



Shadow Flicker Assessment

Romania wind farm

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Shadow Flicker Assessment

Wind Energy Park 48 (46) wind power plants, transformer stations, electrical interconnection networks, construction and upgrading of communication and access roads, located in Cerchezu, Constanța County”, beneficiary South Wind SRL
0798346



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ACRONYMS AND ABBREVIATIONS

Acronyms	Description
DEM	Digital Elevation Models
EHS	Environmental, Health and Safety
IFC	International Finance Corporation
MW	Megawatt
WTG	Wind turbine generator

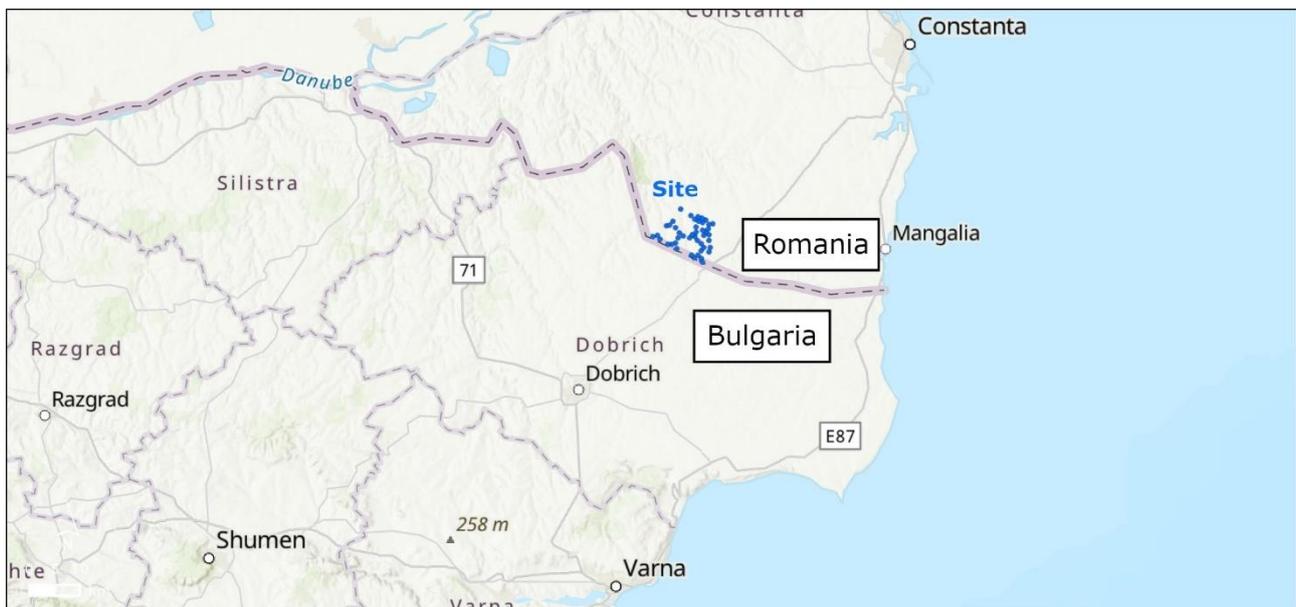
1. INTRODUCTION

On September 18, 2025, the Bulgarian Ministry of Environment and Water published on its official website, under the section Zonal Urban Development Plan, the notice regarding the closure of the transboundary environmental impact assessment procedure for the plan: “Urban Zoning Plan – Wind Energy Park 48 (46) wind power plants, transformer stations, electrical interconnection networks, construction and upgrading of communication and access roads, located in Cerchezu, Constanța County”, beneficiary South Wind SRL.

The notice includes the conditions that must be incorporated into the Environmental Approval as mandatory requirements in the regulatory act (as outlined in points 1–4 of the notice):

1. The “Wind Energy Park 48 (46) wind turbines, transformer stations, electrical connection networks, construction and modernization of communication and access roads” will be implemented in compliance with all measures outlined in the submitted Environmental Report, aimed at preventing, reducing, and eliminating adverse effects on the environment, living conditions, and public health resulting from the project’s implementation.
2. Given the park’s proximity to the border with the Republic of Bulgaria, the design phase must include an assessment of the impact of physical factors in a transboundary context, particularly light effects. This assessment must be submitted to the Republic of Bulgaria.
3. The paint used for the wind turbines (tower and rotor) must be of the “absorbent” type, so as not to create conditions for reflections of incident light.
4. After the investment proposal is implemented, controlled monitoring of noise levels, non-ionizing radiation, and light effects at the border with affected Bulgarian localities must be ensured. The monitoring results must be submitted to the Republic of Bulgaria.

Figure 1 Site Location



Source: ERM 2025

In response to these requirements, this document presents the shadow flicker assessment conducted for the proposed Wind Energy Park 48 (46) wind power plants, transformer stations,

electrical interconnection networks, construction and upgrading of communication and access roads, located in Cerchezu, Constanța County”, beneficiary South Wind SRL

Shadow flicker refers to the flickering effect caused when rotating wind turbine blades periodically cast shadows through constrained openings, such as windows of nearby residences. The assessment was carried out using the internationally recognized WindPro modeling software, simulating a worst-case scenario in accordance with IFC standards and local guidelines. This includes assumptions such as continuous sunshine, no barriers or cloud cover, and uninterrupted turbine operation.

The objective of this study is to assess the potential impact of shadow flicker along the road crossing Romania and Bulgaria and on sensitive receptors in the proximity of the national boundary, ensuring compliance with both national and transboundary environmental regulations.

2. PROJECT OVERVIEW

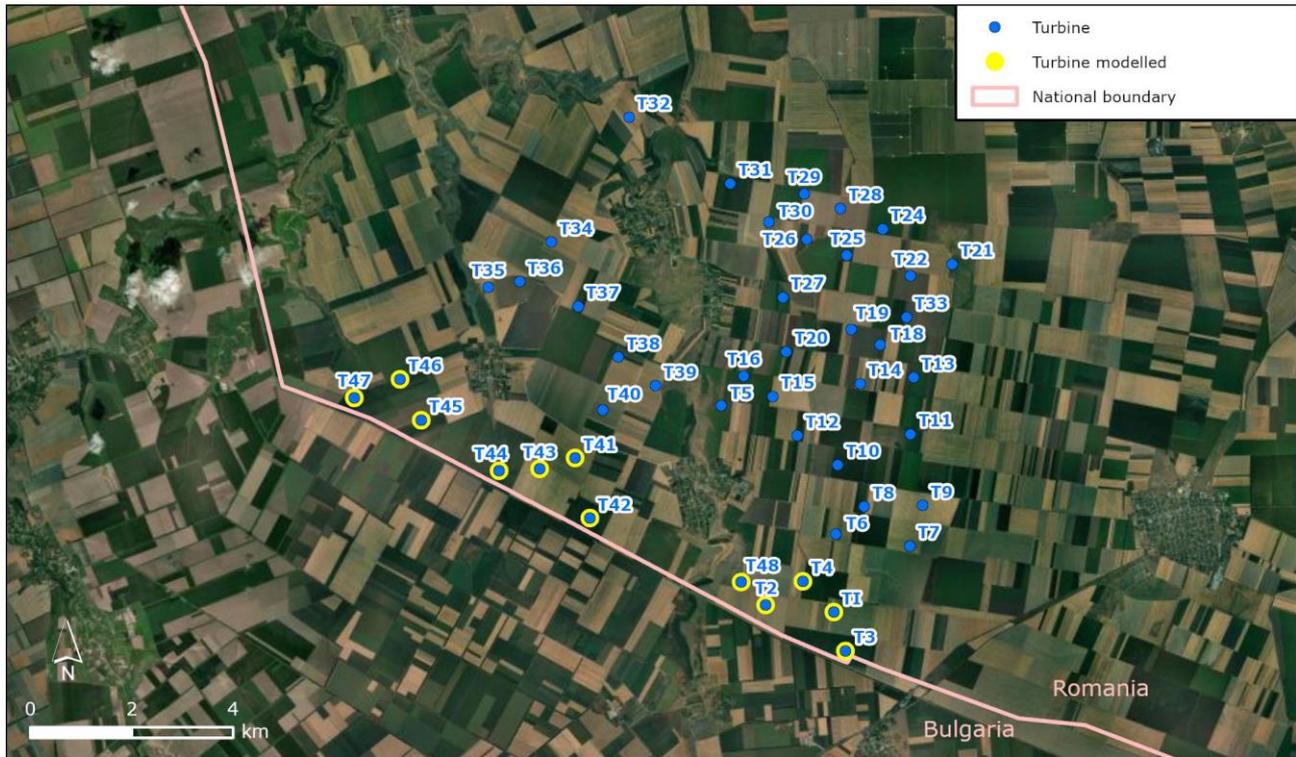
The layout comprises 46 wind turbine generators, the project area is characterized by agricultural land.

While the final turbine model has not yet been confirmed, the intention is to opt for a Vestas turbine with a rated power output of 6.4 MW. The hub height is expected to range between 155 and 159 meters, with blade lengths of approximately 80 to 85 meters, resulting in a maximum tip height not exceeding 240 meters.

For the purpose of shadow flicker modelling, the most conservative turbine configuration was selected—assuming the largest rotor diameter of 170 meters and a hub height of 155 meters, which together result in a total maximum height of 240 meters at blade tip.

In accordance with the requirements set forth by the Bulgarian Ministry of Environment and Water regarding the transboundary environmental impact assessment, the present shadow flicker analysis focuses exclusively on the subset of wind turbines located in proximity to the Romanian-Bulgarian border (Figure 2).

FIGURE 2 SITE LAYOUT



Source: ERM 2025

Although some internationally recognized standards, such as A.D. Clarke (1991), suggest excluding the occurrence of shadow flicker beyond a distance equal to ten times the rotor diameter (about 1,700 meters in this case), a conservative approach was taken and a 2 kilometer study area was defined for mapping potential receptors in Bulgaria, in order to assess any possible transboundary impacts.

Within the study area, the road crossing Romania and Bulgaria was identified as a receptor and 64 potential shadow flicker receptors were identified in a desktop study using topographical maps and aerial photographs (Figure 3).

FIGURE 3 LOCATION OF RECEPTOR



Source: ERM 2025

3. STANDARD AND GUIDELINES

Worldwide the status of the legislation related to shadow flickering is not homogenous. In several countries, shadow flickering is not falling under specific regulations but frequently, the assessment of the potential impacts is driven by guidelines.

In August 2015, the World Bank Group published the Environmental, Health and Safety (EHS) Guidelines for Wind Energy. These are technical reference documents containing examples of good industry practice.

The definition adopted in the EHS guidelines states that shadow flicker occurs when the sun passes behind the wind turbine and casts a shadow. As the rotor blades rotate, shadows pass over the same point causing an effect termed shadow flicker. Shadow flicker may become a problem when potentially sensitive receptors (e.g., residential properties, workplaces, learning and/or health care spaces/facilities) are located nearby, or have a specific orientation to the wind energy facility.

Key points identified in the guidelines include:

- Potential shadow flicker issues are more likely at higher latitudes where the sun is lower in the sky and therefore are longer shadows that will extend the radius within which potentially significant shadow flicker impact will be experienced.
- If it is not possible to locate the wind turbines where neighboring receptors experience no shadow flicker effects, it is recommended that the predicted duration of shadow flicker effects experienced at a sensitive should not exceed 30 hours per year and 30 minutes per day on the worst affected days, based on a worst-case scenario.

- Recommended prevention and control measures to avoid significant shadow flicker impacts include siting wind turbines appropriately to avoid shadow flicker being experienced or to meet limits placed on the duration of shadow flicker occurrence, as set out in the paragraph above, or programming turbines to shut down at times when shadow flicker limits are exceeded.

4. SHADOW FLICKER ASSESSMENT

4.1 POTENTIAL IMPACTS

The link between shadow flicker from wind turbines and human health is debated. Some studies (Harding et al., 2008; Smedley et al., 2010) suggest a potential risk of photosensitive seizures. However, a 2011 UK government report concluded that the flicker frequency is unlikely to pose a significant health risk.

Other sources (Cope et al., 2009; Minnesota Dept. of Health, 2009; NRC, 2007) note that while epilepsy risk is low, annoyance and stress may still occur.

In any case, mitigation options are available to reduce potential impacts, including:

- Careful site design;
- Locating wind turbines at least 500m from sensitive receptors;
- terminating turbines which are known to cause problematic flicker during specific periods and weather conditions;
- planting vegetation or tree lines to “cut” the line of sight to turbines that are causing flicker; and
- the installation of window blinds or awnings to avoid the flicker phenomenon inside buildings.

4.2 ASSESSMENT OF IMPACT

The likelihood and duration of the flicker effect depends upon a number of factors, including:

- Direction of the property relative to the turbine;
- Turbine height and rotor diameter;
- Time of the day and year;
- Distance from the turbine (the further the observer is from the turbine, the less pronounced the effect will be);
- Wind direction (that affect potential wind turbine orientation); and
- Weather conditions (presence of cloud cover, fog, humidity reduces the occurrence of shadow flicker as the visibility itself of the turbine is reduced).

Shadow flicker typically occurs under clear skies when the sun is low on the horizon. As the sun’s angle changes throughout the year, different receptors may be affected at different times.

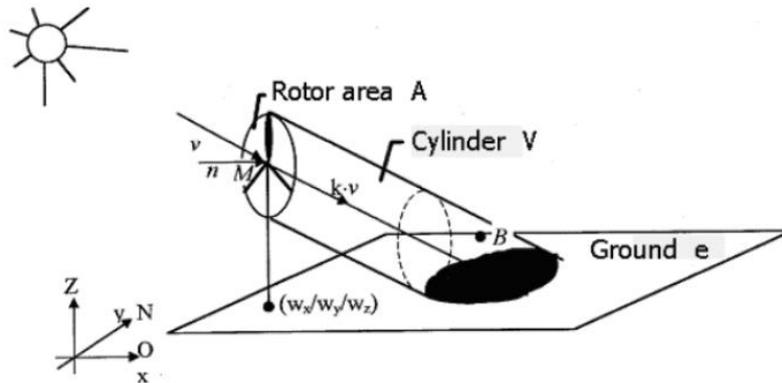
To assess potential impacts, a worst-case scenario was modeled, assuming:

- The sun is always shining during daylight hours
- The turbine is always rotating
- The rotor plane is always perpendicular to the line between the turbine and the sun

This analysis was conducted using WindPro 4.0©, a widely used software in the wind industry. Its Shadow Flicker Module (SHADOW) calculates how often and when specific receptors may be affected. The model uses a 1-minute temporal resolution, meaning any flicker predicted within a minute is recorded as one minute of flicker.

The model calculates outputs according to the principles presented in the following Figure 4.

FIGURE 4 SHADOW FLICKERING THEORY



All receptors on site have been modelled taking into consideration the following:

- Single-storey buildings, with flicker calculated at 1 m height (ground floor windows)
- Window slope set to 90°
- 360° visibility, representing a conservative scenario where windows face all directions

The calculations are based on a worst-case scenario modelled without parameters that characterize local settings and conditions (e.g., the sun always shines during daylight hours), as well as project-specific characteristics.

The following assumptions have been considered in the modelling setting for Worst Case Scenario:

- Rotors are always turning;
- Sun is always shining all the day, from sunrise to sunset;
- Local topography has been obtained from Copernicus Digital Elevation Models¹;
- No cloud cover or any other meteorological conditions that could potentially reduce visibility and the sunlight have been assumed;
- Receptors modelled using greenhouse model;
- No physical barriers are considered.

The following Table 1 is reporting the modelling settings adopted.

