20:26	06:12 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:18 16:32
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:36 20:14	05:25 20:34	05:43 20:25	06:13 19:49	06:43 18:59	07:15 18:10	06:51 16:35	07:19 16:32
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 17 - Aria01

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:53 18:42	06:28 16:55	07:03 16:31
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:28 20:24	05:29 20:34	05:54 20:14	06:25 19:31	06:55 18:40	06:29 16:54	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:27 20:25	05:30 20:34	05:55 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 18 - Aria02

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:54 18:42	06:28 16:55	07:03 16:31
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 19 - Edpr01

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 20 - Edpr02

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:53 18:42	06:28 16:55	07:03 16:31
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Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 21 - Edpr03

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:53 18:42	06:28 16:55	07:03 16:31
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28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 20:34	05:49 20:19	06:20 19:39	06:50 18:47	07:21 18:03	06:59 16:32	07:22 16:36
29	07:12 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:34	05:50 20:18	06:21 19:37	06:51 18:45	07:22 18:03	07:00 16:31	07:22 16:37
30	07:11 17:11		06:46 19:20	05:59 19:53	05:29 20:22	05:28 20:34	05:51 20:17	06:22 19:35	06:52 18:43	07:23 18:03	07:01 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:22		05:52 20:16	06:23 19:34		06:27 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 22 - Edpr04

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:53 18:42	06:28 16:55	07:03 16:31
2	07:23 16:40	07:09 17:15	06:32 17:49	06:41 19:23	05:56 19:55	05:28 20:24	05:29 20:34	05:54 20:14	06:25 19:30	06:55 18:40	06:29 16:54	07:04 16:30
3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:28 20:25	05:30 20:34	05:55 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:25	05:30 20:34	05:56 20:12	06:26 19:27	06:57 18:37	06:31 16:51	07:06 16:30
5	07:23 16:43	07:06 17:19	06:28 17:52	06:36 19:26	05:52 19:58	05:27 20:26	05:31 20:33	05:57 20:11	06:27 19:26	06:58 18:35	06:32 16:50	07:07 16:30
6	07:23 16:44	07:05 17:20	06:26 17:54	06:35 19:27	05:51 19:59	05:26 20:27	05:32 20:33	05:58 20:09	06:28 19:24	06:59 18:33	06:34 16:49	07:08 16:30
7	07:23 16:45	07:03 17:21	06:24 17:55	06:33 19:28	05:50 20:00	05:26 20:27	05:32 20:33	05:59 20:08	06:29 19:22	07:00 18:32	06:35 16:48	07:08 16:29
8	07:23 16:46	07:02 17:23	06:23 17:56	06:31 19:29	05:49 20:01	05:26 20:28	05:33 20:33	06:00 20:07	06:30 19:21	07:01 18:30	06:36 16:47	07:09 16:29
9	07:23 16:47	07:01 17:24	06:21 17:57	06:30 19:30	05:47 20:02	05:26 20:29	05:33 20:32	06:01 20:06	06:31 19:19	07:02 18:28	06:37 16:46	07:10 16:29
10	07:23 16:48	07:00 17:25	06:20 17:58	06:28 19:31	05:46 20:03	05:25 20:29	05:34 20:32	06:02 20:05	06:32 19:17	07:03 18:27	06:38 16:45	07:11 16:29
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13	07:22 16:51	06:56 17:29	06:15 18:01	06:23 19:35	05:43 20:06	05:25 20:31	05:36 20:30	06:05 20:01	06:35 19:12	07:06 18:22	06:42 16:42	07:14 16:30
14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:07	05:25 20:31	05:37 20:30	06:06 19:59	06:36 19:10	07:07 18:20	06:43 16:41	07:14 16:30
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21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:36 20:14	05:26 20:33	05:43 20:25	06:13 19:49	06:43 18:59	07:15 18:10	06:51 16:35	07:19 16:32
22	07:18 17:01	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:44 18:57	07:16 18:08	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 20:34	05:44 20:24	06:15 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
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25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:47	05:33 20:17	05:26 20:34	05:46 20:22	06:17 19:43	06:47 18:52	07:19 17:04	06:56 16:33	07:21 16:34
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31	07:11 17:13		06:45 19:21		05:29 20:22		05:52 20:16	06:23 19:34		07:23 16:56		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 23 - Edpr05

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:24 19:32	06:53 18:42	06:28 16:55	07:03 16:31
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3	07:23 16:41	07:08 17:16	06:31 17:50	06:40 19:24	05:55 19:56	05:27 20:25	05:30 20:34	05:55 20:13	06:25 19:29	06:56 18:38	06:30 16:52	07:05 16:30
4	07:23 16:42	07:07 17:18	06:29 17:51	06:38 19:25	05:53 19:57	05:27 20:25	05:30 20:34	05:56 20:12	06:26 19:27	06:57 18:37	06:31 16:51	07:06 16:30
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7	07:23 16:45	07:03 17:21	06:24 17:55	06:33 19:28	05:50 20:00	05:26 20:27	05:32 20:33	05:59 20:08	06:29 19:22	07:00 18:32	06:35 16:48	07:08 16:29
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14	07:22 16:52	06:55 17:30	06:13 18:03	06:22 19:36	05:42 20:07	05:25 20:31	05:37 20:30	06:06 19:59	06:36 19:10	07:07 18:20	06:43 16:41	07:14 16:30
15	07:21 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:25 20:32	05:38 20:29	06:07 19:58	06:37 19:09	07:08 18:19	06:44 16:40	07:15 16:30
16	07:21 16:54	06:52 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:56	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:20 16:56	06:51 17:34	06:08 18:06	06:17 19:39	05:39 20:10	05:25 20:32	05:39 20:28	06:09 19:55	06:39 19:05	07:10 18:16	06:47 16:38	07:17 16:31
18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38	07:17 16:31
19	07:19 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	05:36 20:13	05:25 20:33	05:42 20:26	06:12 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:18 16:32
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:36 20:14	05:26 20:33	05:43 20:25	06:13 19:49	06:43 18:59	07:15 18:10	06:51 16:35	07:19 16:32
22	07:18 17:01	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:44 20:25	06:14 19:48	06:44 18:57	07:16 18:08	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 20:34	05:44 20:24	06:15 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:04	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:16 19:45	06:46 18:53	07:18 18:06	06:55 16:34	07:20 16:34
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:47	05:32 20:17	05:26 20:34	05:46 20:22	06:17 19:43	06:47 18:52	07:19 18:04	06:56 16:33	07:21 16:34
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27	07:14 17:08	06:37 17:46	05:51 18:17	06:03 19:49	05:31 20:19	05:27 20:34	05:48 20:20	06:19 19:40	06:49 18:48	07:22 18:01	06:58 16:32	07:22 16:36
28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 20:34	05:49 20:19	06:20 19:38	06:50 18:47	07:23 18:00	06:59 16:32	07:22 16:36
29	07:12 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:34	05:50 20:18	06:21 19:37	06:51 18:45	07:24 18:03	07:00 16:31	07:22 16:37
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31	07:11 17:13		06:45 19:21		05:29 20:22		05:52 20:16	06:23 19:34		07:26 18:06		07:23 16:39
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

