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List of Abbreviations

Abbreviation	Term/Phrase/Name
Burns & McDonnell	Burns & McDonnell Engineering Company, Inc.
Developer	Basin Electric Power Cooperative
GE	General Electric
hr	Hour
m	Meter
m/s	Meters per second
MW	Megawatt
NOAA	National Oceanic and Atmospheric Administration
Project	Basin Prairie Wind Project
Project Site	Location of Project in Ward County, North Dakota
Study	Shadow Flicker Analysis
yr	Year

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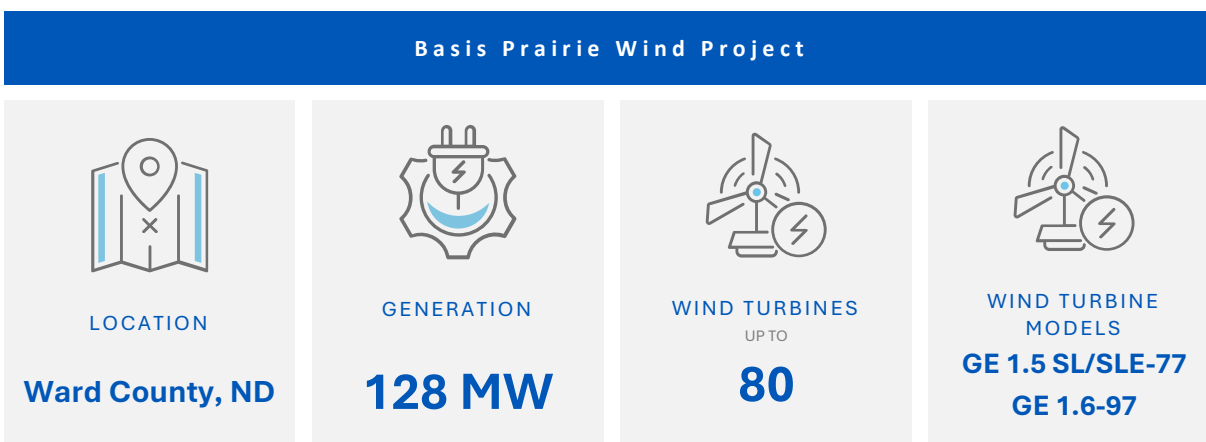
1.0 Introduction

1.1 Study Overview

Burns & McDonnell Engineering Company, Inc. (“Burns & McDonnell”) was retained by Basin Electric Power Cooperative (“Developer”) to conduct a shadow flicker analysis (the “Study”) for the proposed Basin Prairie Wind Project (the “Project”). The objective of the Study was to estimate the annual frequency of shadow flicker on occupied residences caused by Project wind turbines.

1.2 Project Overview

The Basin Prairie Wind Project is located in Ward County, North Dakota, approximately 20 miles south of the city of Minot. The existing Project includes 80 General Electric (“GE”) 1.5 SL/SLE-77 wind turbine generators. When repowered, the Project will include a quantity of 80 GE 1.6-97 wind turbine generators with a nameplate capacity of approximately 1.6 megawatts per wind, as summarized in Section 2.2 below.



1.3 Shadow Flicker Overview

Shadow flicker occurs when wind turbine blades pass in front of the sun to create recurring shadows on an object. Such shadows occur only under very specific conditions, including sun position, wind speed and direction, relative position of the wind turbine to the home or sensitive area, and other similar factors.

The intensity of shadow flicker varies significantly with distance, and as separation between a wind turbine and receptor (e.g., home or community building) increases, shadow flicker intensity correspondingly diminishes. Shadow flicker intensity for distances greater than ten (10) rotor diameters is generally

considered imperceptible. At such distances, shadow flicker most commonly occurs at sunrise or sunset, when cast shadows are sufficiently long and diffused.

1.4 Applicable Regulations

Shadow flicker impacts are not currently regulated in applicable state or federal law, nor are there requirements in the current Ward County ordinances with regard to limitations on shadow flicker durations. However, the North Dakota Public Service Commission historically requested a limit of 30 hours per year of shadow flicker. As such, this report identifies those receptors that may experience shadow flicker more than 30 hours per year, although it is noted that this threshold is presented as a typical industry benchmark for similar studies and not as a suggested limitation.

1.5 Site Visit

Burns & McDonnell did not visit the Project Site as part of this Study. The contents of this evaluation are based exclusively upon desktop analysis by Burns & McDonnell.



2.0 Modeling Parameters and Inputs

2.1 Modeling Overview

Shadow flicker was modeled for the Project Site using WindPRO, an industry-leading software package for the design and planning of wind energy projects. This package models the sun's path with respect to every wind turbine location during every minute over a complete year. Any shadow flicker caused by each wind turbine is then aggregated for each receptor for the entire year.

The following sections are summaries of the inputs utilized in the WindPRO model for this Study.

2.2 Wind Turbines

The Project will retain the location of the 80 existing wind turbines when repowered. A summary of the existing and proposed wind turbine models and their respective dimensions that were modeled as part of this Study is included Table 2-1.

Table 2-1: Wind turbine Model Dimensions

Layout	Wind Turbine Model	Quantity	Hub Height [m]	Rotor Diameter [m]
Existing	GE 1.5 SL/SLE-77	80	80	77
Proposed	GE 1.6-97	80	80	97

Shadow flicker intensity is partially dependent upon the distance from a receptor to the wind turbine causing the shadow. The Developer-provided coordinates of each wind turbine are presented in Appendix A and the location of each wind turbine is presented graphically in Appendix C.

2.3 Receptors

A receptor is used to designate a specific location, such as a residence or public building, where the impact of shadow flicker is assessed. A quantity of 248 receptors were modeled at the Project Site. The Developer-provided coordinates of each receptor are presented in Appendix B and the location of each receptor is presented graphically in Appendix C. Burns & McDonnell did not provide an independent verification of the location or occupied status of these receptors.

Each receptor was modeled in “greenhouse” mode within the WindPRO model, which is a one (1) meter by one (1) meter area located one (1) meter above the ground and is perpendicular to each wind turbine. This approach provides a conservative estimate of the amount of time when shadow flicker could occur by

modeling each receptor as having windows on all sides and effectively causing the home to be susceptible to shadow flicker effects in all directions.

2.4 Terrain

The WindPRO model utilizes topography data to model wind turbines and receptors at the proper elevations. This information is also used by the model to consider any natural land features between a wind turbine and a receptor that may block shadows from being seen at a receptor.

Publicly-available terrain data was downloaded from the National Elevation Dataset, a product of the United States Geological Survey. The 1/3 arc-second resolution digital elevation model was exported at 10-foot intervals for use in the WindPRO model. The WindPRO model uses the provided elevation data to determine the elevation of each wind turbine and receptor.

2.5 Obstacles

Obstacles located between a receptor and a wind turbine, such as trees or buildings, may significantly reduce or eliminate the duration and/or intensity of shadow flicker. However, to provide the most conservative estimate of the amount of time when shadow flicker could occur, no attempt was made to model the presence of potential obstacles.

2.6 Wind Turbine Operation

Shadow flicker is contingent upon the movement of the wind turbine blades. Shadow flicker can only occur when the wind turbine is in operation (i.e., when the blades are rotating). Moreover, shadow flicker is generally most notable when a wind turbine is facing a receptor, as this results in the widest-possible shadow being cast. To more accurately reflect the periods of operation of each Project wind turbine, on-site hub-height wind data was provided by Developer and used to indicate the periods when the wind turbines are inactive due to wind speeds below the wind turbine cut-in speed or above the wind turbine cut-out speed, at which time the wind turbine rotor is not in motion and no shadow flicker will occur.

Project Site-specific wind data was also utilized to model the orientation of the wind turbines relative to each receptor. The Developer-provided wind data includes data collected by an on-site meteorological mast.

Power curves for the existing and proposed wind turbines were provided by Developer. These power curves were added to the WindPRO model to more accurately reflect the wind turbine's operational characteristics. The assumed cut-in wind speed of both the existing and proposed wind turbines was 3.0 m/s and the assumed cut-out wind speed was 25.0 m/s.

2.7 Shadow Flicker Relevance

At distances beyond 10 rotor diameters, shadow flicker effects are generally considered low, as shadows diffuse and become imperceptible. Thus, a distance equal to 10 times the rotor diameter of each wind turbine (i.e., 770 meters for the existing wind turbines and 970 meters for the proposed wind turbines) was modeled as the maximum distance at which shadow flicker was considered relevant; receptors greater than this distance from a given wind turbine were not evaluated. The proximity of this buffer relative to each receptor is presented graphically in Appendix C.

2.8 Sun Angle

The sun's path with respect to each wind turbine location is calculated by the WindPRO model to determine the cast shadow paths during every minute over a complete year. However, at very low sun angles, the light must pass through more atmosphere and becomes too diffused to form a coherent shadow. Thus, a value of three (3) degrees or less was utilized for the height at which the sun would not cause noticeable shadow flicker.

2.9 Sunshine Probability

Shadow flicker is only caused when the sun is shining. Sunshine probability data was obtained by Burns & McDonnell from the National Oceanic and Atmospheric Administration ("NOAA") Sunshine Probability Hours by City dataset, as shown in Table 2-1. This data represents the percentage of hours each month that the sun is expected to be shining during daylight hours, with consideration given for cloud cover, rainy days, fog, or other similar occurrences that may diminish the potential occurrence or severity of shadow flicker.

Table 2-1: Monthly Sunshine Probability for Williston, North Dakota

Month	Sunshine Probability
January	51%
February	57%
March	61%
April	59%
May	63%
June	68%
July	77%
August	75%
September	67%
October	56%
November	43%
December	47%

Notes:

[1] Data source: NOAA Sunshine Probability Hours by City

[2] Data location: Williston, North Dakota

2.10 WindPro Methodology

In WindPRO, calculations initially consider a worst-case scenario for shadow flicker, assuming continuous sunshine and wind turbine operation, which is then statistically reduced by accounting for factors such as the probability of sunshine and wind frequency data. For this study, the estimated (realistic) condition results, shown in Table B-1, applied both sunshine probability data and wind frequency data.



3.0 Results

Using the inputs and parameters defined in Section 2.0, the WindPRO model was used to calculate shadow flicker for the identified receptors at the Project Site for the existing wind turbines and proposed repower wind turbines. Table 3-1 presents a summary of these results, while detailed tables are included within Appendix B that present shadow flicker durations by receptor, including estimated hours per year. Additionally, maps are provided in Appendix C that illustrate the shadow flicker contours (in hours per year) caused by Project wind turbines.

Table 3-1: Summary of Results

Layout	Wind Turbine Model	No. of Wind Turbines	No. of Receptors	No. of Receptors, Shadow Flicker $\geq$ 30 hr/yr	
				Participating	Non-Participating
Existing	GE 1.5 SL/SLE-77	80	248	0	1
Proposed Repower	GE 1.6-97	80	248	0	1

The following is a set of key observations from the results of the Study:

- With both the existing and proposed repower wind turbines, one of the 248 known receptors is anticipated to exceed 30 hours per year of shadow flicker for estimated (realistic) conditions. The one receptor is a non-participating residence. Refer to Appendix B for a complete listing of results.
- The majority of observed shadow flicker on each receptor occurs during early morning and/or late afternoon and evening hours, as shown in Appendix D.
- The Study was performed using a conservative modeling approach with Project Site-specific conditions. For example, the Study modeled each receptor as a “greenhouse”, meaning each receptor was modeled as having windows on all sides and effectively causing the home to be susceptible to shadow flicker effects in all directions. Further, the Project Site was modeled as if no obstacles were present, including trees or buildings, which may significantly reduce or eliminate the duration and/or intensity of shadow flicker at a receptor. Due to the conservative approach of the Study, the actual duration and intensity of shadow flicker experienced at each receptor could be less than those reported in the Study.
- Notwithstanding any shadow flicker which may occur at the Project Site, mitigation techniques may be utilized to reduce these effects. Common techniques include planting vegetation, awning installation, and/or reduced wind turbine operation.

Appendix A – Wind Turbine Coordinates

Table A-1: Wind Turbine Coordinates

Wind Turbine ID	Easting [m]	Northing [m]	Existing Wind Turbine Model	Proposed Wind Turbine Model
A01	332,657	5,311,916	GE 1.5 SL/SLE-77	GE 1.6-97
A02	333,316	5,311,942	GE 1.5 SL/SLE-77	GE 1.6-97
A03	333,756	5,311,705	GE 1.5 SL/SLE-77	GE 1.6-97
A04	332,824	5,312,628	GE 1.5 SL/SLE-77	GE 1.6-97
A05	333,026	5,313,294	GE 1.5 SL/SLE-77	GE 1.6-97
A06	333,715	5,312,502	GE 1.5 SL/SLE-77	GE 1.6-97
A07	333,202	5,313,544	GE 1.5 SL/SLE-77	GE 1.6-97
A08	332,495	5,313,799	GE 1.5 SL/SLE-77	GE 1.6-97
A09	332,167	5,314,055	GE 1.5 SL/SLE-77	GE 1.6-97
A10	331,647	5,313,824	GE 1.5 SL/SLE-77	GE 1.6-97
A11	331,580	5,314,958	GE 1.5 SL/SLE-77	GE 1.6-97
A12	331,029	5,315,990	GE 1.5 SL/SLE-77	GE 1.6-97
A13	331,182	5,317,101	GE 1.5 SL/SLE-77	GE 1.6-97
A14	331,866	5,317,059	GE 1.5 SL/SLE-77	GE 1.6-97
A15	331,582	5,317,733	GE 1.5 SL/SLE-77	GE 1.6-97
A16	332,171	5,317,546	GE 1.5 SL/SLE-77	GE 1.6-97
B17	331,449	5,313,022	GE 1.5 SL/SLE-77	GE 1.6-97
B18	330,893	5,314,002	GE 1.5 SL/SLE-77	GE 1.6-97
B19	330,340	5,314,906	GE 1.5 SL/SLE-77	GE 1.6-97
B20	329,623	5,315,246	GE 1.5 SL/SLE-77	GE 1.6-97
B21	329,694	5,315,737	GE 1.5 SL/SLE-77	GE 1.6-97
B22	330,210	5,316,093	GE 1.5 SL/SLE-77	GE 1.6-97
B23	329,416	5,317,558	GE 1.5 SL/SLE-77	GE 1.6-97
B24	329,563	5,317,966	GE 1.5 SL/SLE-77	GE 1.6-97
B25	329,074	5,316,124	GE 1.5 SL/SLE-77	GE 1.6-97
B26	327,873	5,316,266	GE 1.5 SL/SLE-77	GE 1.6-97
B27	326,578	5,315,752	GE 1.5 SL/SLE-77	GE 1.6-97
B28	325,902	5,315,999	GE 1.5 SL/SLE-77	GE 1.6-97
B29	325,772	5,315,134	GE 1.5 SL/SLE-77	GE 1.6-97
B30	326,226	5,314,399	GE 1.5 SL/SLE-77	GE 1.6-97
B31	325,050	5,314,459	GE 1.5 SL/SLE-77	GE 1.6-97
B32	324,738	5,314,570	GE 1.5 SL/SLE-77	GE 1.6-97
C33	331,524	5,311,869	GE 1.5 SL/SLE-77	GE 1.6-97
C34	331,534	5,312,538	GE 1.5 SL/SLE-77	GE 1.6-97
C35	330,710	5,312,567	GE 1.5 SL/SLE-77	GE 1.6-97
C36	330,554	5,312,210	GE 1.5 SL/SLE-77	GE 1.6-97
C37	331,057	5,311,062	GE 1.5 SL/SLE-77	GE 1.6-97
C38	330,515	5,311,415	GE 1.5 SL/SLE-77	GE 1.6-97



Wind Turbine ID	Easting [m]	Northing [m]	Existing Wind Turbine Model	Proposed Wind Turbine Model
C39	328,832	5,310,907	GE 1.5 SL/SLE-77	GE 1.6-97
C40	329,216	5,310,435	GE 1.5 SL/SLE-77	GE 1.6-97
C41	329,140	5,312,578	GE 1.5 SL/SLE-77	GE 1.6-97
C42	328,396	5,312,805	GE 1.5 SL/SLE-77	GE 1.6-97
C43	327,991	5,312,767	GE 1.5 SL/SLE-77	GE 1.6-97
C44	329,421	5,313,123	GE 1.5 SL/SLE-77	GE 1.6-97
C45	330,121	5,313,507	GE 1.5 SL/SLE-77	GE 1.6-97
D46	330,102	5,309,897	GE 1.5 SL/SLE-77	GE 1.6-97
D47	329,742	5,309,725	GE 1.5 SL/SLE-77	GE 1.6-97
D48	330,080	5,309,241	GE 1.5 SL/SLE-77	GE 1.6-97
D49	329,541	5,308,614	GE 1.5 SL/SLE-77	GE 1.6-97
D50	328,408	5,308,620	GE 1.5 SL/SLE-77	GE 1.6-97
D51	327,506	5,308,898	GE 1.5 SL/SLE-77	GE 1.6-97
D52	327,189	5,309,683	GE 1.5 SL/SLE-77	GE 1.6-97
D53	327,923	5,310,637	GE 1.5 SL/SLE-77	GE 1.6-97
D54	327,368	5,310,668	GE 1.5 SL/SLE-77	GE 1.6-97
D55	326,904	5,310,812	GE 1.5 SL/SLE-77	GE 1.6-97
D56	328,015	5,307,450	GE 1.5 SL/SLE-77	GE 1.6-97
D57	327,383	5,307,054	GE 1.5 SL/SLE-77	GE 1.6-97
D58	327,989	5,306,569	GE 1.5 SL/SLE-77	GE 1.6-97
D59	326,733	5,306,290	GE 1.5 SL/SLE-77	GE 1.6-97
D60	328,721	5,305,526	GE 1.5 SL/SLE-77	GE 1.6-97
D61	328,849	5,304,557	GE 1.5 SL/SLE-77	GE 1.6-97
E62	332,548	5,310,681	GE 1.5 SL/SLE-77	GE 1.6-97
E63	333,365	5,310,804	GE 1.5 SL/SLE-77	GE 1.6-97
E64	333,747	5,310,759	GE 1.5 SL/SLE-77	GE 1.6-97
E65	333,406	5,311,332	GE 1.5 SL/SLE-77	GE 1.6-97
E66	332,561	5,310,287	GE 1.5 SL/SLE-77	GE 1.6-97
E67	333,076	5,309,781	GE 1.5 SL/SLE-77	GE 1.6-97
E68	333,773	5,309,490	GE 1.5 SL/SLE-77	GE 1.6-97
E69	332,858	5,308,773	GE 1.5 SL/SLE-77	GE 1.6-97
E70	333,698	5,308,948	GE 1.5 SL/SLE-77	GE 1.6-97
E71	332,634	5,308,605	GE 1.5 SL/SLE-77	GE 1.6-97
E72	332,304	5,307,911	GE 1.5 SL/SLE-77	GE 1.6-97
E73	331,529	5,308,104	GE 1.5 SL/SLE-77	GE 1.6-97
E74	331,727	5,306,920	GE 1.5 SL/SLE-77	GE 1.6-97
E75	333,227	5,307,662	GE 1.5 SL/SLE-77	GE 1.6-97
E76	334,047	5,307,336	GE 1.5 SL/SLE-77	GE 1.6-97
E77	334,749	5,307,236	GE 1.5 SL/SLE-77	GE 1.6-97