¹ The Copernicus Digital Elevation Models (DEM) - is a set of DEM's with global coverage released from the European Space Agency (ESA) derived from an edited DSM named WorldDEM™ with the WorldDEM™ model being based on radar satellite data from the TanDEM-X mission. For more info: https://help.emd.dk/mediawiki/index.php?title=Copernicus_DEM

TABLE 1 WINDPRO SHADOW MODULE INPUTS

Inputs	Worst Case Scenario
Wind Turbine location	See Figure 2
Rotor diameter	170 m
Hub height	155 m
Wind Turbine Operation	Rotors are always turning
Wind Turbine Visibility	A WTG will be visible if it is visible from any part of the receiver window (greenhouse mode)
Window stories dimensions	1m height / 1 m large / 1 m from the ground floor
Cloud Cover	Not considered
Physical Barriers (i.e. vegetation)	Not considered
Minimum sun height over horizon for influence	3°
Day step for calculation	1 day
Time step for calculation	1 minute
Shining period	The sun is always shining all day, from sunrise to sunset
Height contour	Copernicus Digital Elevation Models
Eye Height	1.5 m

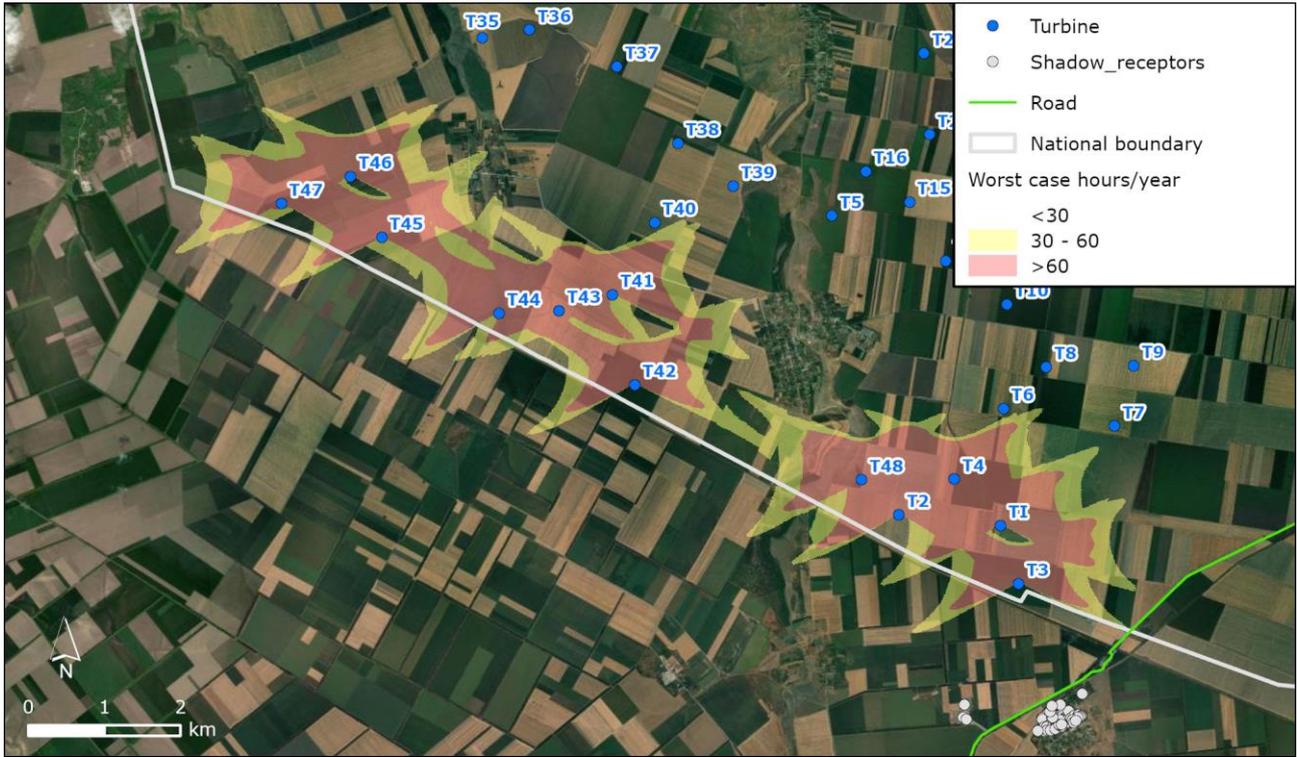
Source: ERM 2025

4.3 MODEL RESULTS

The worst-case scenario was modeled under highly conservative and unrealistic conditions. Despite this, none of the receptors exceeded the IFC thresholds of 30 hours per year and 30 minutes per day, confirming compliance with international guidelines and indicating no impact from shadow flicker under modeled conditions (Figure 5, Figure 6). Additionally, the assessment confirmed that no shadow flicker occurs along the E675 road, further supporting the negligible impact of the project on surrounding infrastructure and receptors.

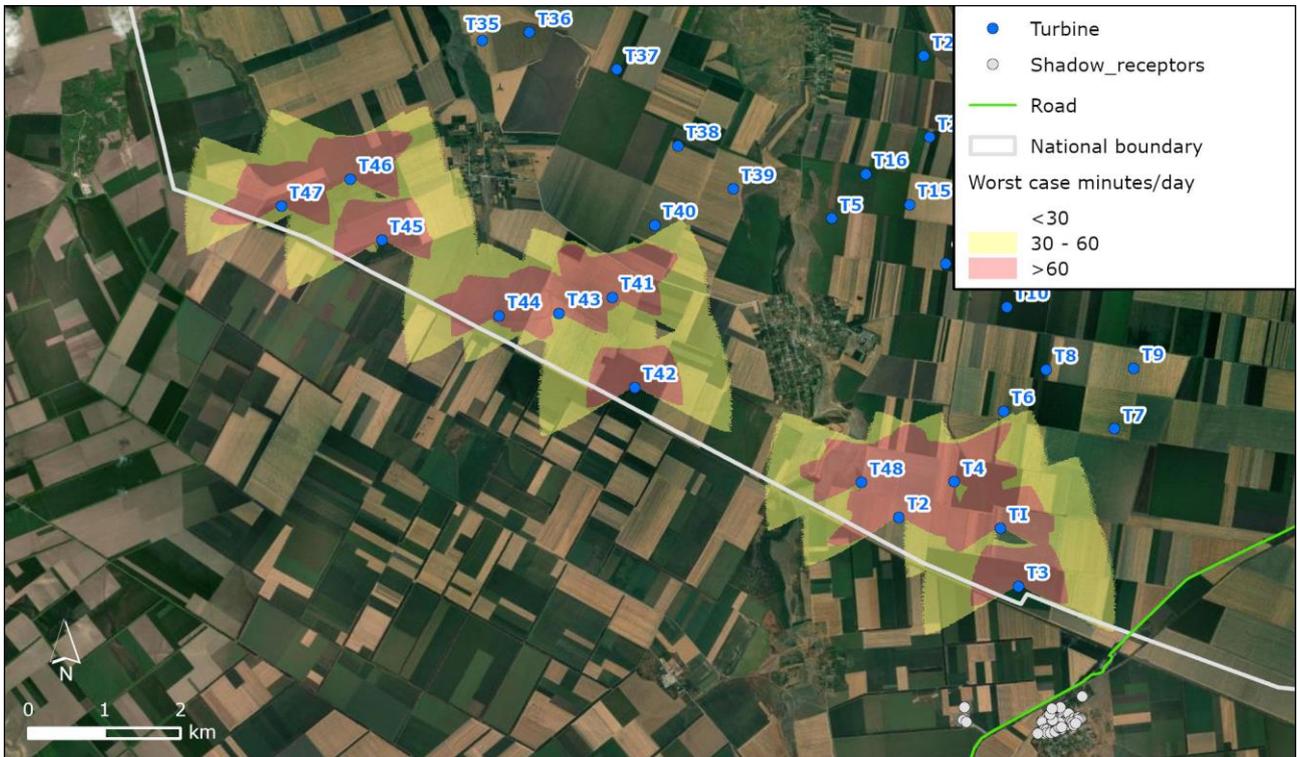
For further detail modelling result, please refer to Appendix A.

FIGURE 5 WORST CASE, SHADOW FLICKER MAP (HOURS/YEAR)



Source: ERM 2025

FIGURE 6 WORST CASE, SHADOW FLICKER MAP (MINUTES/DAY)



Source: ERM 2025

5. CONCLUSION AND RECOMMENDATIONS

The shadow flicker assessment was conducted using a conservative worst-case scenario, assuming continuous turbine operation, uninterrupted sunlight, and full visibility from all receptor directions.

Despite these unrealistic conditions, the results confirm that none of the modeled receptors — either the road crossing Romania and Bulgaria or receptors near the boundary— exceed the IFC thresholds of 30 hours per year or 30 minutes per day.

This indicates full compliance with international standards. The negligible impact observed within the study area, including both transboundary roadside and receptors, is further supported by the conservative modeling approach, which was based on the largest turbine configuration and an extended study radius.

These findings reinforce the robustness of the assessment and the very low likelihood of adverse effects on surrounding receptors.

6. REFERENCES

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APPENDIX A WINDPRO MODEL OUTPUT



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Guyana	South Korea
Hong Kong	Spain
India	Switzerland
Indonesia	Taiwan
Ireland	Tanzania
Italy	Thailand
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SHADOW - Main Result

Calculation: WC results

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

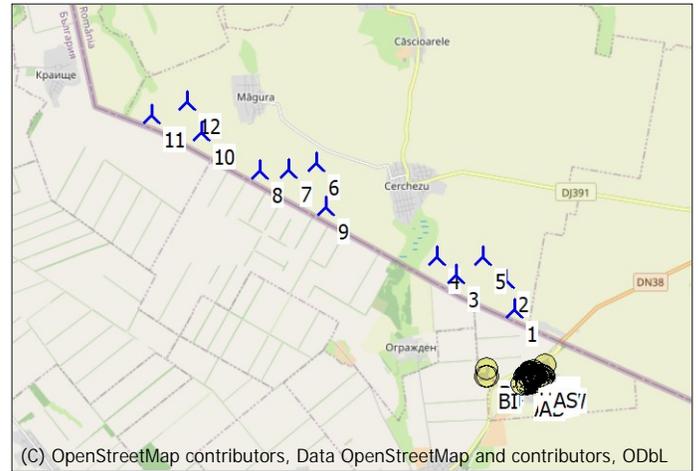
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:

Height contours used: Elevation Grid Data Object: Gap_analysis_EMDGrid_1.wpg (3)

Receptor grid resolution: 1.0 m

All coordinates are in

Geo [deg]-WGS84



▲ New WTG

● Scale 1:200,000
● Shadow receptor

WTGs

No.	Longitude	Latitude	Z	Row data/Description	WTG type			Shadow data				
					Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM
1	28.133019° E	43.794522° N	179.0	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
2	28.130192° E	43.801473° N	173.2	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
3	28.113598° E	43.802906° N	171.0	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
4	28.107610° E	43.807142° N	154.5	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
5	28.122751° E	43.807066° N	177.6	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
6	28.067256° E	43.829594° N	186.9	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
7	28.058492° E	43.827758° N	178.0	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
8	28.048639° E	43.827569° N	159.7	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
9	28.070682° E	43.818820° N	187.4	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
10	28.029607° E	43.836746° N	186.8	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
11	28.013246° E	43.840935° N	197.4	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
12	28.024620° E	43.844093° N	188.5	VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-

Shadow receptor-Input

No.	Name	Longitude	Latitude	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
				[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
A Rec.	64	28.138600° E	43.778800° N	163.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B Rec.	01	28.138671° E	43.778592° N	162.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C Rec.	02	28.138528° E	43.778944° N	163.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D Rec.	03	28.138421° E	43.779152° N	163.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
E Rec.	04	28.138215° E	43.779434° N	164.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F Rec.	05	28.138002° E	43.779337° N	164.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G Rec.	06	28.137460° E	43.778946° N	164.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H Rec.	07	28.137132° E	43.778697° N	164.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I Rec.	08	28.136605° E	43.778441° N	164.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J Rec.	09	28.136516° E	43.778307° N	164.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K Rec.	10	28.139023° E	43.778786° N	161.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L Rec.	11	28.139398° E	43.778900° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M Rec.	12	28.139659° E	43.778951° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N Rec.	13	28.139884° E	43.779003° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O Rec.	14	28.140046° E	43.779046° N	161.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P Rec.	15	28.139764° E	43.778572° N	161.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Q Rec.	16	28.140233° E	43.778396° N	161.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R Rec.	17	28.140608° E	43.778500° N	161.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S Rec.	18	28.140844° E	43.778534° N	162.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
T Rec.	19	28.138949° E	43.778175° N	162.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U Rec.	20	28.139045° E	43.778021° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: WC results

...continued from previous page

No.	Name	Longitude	Latitude	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
V Rec. 21	28.139143° E	43.777912° N	162.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W Rec. 22	28.139178° E	43.777821° N	162.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X Rec. 23	28.137745° E	43.777593° N	163.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y Rec. 24	28.137890° E	43.777402° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z Rec. 25	28.136607° E	43.777226° N	163.8	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA Rec. 26	28.136802° E	43.777026° N	164.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AB Rec. 27	28.136899° E	43.776890° N	164.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AC Rec. 28	28.137092° E	43.777266° N	163.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AD Rec. 29	28.136921° E	43.777394° N	164.4	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AE Rec. 30	28.137331° E	43.777390° N	163.4	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AF Rec. 31	28.137398° E	43.776975° N	163.3	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AG Rec. 32	28.138352° E	43.777478° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AH Rec. 33	28.138495° E	43.777189° N	162.6	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AI Rec. 34	28.137945° E	43.776987° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AJ Rec. 35	28.138605° E	43.777098° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AK Rec. 36	28.140546° E	43.777862° N	161.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AL Rec. 37	28.140003° E	43.778092° N	161.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AM Rec. 38	28.139478° E	43.777926° N	161.5	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AN Rec. 39	28.139384° E	43.778170° N	161.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AO Rec. 40	28.140883° E	43.779227° N	160.8	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AP Rec. 41	28.135781° E	43.776919° N	162.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AQ Rec. 42	28.139580° E	43.780014° N	162.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AR Rec. 43	28.141265° E	43.778422° N	160.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AS Rec. 44	28.141804° E	43.778687° N	160.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AT Rec. 45	28.142452° E	43.778779° N	159.4	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AU Rec. 46	28.142872° E	43.778649° N	157.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AV Rec. 47	28.142622° E	43.778552° N	159.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AW Rec. 48	28.142359° E	43.778474° N	159.2	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AX Rec. 49	28.141521° E	43.778167° N	159.8	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AY Rec. 50	28.141751° E	43.777850° N	159.3	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AZ Rec. 51	28.142079° E	43.778081° N	159.5	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BA Rec. 52	28.139755° E	43.777419° N	160.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BB Rec. 53	28.139422° E	43.777567° N	161.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BC Rec. 54	28.139262° E	43.777640° N	161.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BD Rec. 55	28.139660° E	43.777655° N	161.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BE Rec. 56	28.138120° E	43.778390° N	163.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BF Rec. 57	28.138234° E	43.778506° N	162.6	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BG Rec. 58	28.137862° E	43.779203° N	164.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BH Rec. 59	28.138148° E	43.779858° N	163.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BI Rec. 60	28.123574° E	43.778651° N	172.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BJ Rec. 61	28.124154° E	43.778429° N	173.3	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BK Rec. 62	28.123888° E	43.780161° N	172.6	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BL Rec. 63	28.143109° E	43.781303° N	163.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case		
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
A Rec. 64		0:00	0	0:00
B Rec. 01		0:00	0	0:00
C Rec. 02		0:00	0	0:00
D Rec. 03		0:00	0	0:00
E Rec. 04		0:00	0	0:00
F Rec. 05		0:00	0	0:00
G Rec. 06		0:00	0	0:00
H Rec. 07		0:00	0	0:00
I Rec. 08		0:00	0	0:00
J Rec. 09		0:00	0	0:00
K Rec. 10		0:00	0	0:00
L Rec. 11		0:00	0	0:00
M Rec. 12		0:00	0	0:00
N Rec. 13		0:00	0	0:00

To be continued on next page...