SHADOW - Calendar per WTG

WTG: 24 - Edpr06

Assumptions for shadow calculations

Maximum distance for influence 2.000 m
 Minimum sun height over horizon for influence 3 °
 Day step for calculation 1 days
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

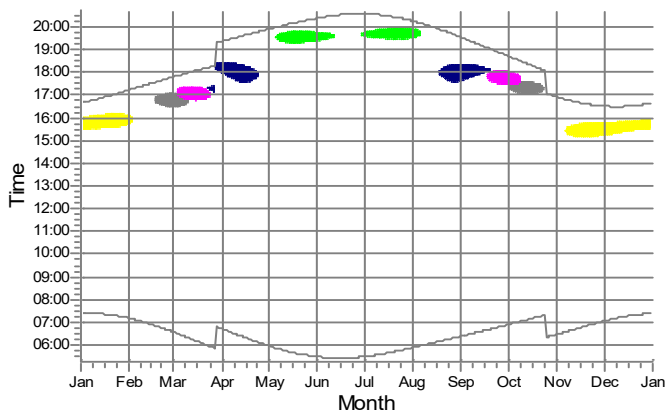
	January	February	March	April	May	June	July	August	September	October	November	December
1	07:23 16:40	07:10 17:14	06:34 17:48	06:43 19:22	05:57 19:54	05:28 20:23	05:29 20:34	05:53 20:15	06:23 19:32	06:53 18:42	06:28 16:55	07:03 16:31
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14	07:22 16:52	06:55 17:30	06:13 18:02	06:22 19:36	05:42 20:07	05:25 20:31	05:37 20:30	06:06 19:59	06:36 19:10	07:07 18:20	06:43 16:41	07:14 16:30
15	07:21 16:53	06:54 17:31	06:11 18:04	06:20 19:37	05:41 20:08	05:25 20:32	05:38 20:29	06:07 19:58	06:37 19:09	07:08 18:19	06:44 16:40	07:15 16:30
16	07:21 16:54	06:52 17:32	06:10 18:05	06:19 19:38	05:40 20:09	05:25 20:32	05:39 20:29	06:08 19:56	06:38 19:07	07:09 18:17	06:46 16:39	07:16 16:30
17	07:20 16:56	06:51 17:34	06:08 18:06	06:17 19:39	05:39 20:10	05:25 20:32	05:39 20:28	06:09 19:55	06:39 19:05	07:10 18:16	06:47 16:38	07:17 16:31
18	07:20 16:57	06:50 17:35	06:06 18:07	06:16 19:40	05:38 20:11	05:25 20:33	05:40 20:28	06:10 19:54	06:40 19:04	07:12 18:14	06:48 16:38	07:17 16:31
19	07:19 16:58	06:48 17:36	06:05 18:08	06:14 19:41	05:37 20:12	05:25 20:33	05:41 20:27	06:11 19:52	06:41 19:02	07:13 18:13	06:49 16:37	07:18 16:31
20	07:19 16:59	06:47 17:37	06:03 18:09	06:13 19:42	05:36 20:13	05:25 20:33	05:42 20:26	06:12 19:51	06:42 19:00	07:14 18:11	06:50 16:36	07:18 16:32
21	07:18 17:00	06:46 17:38	06:01 18:10	06:11 19:43	05:36 20:14	05:25 20:33	05:43 20:25	06:13 19:49	06:43 18:58	07:15 18:10	06:51 16:35	07:19 16:32
22	07:18 17:01	06:44 17:40	06:00 18:11	06:10 19:44	05:35 20:15	05:26 20:34	05:43 20:25	06:14 19:48	06:44 18:57	07:16 18:08	06:53 16:35	07:20 16:33
23	07:17 17:03	06:43 17:41	05:58 18:12	06:08 19:45	05:34 20:16	05:26 20:34	05:44 20:24	06:15 19:46	06:45 18:55	07:17 18:07	06:54 16:34	07:20 16:33
24	07:16 17:04	06:41 17:42	05:56 18:13	06:07 19:46	05:33 20:17	05:26 20:34	05:45 20:23	06:16 19:45	06:46 18:53	07:18 18:06	06:55 16:34	07:20 16:34
25	07:16 17:05	06:40 17:43	05:55 18:14	06:05 19:47	05:32 20:17	05:26 20:34	05:46 20:22	06:17 19:43	06:47 18:52	07:19 17:04	06:56 16:33	07:21 16:34
26	07:15 17:06	06:38 17:44	05:53 18:15	06:04 19:48	05:32 20:18	05:27 20:34	05:47 20:21	06:18 19:42	06:48 18:50	07:20 17:03	06:57 16:33	07:21 16:35
27	07:14 17:08	06:37 17:45	05:51 18:17	06:03 19:49	05:31 20:19	05:27 20:34	05:48 20:20	06:19 19:40	06:49 18:48	07:22 17:01	06:58 16:32	07:22 16:36
28	07:13 17:09	06:35 17:47	05:50 18:18	06:01 19:51	05:31 20:20	05:28 20:34	05:49 20:19	06:20 19:38	06:50 18:47	07:23 17:00	06:59 16:32	07:22 16:36
29	07:12 17:10		06:48 19:19	06:00 19:52	05:30 20:21	05:28 20:34	05:50 20:18	06:21 19:37	06:51 18:45	07:24 16:59	07:00 16:31	07:22 16:37
30	07:11 17:11		06:46 19:20	05:59 19:53	05:29 20:22	05:28 20:34	05:51 20:17	06:21 19:35	06:52 18:43	07:25 16:57	07:01 16:31	07:23 16:38
31	07:11 17:13		06:45 19:21		05:29 20:22		05:52 20:16	06:22 19:34		07:26 16:56		07:23 16:38
Potential sun hours	297	297	369	399	448	452	459	428	375	345	298	288
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