Wind Turbine ID	Easting [m]	Northing [m]	Existing Wind Turbine Model	Proposed Wind Turbine Model
MW101	329,266	5,320,797	GE 1.5 SL/SLE-77	GE 1.6-97
MW102	329,958	5,321,174	GE 1.5 SL/SLE-77	GE 1.6-97
MW103	330,660	5,321,580	GE 1.5 SL/SLE-77	GE 1.6-97

Notes:

[1] Coordinates presented in UTM NAD83 Zone 14N (meters)

[2] Coordinates provided by Developer via "20250902_PWR_Turb_UTM.shp" on February 25, 2026

Appendix B – Shadow Flicker Results by Receptor

Table B-1: Shadow Flicker Results by Receptor

Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec001	338,241	5,309,174	Non-Participating	0.00	0.00
Rec002	324,530	5,317,965	Non-Participating	0.00	0.00
Rec003	327,059	5,304,940	Non-Participating	0.00	0.00
Rec004	339,507	5,311,129	Non-Participating	0.00	0.00
Rec005	332,178	5,311,498	Non-Participating	10.62	15.28
Rec006	329,158	5,322,947	Non-Participating	0.00	0.00
Rec007	340,123	5,319,460	Non-Participating	0.00	0.00
Rec008	328,200	5,306,969	Non-Participating	2.53	12.10
Rec009	328,410	5,308,920	Participating	4.72	16.70
Rec010	320,917	5,317,449	Non-Participating	0.00	0.00
Rec011	331,750	5,321,357	Non-Participating	0.00	0.00
Rec012	328,771	5,319,071	Non-Participating	0.00	0.00
Rec013	339,920	5,317,893	Non-Participating	0.00	0.00
Rec014	335,038	5,313,156	Non-Participating	0.00	0.00
Rec015	329,036	5,319,254	Non-Participating	0.00	0.00
Rec016	333,650	5,318,816	Non-Participating	0.00	0.00
Rec017	328,856	5,319,028	Non-Participating	0.00	0.00
Rec018	327,083	5,308,708	Non-Participating	12.02	19.37
Rec019	320,785	5,317,571	Non-Participating	0.00	0.00
Rec020	328,323	5,310,292	Non-Participating	0.00	4.20
Rec021	326,897	5,322,829	Non-Participating	0.00	0.00
Rec022	329,306	5,314,606	Non-Participating	0.00	0.00
Rec023	339,528	5,308,985	Non-Participating	0.00	0.00
Rec024	328,836	5,318,980	Non-Participating	0.00	0.00
Rec025	335,074	5,307,974	Non-Participating	0.00	0.00
Rec026	336,923	5,324,302	Non-Participating	0.00	0.00
Rec027	320,689	5,323,635	Non-Participating	0.00	0.00
Rec028	329,177	5,321,358	Non-Participating	0.00	4.20
Rec029	328,750	5,318,983	Non-Participating	0.00	0.00
Rec030	323,941	5,322,486	Non-Participating	0.00	0.00
Rec031	328,746	5,324,750	Non-Participating	0.00	0.00
Rec032	325,330	5,306,467	Non-Participating	0.00	0.00
Rec033	328,885	5,319,387	Non-Participating	0.00	0.00
Rec034	339,547	5,308,070	Non-Participating	0.00	0.00
Rec035	333,592	5,308,227	Non-Participating	0.00	0.00
Rec036	331,319	5,303,855	Non-Participating	0.00	0.00



Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec037	320,760	5,324,526	Non-Participating	0.00	0.00
Rec038	326,397	5,323,807	Non-Participating	0.00	0.00
Rec039	324,939	5,316,451	Non-Participating	0.00	0.00
Rec040	329,349	5,314,555	Non-Participating	0.00	0.00
Rec041	333,288	5,305,378	Non-Participating	0.00	0.00
Rec042	328,935	5,319,313	Non-Participating	0.00	0.00
Rec043	336,379	5,320,801	Non-Participating	0.00	0.00
Rec044	333,759	5,317,001	Non-Participating	0.00	0.00
Rec045	327,997	5,324,573	Non-Participating	0.00	0.00
Rec046	320,731	5,315,746	Non-Participating	0.00	0.00
Rec047	332,129	5,311,498	Non-Participating	7.02	11.68
Rec048	334,085	5,310,448	Non-Participating	0.00	16.82
Rec049	338,419	5,316,180	Non-Participating	0.00	0.00
Rec050	320,911	5,321,917	Non-Participating	0.00	0.00
Rec051	331,290	5,316,504	Non-Participating	0.00	0.00
Rec052	323,278	5,314,012	Non-Participating	0.00	0.00
Rec053	338,521	5,316,447	Non-Participating	0.00	0.00
Rec054	328,824	5,318,981	Non-Participating	0.00	0.00
Rec055	330,331	5,318,622	Non-Participating	0.00	0.00
Rec056	332,003	5,311,492	Non-Participating	0.00	0.47
Rec057	332,011	5,316,156	Non-Participating	0.00	0.00
Rec058	328,821	5,318,945	Non-Participating	0.00	0.00
Rec059	338,507	5,316,525	Non-Participating	0.00	0.00
Rec060	329,052	5,319,260	Non-Participating	0.00	0.00
Rec061	327,086	5,306,672	Non-Participating	9.77	17.73
Rec062	331,621	5,318,660	Non-Participating	0.00	0.00
Rec063	338,938	5,304,803	Non-Participating	0.00	0.00
Rec064	328,711	5,319,067	Non-Participating	0.00	0.00
Rec065	325,550	5,308,319	Non-Participating	0.00	0.00
Rec066	329,191	5,320,232	Non-Participating	0.00	0.00
Rec067	331,740	5,307,625	Non-Participating	7.47	12.10
Rec068	331,162	5,319,726	Non-Participating	0.00	0.00
Rec069	330,357	5,317,141	Non-Participating	0.00	4.85
Rec070	338,904	5,324,383	Non-Participating	0.00	0.00
Rec071	329,129	5,321,216	Non-Participating	0.00	4.92
Rec072	328,697	5,318,988	Non-Participating	0.00	0.00
Rec073	326,314	5,305,476	Non-Participating	0.00	0.00
Rec074	320,875	5,307,996	Non-Participating	0.00	0.00



Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec075	328,891	5,318,961	Non-Participating	0.00	0.00
Rec076	328,694	5,319,233	Non-Participating	0.00	0.00
Rec077	336,832	5,318,683	Non-Participating	0.00	0.00
Rec078	328,583	5,321,453	Non-Participating	0.00	7.58
Rec079	328,435	5,318,152	Non-Participating	0.00	0.00
Rec080	333,446	5,316,231	Non-Participating	0.00	0.00
Rec081	329,062	5,325,043	Non-Participating	0.00	0.00
Rec082	329,323	5,321,341	Non-Participating	4.62	7.10
Rec083	339,552	5,312,671	Non-Participating	0.00	0.00
Rec084	330,491	5,315,493	Non-Participating	0.00	9.75
Rec085	337,459	5,311,354	Non-Participating	0.00	0.00
Rec086	333,539	5,308,155	Non-Participating	0.00	1.72
Rec087	328,671	5,319,052	Non-Participating	0.00	0.00
Rec088	328,835	5,319,069	Non-Participating	0.00	0.00
Rec089	338,624	5,316,564	Non-Participating	0.00	0.00
Rec090	337,041	5,319,464	Non-Participating	0.00	0.00
Rec091	331,675	5,321,927	Non-Participating	0.00	0.00
Rec092	331,863	5,320,912	Non-Participating	0.00	0.00
Rec093	328,784	5,323,910	Non-Participating	0.00	0.00
Rec094	328,635	5,310,379	Non-Participating	12.92	20.45
Rec095	338,922	5,313,072	Non-Participating	0.00	0.00
Rec096	328,792	5,318,981	Non-Participating	0.00	0.00
Rec097	340,056	5,310,263	Non-Participating	0.00	0.00
Rec098	328,567	5,310,262	Non-Participating	16.62	25.05
Rec099	324,143	5,325,081	Non-Participating	0.00	0.00
Rec100	329,495	5,305,761	Non-Participating	0.00	4.23
Rec101	328,922	5,319,001	Non-Participating	0.00	0.00
Rec102	320,192	5,307,369	Non-Participating	0.00	0.00
Rec103	328,559	5,313,213	Non-Participating	5.90	20.90
Rec104	322,337	5,315,173	Non-Participating	0.00	0.00
Rec106	332,463	5,314,931	Non-Participating	0.00	4.42
Rec107	328,798	5,318,945	Non-Participating	0.00	0.00
Rec108	328,819	5,319,174	Non-Participating	0.00	0.00
Rec109	328,643	5,313,307	Non-Participating	0.00	12.20
Rec110	333,680	5,316,995	Non-Participating	0.00	0.00
Rec112	328,767	5,319,032	Non-Participating	0.00	0.00
Rec113	325,257	5,307,111	Non-Participating	0.00	0.00
Rec114	336,304	5,311,493	Non-Participating	0.00	0.00



Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec115	331,140	5,324,763	Non-Participating	0.00	0.00
Rec116	324,828	5,320,858	Non-Participating	0.00	0.00
Rec117	329,774	5,324,636	Non-Participating	0.00	0.00
Rec118	333,880	5,324,514	Non-Participating	0.00	0.00
Rec119	339,993	5,314,351	Non-Participating	0.00	0.00
Rec120	329,211	5,308,562	Non-Participating	33.65	56.72
Rec121	328,994	5,319,256	Non-Participating	0.00	0.00
Rec122	330,993	5,305,426	Non-Participating	0.00	0.00
Rec123	328,883	5,319,236	Non-Participating	0.00	0.00
Rec124	329,026	5,319,256	Non-Participating	0.00	0.00
Rec125	325,576	5,306,045	Non-Participating	0.00	0.00
Rec126	328,712	5,321,598	Non-Participating	0.00	0.00
Rec127	332,124	5,315,644	Non-Participating	0.00	0.00
Rec128	319,967	5,324,730	Non-Participating	0.00	0.00
Rec129	327,339	5,324,469	Non-Participating	0.00	0.00
Rec130	328,910	5,318,978	Non-Participating	0.00	0.00
Rec131	328,687	5,318,991	Non-Participating	0.00	0.00
Rec132	322,263	5,324,967	Non-Participating	0.00	0.00
Rec133	328,349	5,304,586	Non-Participating	8.38	13.78
Rec134	328,756	5,322,242	Non-Participating	0.00	0.00
Rec135	331,172	5,319,611	Non-Participating	0.00	0.00
Rec136	328,548	5,321,320	Non-Participating	0.00	4.88
Rec137	329,667	5,311,704	Non-Participating	0.00	3.95
Rec138	329,205	5,321,495	Non-Participating	0.00	4.25
Rec139	338,607	5,316,570	Non-Participating	0.00	0.00
Rec140	326,287	5,302,728	Non-Participating	0.00	0.00
Rec141	333,880	5,319,834	Non-Participating	0.00	0.00
Rec142	326,567	5,314,833	Participating	4.95	15.62
Rec143	324,907	5,320,919	Non-Participating	0.00	0.00
Rec144	330,928	5,308,845	Non-Participating	0.00	8.73
Rec145	328,791	5,319,032	Non-Participating	0.00	0.00
Rec146	331,062	5,319,748	Non-Participating	0.00	0.00
Rec147	335,306	5,314,904	Non-Participating	0.00	0.00
Rec148	329,466	5,311,280	Non-Participating	3.63	5.93
Rec149	328,779	5,323,241	Non-Participating	0.00	0.00
Rec150	321,846	5,324,707	Non-Participating	0.00	0.00
Rec151	330,198	5,311,704	Non-Participating	13.33	22.62
Rec152	328,795	5,319,071	Non-Participating	0.00	0.00



Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec153	328,835	5,319,027	Non-Participating	0.00	0.00
Rec154	336,982	5,322,834	Non-Participating	0.00	0.00
Rec155	338,538	5,316,550	Non-Participating	0.00	0.00
Rec156	321,126	5,321,316	Non-Participating	0.00	0.00
Rec157	332,122	5,322,865	Non-Participating	0.00	0.00
Rec158	320,859	5,322,670	Non-Participating	0.00	0.00
Rec159	328,770	5,318,947	Non-Participating	0.00	0.00
Rec160	333,627	5,322,114	Non-Participating	0.00	0.00
Rec161	324,734	5,310,293	Non-Participating	0.00	0.00
Rec162	329,174	5,322,050	Non-Participating	0.00	0.00
Rec163	328,733	5,322,471	Non-Participating	0.00	0.00
Rec164	328,947	5,315,706	Non-Participating	3.83	12.20
Rec165	320,669	5,321,608	Non-Participating	0.00	0.00
Rec166	331,617	5,318,567	Non-Participating	0.00	0.00
Rec167	326,146	5,324,846	Non-Participating	0.00	0.00
Rec168	340,000	5,318,422	Non-Participating	0.00	0.00
Rec169	329,060	5,319,263	Non-Participating	0.00	0.00
Rec170	339,690	5,304,037	Non-Participating	0.00	0.00
Rec171	335,069	5,304,252	Non-Participating	0.00	0.00
Rec172	329,117	5,307,318	Non-Participating	0.00	0.00
Rec173	329,799	5,316,333	Non-Participating	12.65	20.45
Rec174	329,920	5,318,243	Non-Participating	10.32	17.92
Rec175	329,427	5,311,317	Non-Participating	4.07	6.80
Rec176	335,437	5,323,079	Non-Participating	0.00	0.00
Rec177	339,451	5,322,591	Non-Participating	0.00	0.00
Rec178	328,747	5,318,946	Non-Participating	0.00	0.00
Rec179	332,758	5,311,456	Non-Participating	4.73	14.82
Rec180	328,871	5,318,950	Non-Participating	0.00	0.00
Rec181	328,745	5,319,225	Non-Participating	0.00	0.00
Rec182	325,735	5,311,305	Non-Participating	0.00	0.00
Rec183	320,662	5,309,174	Non-Participating	0.00	0.00
Rec184	338,560	5,316,574	Non-Participating	0.00	0.00
Rec185	333,470	5,321,150	Non-Participating	0.00	0.00
Rec186	320,781	5,305,510	Non-Participating	0.00	0.00
Rec187	328,811	5,319,071	Non-Participating	0.00	0.00
Rec188	325,424	5,324,521	Non-Participating	0.00	0.00
Rec189	334,014	5,311,187	Participating	14.48	25.15
Rec190	332,356	5,308,436	Non-Participating	0.00	2.93



Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec191	332,786	5,311,383	Non-Participating	5.35	18.83
Rec192	322,384	5,303,951	Non-Participating	0.00	0.00
Rec193	333,731	5,321,748	Non-Participating	0.00	0.00
Rec194	328,735	5,319,067	Non-Participating	0.00	0.00
Rec195	339,866	5,323,347	Non-Participating	0.00	0.00
Rec196	324,141	5,325,115	Non-Participating	0.00	0.00
Rec197	328,762	5,323,027	Non-Participating	0.00	0.00
Rec198	328,747	5,319,066	Non-Participating	0.00	0.00
Rec199	335,406	5,309,006	Non-Participating	0.00	0.00
Rec200	328,758	5,318,983	Non-Participating	0.00	0.00
Rec201	321,034	5,323,936	Non-Participating	0.00	0.00
Rec202	333,830	5,324,506	Non-Participating	0.00	0.00
Rec203	328,644	5,305,160	Non-Participating	0.00	0.00
Rec204	330,497	5,303,699	Non-Participating	0.00	0.00
Rec205	331,719	5,305,257	Non-Participating	0.00	0.00
Rec206	324,644	5,307,023	Non-Participating	0.00	0.00
Rec207	329,325	5,311,582	Non-Participating	0.00	0.00
Rec208	328,703	5,319,068	Non-Participating	0.00	0.00
Rec209	335,710	5,318,454	Non-Participating	0.00	0.00
Rec210	328,878	5,319,068	Non-Participating	0.00	0.00
Rec211	335,364	5,322,232	Non-Participating	0.00	0.00
Rec212	328,879	5,319,027	Non-Participating	0.00	0.00
Rec213	338,174	5,309,289	Non-Participating	0.00	0.00
Rec214	335,154	5,309,845	Non-Participating	0.00	0.00
Rec215	322,380	5,307,095	Non-Participating	0.00	0.00
Rec216	327,274	5,321,745	Non-Participating	0.00	0.00
Rec217	322,345	5,315,024	Non-Participating	0.00	0.00
Rec218	327,044	5,308,669	Non-Participating	7.53	13.62
Rec219	335,251	5,323,123	Non-Participating	0.00	0.00
Rec220	325,810	5,311,481	Non-Participating	0.00	0.00
Rec221	323,508	5,311,060	Non-Participating	0.00	0.00
Rec222	325,820	5,317,047	Non-Participating	0.00	0.00
Rec223	339,644	5,312,911	Non-Participating	0.00	0.00
Rec224	328,781	5,318,982	Non-Participating	0.00	0.00
Rec225	338,598	5,316,622	Non-Participating	0.00	0.00
Rec226	324,963	5,316,390	Non-Participating	0.00	0.00
Rec227	328,863	5,318,926	Non-Participating	0.00	0.00
Rec228	320,923	5,324,785	Non-Participating	0.00	0.00



Receptor ID	Easting [m]	Northing [m]	Participating Status	Shadow Flicker Duration [hours/year]	
				Existing Wind Turbines	Proposed Wind Turbines
Rec229	328,847	5,318,944	Non-Participating	0.00	0.00
Rec230	331,327	5,318,836	Non-Participating	0.00	0.00
Rec231	329,169	5,318,152	Non-Participating	10.62	17.52
Rec232	328,855	5,319,068	Non-Participating	0.00	0.00
Rec233	323,511	5,316,827	Non-Participating	0.00	0.00
Rec234	320,682	5,307,149	Non-Participating	0.00	0.00
Rec235	335,299	5,314,880	Non-Participating	0.00	0.00
Rec236	336,709	5,321,681	Non-Participating	0.00	0.00
Rec237	328,367	5,318,251	Non-Participating	0.00	0.00
Rec238	329,005	5,319,255	Non-Participating	0.00	0.00
Rec239	331,318	5,316,516	Non-Participating	0.00	0.00
Rec240	328,762	5,322,369	Non-Participating	0.00	0.00
Rec241	325,624	5,324,580	Non-Participating	0.00	0.00
Rec242	331,830	5,309,845	Non-Participating	0.00	2.45
Rec243	328,812	5,319,031	Non-Participating	0.00	0.00
Rec244	328,679	5,319,057	Non-Participating	0.00	0.00
Rec245	337,239	5,311,456	Non-Participating	0.00	0.00
Rec246	320,899	5,321,562	Non-Participating	0.00	0.00
Rec247	332,564	5,324,761	Non-Participating	0.00	0.00
Rec248	321,059	5,321,483	Non-Participating	0.00	0.00
Rec249	320,430	5,321,763	Non-Participating	0.00	0.00
Rec250	327,897	5,306,150	Non-Participating	0.00	0.00

Notes:

[1] Coordinates presented in UTM NAD83 Zone 14N (meters)