SHADOW - Main Result

Calculation: WC results

...continued from previous page

No.	Name	Shadow, worst case		
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
O Rec.	14	0:00	0	0:00
P Rec.	15	0:00	0	0:00
Q Rec.	16	0:00	0	0:00
R Rec.	17	0:00	0	0:00
S Rec.	18	0:00	0	0:00
T Rec.	19	0:00	0	0:00
U Rec.	20	0:00	0	0:00
V Rec.	21	0:00	0	0:00
W Rec.	22	0:00	0	0:00
X Rec.	23	0:00	0	0:00
Y Rec.	24	0:00	0	0:00
Z Rec.	25	0:00	0	0:00
AA Rec.	26	0:00	0	0:00
AB Rec.	27	0:00	0	0:00
AC Rec.	28	0:00	0	0:00
AD Rec.	29	0:00	0	0:00
AE Rec.	30	0:00	0	0:00
AF Rec.	31	0:00	0	0:00
AG Rec.	32	0:00	0	0:00
AH Rec.	33	0:00	0	0:00
AI Rec.	34	0:00	0	0:00
AJ Rec.	35	0:00	0	0:00
AK Rec.	36	0:00	0	0:00
AL Rec.	37	0:00	0	0:00
AM Rec.	38	0:00	0	0:00
AN Rec.	39	0:00	0	0:00
AO Rec.	40	0:00	0	0:00
AP Rec.	41	0:00	0	0:00
AQ Rec.	42	0:00	0	0:00
AR Rec.	43	0:00	0	0:00
AS Rec.	44	0:00	0	0:00
AT Rec.	45	0:00	0	0:00
AU Rec.	46	0:00	0	0:00
AV Rec.	47	0:00	0	0:00
AW Rec.	48	0:00	0	0:00
AX Rec.	49	0:00	0	0:00
AY Rec.	50	0:00	0	0:00
AZ Rec.	51	0:00	0	0:00
BA Rec.	52	0:00	0	0:00
BB Rec.	53	0:00	0	0:00
BC Rec.	54	0:00	0	0:00
BD Rec.	55	0:00	0	0:00
BE Rec.	56	0:00	0	0:00
BF Rec.	57	0:00	0	0:00
BG Rec.	58	0:00	0	0:00
BH Rec.	59	0:00	0	0:00
BI Rec.	60	0:00	0	0:00
BJ Rec.	61	0:00	0	0:00
BK Rec.	62	0:00	0	0:00
BL Rec.	63	0:00	0	0:00

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

No.	Name	Worst case [h/year]
1	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (13)	0:00
2	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (14)	0:00
3	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (15)	0:00
4	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (16)	0:00
5	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (17)	0:00
6	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (18)	0:00
7	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (19)	0:00
8	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (20)	0:00
9	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (21)	0:00

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SHADOW - Main Result

Calculation: WC results

...continued from previous page

No.	Name	Worst case [h/year]
10	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (22)	0:00
11	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (23)	0:00
12	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (24)	0:00

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

SHADOW - Calendar

Calculation: WC results Shadow receptor: A - Rec. 64

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
7	07:42 16:46	07:19 17:26	06:36 18:03	06:41 19:41	05:53 20:17	05:27 20:47	05:33 20:52	06:02 20:25	06:37 19:35	07:11 18:40	06:51 16:52	07:27 16:31
8	07:42 16:47	07:18 17:27	06:35 18:04	06:39 19:42	05:52 20:18	05:26 20:48	05:33 20:52	06:03 20:23	06:38 19:33	07:13 18:38	06:52 16:51	07:28 16:31
9	07:42 16:48	07:17 17:29	06:33 18:06	06:37 19:43	05:51 20:19	05:26 20:48	05:34 20:52	06:04 20:22	06:39 19:31	07:14 18:37	06:53 16:50	07:29 16:31
10	07:41 16:50	07:15 17:30	06:31 18:07	06:35 19:44	05:50 20:20	05:26 20:49	05:35 20:51	06:05 20:21	06:40 19:29	07:15 18:35	06:55 16:49	07:30 16:31
11	07:41 16:51	07:14 17:31	06:29 18:08	06:34 19:46	05:48 20:21	05:26 20:49	05:36 20:51	06:07 20:19	06:42 19:28	07:16 18:33	06:56 16:48	07:31 16:31
12	07:41 16:52	07:13 17:33	06:27 18:09	06:32 19:47	05:47 20:22	05:26 20:50	05:36 20:50	06:08 20:18	06:43 19:26	07:17 18:31	06:57 16:46	07:32 16:31
13	07:40 16:53	07:11 17:34	06:26 18:11	06:30 19:48	05:46 20:23	05:25 20:50	05:37 20:50	06:09 20:16	06:44 19:24	07:19 18:30	06:58 16:45	07:33 16:31
14	07:40 16:54	07:10 17:35	06:24 18:12	06:29 19:49	05:45 20:25	05:25 20:51	05:38 20:49	06:10 20:15	06:45 19:22	07:20 18:28	07:00 16:44	07:33 16:31
15	07:39 16:55	07:08 17:37	06:22 18:13	06:27 19:50	05:44 20:26	05:25 20:51	05:39 20:48	06:11 20:13	06:46 19:20	07:21 18:26	07:01 16:43	07:34 16:31
16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
17	07:38 16:58	07:05 17:39	06:19 18:15	06:24 19:53	05:42 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:16	07:24 18:23	07:04 16:41	07:36 16:32
18	07:38 16:59	07:04 17:41	06:17 18:17	06:22 19:54	05:40 20:29	05:25 20:53	05:42 20:46	06:14 20:09	06:49 19:15	07:25 18:21	07:05 16:41	07:36 16:32
19	07:37 17:00	07:02 17:42	06:15 18:18	06:20 19:55	05:39 20:30	05:25 20:53	05:42 20:45	06:16 20:07	06:51 19:13	07:26 18:20	07:06 16:40	07:37 16:32
20	07:37 17:02	07:01 17:43	06:13 18:19	06:19 19:56	05:39 20:31	05:25 20:53	05:43 20:45	06:17 20:06	06:52 19:11	07:27 18:18	07:08 16:39	07:38 16:33
21	07:36 17:03	06:59 17:45	06:11 18:20	06:17 19:58	05:38 20:32	05:26 20:53	05:44 20:44	06:18 20:04	06:53 19:09	07:29 18:16	07:09 16:38	07:38 16:33
22	07:35 17:04	06:58 17:46	06:10 18:22	06:15 19:59	05:37 20:33	05:26 20:54	05:45 20:43	06:19 20:02	06:54 19:07	07:30 18:15	07:10 16:37	07:39 16:34
23	07:34 17:05	06:56 17:47	06:08 18:23	06:14 20:00	05:36 20:34	05:26 20:54	05:46 20:42	06:20 20:01	06:55 19:05	07:31 18:13	07:11 16:37	07:39 16:34
24	07:34 17:07	06:55 17:49	06:06 18:24	06:12 20:01	05:35 20:35	05:26 20:54	05:47 20:41	06:21 19:59	06:56 19:04	07:32 18:12	07:13 16:36	07:40 16:35
25	07:33 17:08	06:53 17:50	06:04 18:25	06:11 20:02	05:34 20:36	05:27 20:54	05:48 20:40	06:22 19:57	06:57 19:02	07:34 17:10	07:14 16:35	07:40 16:35
26	07:32 17:09	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:59 19:00	07:35 17:09	07:15 16:35	07:41 16:36
27	07:31 17:11	06:50 17:53	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	07:37 17:06	07:17 16:34	07:41 16:37
29	07:29 17:13	06:53 17:50	06:04 18:25	06:11 20:02	05:34 20:36	05:27 20:54	05:48 20:40	06:22 19:57	06:57 19:02	07:38 17:10	07:19 16:35	07:41 16:35
30	07:28 17:15	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:59 19:00	07:35 17:09	07:15 16:35	07:41 16:36
31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: B - Rec. 01

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
7	07:42 16:46	07:19 17:26	06:36 18:03	06:41 19:41	05:53 20:17	05:27 20:47	05:33 20:52	06:02 20:25	06:37 19:35	07:11 18:40	06:51 16:52	07:27 16:31
8	07:42 16:47	07:18 17:27	06:34 18:04	06:39 19:42	05:52 20:18	05:26 20:48	05:33 20:52	06:03 20:23	06:38 19:33	07:13 18:38	06:52 16:51	07:28 16:31
9	07:42 16:48	07:17 17:29	06:33 18:06	06:37 19:43	05:51 20:19	05:26 20:48	05:34 20:52	06:04 20:22	06:39 19:31	07:14 18:37	06:53 16:50	07:29 16:31
10	07:41 16:50	07:15 17:30	06:31 18:07	06:35 19:44	05:50 20:20	05:26 20:49	05:35 20:51	06:05 20:21	06:40 19:29	07:15 18:35	06:55 16:49	07:30 16:31
11	07:41 16:51	07:14 17:31	06:29 18:08	06:34 19:46	05:48 20:21	05:26 20:49	05:36 20:51	06:07 20:19	06:42 19:28	07:16 18:33	06:56 16:48	07:31 16:31
12	07:41 16:52	07:13 17:33	06:27 18:09	06:32 19:47	05:47 20:22	05:26 20:50	05:36 20:50	06:08 20:18	06:43 19:26	07:17 18:31	06:57 16:46	07:32 16:31
13	07:40 16:53	07:11 17:34	06:26 18:11	06:30 19:48	05:46 20:23	05:25 20:50	05:37 20:50	06:09 20:16	06:44 19:24	07:19 18:30	06:58 16:45	07:33 16:31
14	07:40 16:54	07:10 17:35	06:24 18:12	06:29 19:49	05:45 20:25	05:25 20:51	05:38 20:49	06:10 20:15	06:45 19:22	07:20 18:28	07:00 16:44	07:33 16:31
15	07:39 16:55	07:08 17:37	06:22 18:13	06:27 19:50	05:44 20:26	05:25 20:51	05:39 20:48	06:11 20:13	06:46 19:20	07:21 18:26	07:01 16:43	07:34 16:31
16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
17	07:38 16:58	07:05 17:39	06:19 18:15	06:24 19:53	05:42 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:16	07:24 18:23	07:04 16:41	07:36 16:32
18	07:38 16:59	07:04 17:41	06:17 18:17	06:22 19:54	05:40 20:29	05:25 20:53	05:42 20:46	06:14 20:09	06:49 19:15	07:25 18:21	07:05 16:41	07:36 16:32
19	07:37 17:00	07:02 17:42	06:15 18:18	06:20 19:55	05:39 20:30	05:25 20:53	05:42 20:45	06:16 20:07	06:51 19:13	07:26 18:20	07:06 16:40	07:37 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: C - Rec. 02

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: D - Rec. 03

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: E - Rec. 04

Assumptions for shadow calculations

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	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: F - Rec. 05

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: G - Rec. 06

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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

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

Calculation: WC results Shadow receptor: H - Rec. 07

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: I - Rec. 08

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

Calculation: WC results Shadow receptor: J - Rec. 09

Assumptions for shadow calculations

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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25	07:33 17:08	06:53 17:50	06:04 18:25	06:11 20:02	05:34 20:36	05:27 20:54	05:48 20:40	06:22 19:57	06:57 19:02	07:34 17:10	07:14 16:35	07:40 16:35
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28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	07:37 17:06	07:17 16:34	07:41 16:37
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31	07:27 17:16	06:50 17:51	06:00 18:26	06:08 20:04	05:33 20:37	05:27 20:54	05:50 20:39	06:25 19:56	07:00 19:00	07:36 17:09	07:16 16:35	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: K - Rec. 10

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: L - Rec. 11

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Total, worst case												

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

Calculation: WC results Shadow receptor: M - Rec. 12

Assumptions for shadow calculations

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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14	07:40 16:54	07:10 17:35	06:24 18:12	06:29 19:49	05:45 20:25	05:25 20:51	05:38 20:49	06:10 20:15	06:45 19:22	07:20 18:28	07:00 16:44	07:33 16:31
15	07:39 16:55	07:08 17:37	06:22 18:13	06:27 19:50	05:44 20:26	05:25 20:51	05:39 20:48	06:11 20:13	06:46 19:20	07:21 18:26	07:01 16:43	07:34 16:31
16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
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31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: N - Rec. 13

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: O - Rec. 14

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Total, worst case												

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

Calculation: WC results Shadow receptor: P - Rec. 15

Assumptions for shadow calculations

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	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: Q - Rec. 16

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: R - Rec. 17

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	07:37 17:06	07:17 16:34	07:41 16:37
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Total, worst case												

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SHADOW - Calendar

Calculation: WC results Shadow receptor: S - Rec. 18

Assumptions for shadow calculations

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

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The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: T - Rec. 19

Assumptions for shadow calculations

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

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

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The WTG is always operating

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SHADOW - Calendar

Calculation: WC results Shadow receptor: U - Rec. 20

Assumptions for shadow calculations

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

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The WTG is always operating

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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: V - Rec. 21

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: W - Rec. 22

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: X - Rec. 23

Assumptions for shadow calculations

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	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: Y - Rec. 24

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: Z - Rec. 25

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AA - Rec. 26

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AB - Rec. 27
Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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24	07:34 17:07	06:55 17:49	06:06 18:24	06:12 20:01	05:35 20:35	05:26 20:54	05:47 20:41	06:21 19:59	06:56 19:04	07:32 18:12	07:13 16:36	07:40 16:35
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AC - Rec. 28

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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22	07:35 17:04	06:58 17:46	06:10 18:22	06:15 19:59	05:37 20:33	05:26 20:54	05:45 20:43	06:19 20:02	06:54 19:07	07:30 18:15	07:10 16:37	07:39 16:34
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AD - Rec. 29

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AE - Rec. 30

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AF - Rec. 31

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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12	07:41 16:52	07:13 17:33	06:27 18:09	06:32 19:47	05:47 20:22	05:26 20:50	05:36 20:50	06:08 20:18	06:43 19:26	07:17 18:31	06:57 16:46	07:32 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AG - Rec. 32
Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AH - Rec. 33

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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

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

Calculation: WC results Shadow receptor: AI - Rec. 34

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AJ - Rec. 35

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AK - Rec. 36

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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27	07:31 17:11	06:50 17:53	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	07:37 17:06	07:17 16:34	07:41 16:37
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30	07:28 17:15	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:58 19:00	07:35 17:09	07:15 16:35	07:40 16:36
31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AL - Rec. 37

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
7	07:42 16:46	07:19 17:26	06:36 18:03	06:41 19:41	05:53 20:17	05:27 20:47	05:33 20:52	06:02 20:25	06:37 19:35	07:11 18:40	06:51 16:52	07:27 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AM - Rec. 38

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: AN - Rec. 39

Assumptions for shadow calculations

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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17	07:38 16:58	07:05 17:39	06:19 18:15	06:24 19:53	05:42 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:16	07:24 18:23	07:04 16:41	07:36 16:32
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19	07:37 17:00	07:02 17:42	06:15 18:18	06:20 19:55	05:39 20:30	05:25 20:53	05:42 20:45	06:16 20:07	06:51 19:13	07:26 18:20	07:06 16:40	07:37 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AO - Rec. 40

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AP - Rec. 41

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AQ - Rec. 42

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AR - Rec. 43

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AS - Rec. 44

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AT - Rec. 45
Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:27 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AU - Rec. 46

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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

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

Calculation: WC results Shadow receptor: AV - Rec. 47

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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21	07:36 17:03	06:59 17:45	06:11 18:20	06:17 19:58	05:38 20:32	05:26 20:53	05:44 20:44	06:18 20:04	06:53 19:09	07:28 18:16	07:09 16:38	07:38 16:33
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31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:40 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AW - Rec. 48