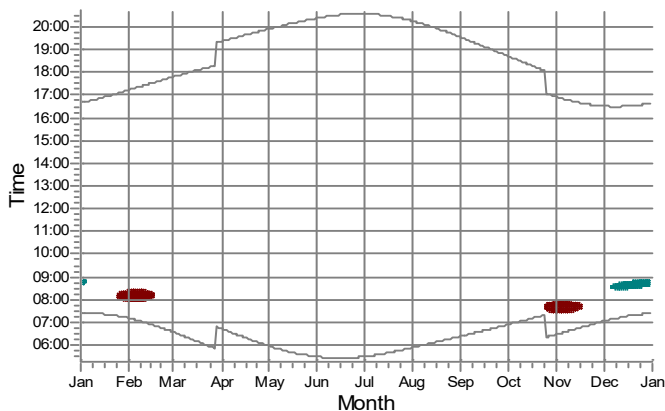
Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker	Last time (hh:mm) with flicker	Minutes with flicker

SHADOW - Calendar per WTG, graphical

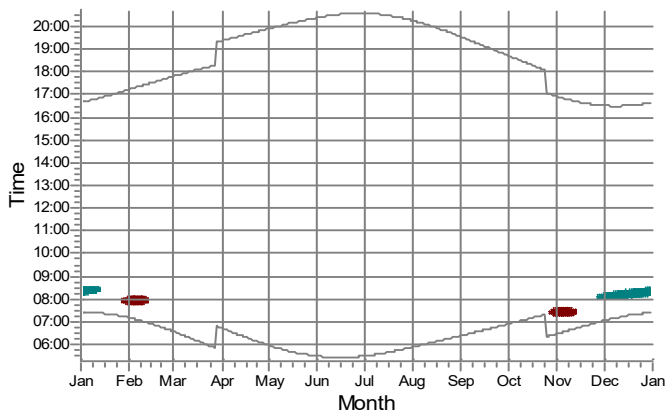
25: M01



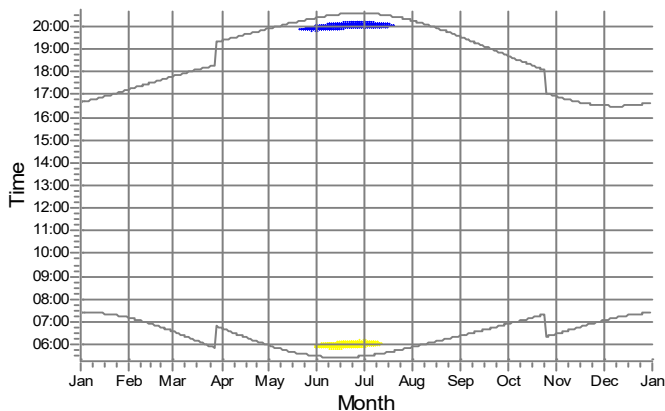
26: M04



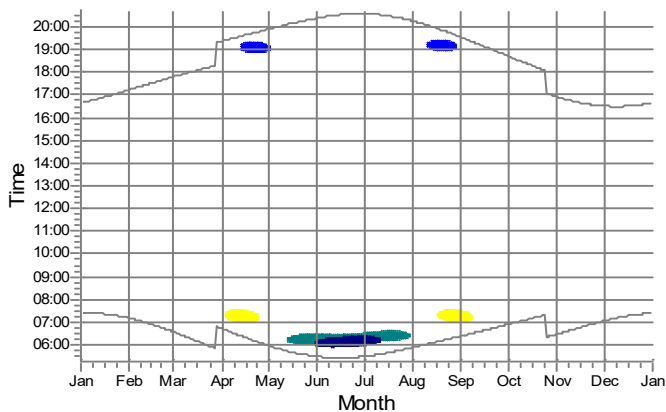
27: M05



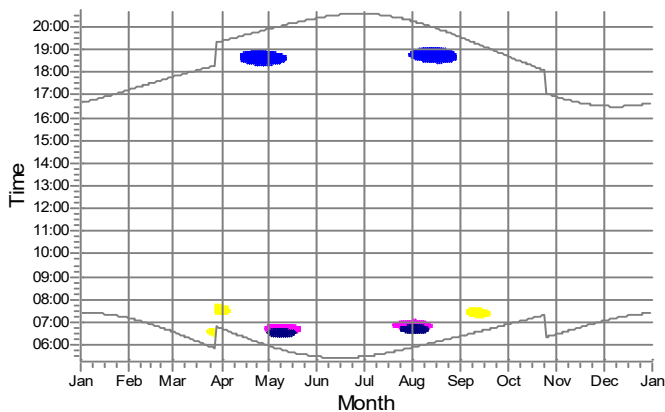
28: M06



29: M07



30: M08

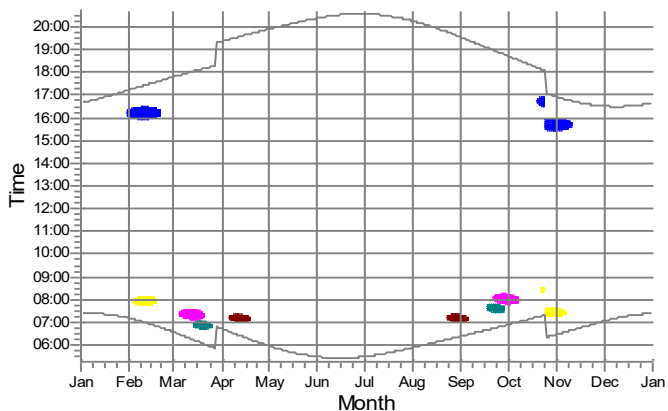


Shadow receptor

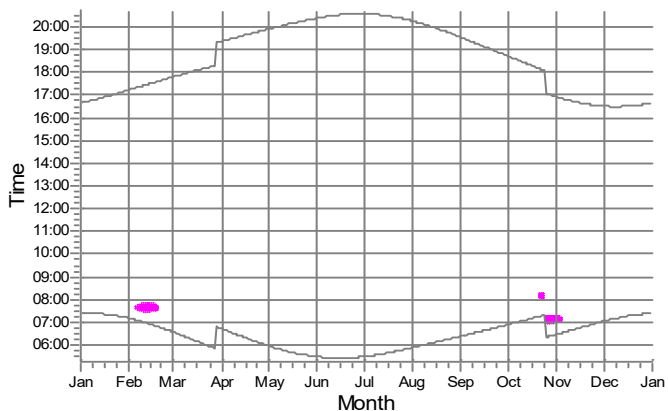
- | | | | | | | | |
|--|--------|---|--------|---|--------|---|--------|
|  | B: F02 |  | D: F04 |  | F: F07 |  | H: F10 |
|  | C: F03 |  | E: F05 |  | G: F08 |  | I: F11 |