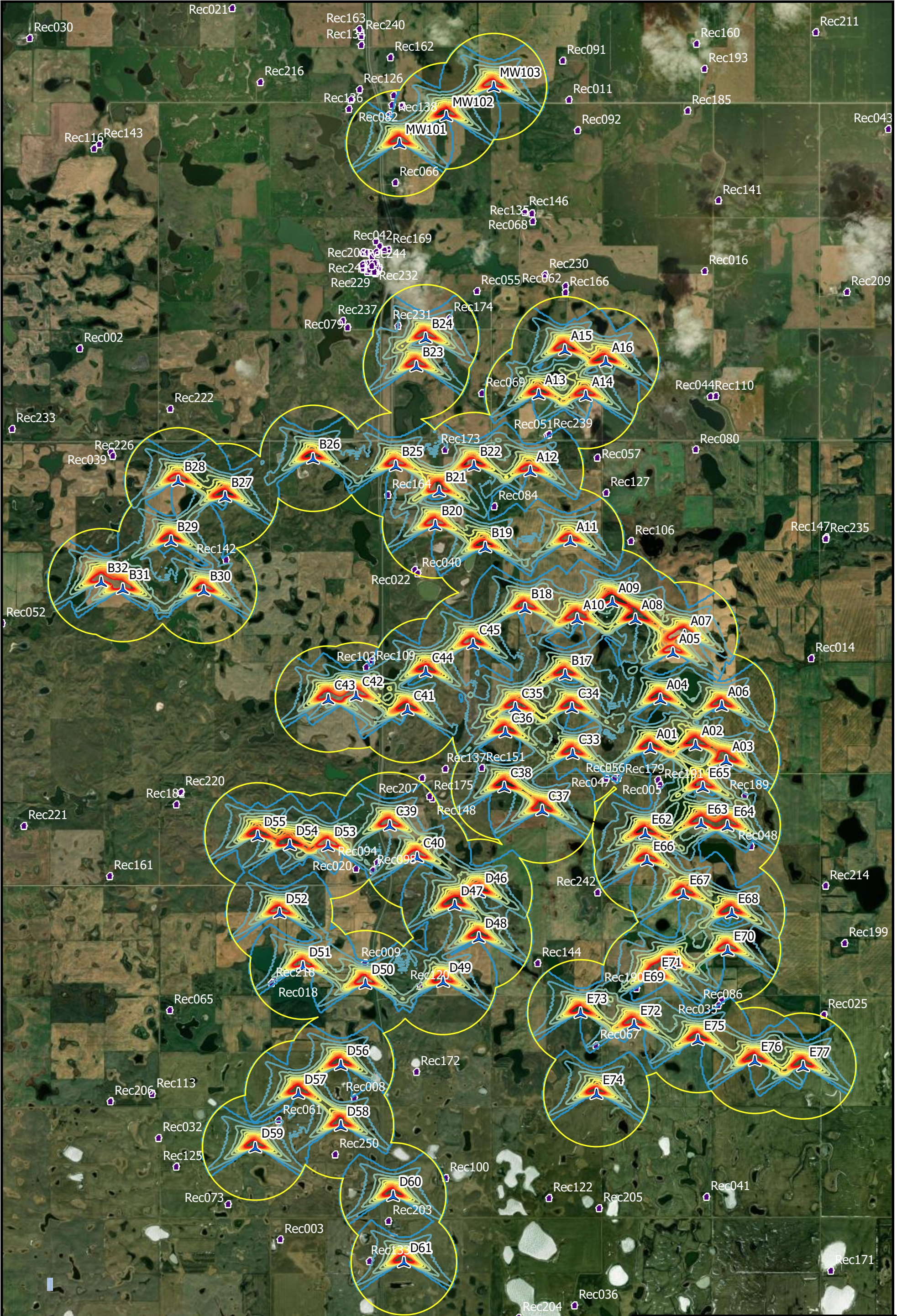
[2] Coordinates provided by Developer via "20250217_RECEPTORS.shp" on February 25, 2026

[3] Participating status provided by Developer via "Participating_Landowners.shp" and "Landowner_Subset.shp" on March 10, 2026

[4] Results based on wind turbine layout in Table A-1



Appendix C - Shadow Flicker Duration Map



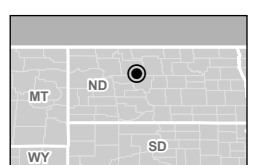
LEGEND

- Existing Turbines
- Receptors
- Turbine Buffer (10 x RD - 770m)

REFERENCE

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MILES

0 0.85 1.7
KILOMETERS

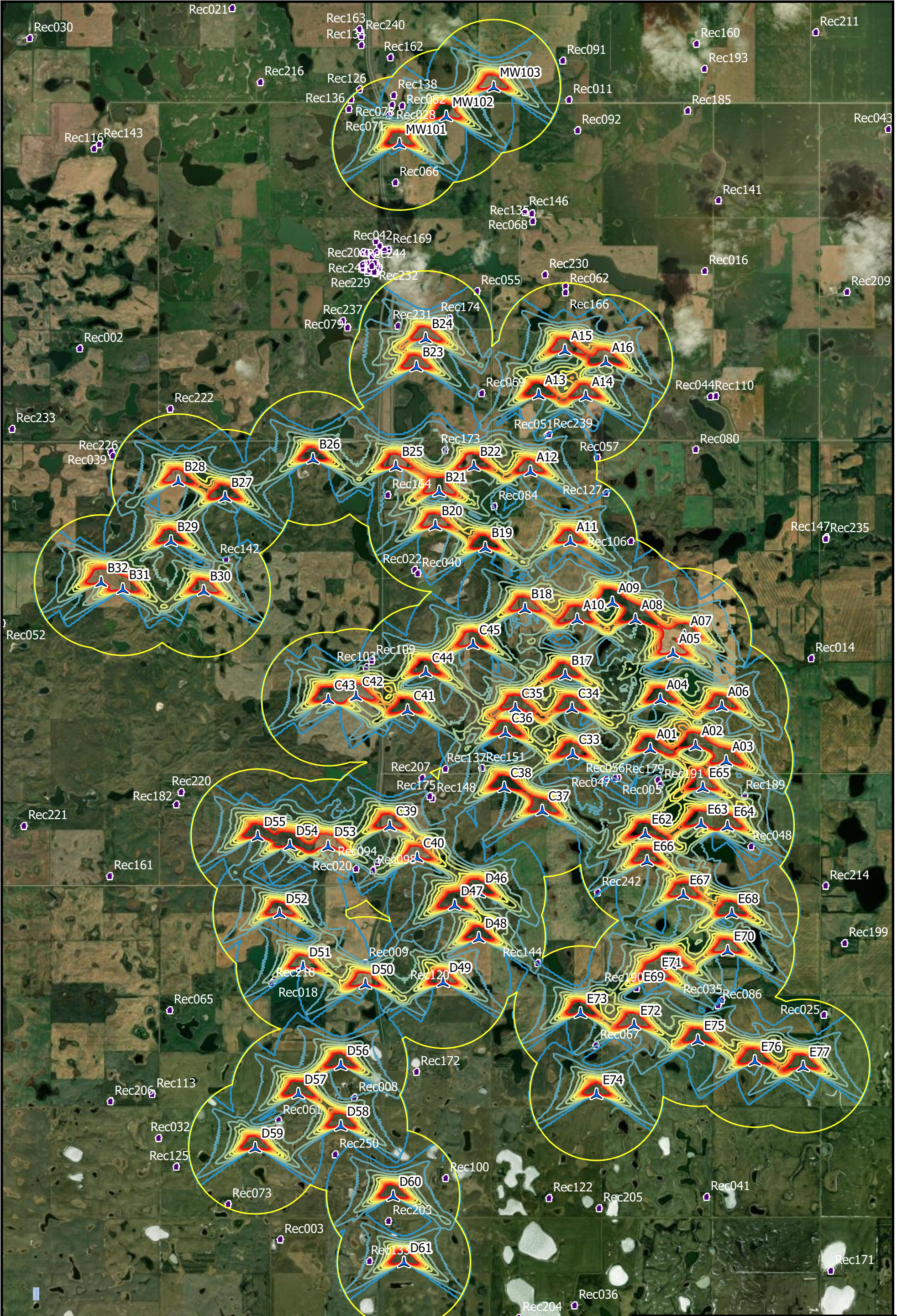


PRELIMINARY
NOT FOR CONSTRUCTION

BASIN PRAIRIE WIND PROJECT - EXISTING
Shadow Flicker Duration [Hr/Yr]

LOCATION:	WARD COUNTY, ND
CLIENT:	BASIN ELECTRIC POWER COOPERATIVE
PROJ. NO.:	195615
CREATED:	04/14/2026

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LEGEND

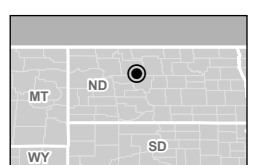
- Proposed Turbines
- Receptors
- Turbine Buffer (10 x RD - 970m)

REFERENCE

0 0.9 1.8
MILES

0 0.85 1.7
KILOMETERS

N



PRELIMINARY
NOT FOR CONSTRUCTION

BASIN PRAIRIE WIND PROJECT - PROPOSED
Shadow Flicker Duration [Hr/Yr]

LOCATION: WARD COUNTY, ND

CLIENT: BASIN ELECTRIC POWER COOPERATIVE

PROJ. NO.: 195615

CREATED: 04/14/2026

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Appendix D - Shadow Flicker Calendar

Figure D-1: Shadow Flicker Calendar (Existing)



Project:

Prairie_Wind

Description:

Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

Licensed user:

1898 & Co., Part of Burns & McDonnell
9400 Ward Parkway
US-KANSAS CITY, MO 64114
816 448 7338
Anna Jordan / anna.jordan@1898andco.com

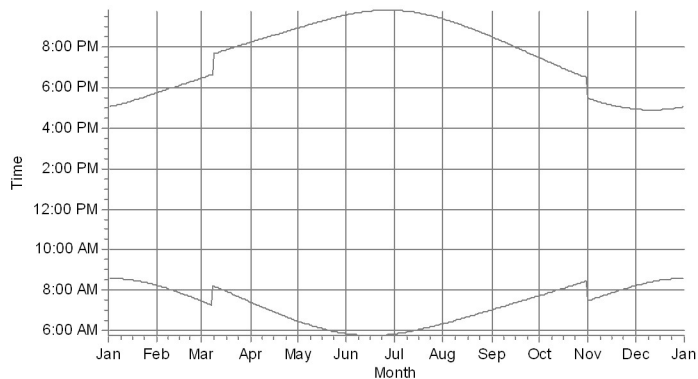
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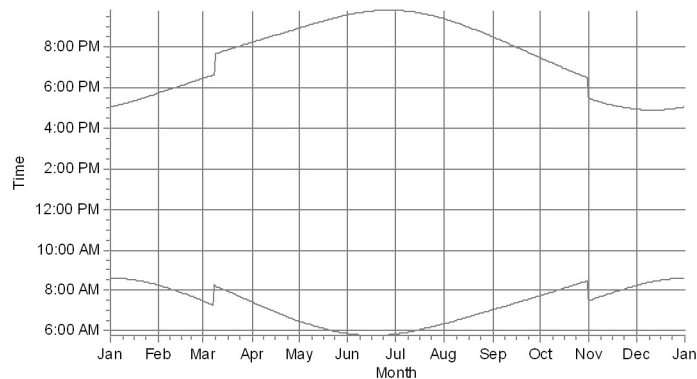
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

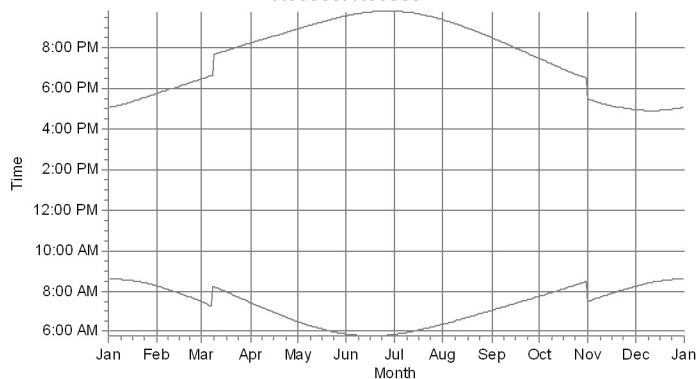
Rec001: Rec001



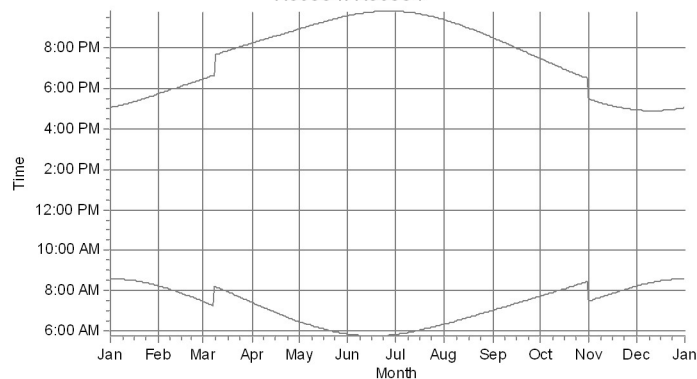
Rec002: Rec002



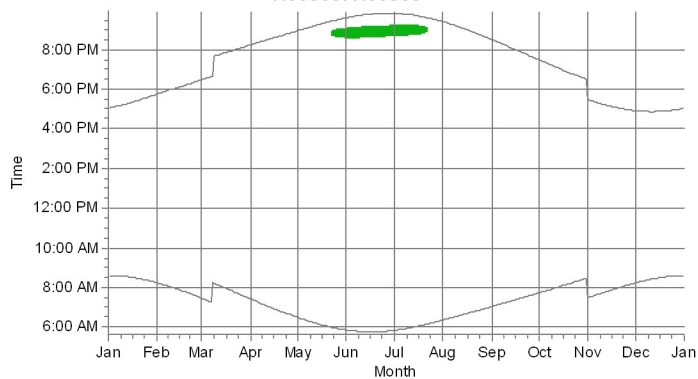
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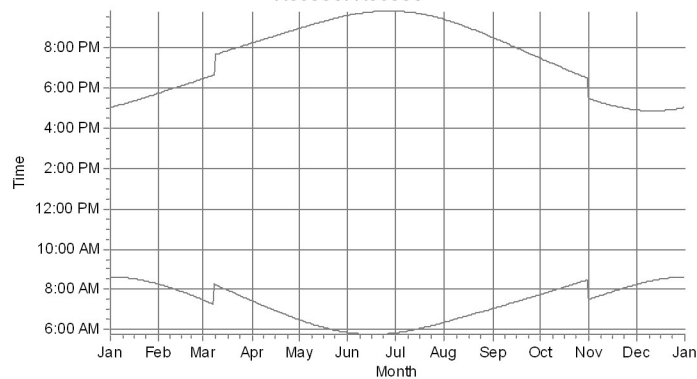
Rec004: Rec004



Rec005: Rec005



Rec006: Rec006



WTGs

C33: C33

Project:

Prairie_Wind

Description:

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US-KANSAS CITY, MO 64114
816 448 7338
Anna Jordan / anna.jordan@1898andco.com

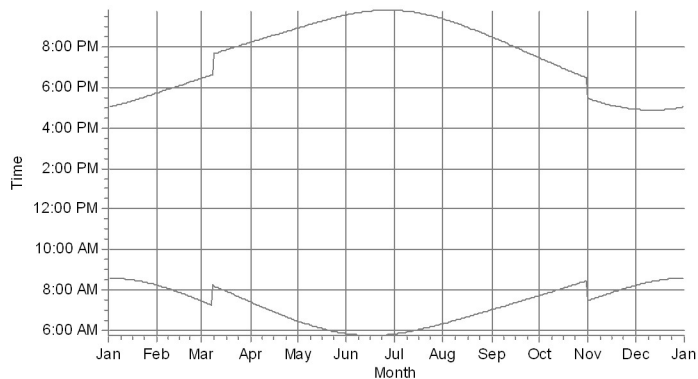
Calculated:

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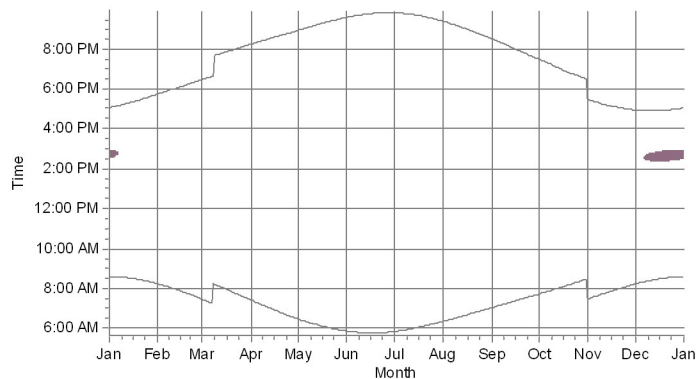
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

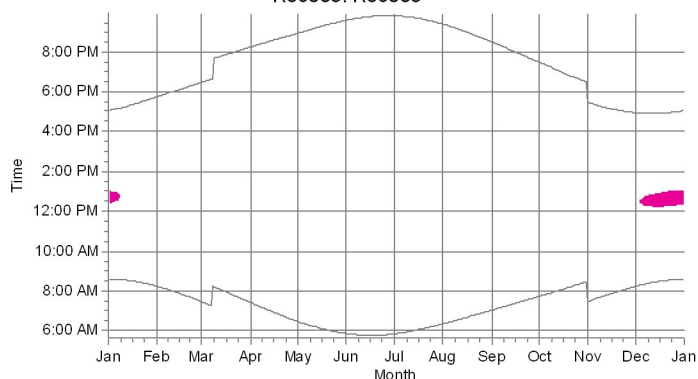
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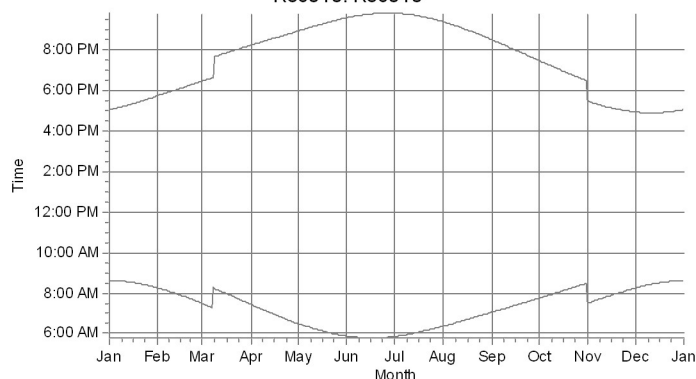
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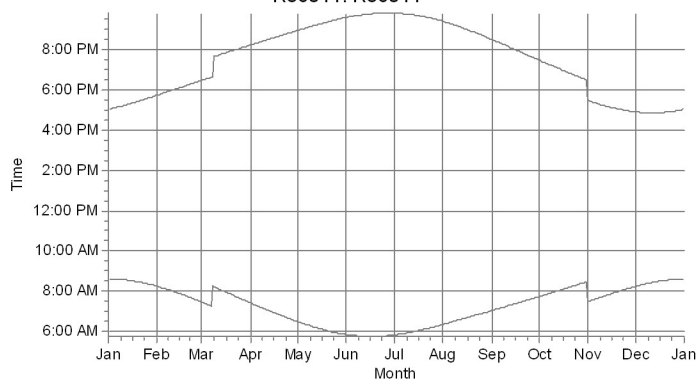
Rec009: Rec009