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:27 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AX - Rec. 49

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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

Calculation: WC results Shadow receptor: AY - Rec. 50

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: AZ - Rec. 51

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BA - Rec. 52

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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SHADOW - Calendar

Calculation: WC results Shadow receptor: BB - Rec. 53

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BC - Rec. 54

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BD - Rec. 55

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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27	07:31 17:11	06:50 17:53	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	07:37 17:06	07:17 16:34	07:41 16:37
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31	07:27 17:16	06:50 17:52	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BE - Rec. 56

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BF - Rec. 57

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: BG - Rec. 58

Assumptions for shadow calculations

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	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BH - Rec. 59

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BI - Rec. 60

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: BJ - Rec. 61

Assumptions for shadow calculations

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	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BK - Rec. 62

Assumptions for shadow calculations

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

Calculation: WC results Shadow receptor: BL - Rec. 63

Assumptions for shadow calculations

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

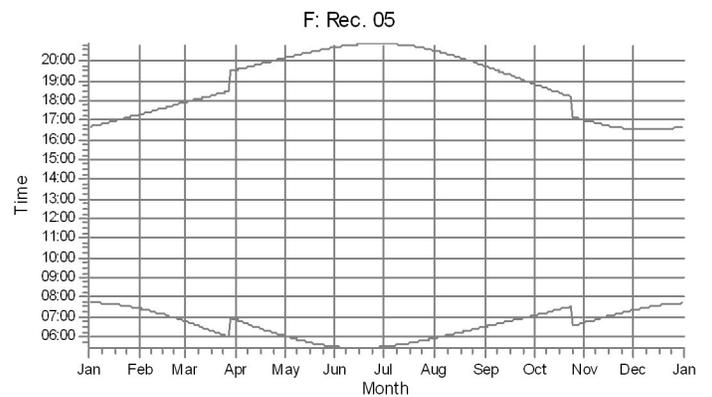
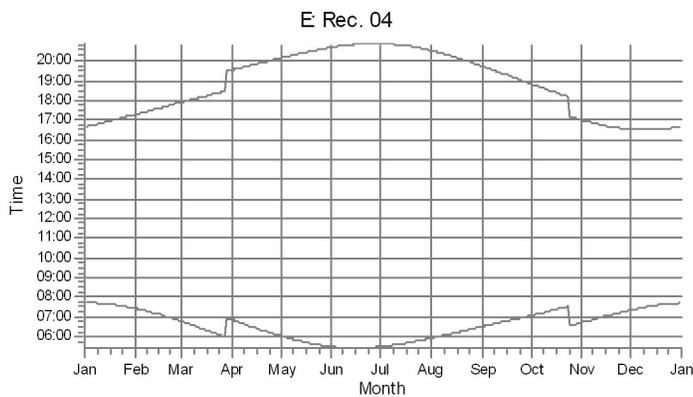
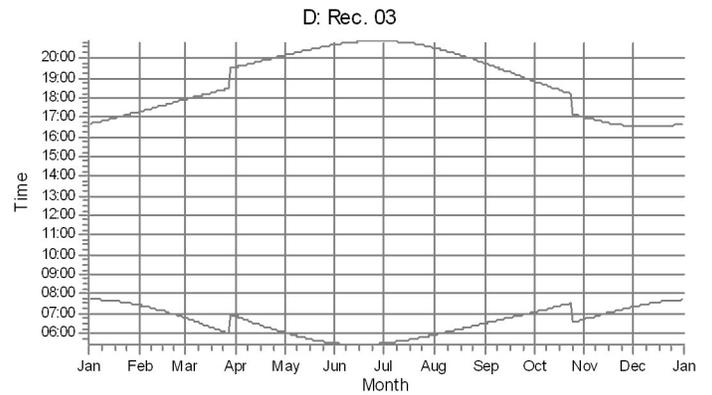
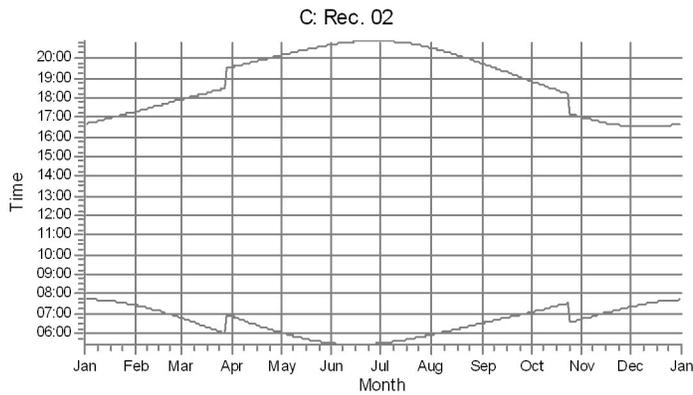
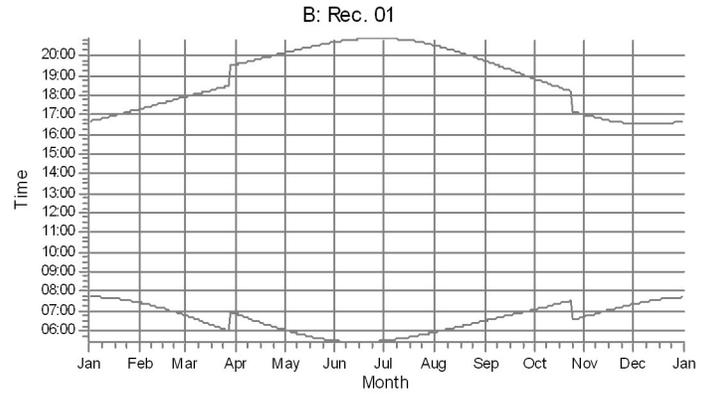
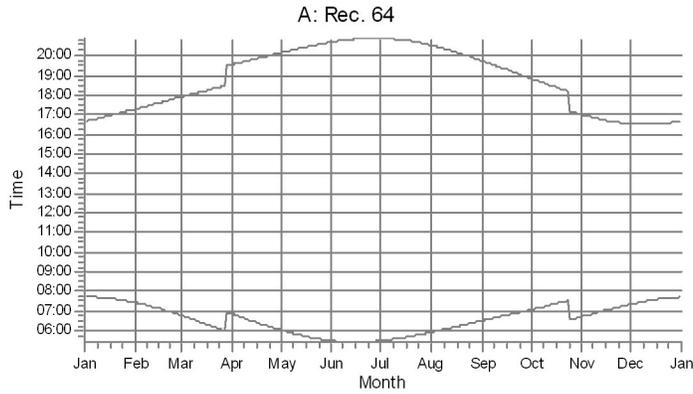
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22	07:35 17:04	06:58 17:46	06:09 18:22	06:15 19:59	05:37 20:33	05:26 20:54	05:45 20:43	06:19 20:02	06:54 19:07	07:30 18:15	07:10 16:37	07:39 16:34
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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

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

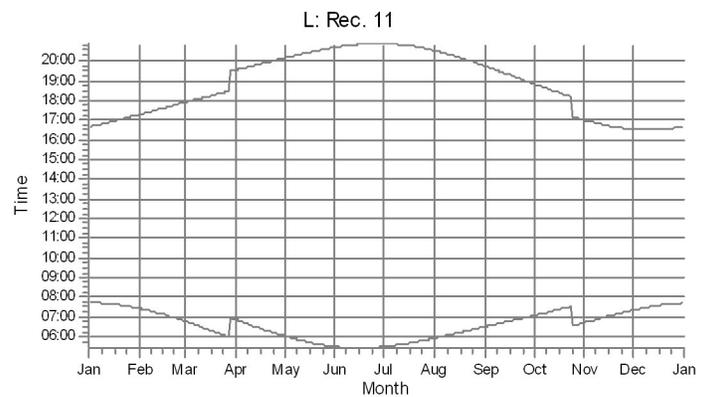
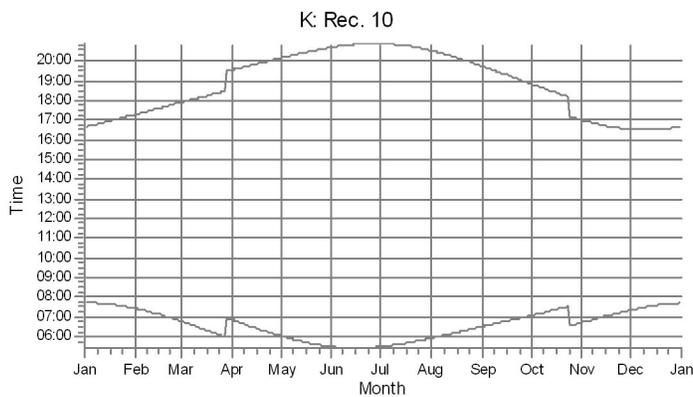
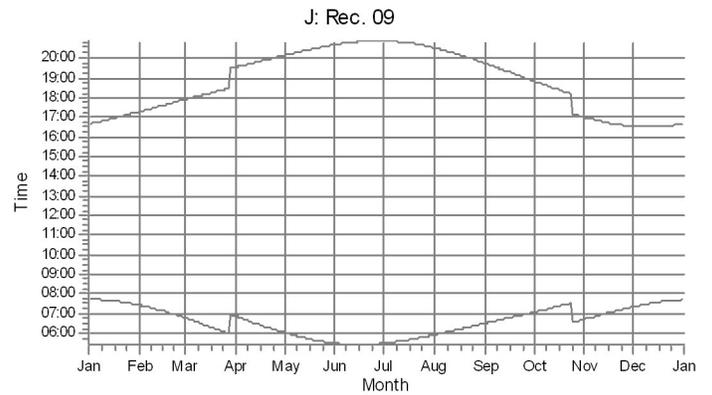
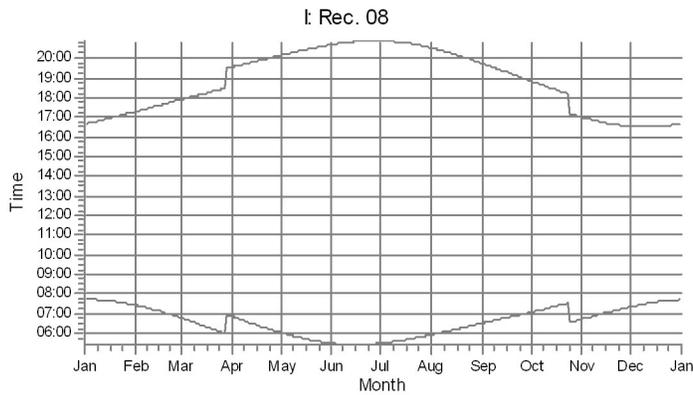
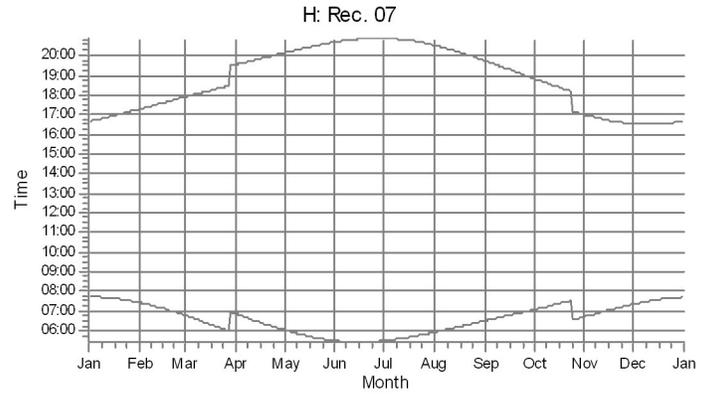
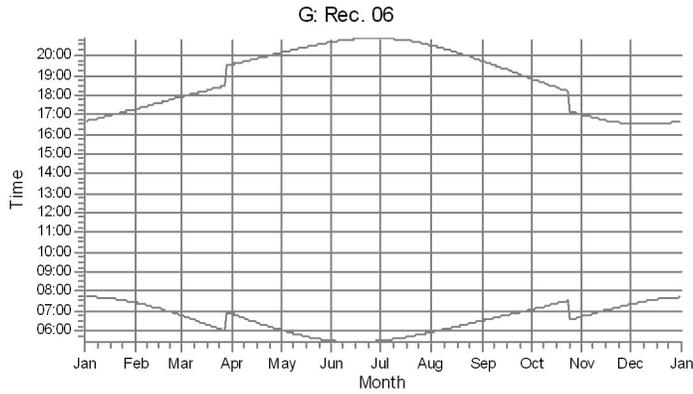
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

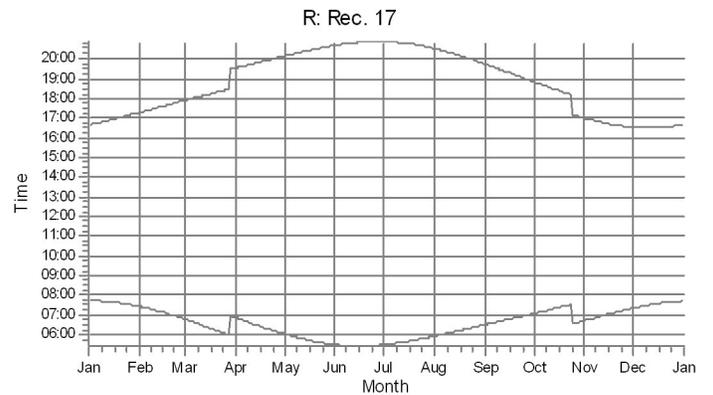
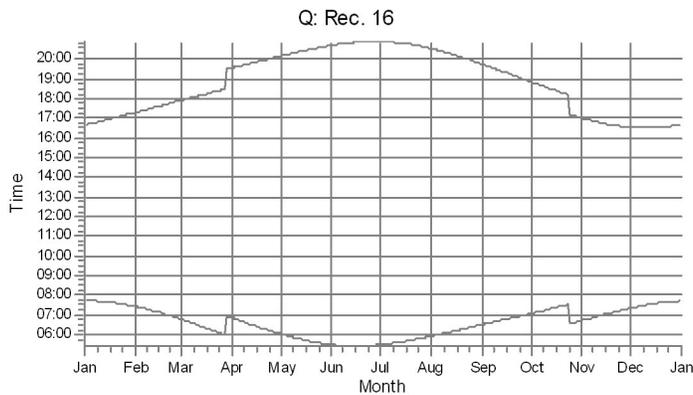
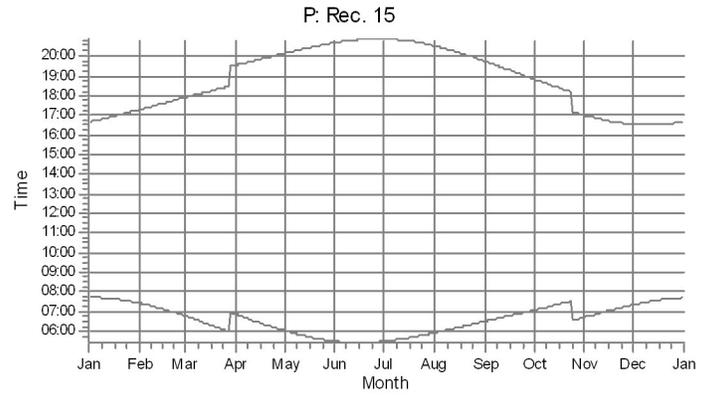
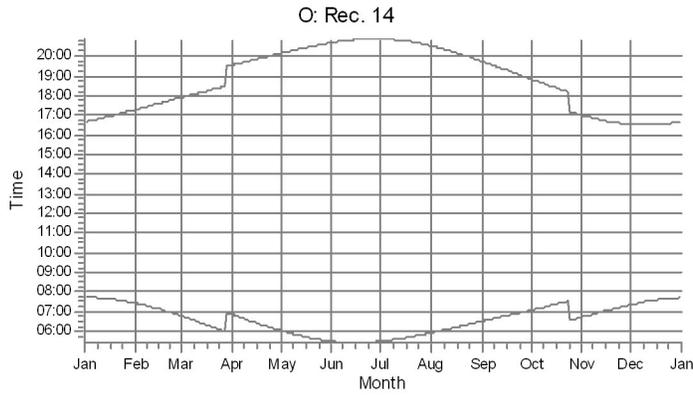
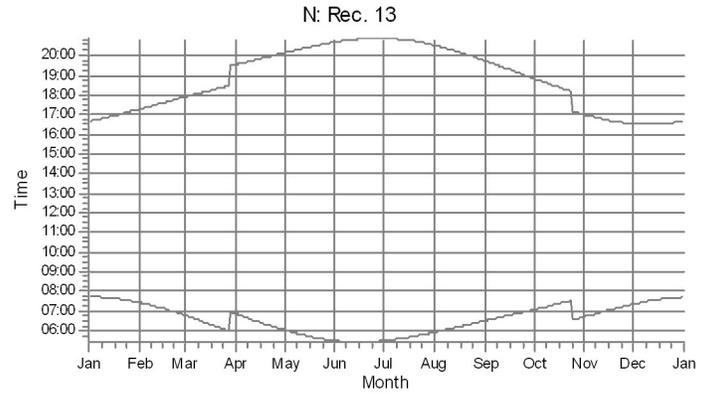
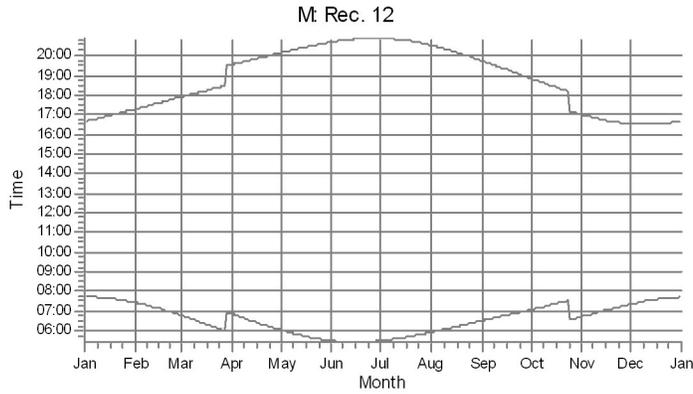
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