SHADOW - Calendar per WTG, graphical

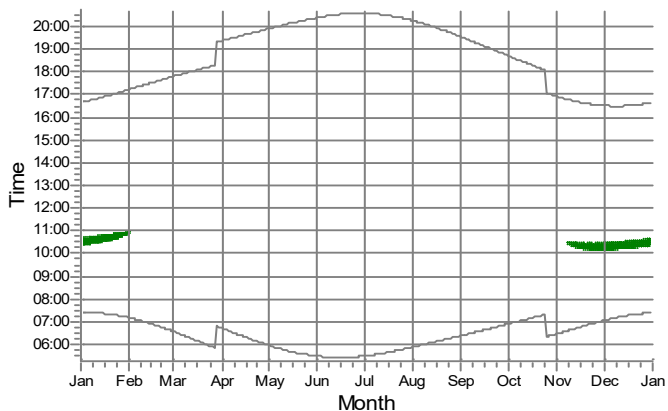
31: M09



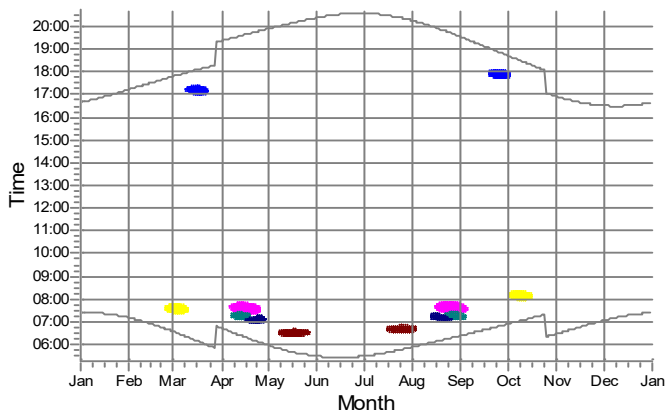
32: M10



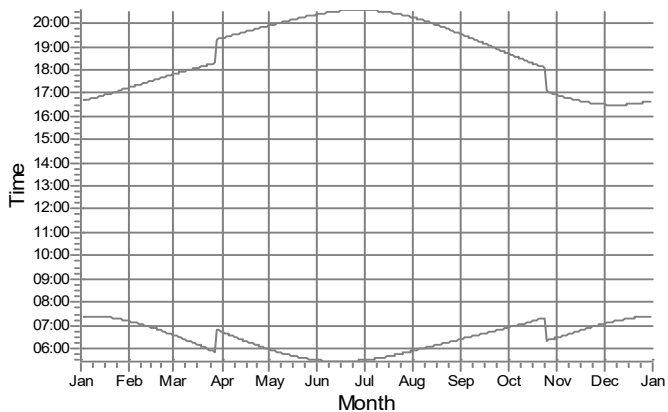
33: M11



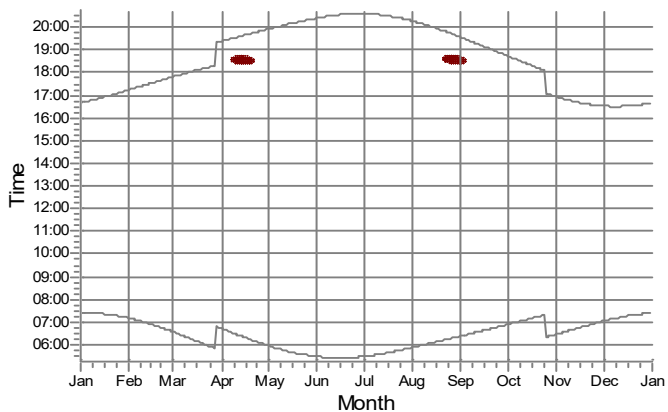
34: M12



1: A01



2: A03

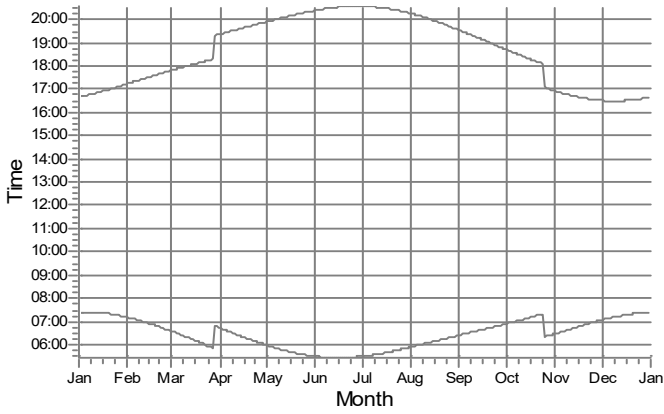


Shadow receptor

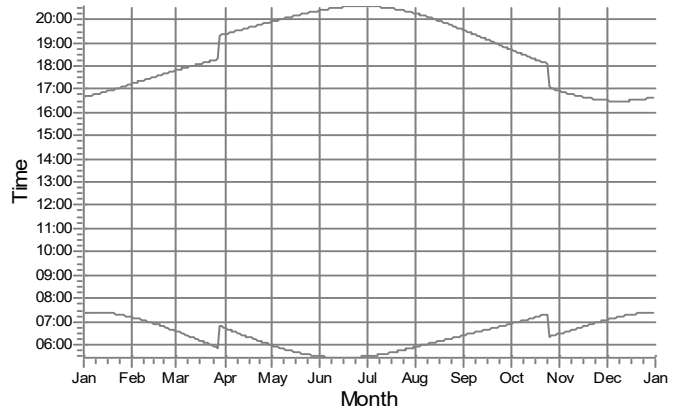
	A: F01		C: F03		F: F07		H: F10
	B: F02		E: F05		G: F08		