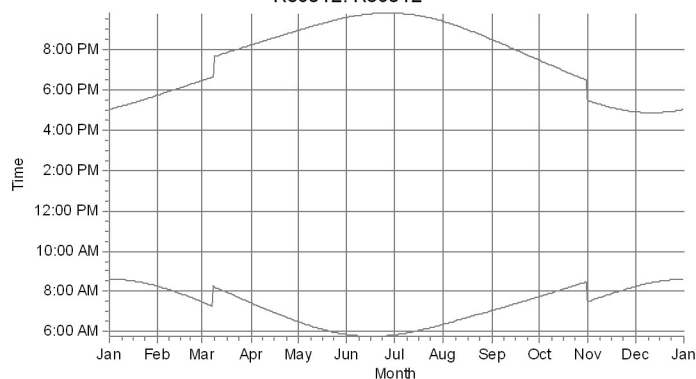
Rec010: Rec010



Rec011: Rec011



Rec012: Rec012



WTGs

D50: D50

D58: D58

Project:

Prairie_Wind

Description:

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816 448 7338
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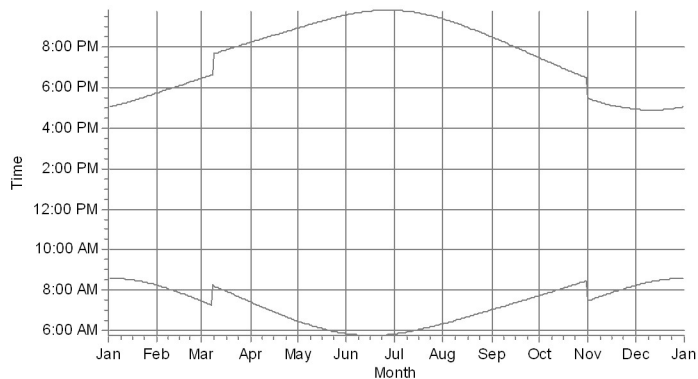
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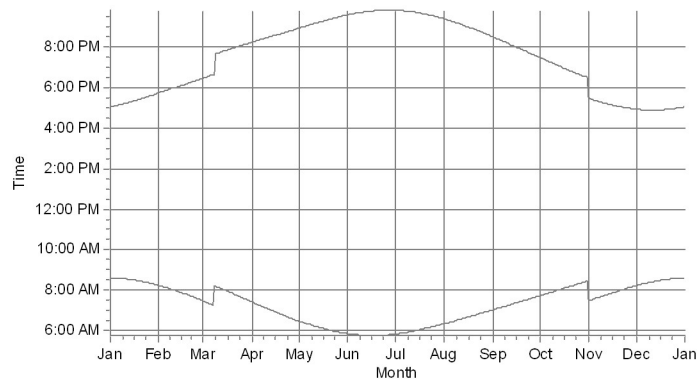
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

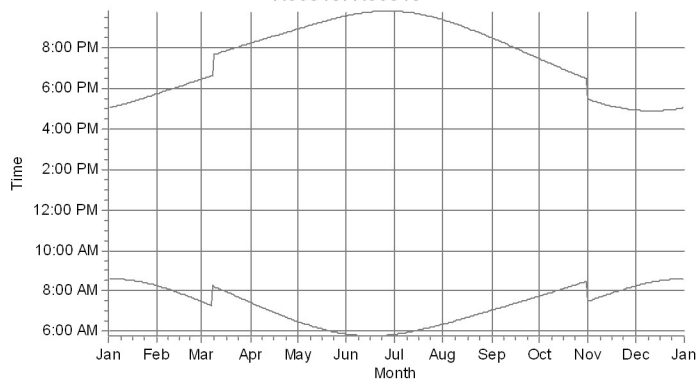
Rec013: Rec013



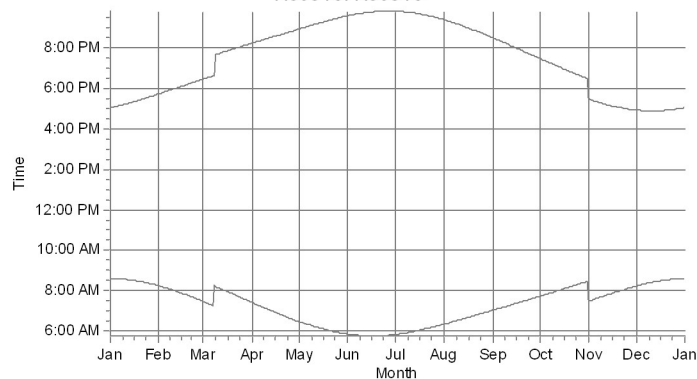
Rec014: Rec014



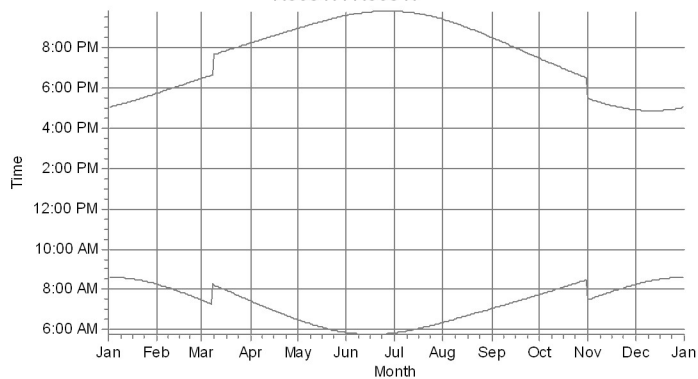
Rec015: Rec015



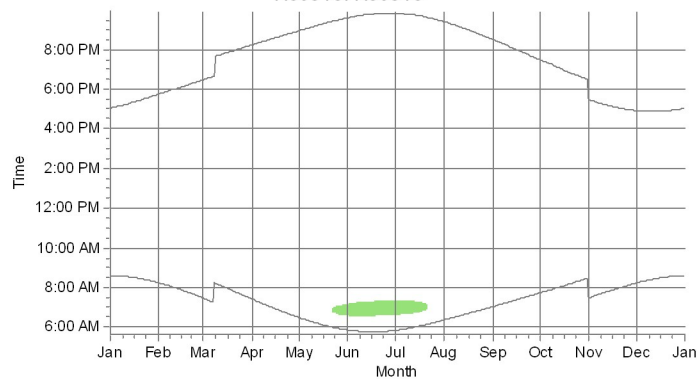
Rec016: Rec016



Rec017: Rec017



Rec018: Rec018



WTGs

D51: D51

Project:

Prairie_Wind

Description:

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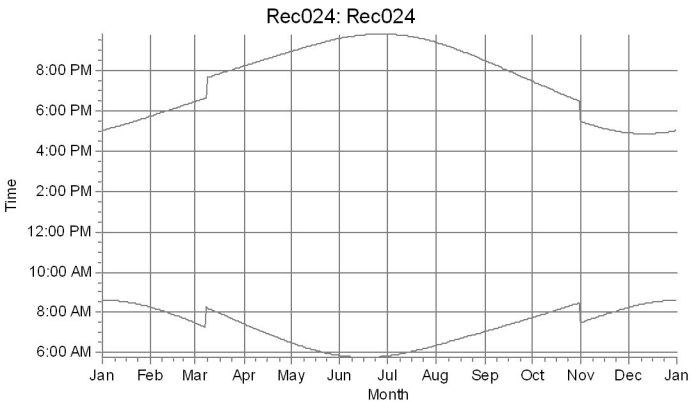
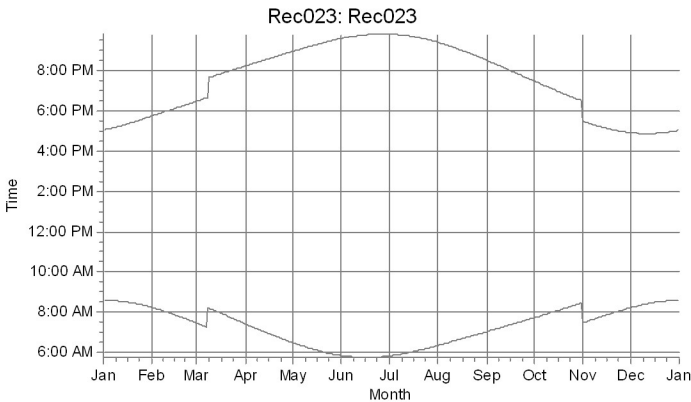
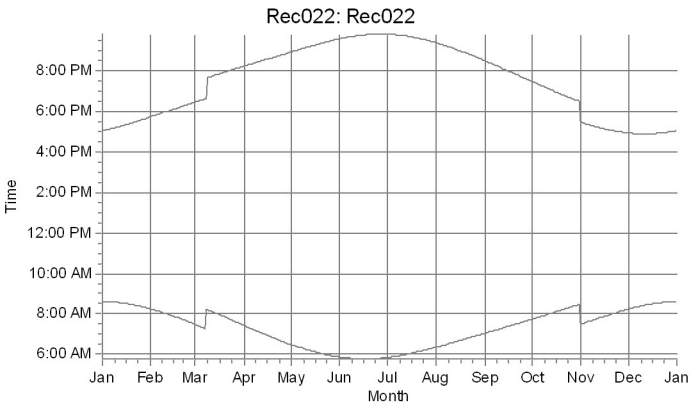
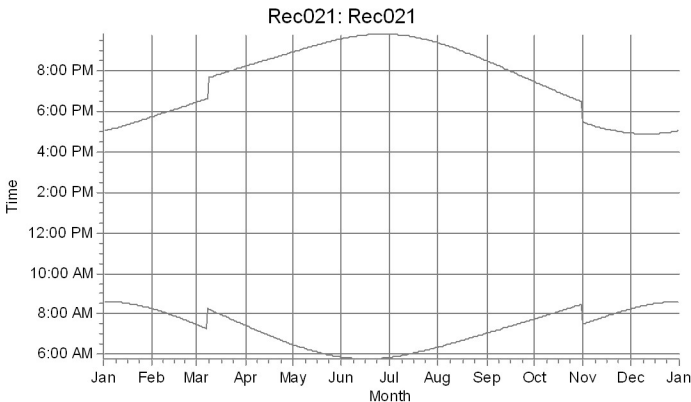
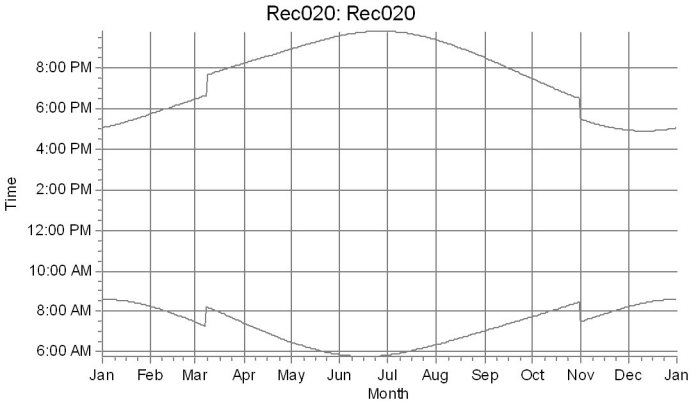
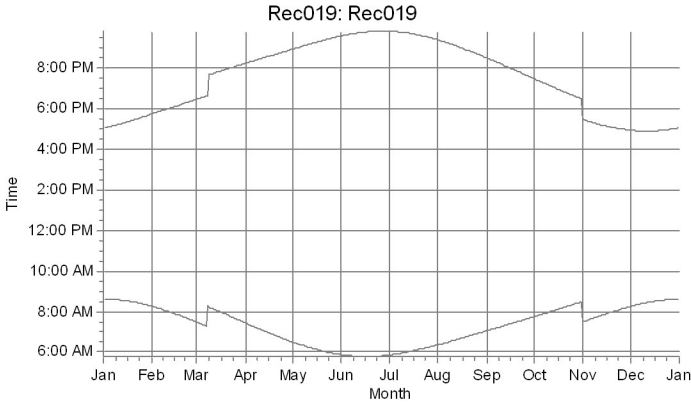
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US-KANSAS CITY, MO 64114
816 448 7338
Anna Jordan / anna.jordan@1898andco.com

Calculated:

3/11/2026 2:22 PM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

Project:

Prairie_Wind

Description:

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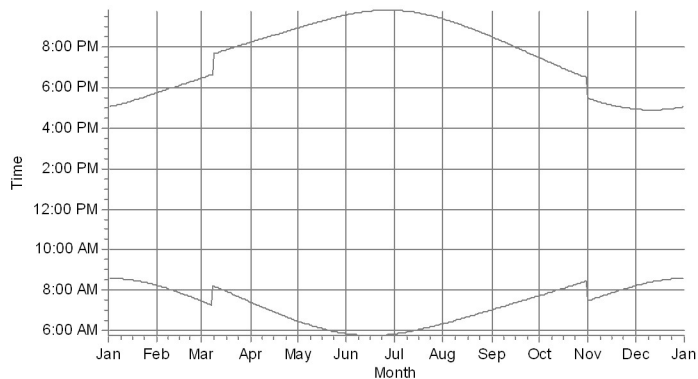
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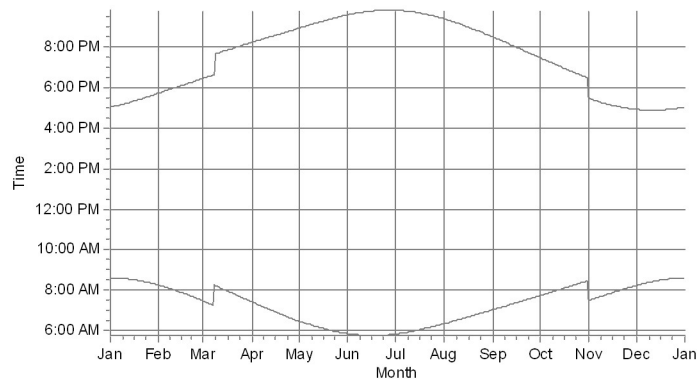
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

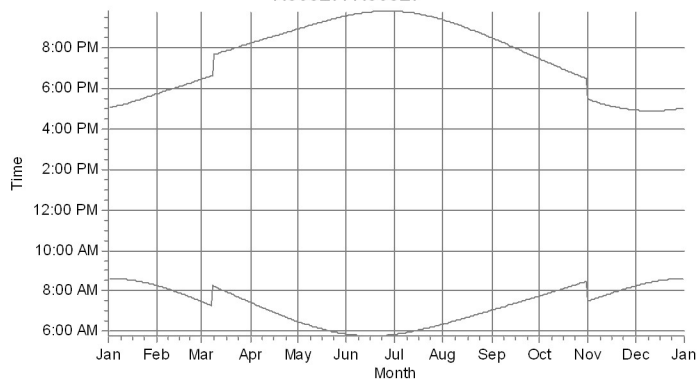
Rec025: Rec025



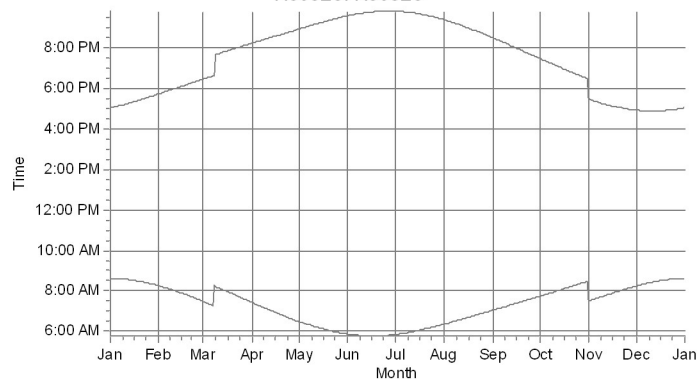
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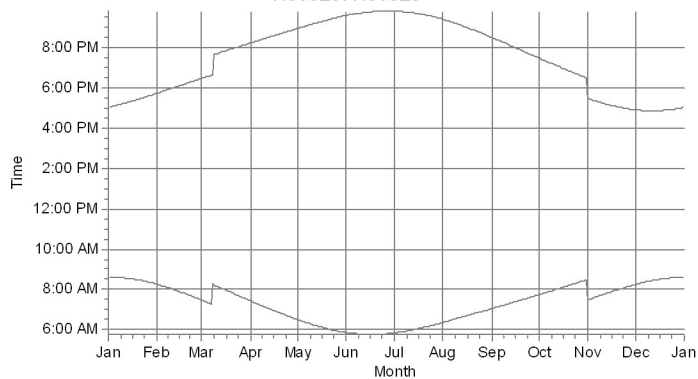
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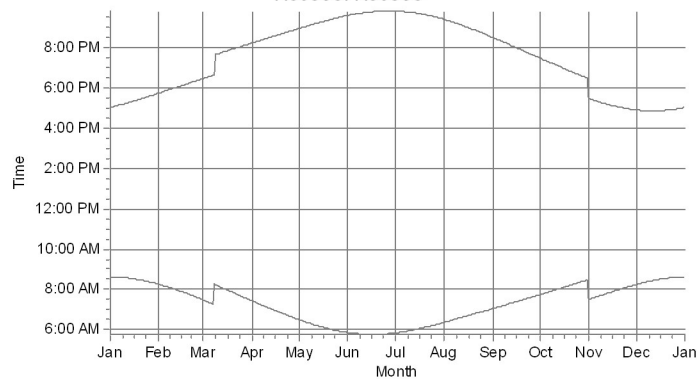
Rec028: Rec028



Rec029: Rec029



Rec030: Rec030



WTGs

Project:

Prairie_Wind

Description:

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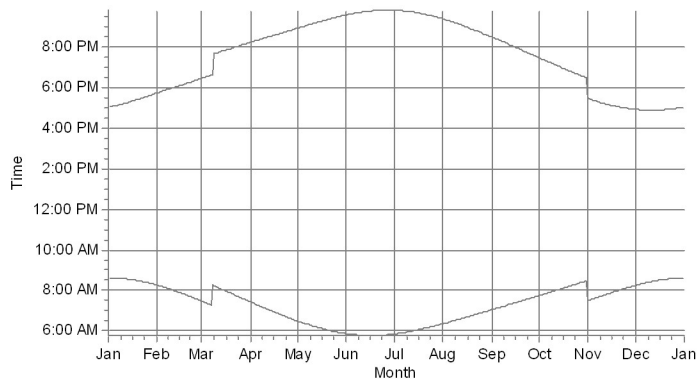
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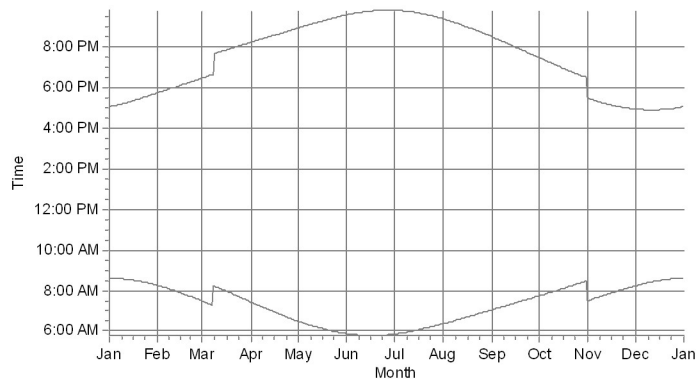
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