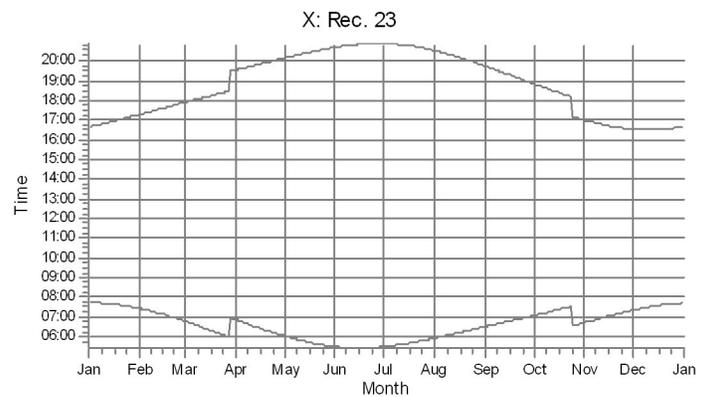
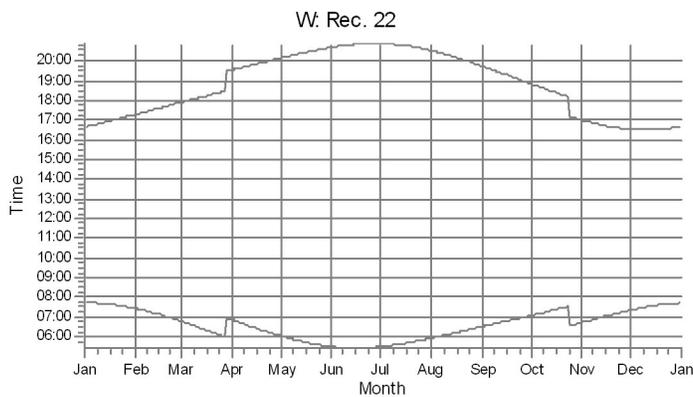
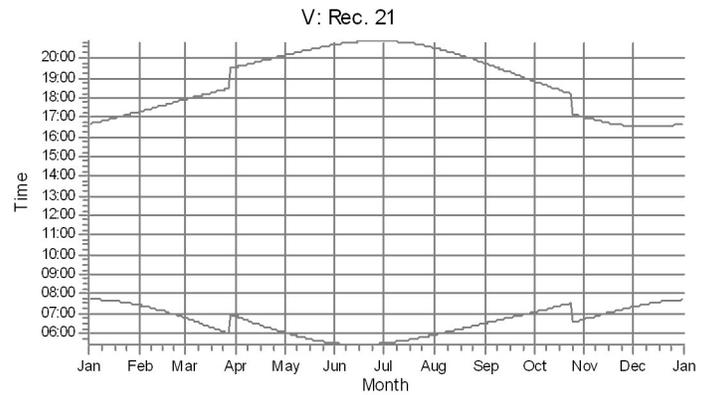
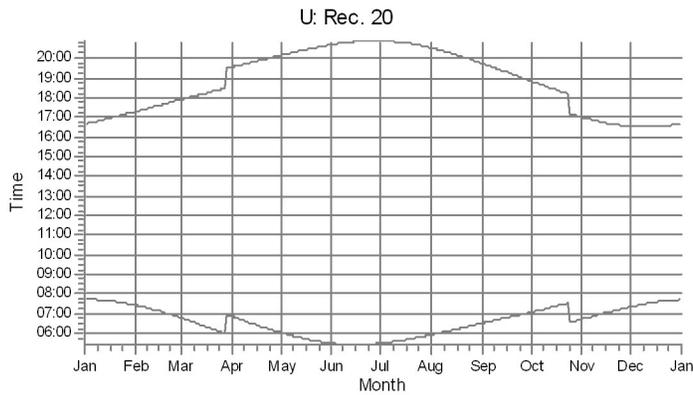
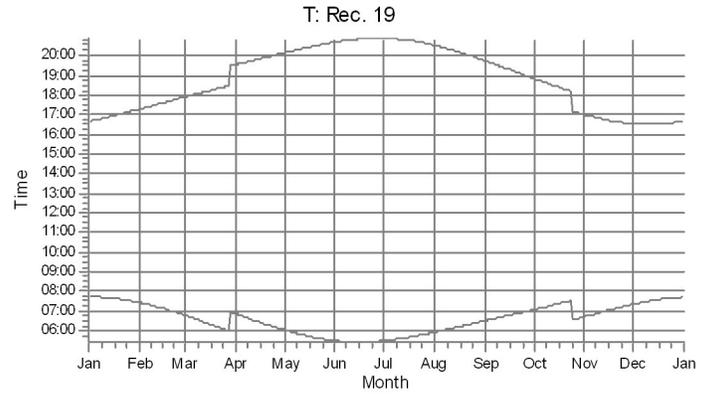
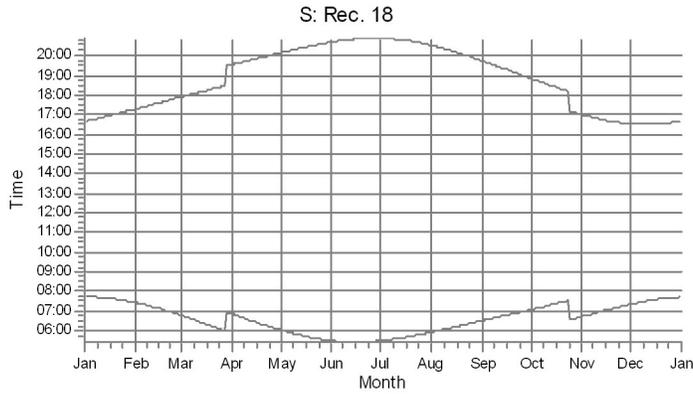
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

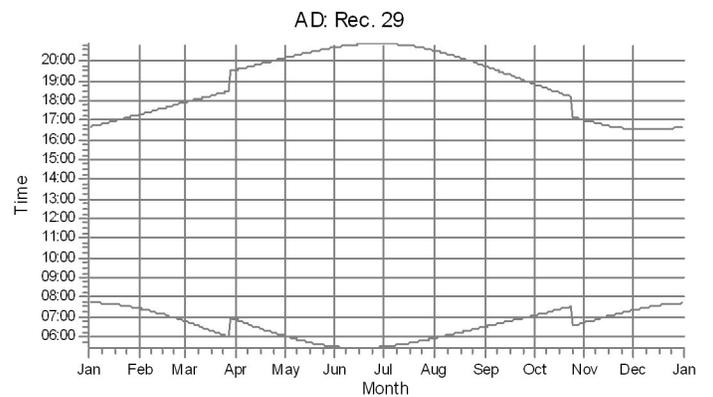
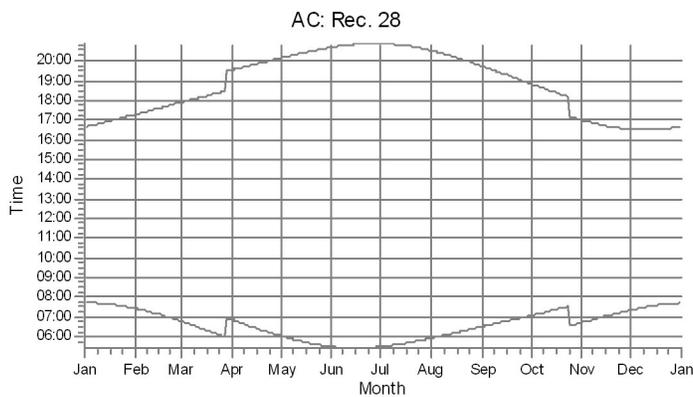
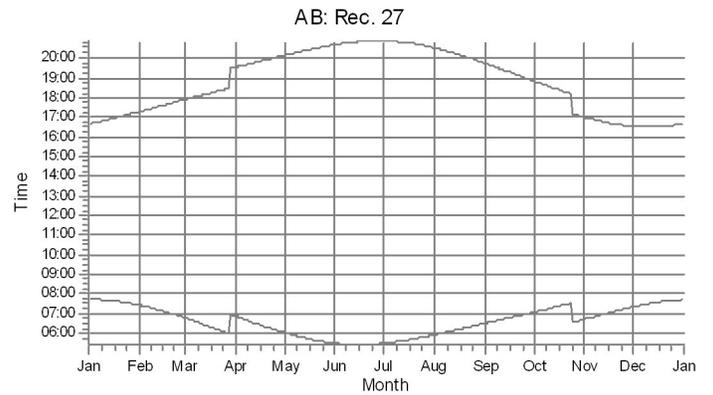
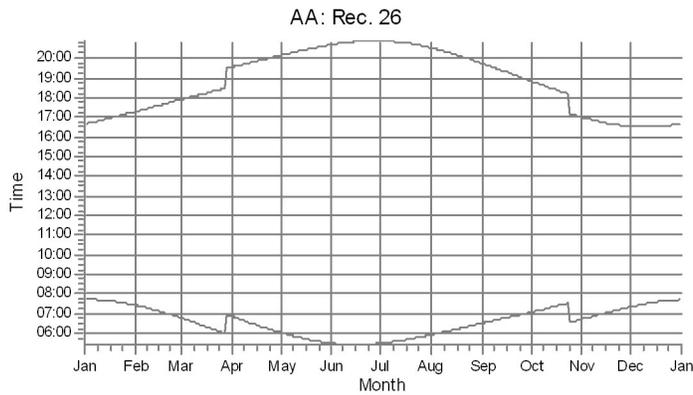
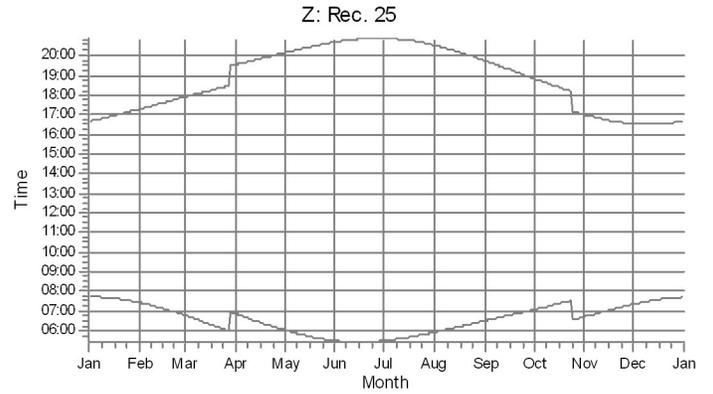
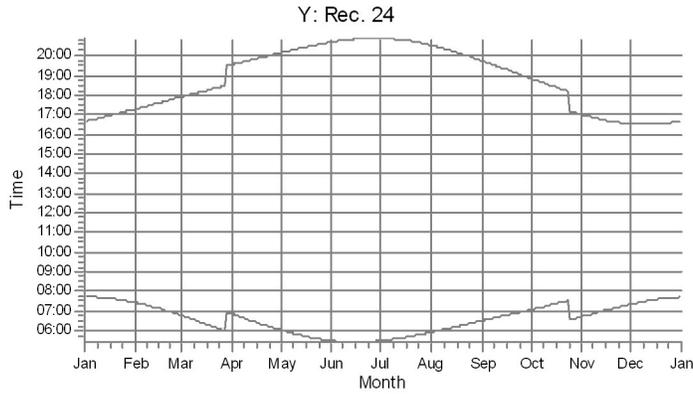
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