SHADOW - Calendar per WTG, graphical

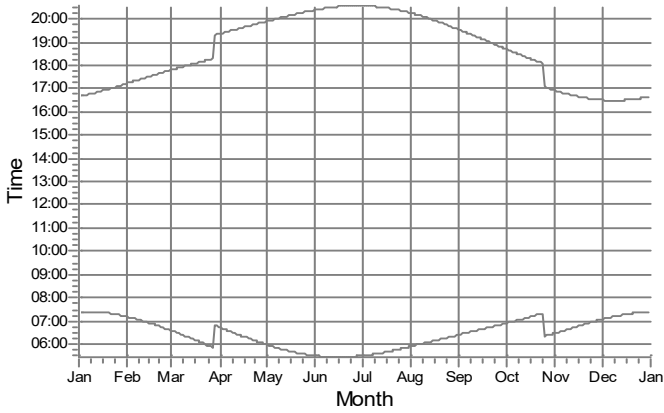
3: A06



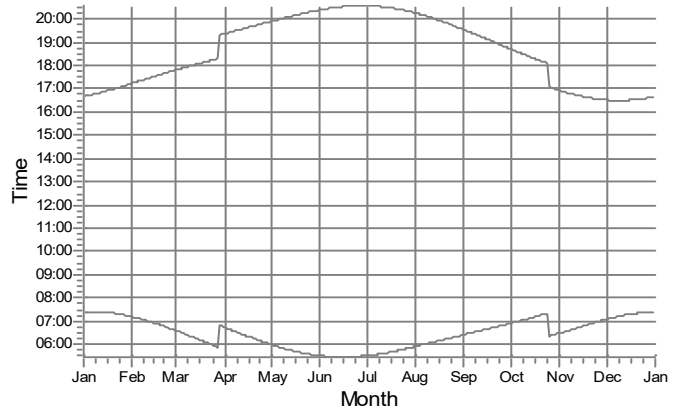
4: A07



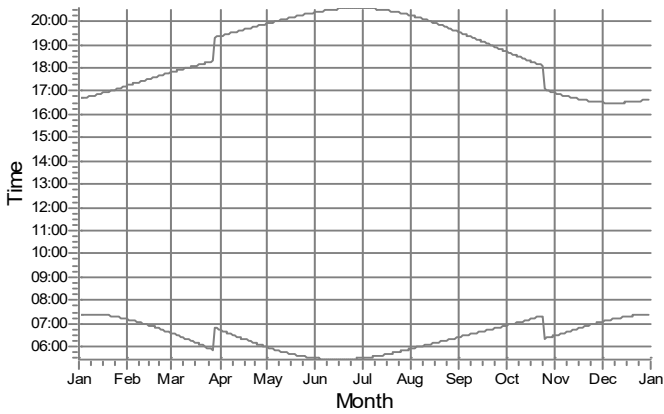
5: A10



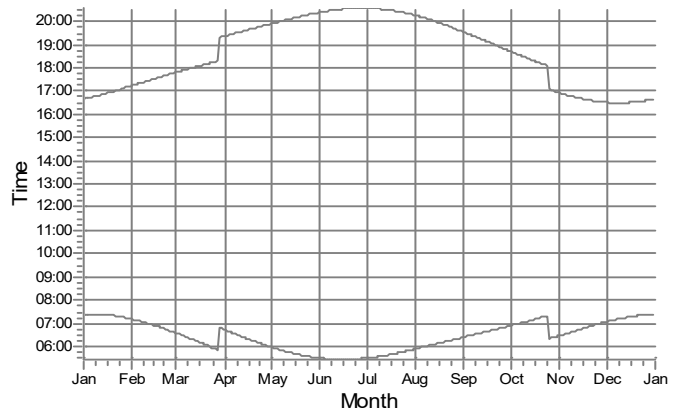
6: A11



7: A12



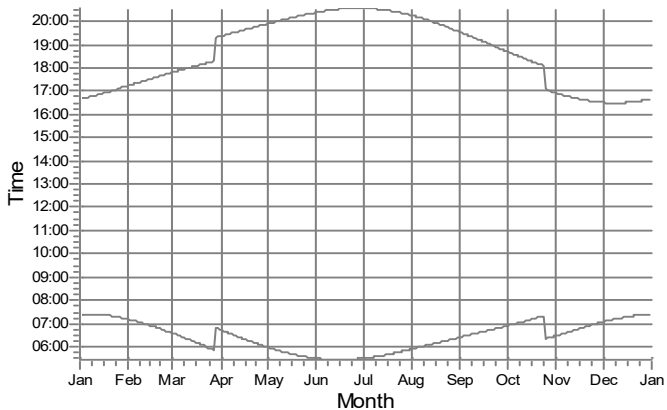
8: A15



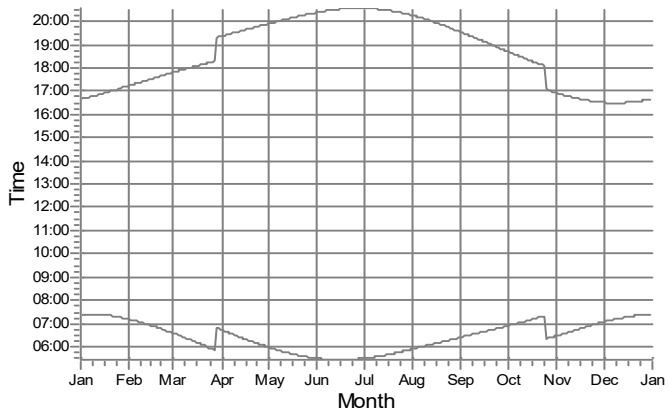
Shadow receptor

SHADOW - Calendar per WTG, graphical

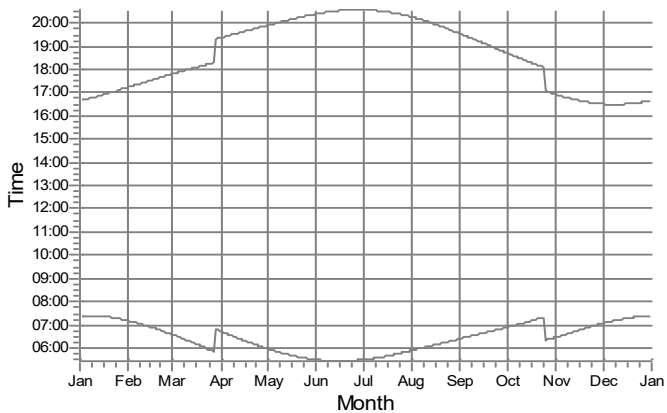