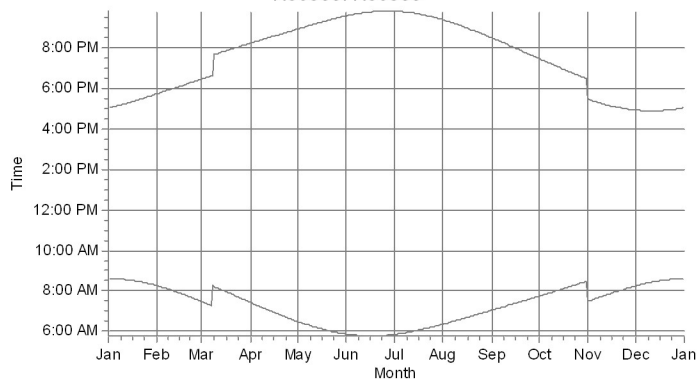
Rec031: Rec031



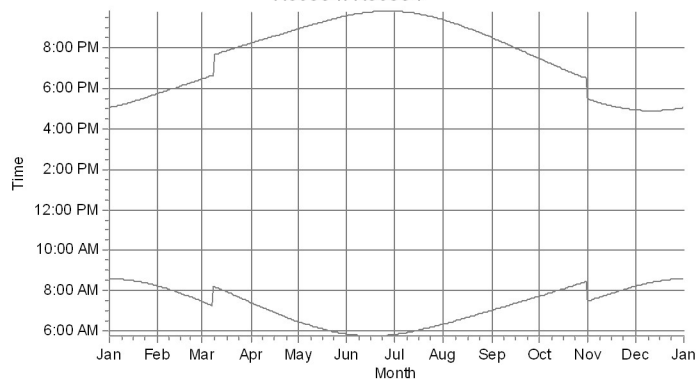
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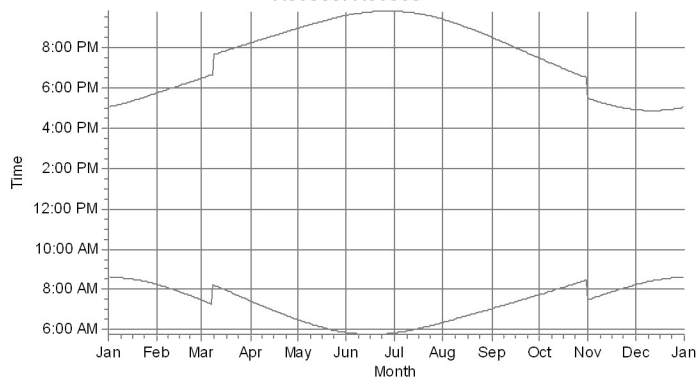
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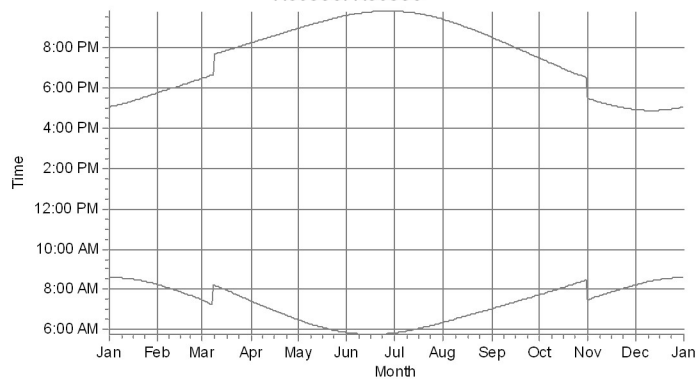
Rec034: Rec034



Rec035: Rec035



Rec036: Rec036



WTGs

Project:

Prairie_Wind

Description:

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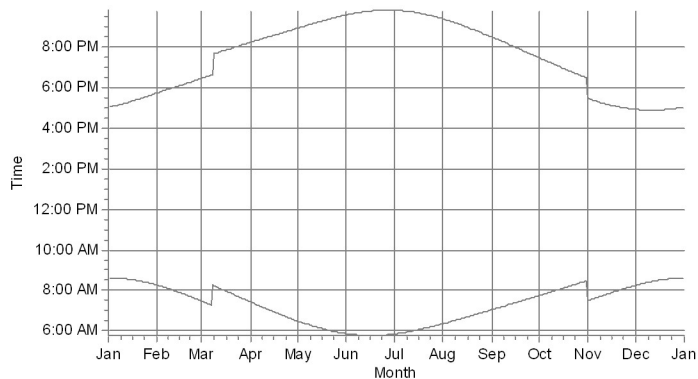
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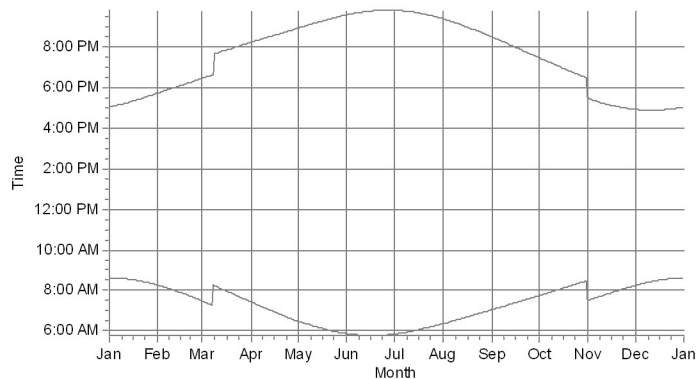
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

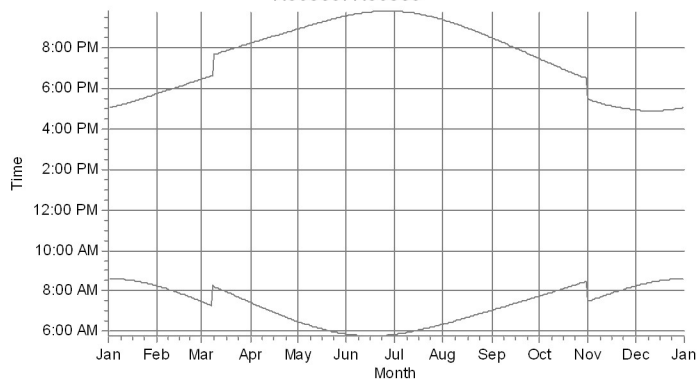
Rec037: Rec037



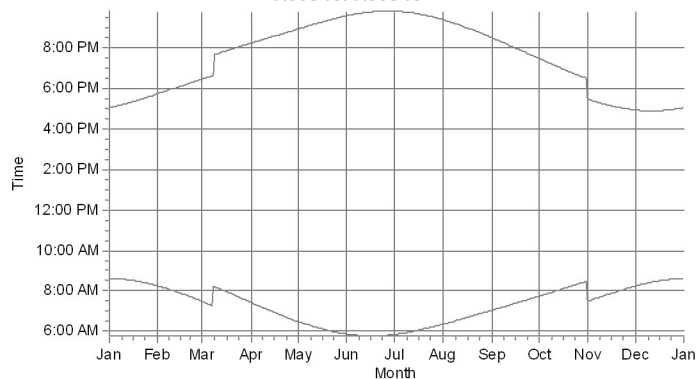
Rec038: Rec038



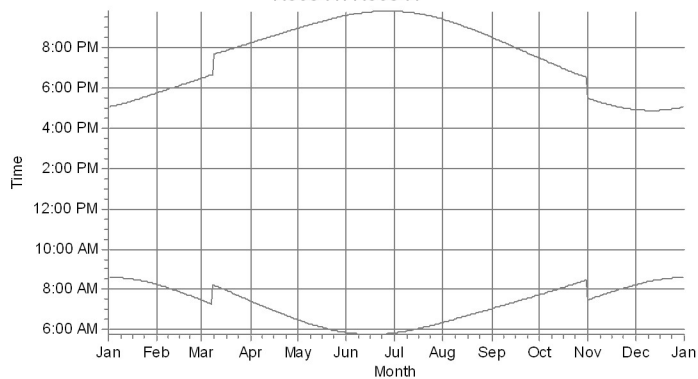
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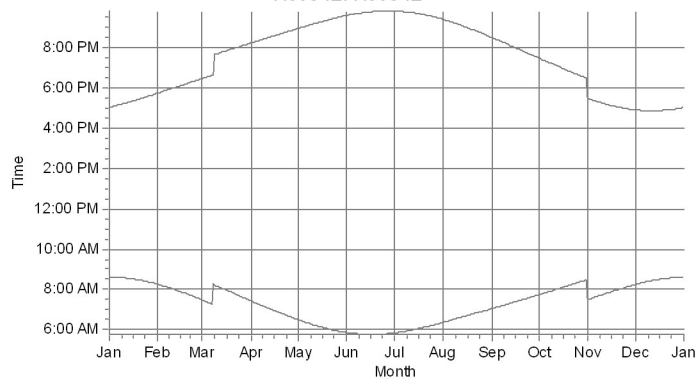
Rec040: Rec040



Rec041: Rec041



Rec042: Rec042



WTGs

Project:

Prairie_Wind

Description:

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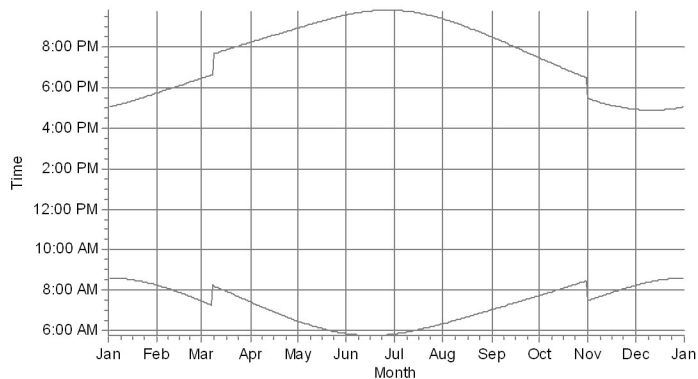
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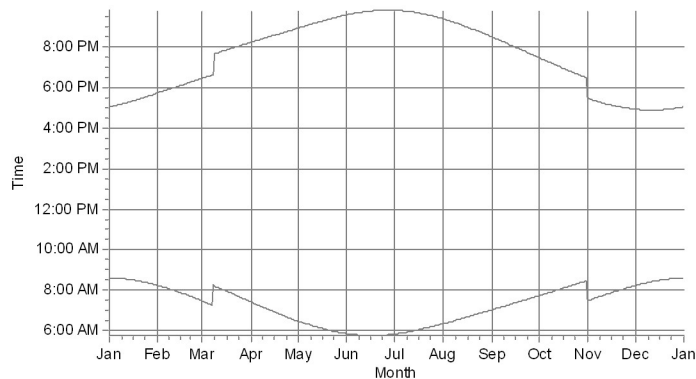
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

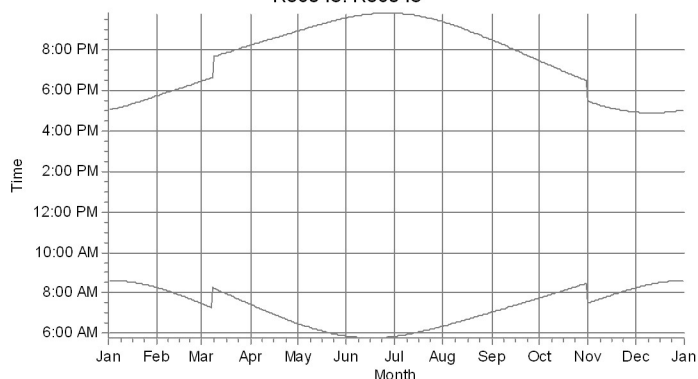
Rec043: Rec043



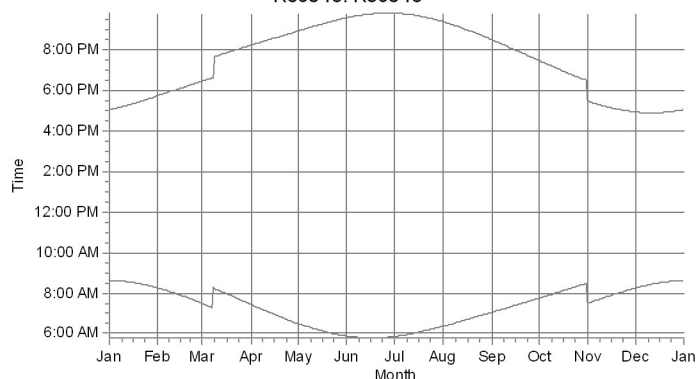
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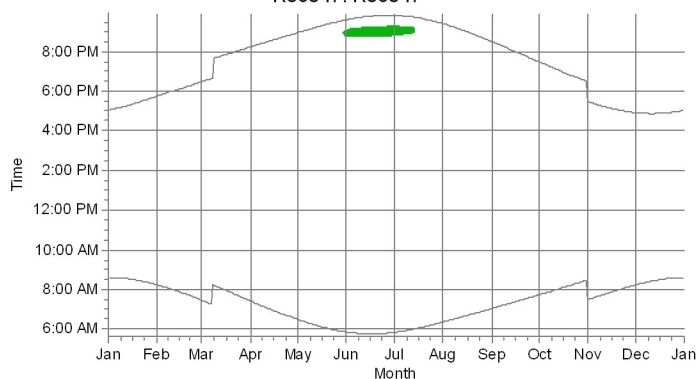
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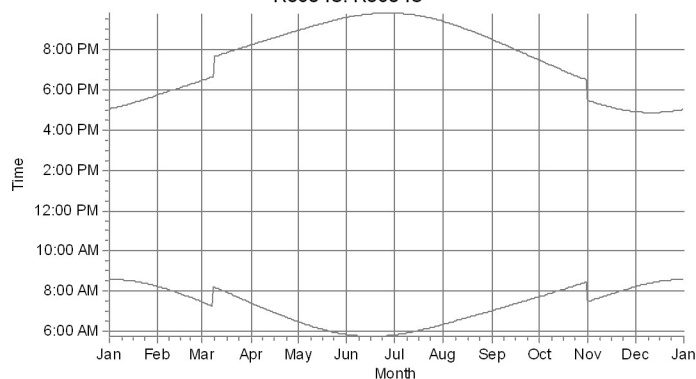
Rec046: Rec046



Rec047: Rec047



Rec048: Rec048



WTGs

C33: C33

Project:

Prairie_Wind

Description:

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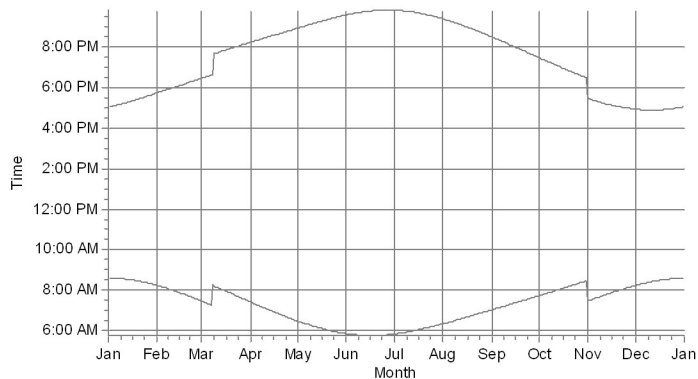
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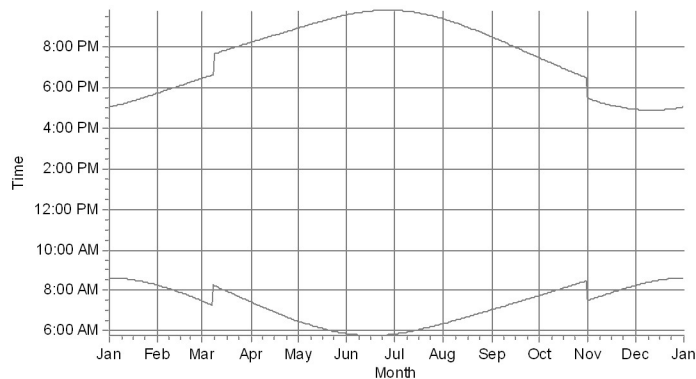
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

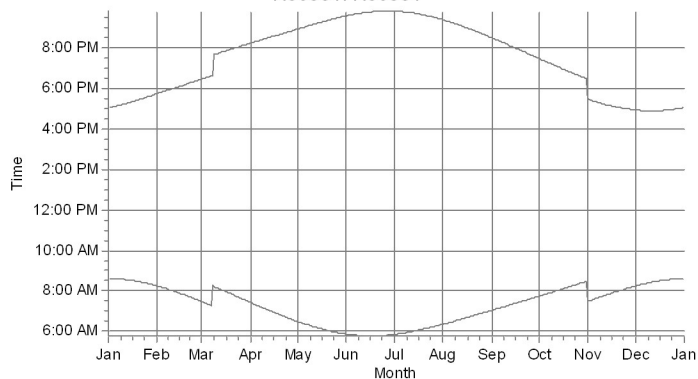
Rec049: Rec049



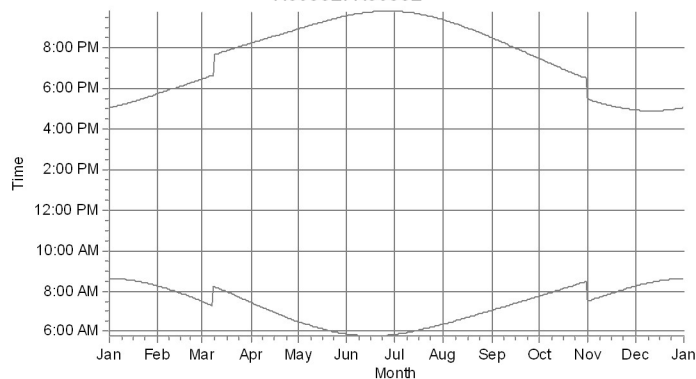
Rec050: Rec050



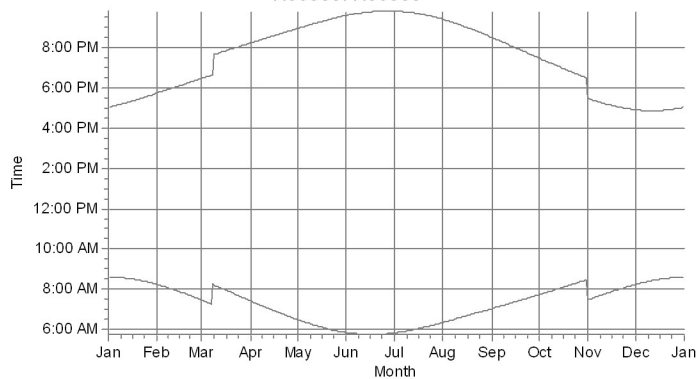
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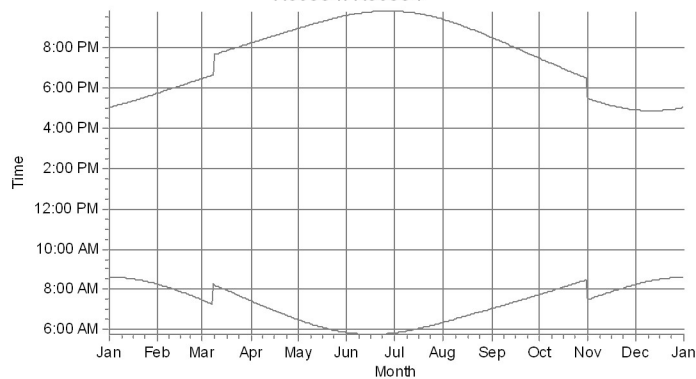
Rec052: Rec052



Rec053: Rec053



Rec054: Rec054



WTGs

Project:

Prairie_Wind

Description:

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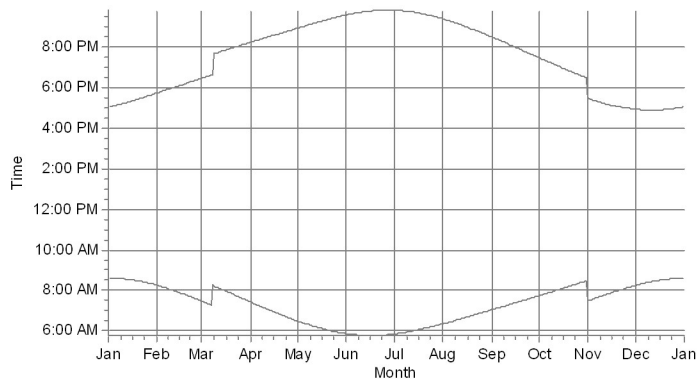
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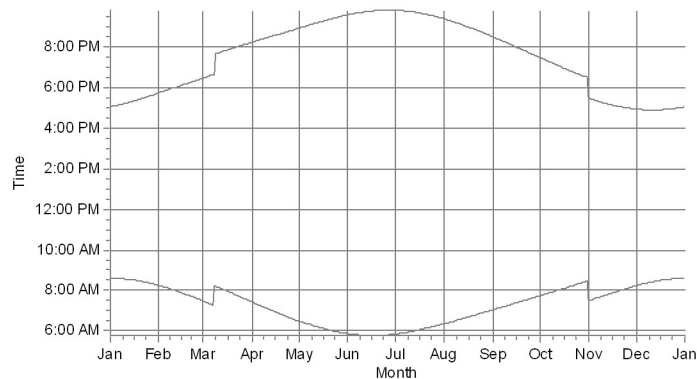
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

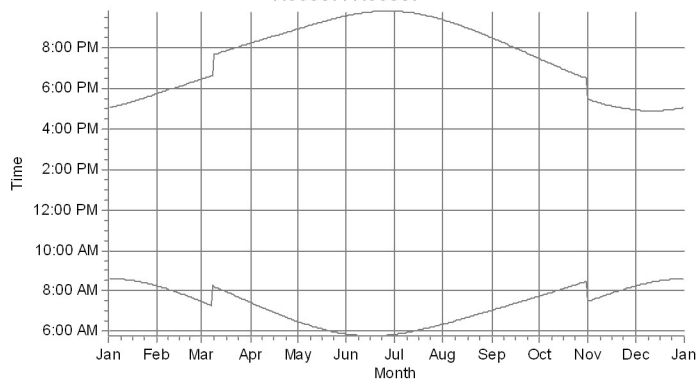
Rec055: Rec055



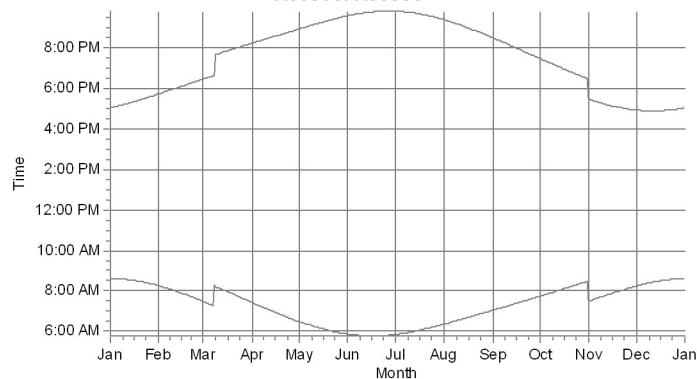
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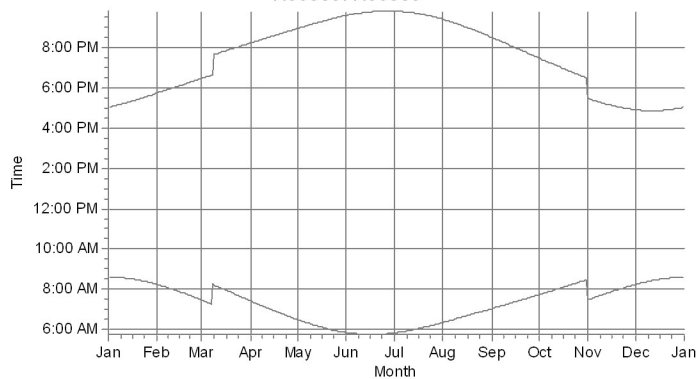
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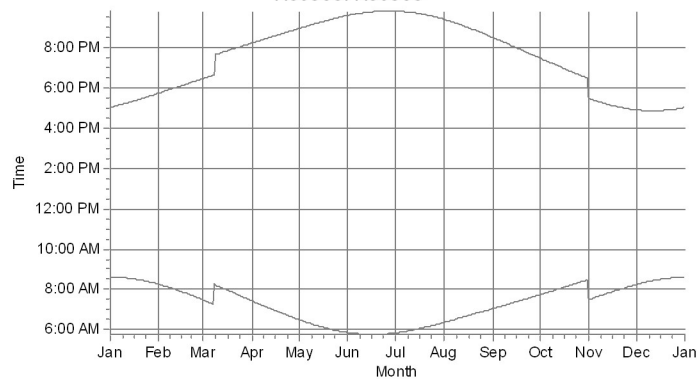
Rec058: Rec058



Rec059: Rec059



Rec060: Rec060



WTGs

Project:

Prairie_Wind

Description:

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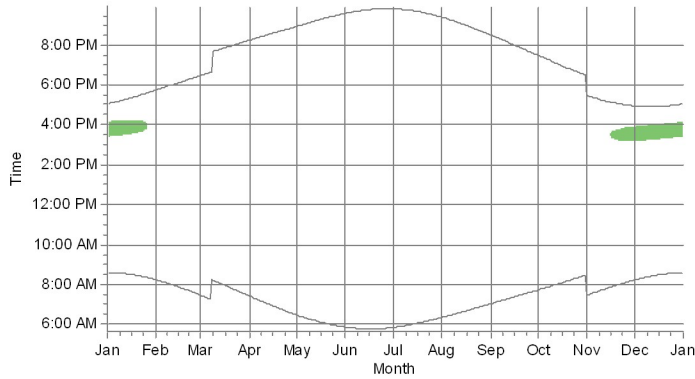
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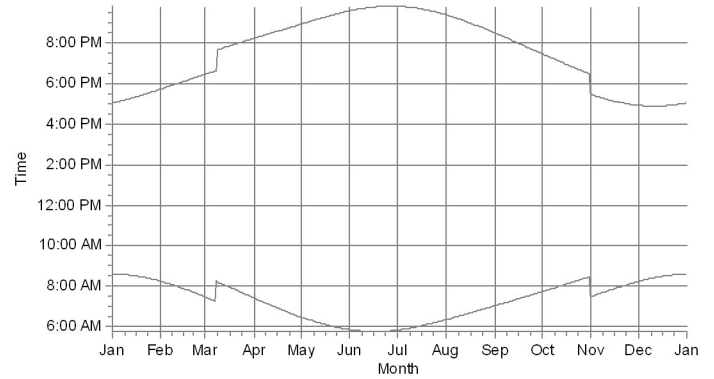
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

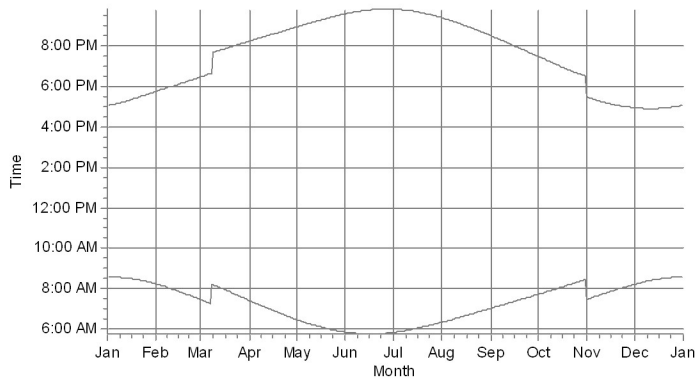
Rec061: Rec061



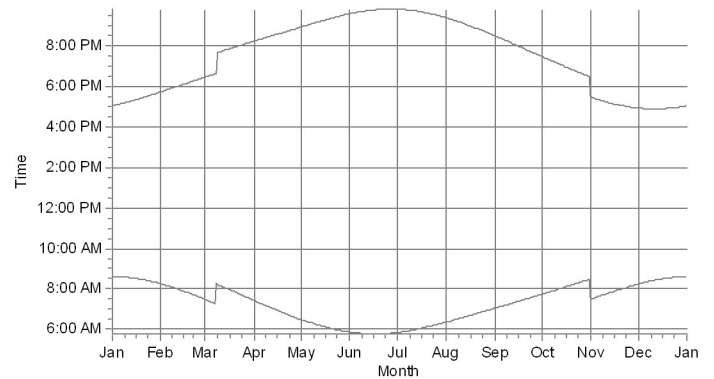
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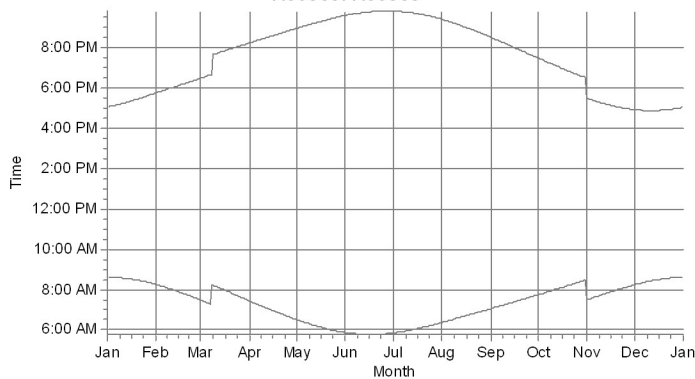
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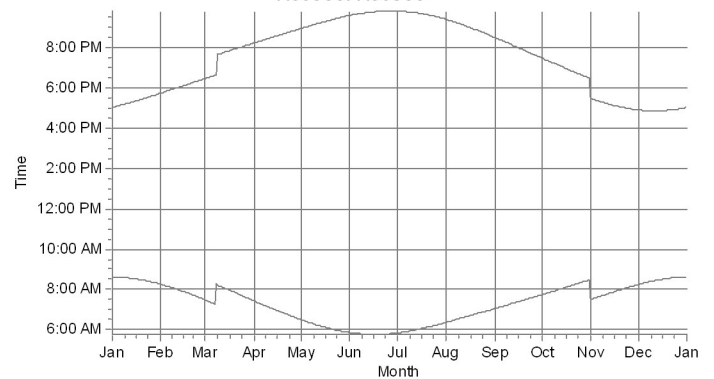
Rec064: Rec064



Rec065: Rec065



Rec066: Rec066



WTGs

D59: D59

Project:

Prairie_Wind

Description:

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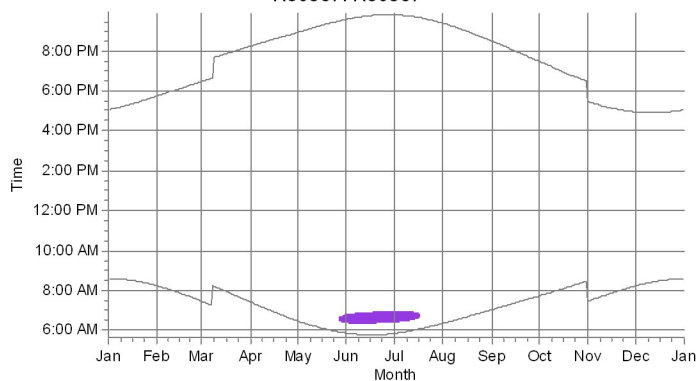
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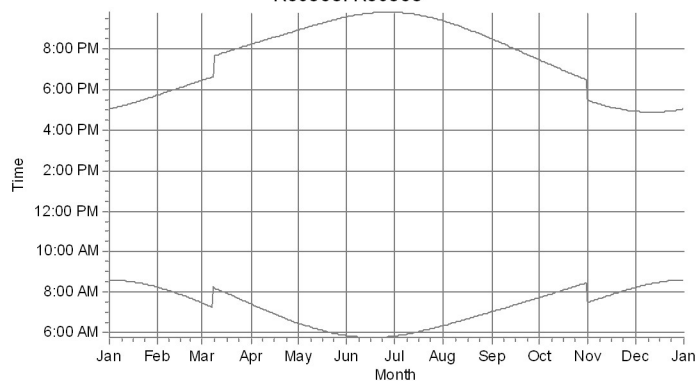
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

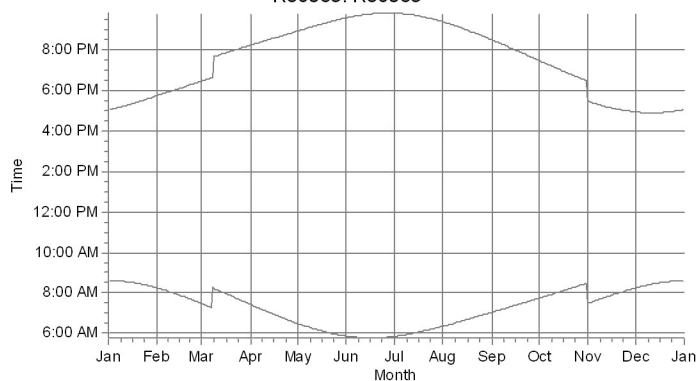
Rec067: Rec067



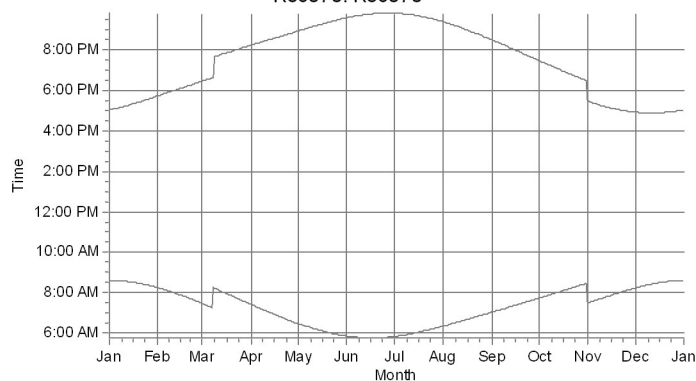
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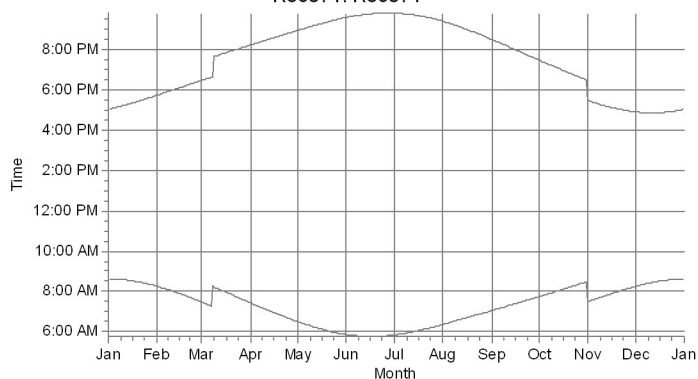
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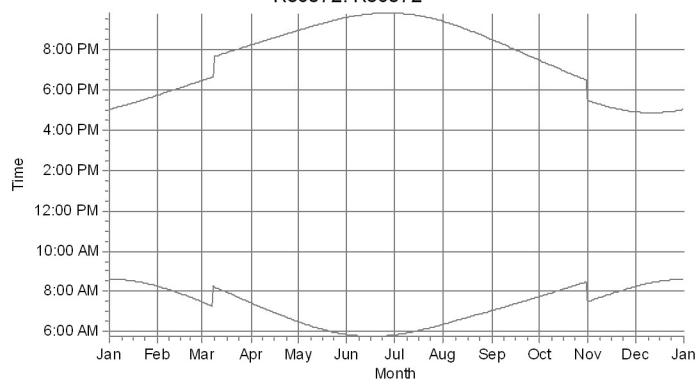
Rec070: Rec070



Rec071: Rec071



Rec072: Rec072



WTGs

E72: E72

Project:

Prairie_Wind

Description:

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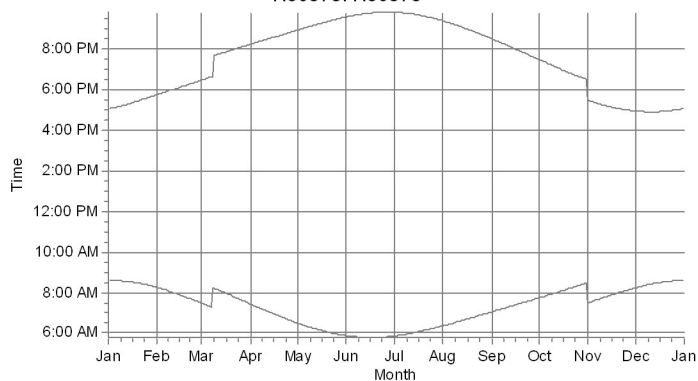
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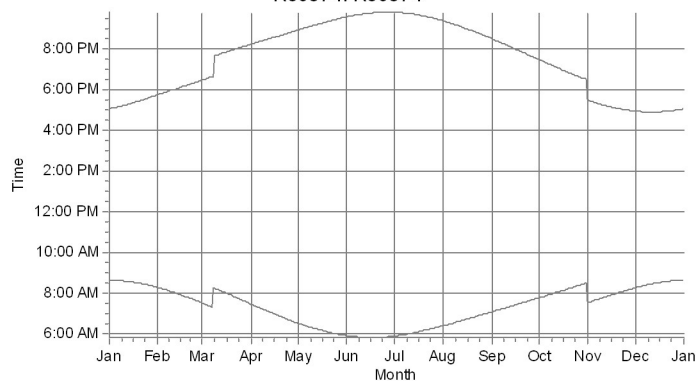
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

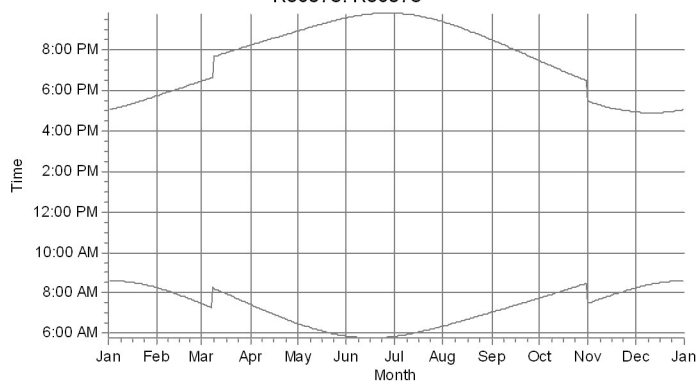
Rec073: Rec073



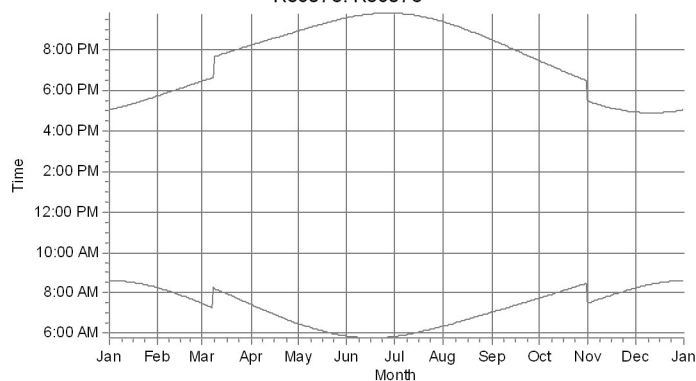
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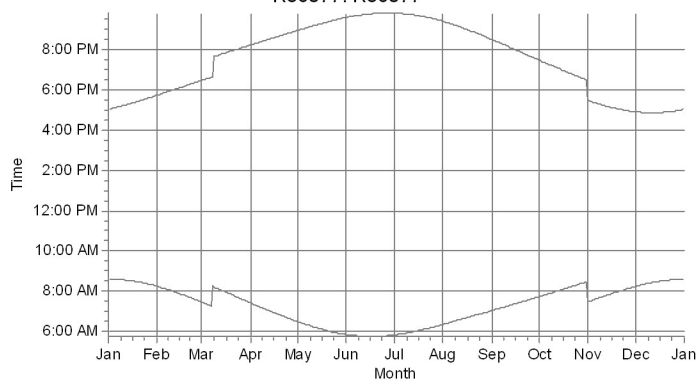
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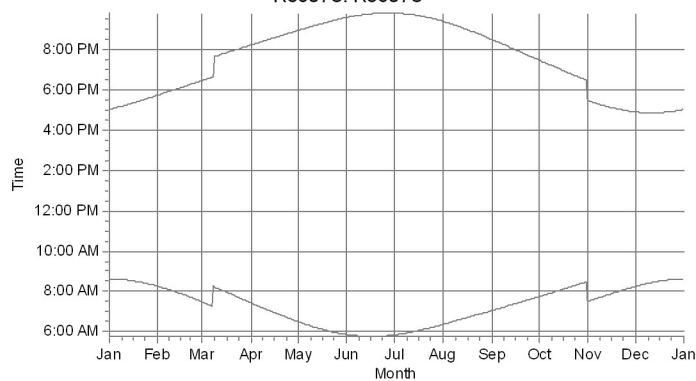
Rec076: Rec076