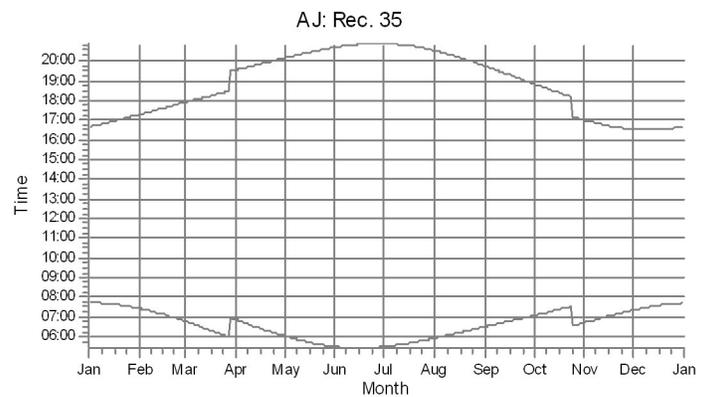
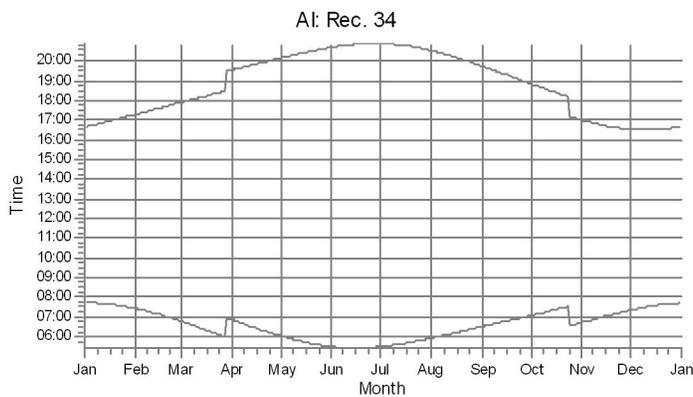
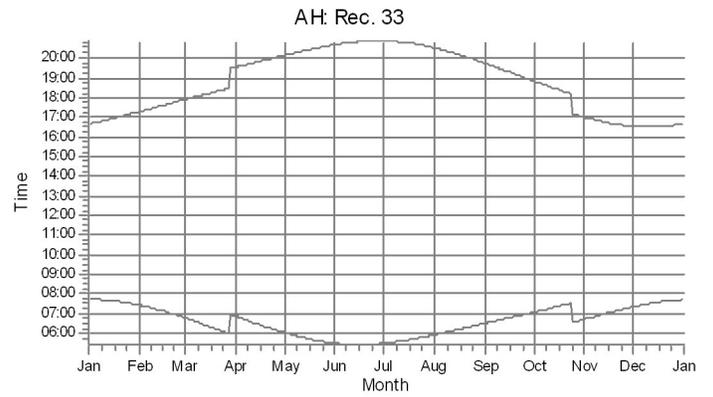
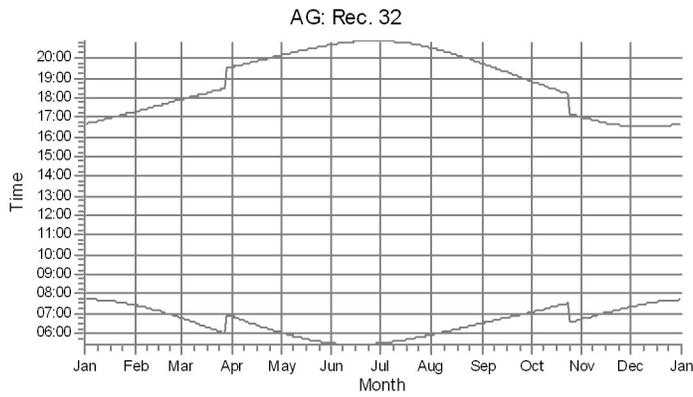
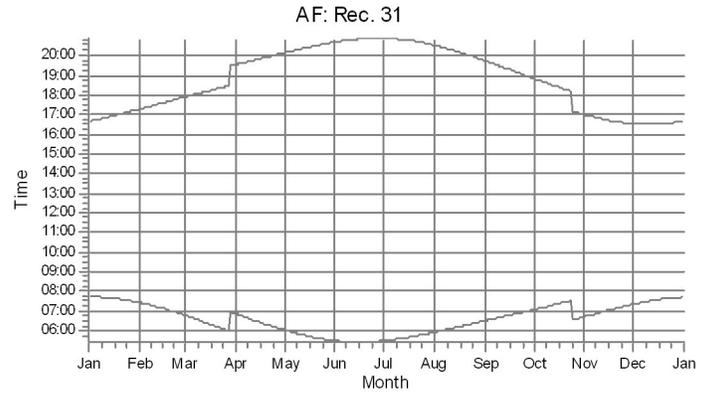
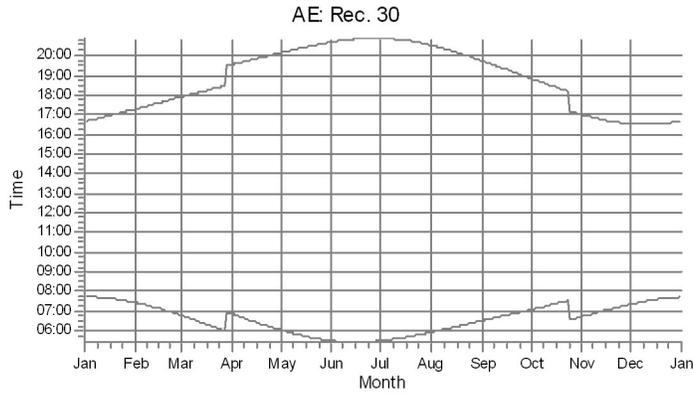
Calculation: WC results



WTGs

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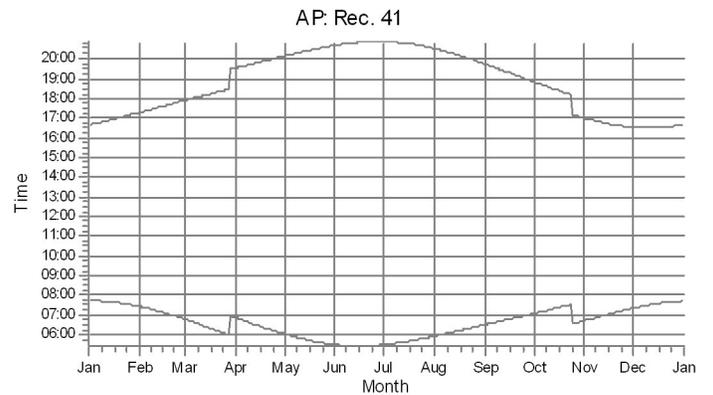
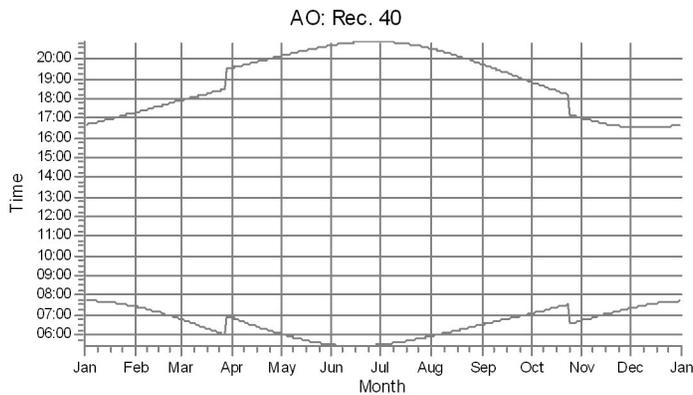
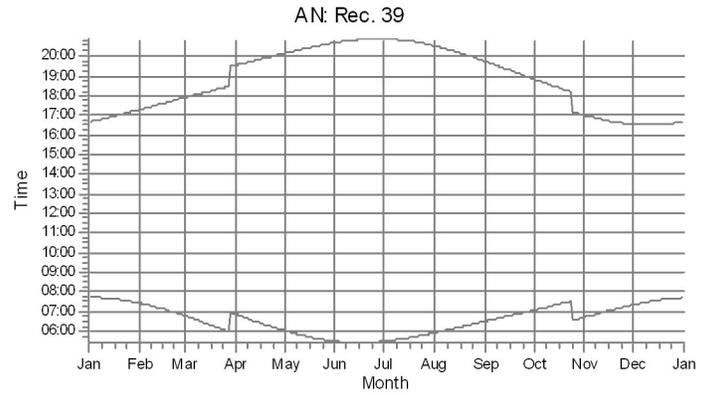
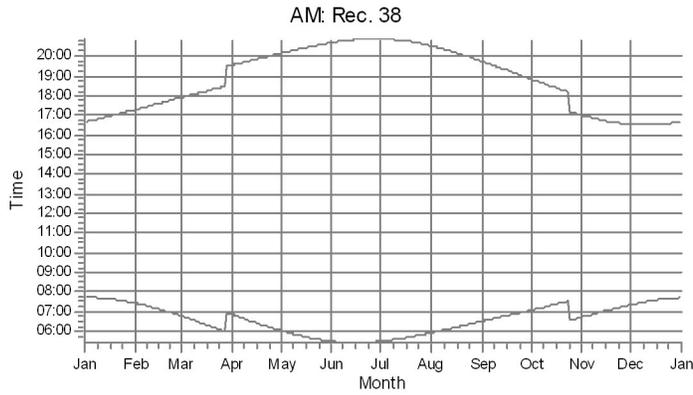
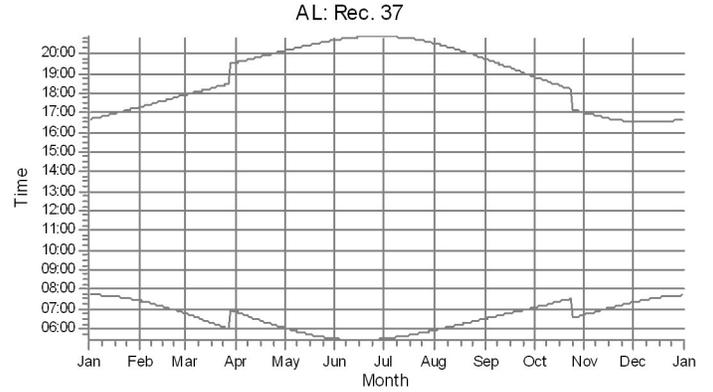
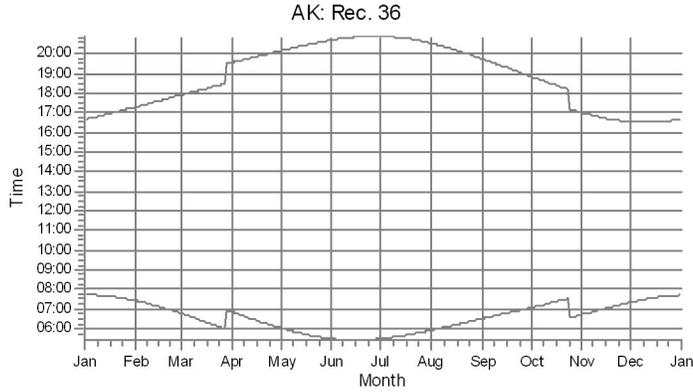
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

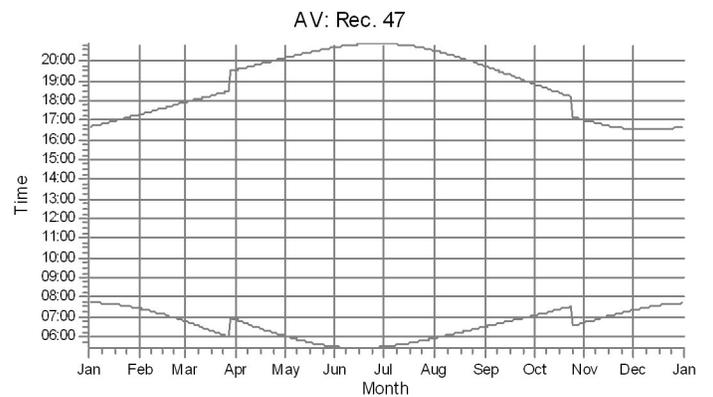
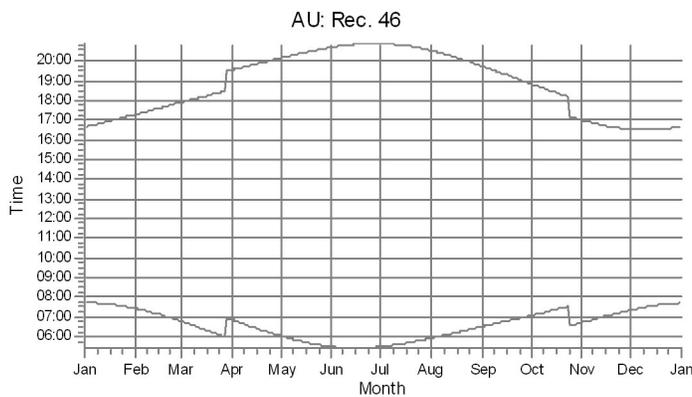
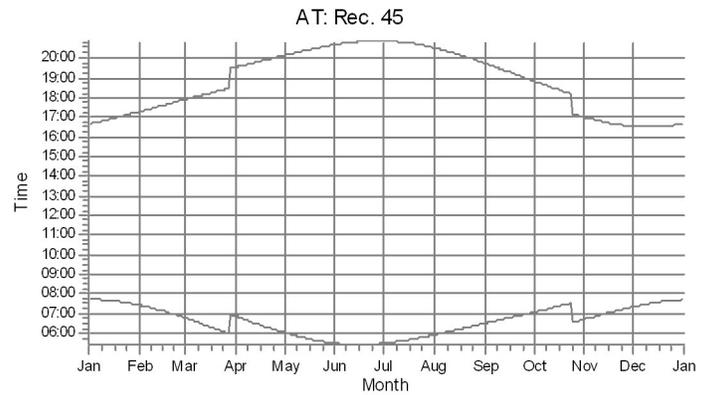
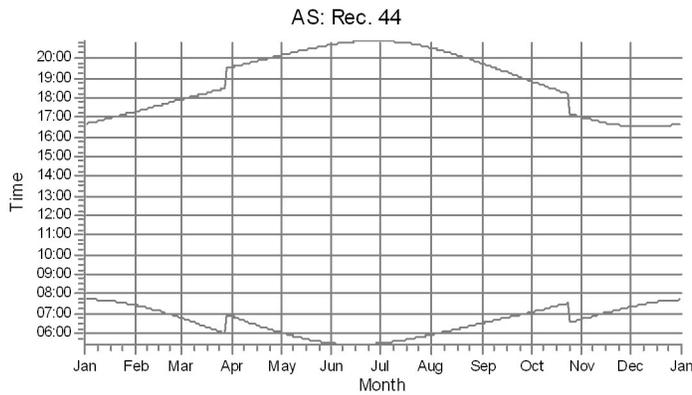
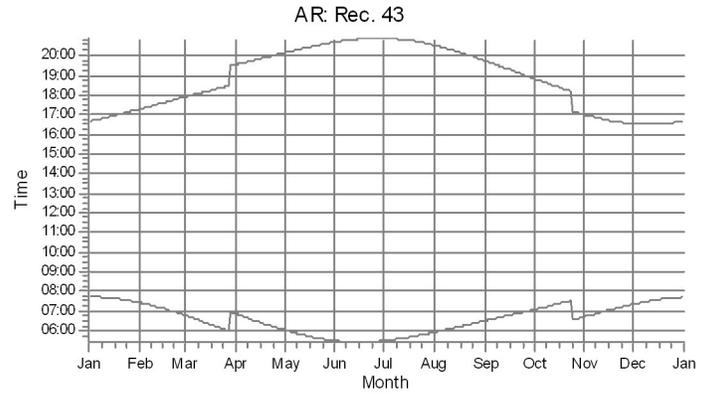
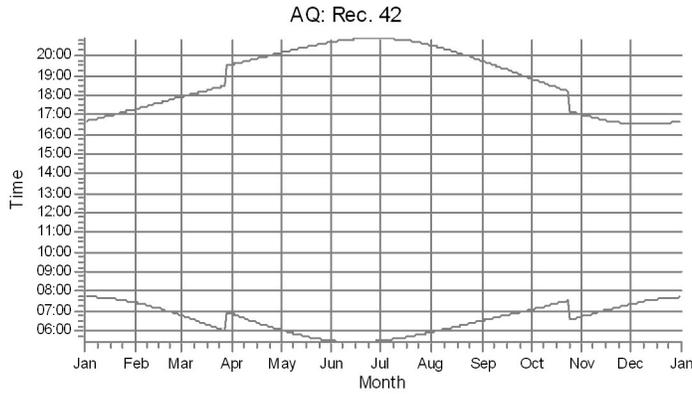
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