9: A16



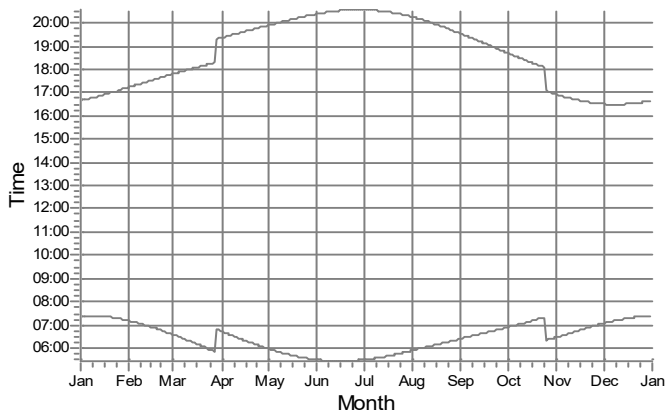
10: A17



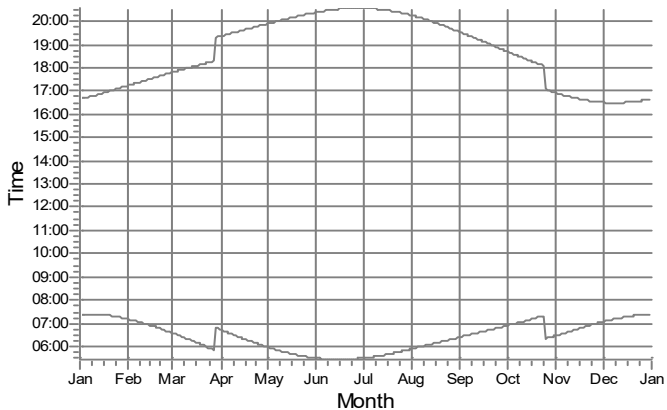
11: A18



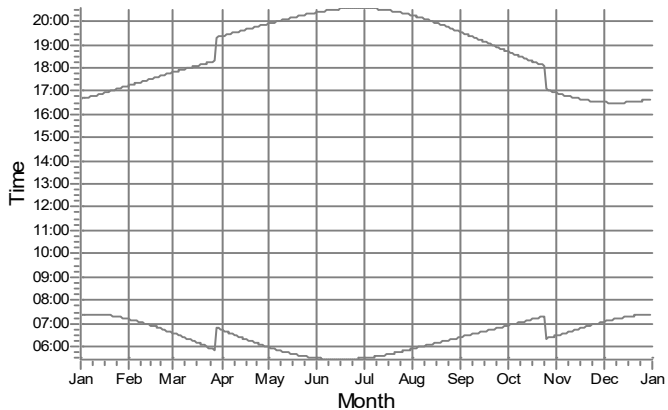
12: A19



13: A21



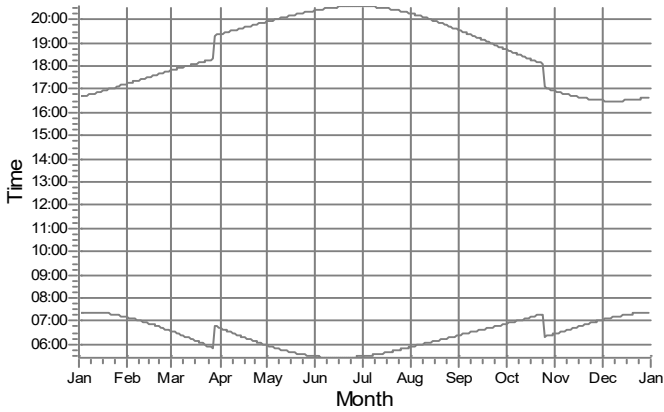
14: A22



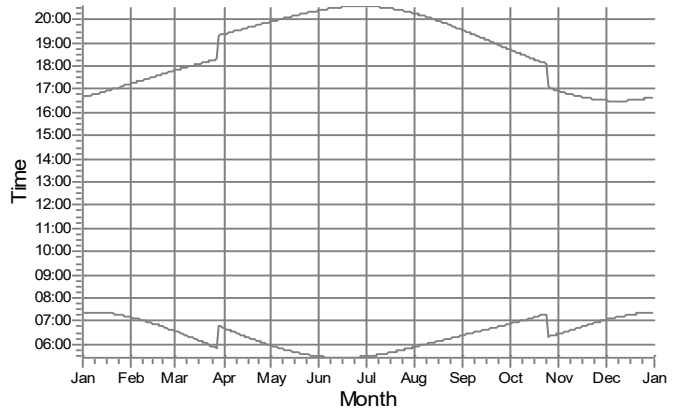
Shadow receptor

SHADOW - Calendar per WTG, graphical

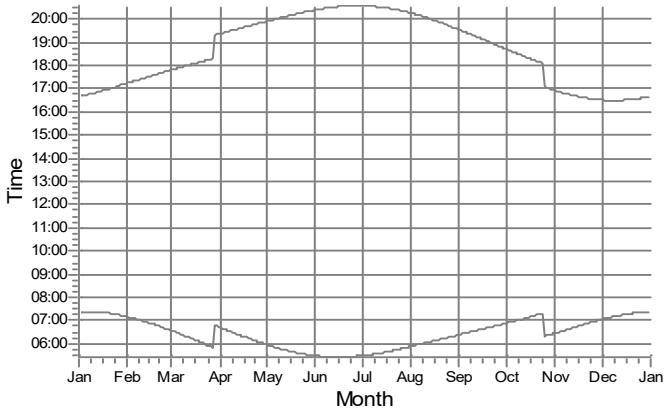
15: LGH01



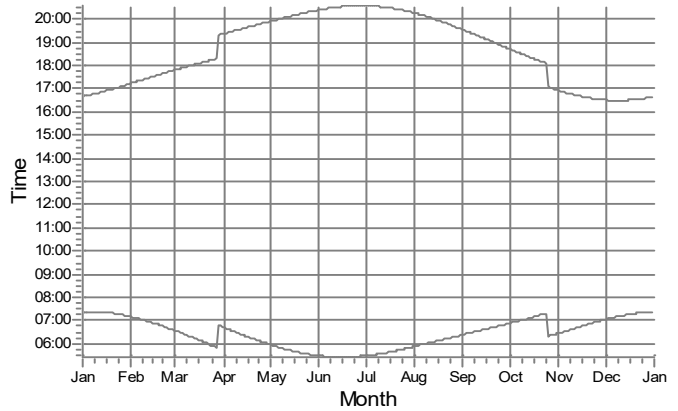