Rec077: Rec077



Rec078: Rec078



WTGs

Project:

Prairie_Wind

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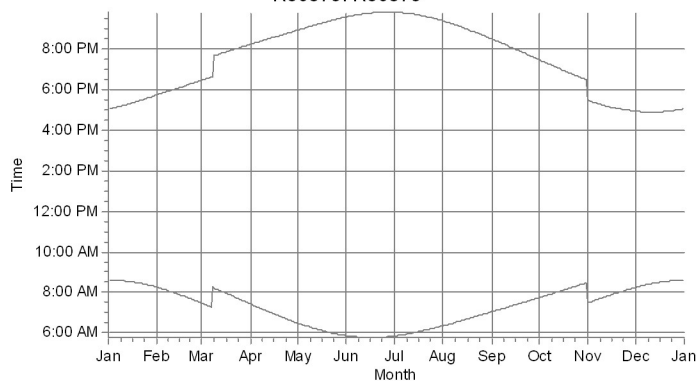
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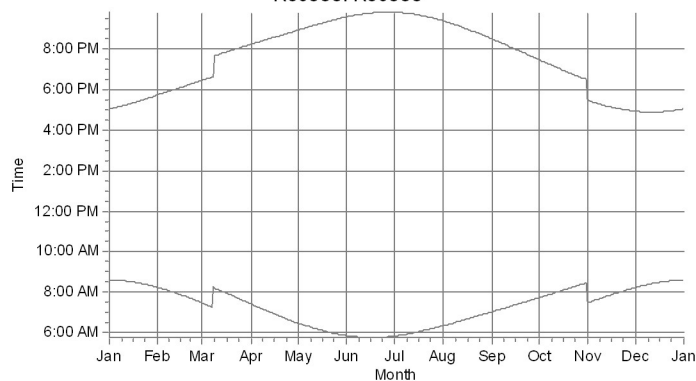
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

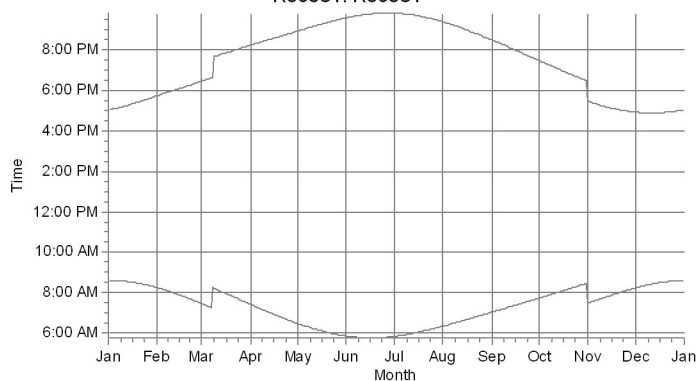
Rec079: Rec079



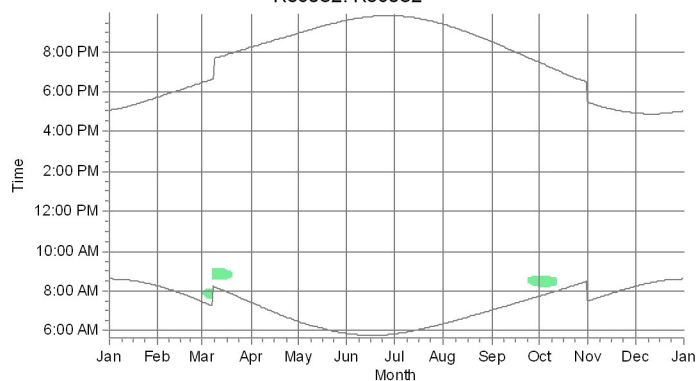
Rec080: Rec080



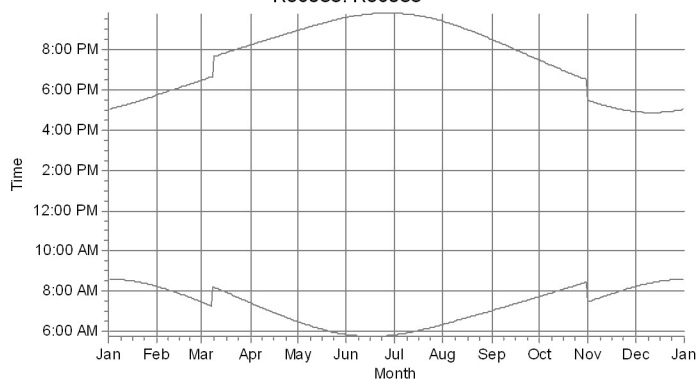
Rec081: Rec081



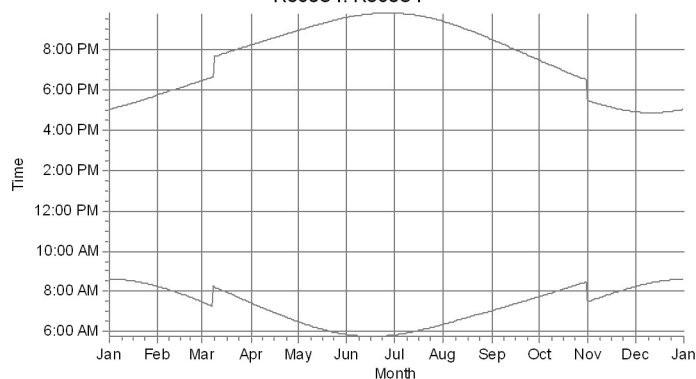
Rec082: Rec082



Rec083: Rec083



Rec084: Rec084



WTGs

MW102: MW102

Project:

Prairie_Wind

Description:

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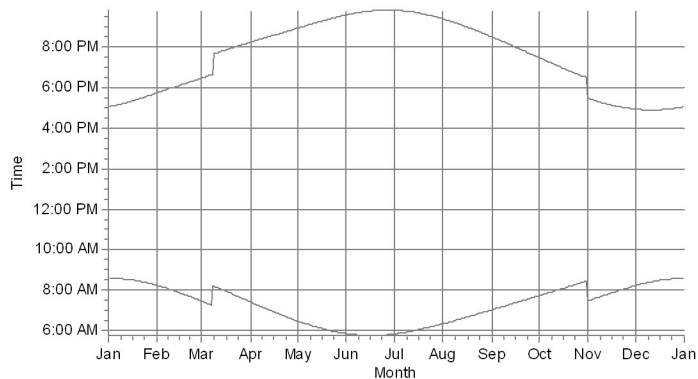
Calculated:

3/11/2026 2:22 PM/4.2.285

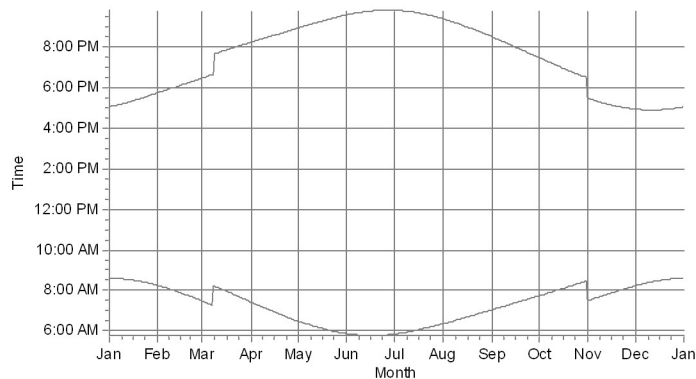
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

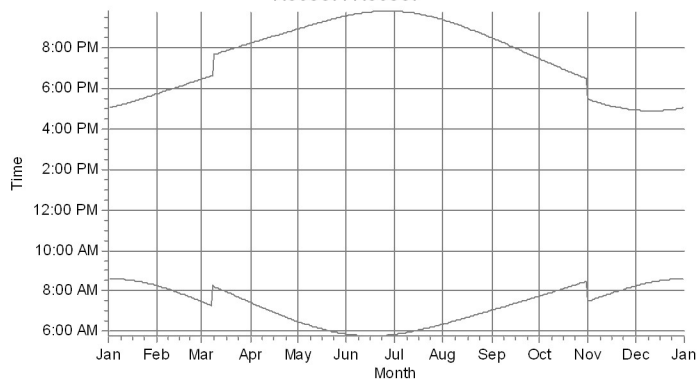
Rec085: Rec085



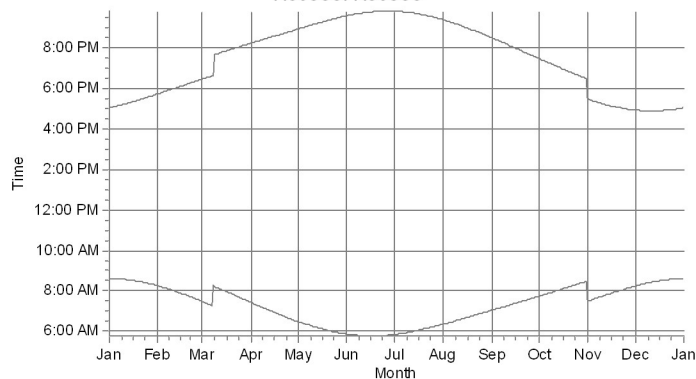
Rec086: Rec086



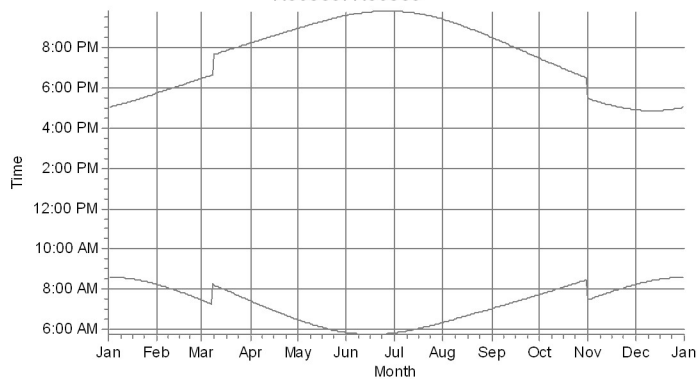
Rec087: Rec087



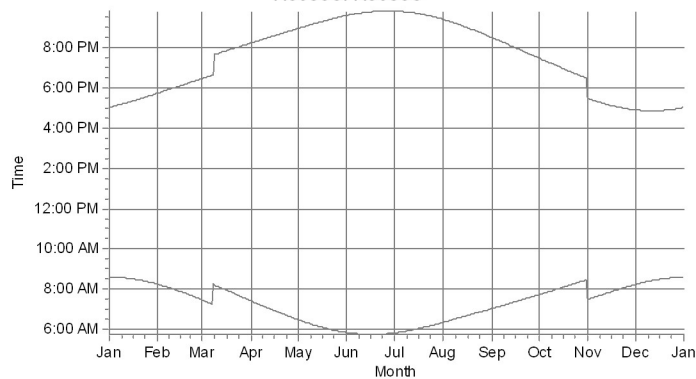
Rec088: Rec088



Rec089: Rec089



Rec090: Rec090



WTGs

Project:

Prairie_Wind

Description:

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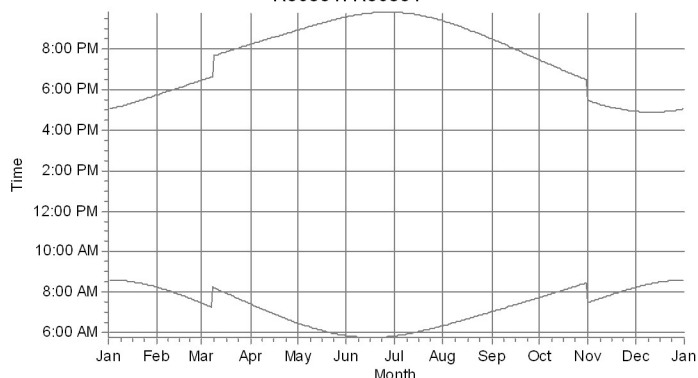
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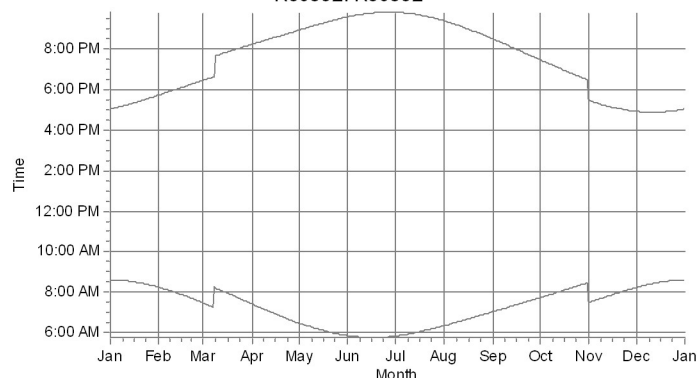
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

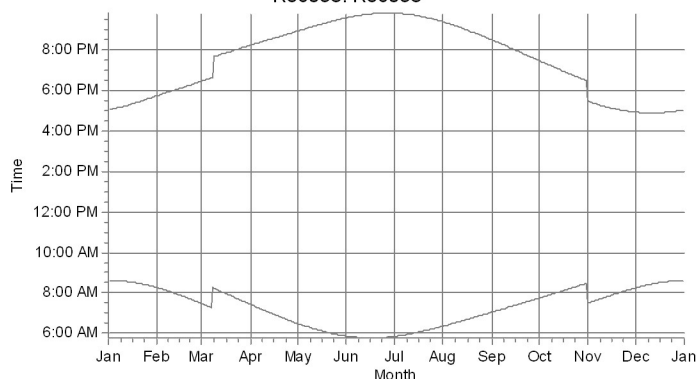
Rec091: Rec091



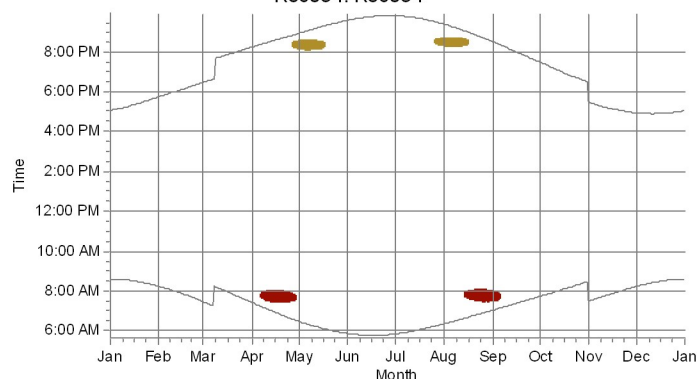
Rec092: Rec092



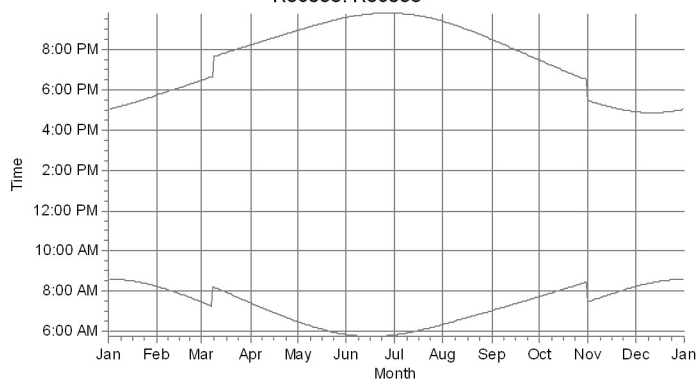
Rec093: Rec093



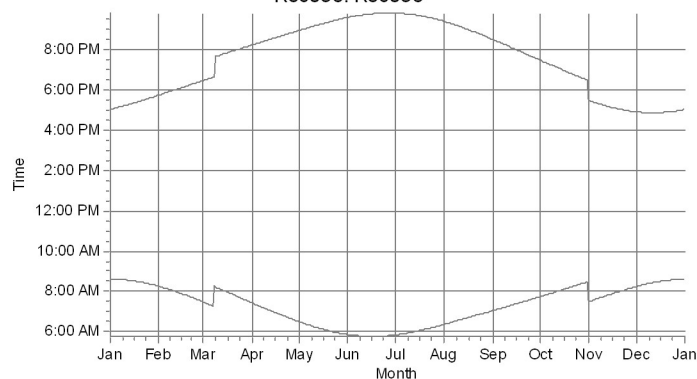
Rec094: Rec094



Rec095: Rec095



Rec096: Rec096



WTGs

C40: C40

D53: D53

Project:

Prairie_Wind

Description:

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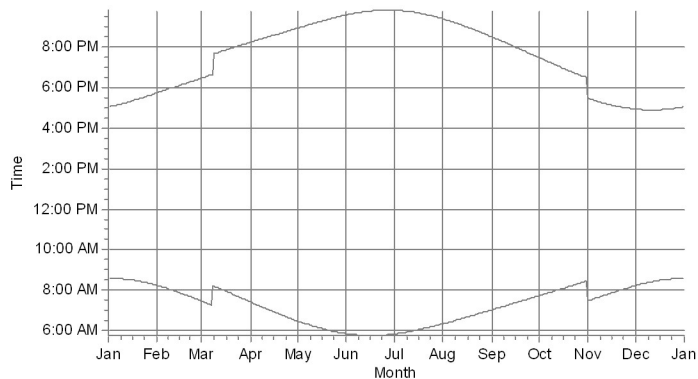
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3/11/2026 2:22 PM/4.2.285

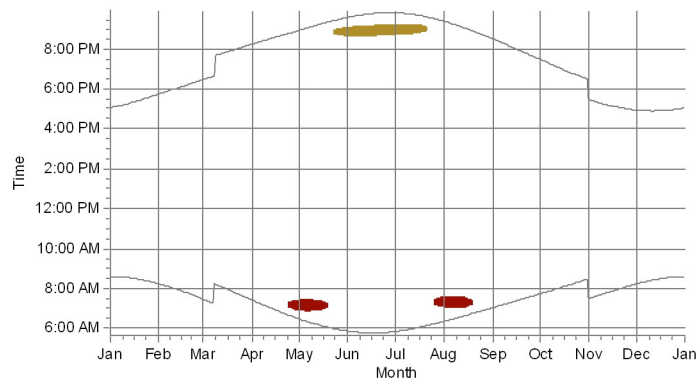
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