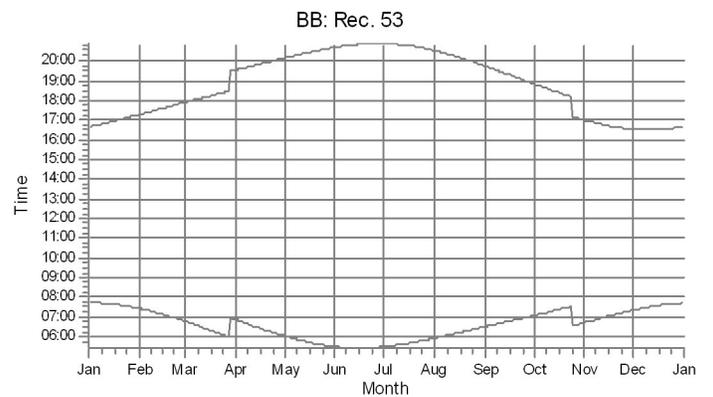
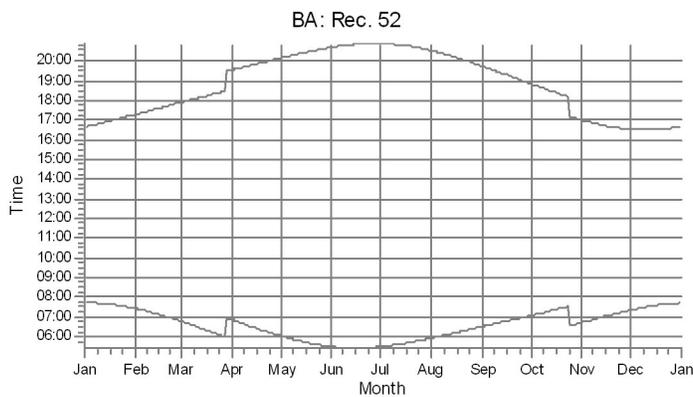
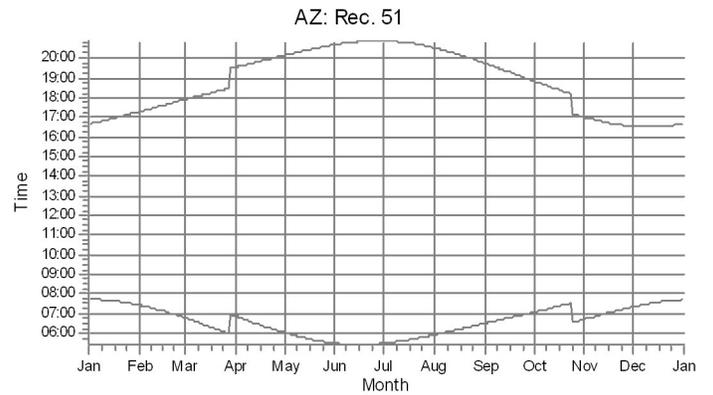
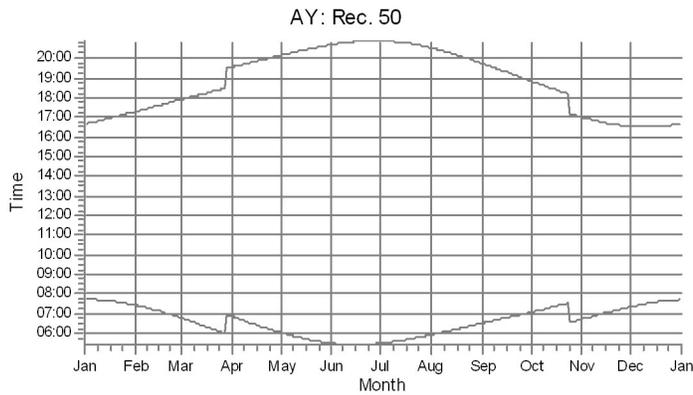
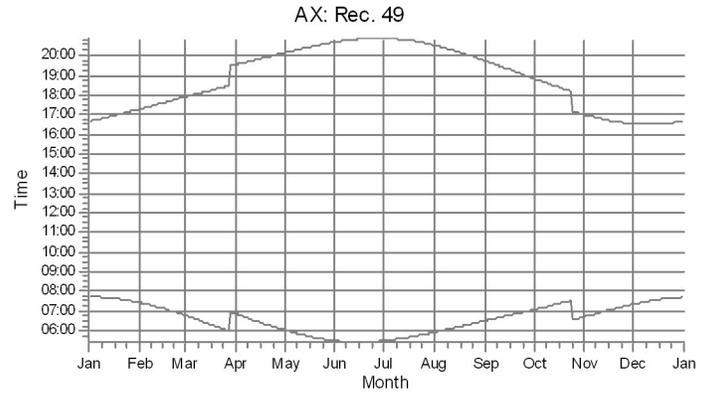
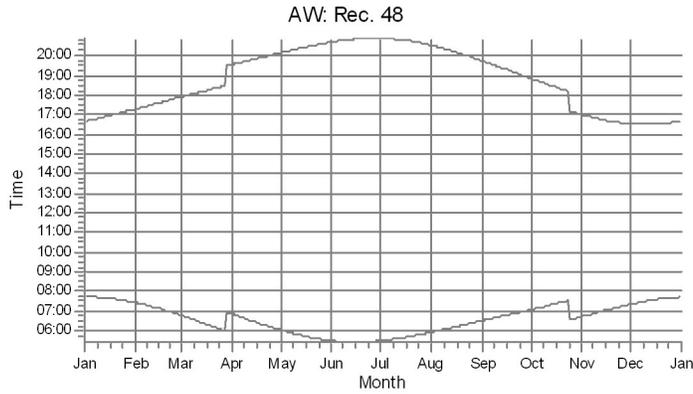
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

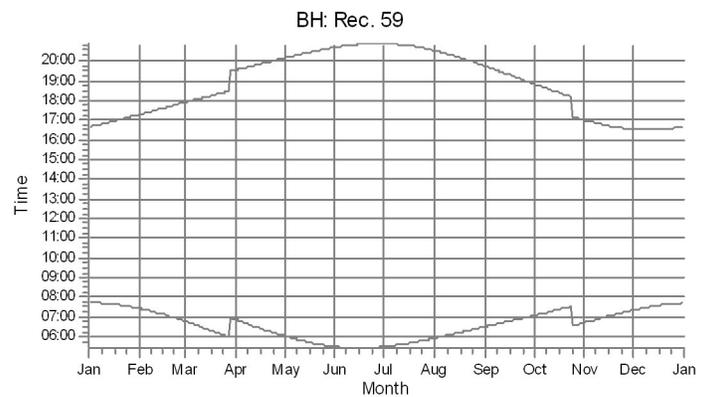
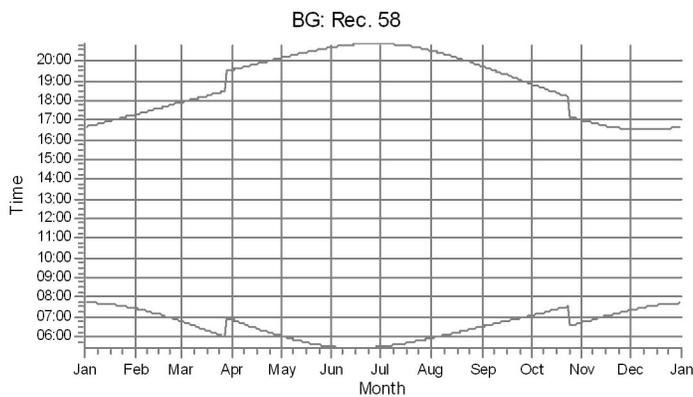
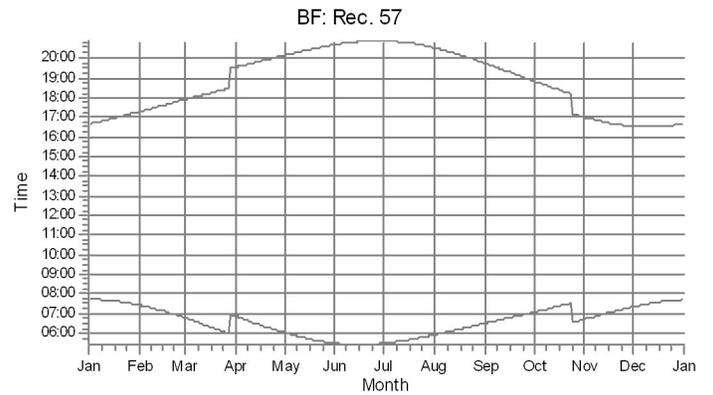
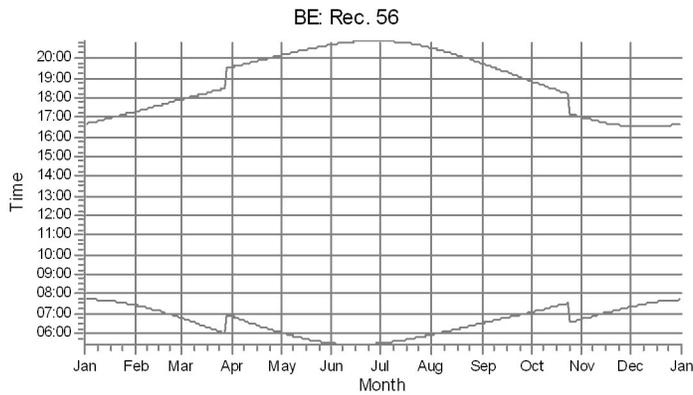
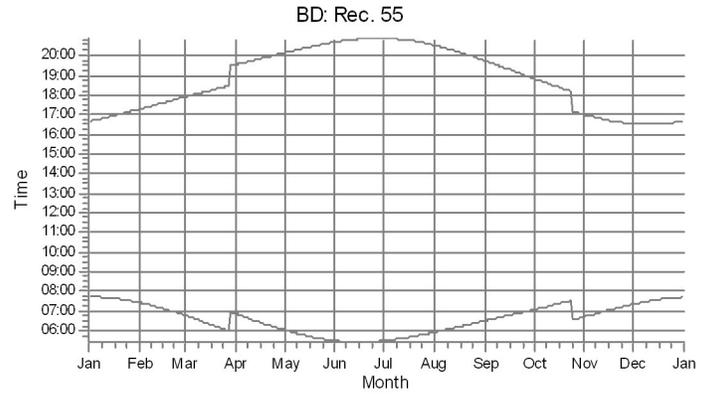
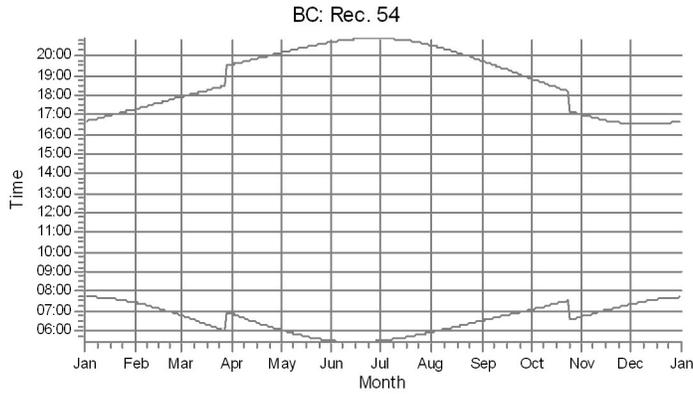
Calculation: WC results



WTGs

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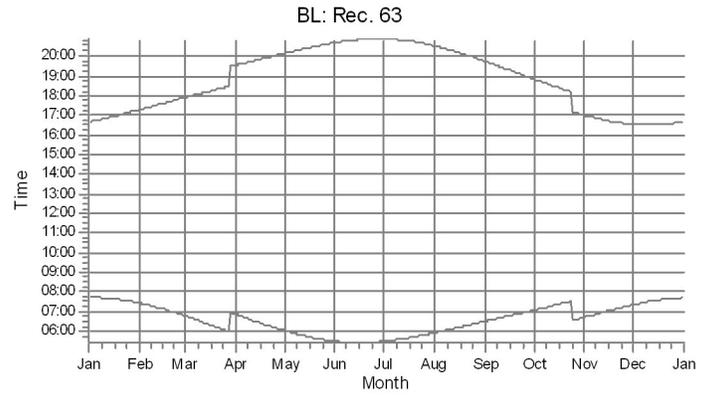
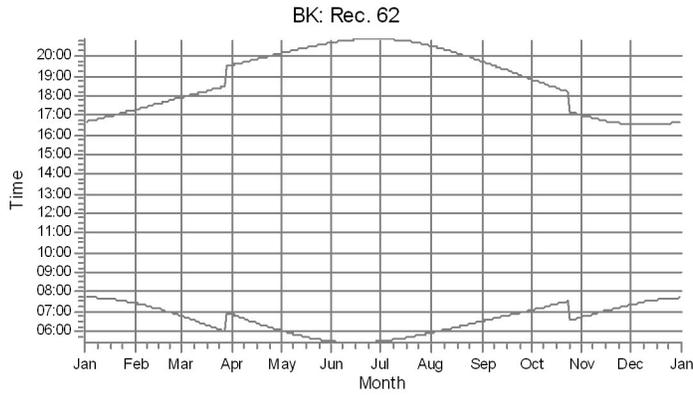
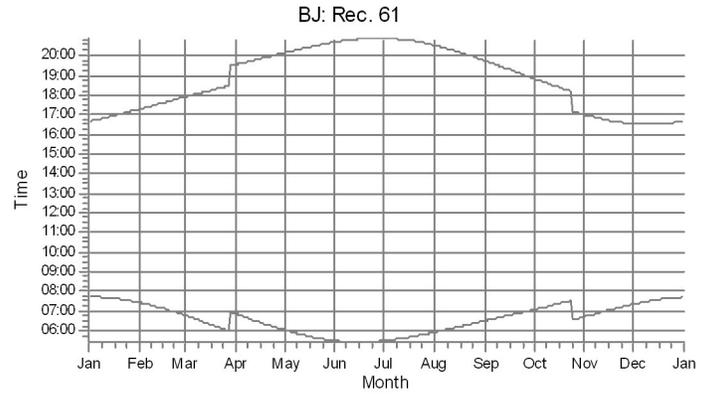
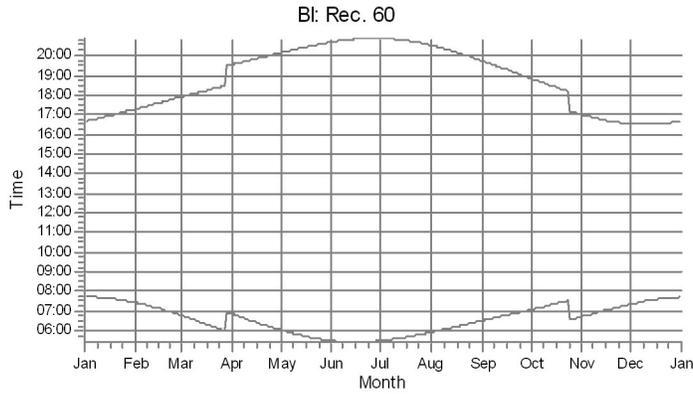
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

Calculation: WC results



WTGs

SHADOW - Calendar per WTG

Calculation: WC results WTG: 1 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (13)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:22 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:27 20:46	05:31 20:53	06:00 20:28	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
7	07:42 16:46	07:19 17:26	06:36 18:03	06:41 19:41	05:53 20:17	05:27 20:47	05:33 20:52	06:02 20:25	06:37 19:35	07:11 18:40	06:51 16:52	07:27 16:31
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16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
17	07:38 16:58	07:05 17:39	06:19 18:16	06:24 19:53	05:41 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:17	07:24 18:23	07:04 16:41	07:36 16:32
18	07:38 16:59	07:04 17:41	06:17 18:17	06:22 19:54	05:40 20:29	05:25 20:53	05:41 20:46	06:14 20:09	06:49 19:15	07:25 18:21	07:05 16:41	07:36 16:32
19	07:37 17:00	07:02 17:42	06:15 18:18	06:20 19:55	05:39 20:30	05:25 20:53	05:42 20:45	06:16 20:07	06:51 19:13	07:26 18:20	07:06 16:40	07:37 16:32
20	07:37 17:02	07:01 17:43	06:13 18:19	06:19 19:56	05:38 20:31	05:26 20:53	05:43 20:45	06:17 20:06	06:52 19:11	07:27 18:18	07:08 16:39	07:38 16:33
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31	07:27 17:16		06:53 19:32		05:30 20:42		05:54 20:34	06:29 19:47		06:41 17:01		07:42 16:39
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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

Calculation: WC results WTG: 2 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (14)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:55 20:33	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:06 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:22 17:23	06:40 18:00	06:44 19:39	05:56 20:14	05:27 20:46	05:31 20:53	06:00 20:28	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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31	07:27 17:16		06:53 19:32		05:30 20:42		05:54 20:34	06:29 19:47		06:41 17:01		07:42 16:39
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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/
	Sun set (hh:mm)	First time (hh:mm) with flicker-	Last time (hh:mm) with flicker/
		Minutes with flicker	Minutes with flicker