16: LGH02



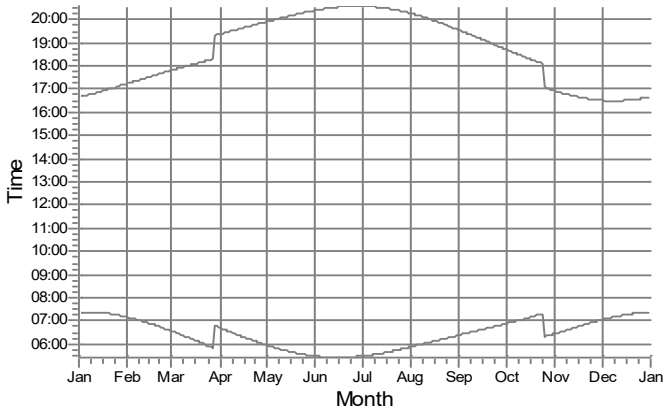
17: Aria01



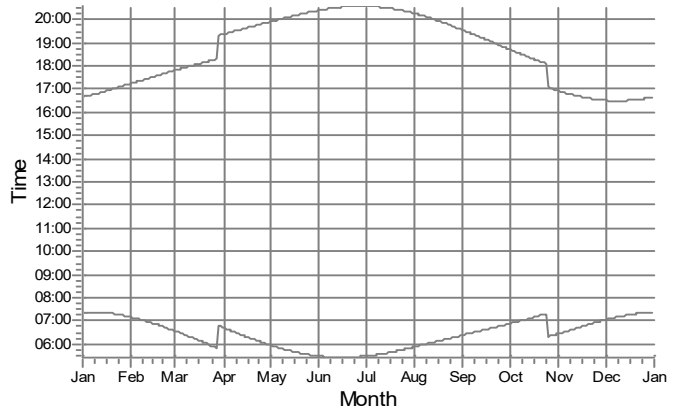
18: Aria02



19: Edpr01



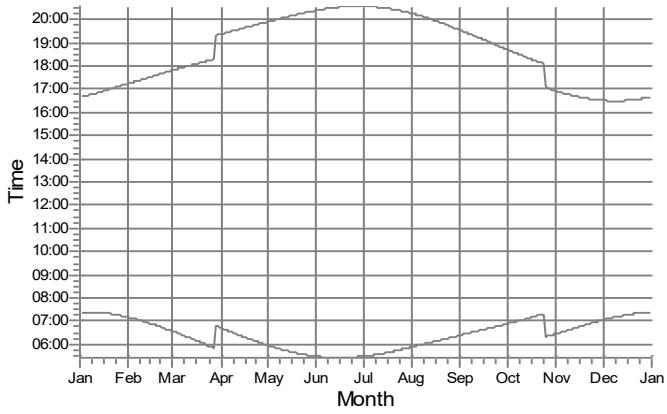
20: Edpr02



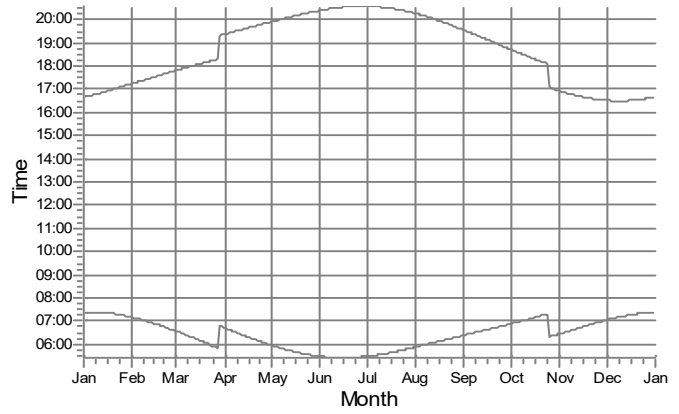
Shadow receptor

SHADOW - Calendar per WTG, graphical

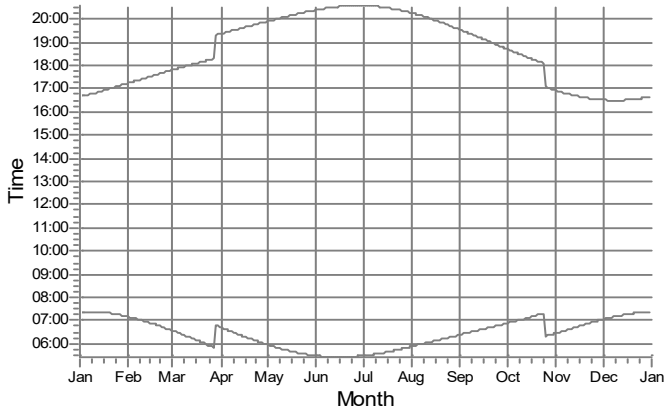
21: Edpr03



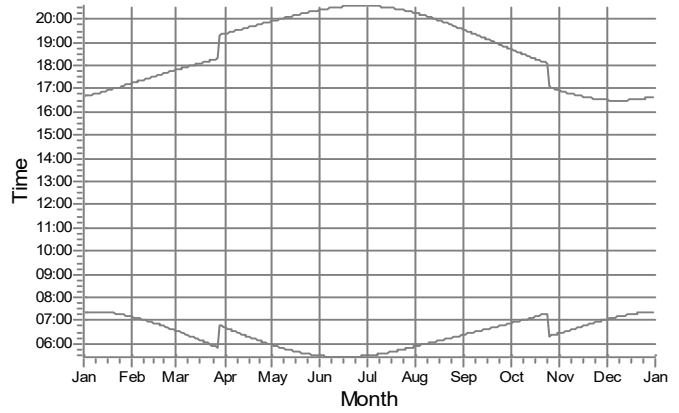
22: Edpr04