SHADOW - Calendar per WTG

Calculation: WC results WTG: 3 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (15)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:33	06:30 19:46	07:04 18:51	06:43 17:00	07:21 16:32
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3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	279
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

Calculation: WC results WTG: 4 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (16)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:47 17:55	06:52 19:34	06:02 20:10	05:29 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	279
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

Calculation: WC results WTG: 5 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (17)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:33	06:30 19:46	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	279
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

Calculation: WC results WTG: 6 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (18)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:05 18:51	06:43 17:00	07:21 16:32
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31	07:27 17:16		06:53 19:33	06:03 20:09	05:30 20:42	05:29 20:54	05:55 20:34	06:29 19:48	07:04 18:52	07:40 17:02	07:21 16:40	07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
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

Calculation: WC results WTG: 7 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (19)

Assumptions for shadow calculations

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	07:43 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:05 18:51	06:43 17:00	07:21 16:32
2	07:43 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:44	05:30 20:54	05:57 20:32	06:32 19:44	07:06 18:49	06:44 16:59	07:22 16:32
3	07:43 16:43	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:29 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:46 16:57	07:24 16:32
4	07:43 16:43	07:23 17:22	06:42 17:59	06:46 19:38	05:58 20:14	05:28 20:45	05:31 20:54	05:59 20:29	06:34 19:40	07:08 18:46	06:47 16:56	07:25 16:32
5	07:43 16:44	07:22 17:23	06:40 18:01	06:45 19:39	05:56 20:15	05:28 20:46	05:32 20:54	06:00 20:28	06:35 19:39	07:09 18:44	06:48 16:55	07:26 16:31
6	07:43 16:45	07:21 17:25	06:38 18:02	06:43 19:40	05:55 20:16	05:27 20:47	05:32 20:53	06:01 20:27	06:36 19:37	07:11 18:42	06:50 16:54	07:27 16:31
7	07:42 16:46	07:19 17:26	06:37 18:03	06:41 19:41	05:54 20:17	05:27 20:47	05:33 20:53	06:02 20:25	06:37 19:35	07:12 18:40	06:51 16:52	07:28 16:31
8	07:42 16:48	07:18 17:27	06:35 18:05	06:39 19:42	05:52 20:18	05:27 20:48	05:34 20:53	06:03 20:24	06:38 19:33	07:13 18:39	06:52 16:51	07:29 16:31
9	07:42 16:49	07:17 17:29	06:33 18:06	06:37 19:44	05:51 20:19	05:26 20:49	05:34 20:52	06:05 20:23	06:40 19:31	07:14 18:37	06:54 16:50	07:30 16:31
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12	07:41 16:52	07:13 17:33	06:28 18:10	06:32 19:47	05:47 20:23	05:26 20:50	05:37 20:51	06:08 20:18	06:43 19:26	07:18 18:32	06:58 16:47	07:32 16:31
13	07:41 16:53	07:12 17:34	06:26 18:11	06:31 19:48	05:46 20:24	05:26 20:51	05:37 20:50	06:09 20:17	06:44 19:24	07:19 18:30	06:59 16:46	07:33 16:31
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31	07:28 17:16		06:54 19:33		05:30 20:42		05:55 20:34	06:29 19:48		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
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

Calculation: WC results WTG: 8 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (20)

Assumptions for shadow calculations

- 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	07:43 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:21 16:33
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31	07:28 17:16		06:54 19:33		05:30 20:42		05:55 20:34	06:29 19:48		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
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

Calculation: WC results WTG: 9 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (21)

Assumptions for shadow calculations

- 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	07:42 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:05 18:51	06:43 17:00	07:21 16:32
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31	07:27 17:16		06:53 19:33		05:30 20:42		05:55 20:34	06:29 19:47		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
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

Calculation: WC results WTG: 10 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (22)

Assumptions for shadow calculations

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	07:43 16:41	07:27 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:55	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:21 16:33
2	07:43 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:44	05:30 20:54	05:57 20:32	06:32 19:44	07:06 18:49	06:45 16:59	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
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

Calculation: WC results WTG: 11 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (23)

Assumptions for shadow calculations

- 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	07:43 16:41	07:27 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:55	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:22 16:33
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
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

Calculation: WC results WTG: 12 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (24)

Assumptions for shadow calculations

- 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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7	07:43 16:47	07:20 17:26	06:37 18:03	06:41 19:41	05:54 20:17	05:27 20:48	05:33 20:53	06:02 20:25	06:37 19:35	07:12 18:40	06:51 16:52	07:28 16:31
8	07:42 16:48	07:18 17:27	06:35 18:05	06:39 19:43	05:52 20:18	05:27 20:48	05:34 20:53	06:03 20:24	06:39 19:33	07:13 18:39	06:52 16:51	07:29 16:31
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31	07:28 17:16		06:54 19:33		05:30 20:42		05:55 20:34	06:29 19:48		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

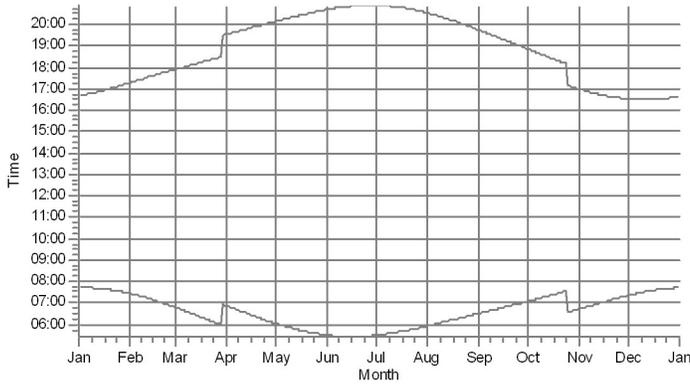
Table layout: For each day in each month the following matrix apply

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

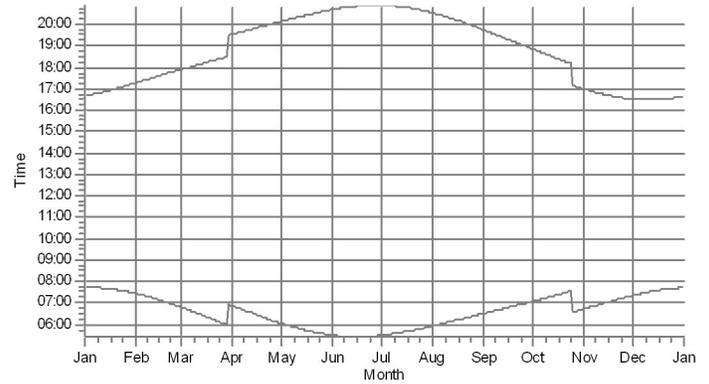
SHADOW - Calendar per WTG, graphical

Calculation: WC results

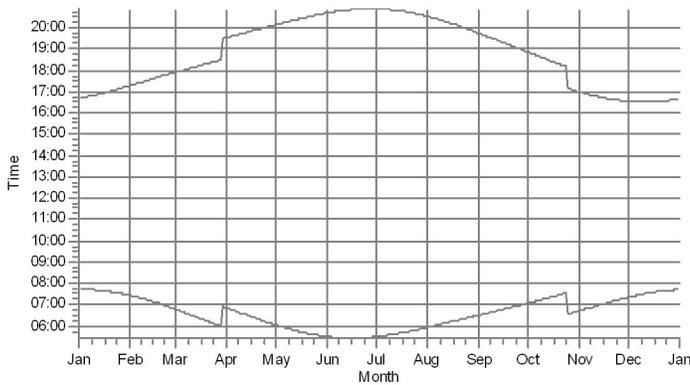
1: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (13)



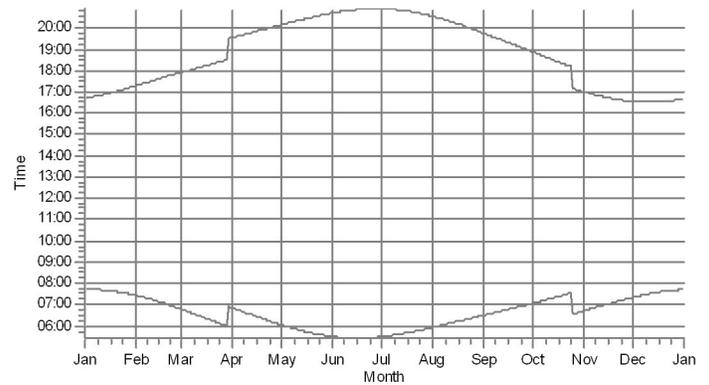
2: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (14)



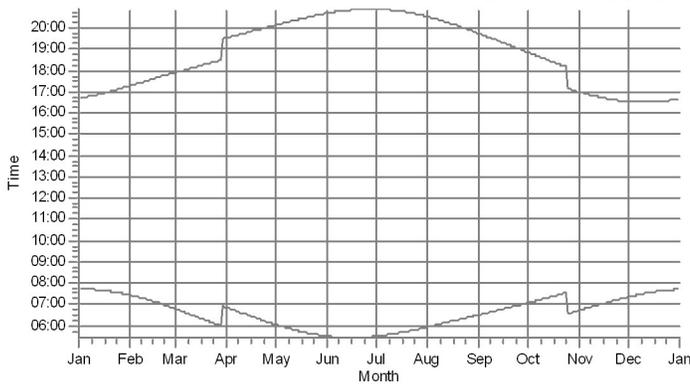
3: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (15)



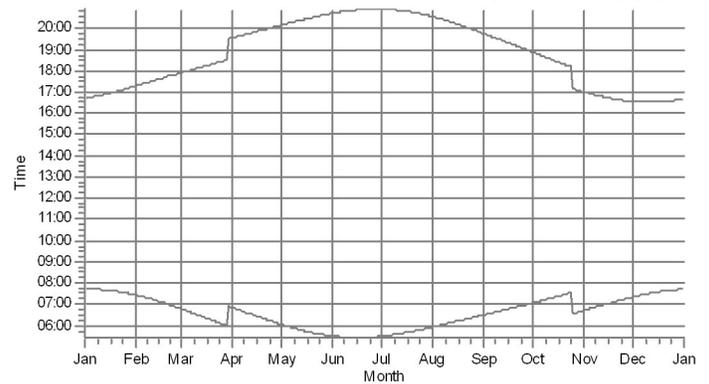
4: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (16)



5: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (17)



6: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (18)

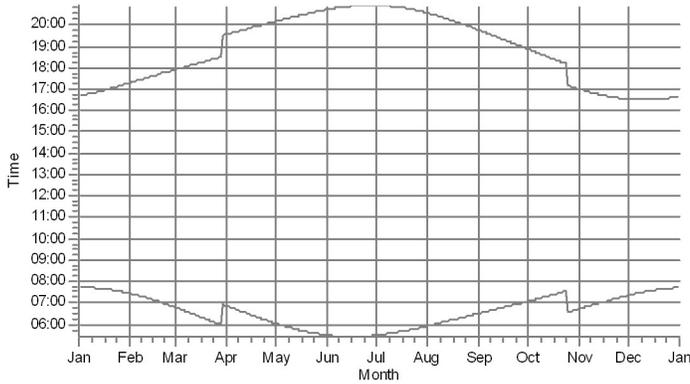


Shadow receptors

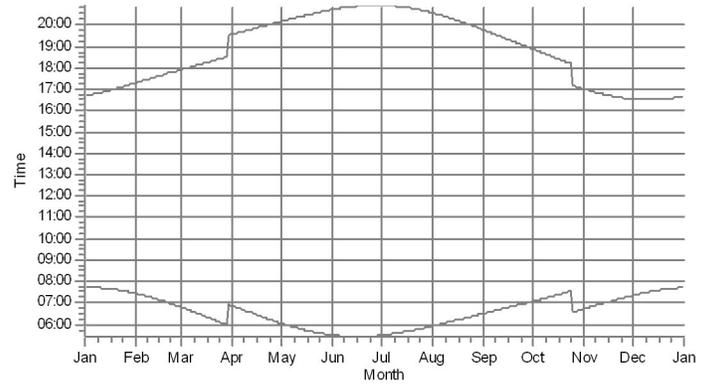
SHADOW - Calendar per WTG, graphical

Calculation: WC results

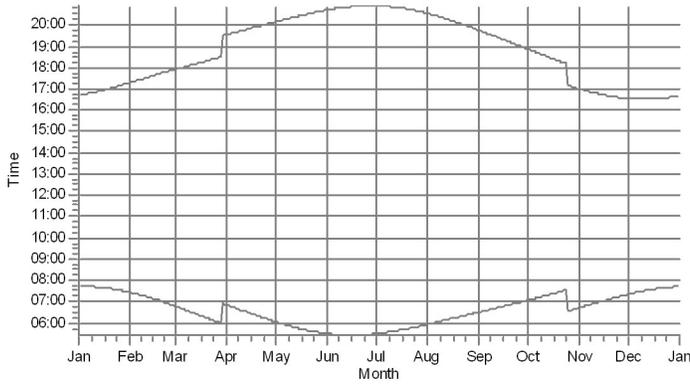
7: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (19)



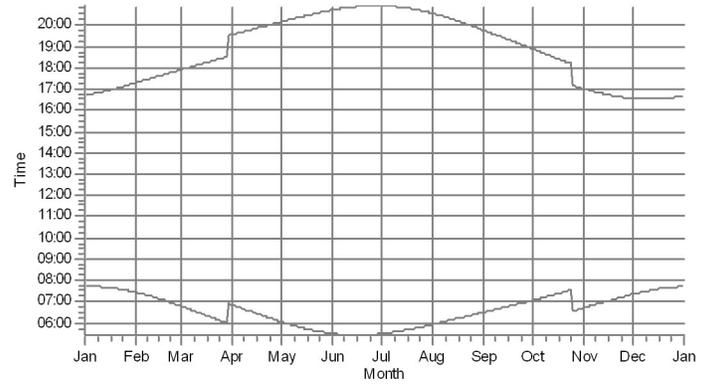
8: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (20)



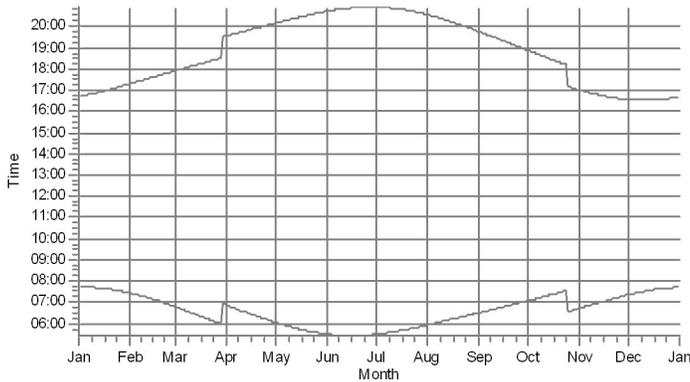
9: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (21)



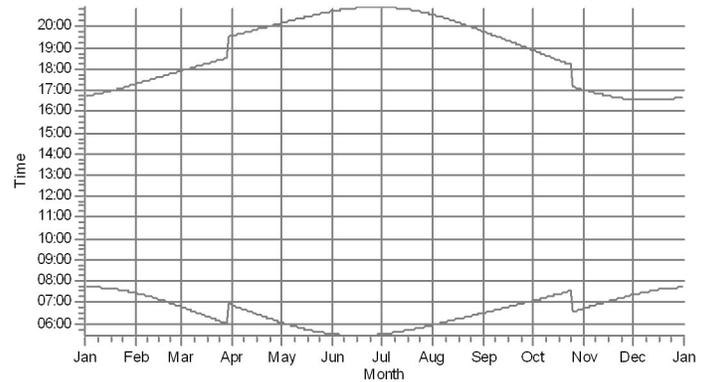
10: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (22)



11: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (23)



12: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (24)



Shadow receptors