23: Edpr05

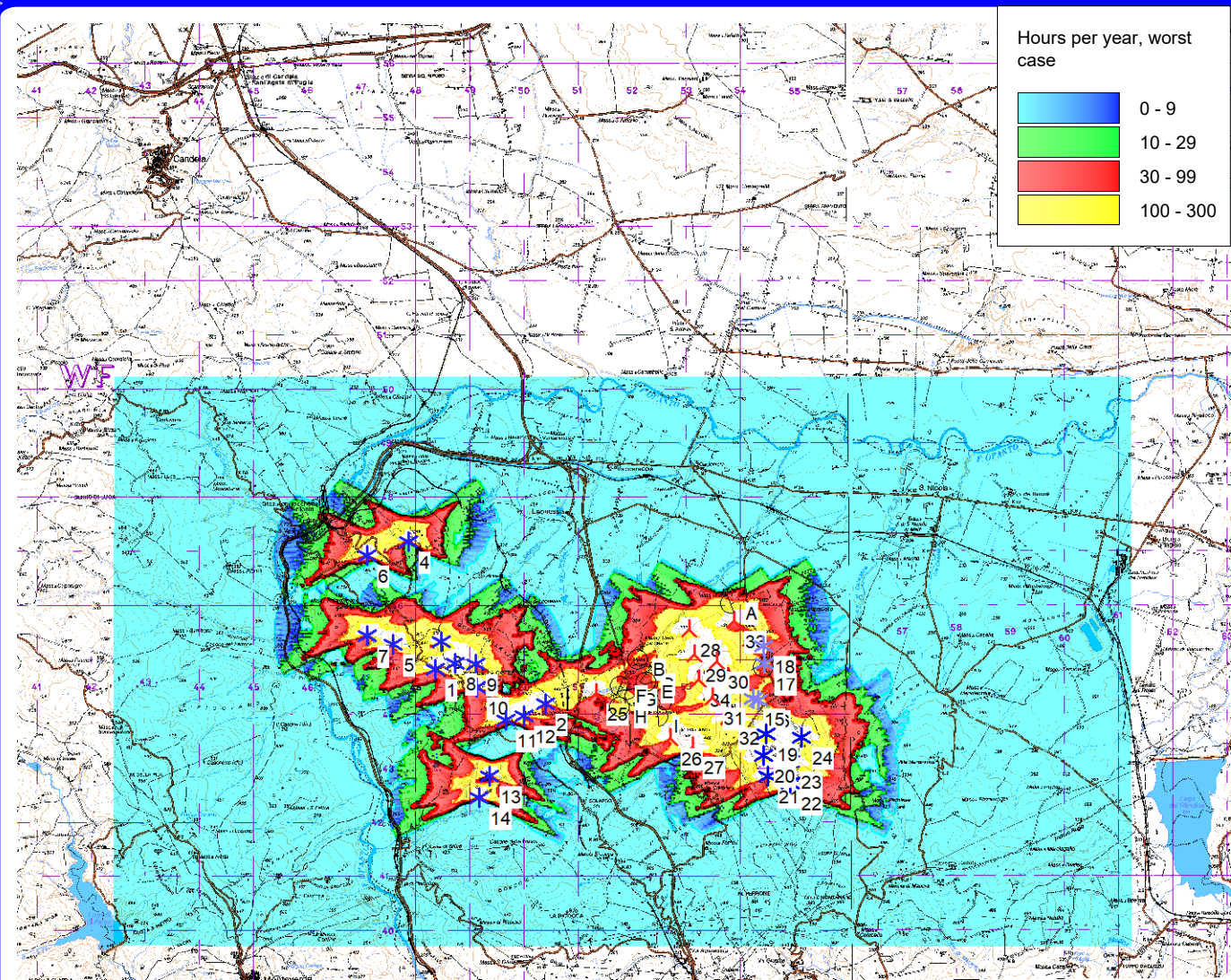


24: Edpr06

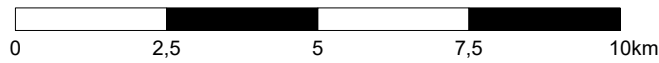
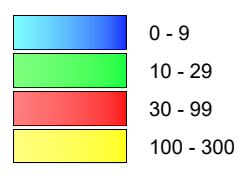


Shadow receptor

SHADOW - Map



Hours per year, worst case



Map: , Print scale 1:125.000, Map center UTM WGS 84 Zone: 33 East: 551.817 North: 4.545.010

▲ New WTG

* Existing WTG

● Shadow receptor

Isolines showing shadow in Hours per year, worst case

— 0 — 10 — 30 — 100