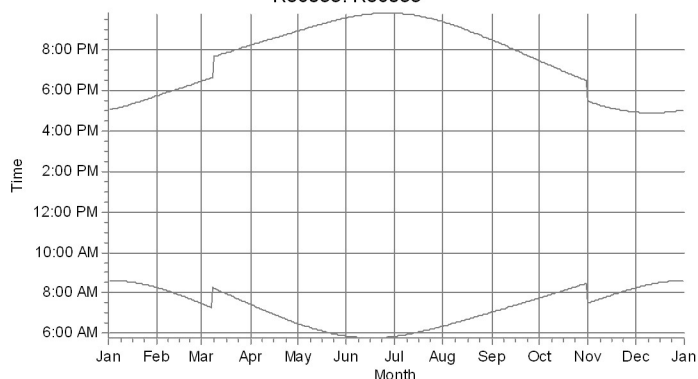
Rec097: Rec097



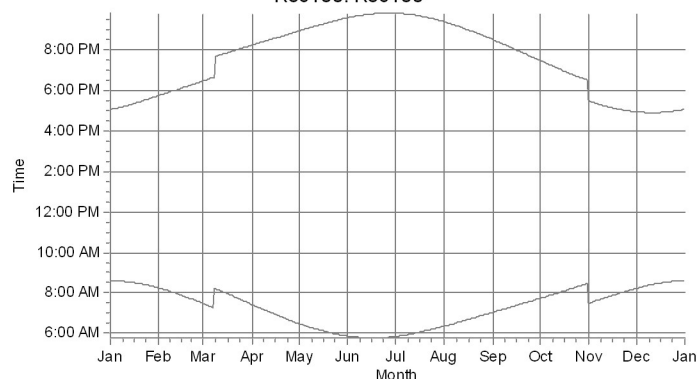
Rec098: Rec098



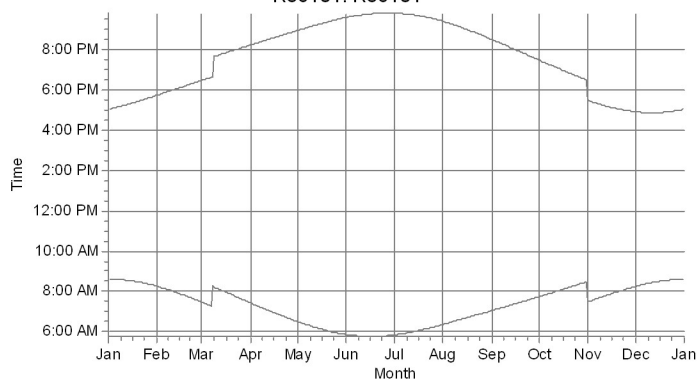
Rec099: Rec099



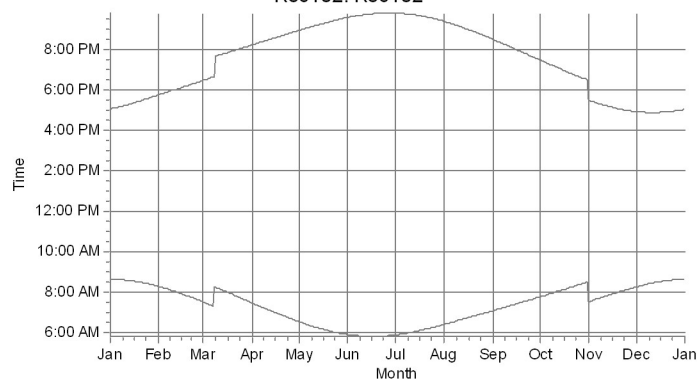
Rec100: Rec100



Rec101: Rec101



Rec102: Rec102



WTGs

C40: C40

D53: D53

Project:

Prairie_Wind

Description:

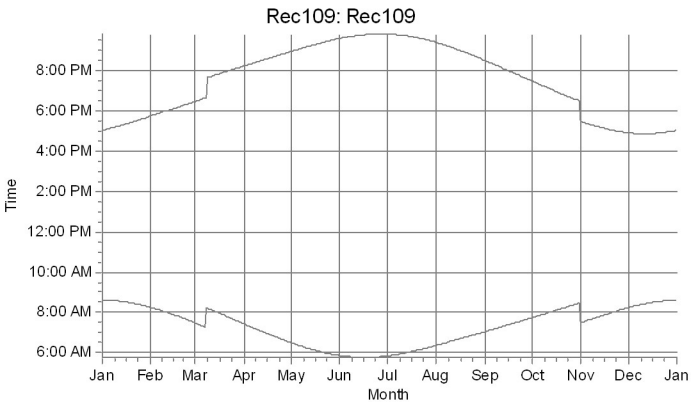
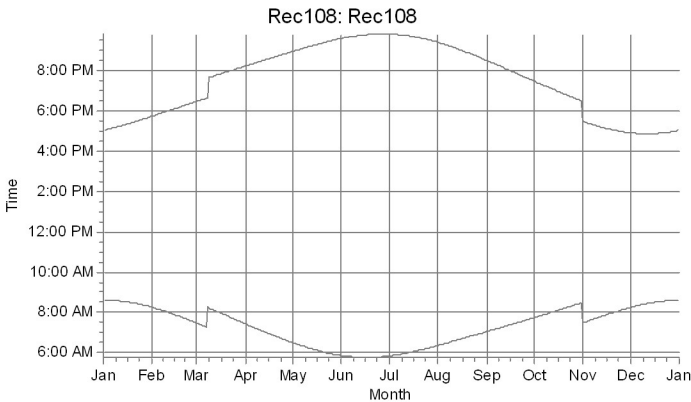
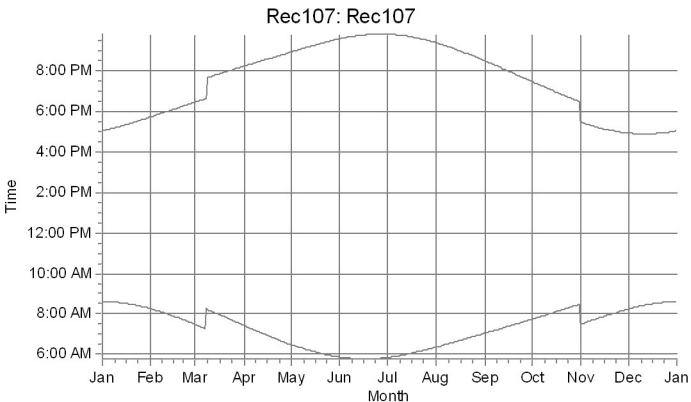
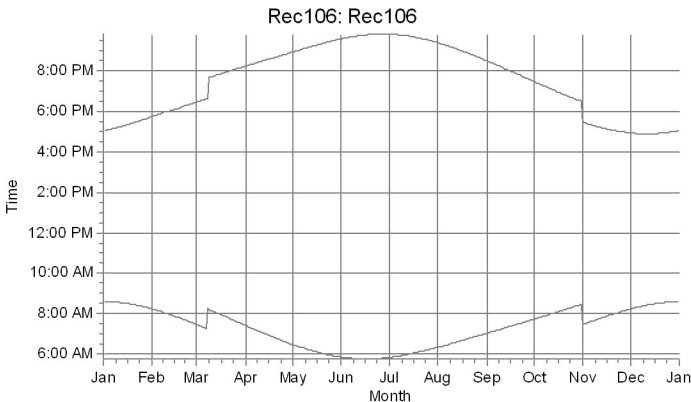
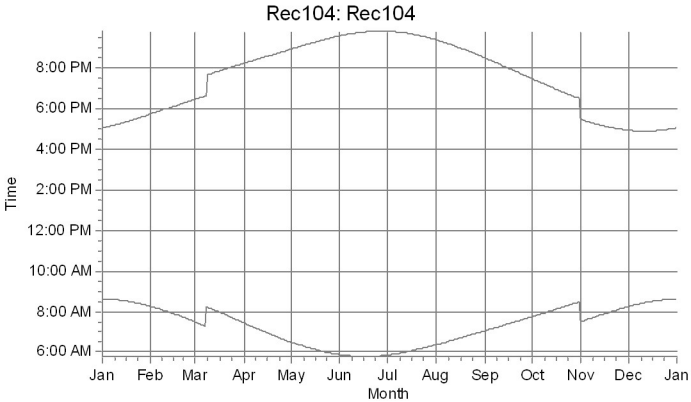
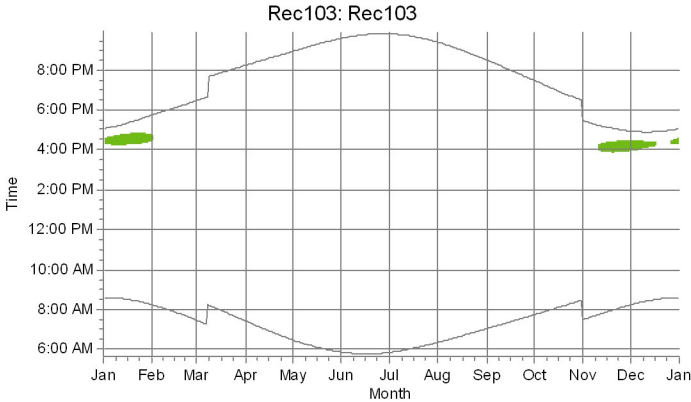
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SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

C43: C43

Project:

Prairie_Wind

Description:

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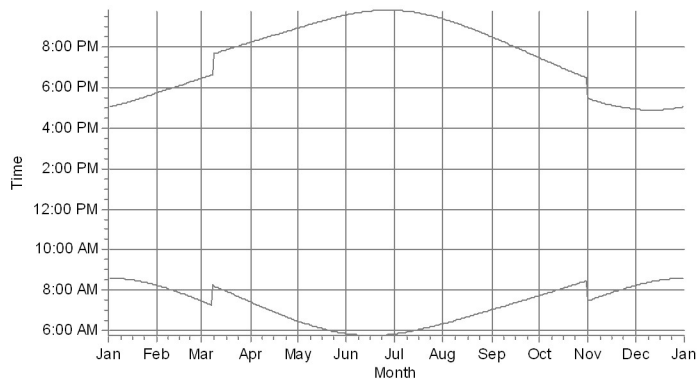
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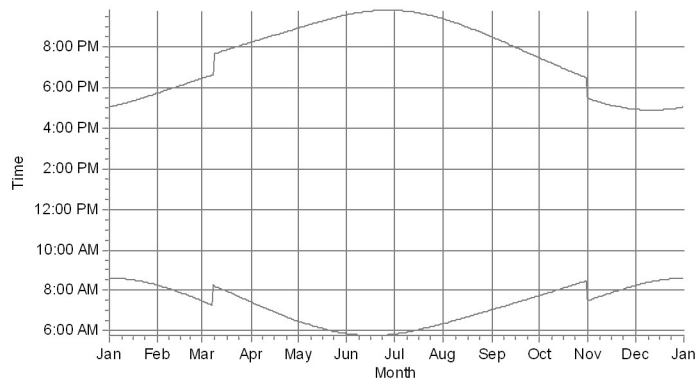
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

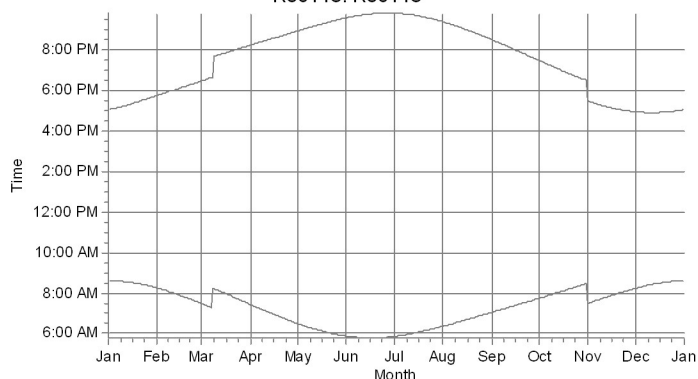
Rec110: Rec110



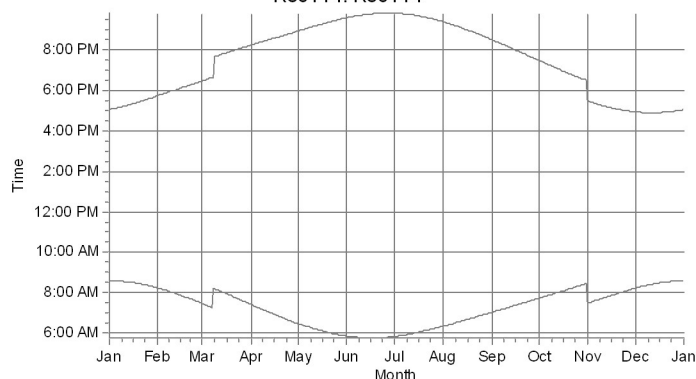
Rec112: Rec112



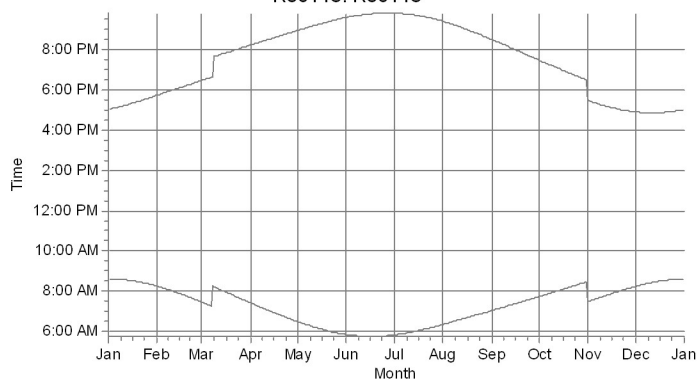
Rec113: Rec113



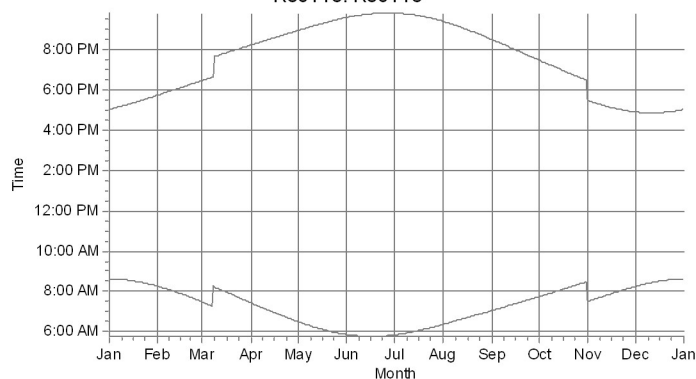
Rec114: Rec114



Rec115: Rec115



Rec116: Rec116



WTGs

Project:

Prairie_Wind

Description:

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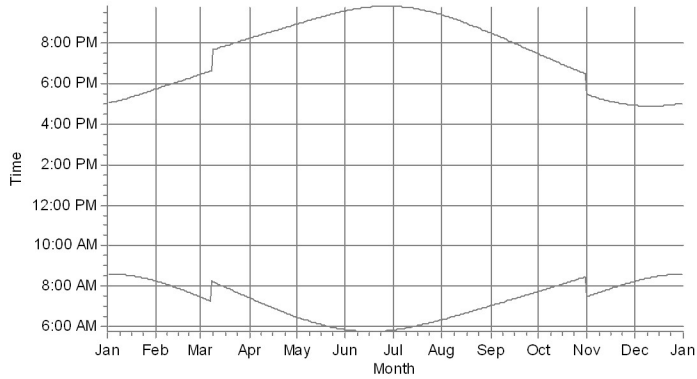
Calculated:

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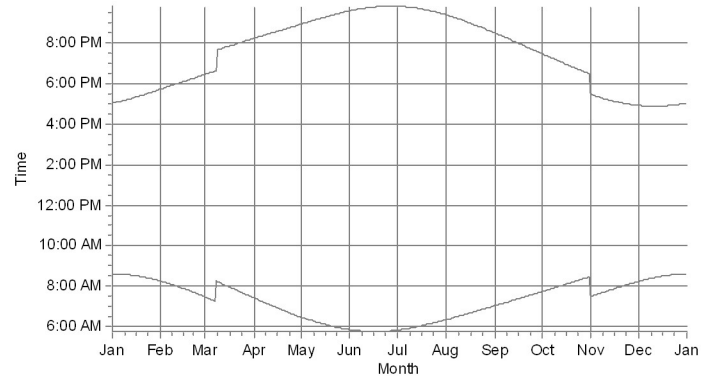
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

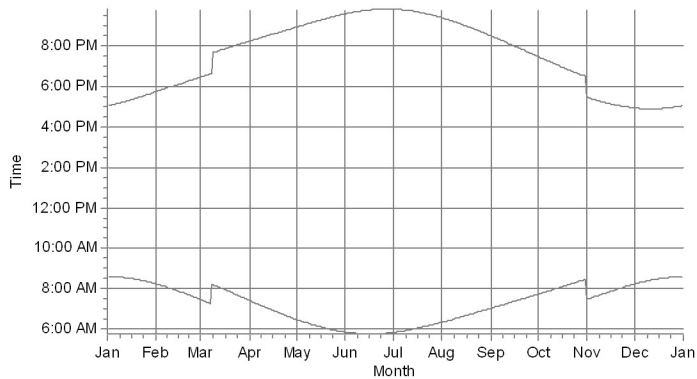
Rec117: Rec117



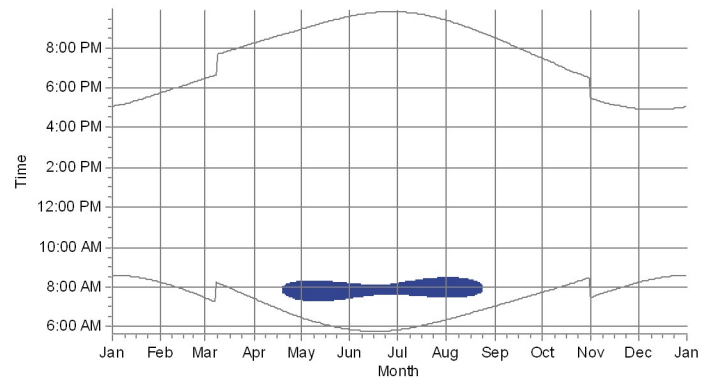
Rec118: Rec118



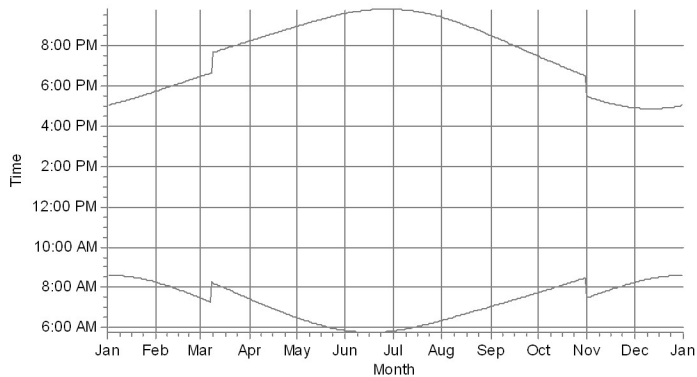
Rec119: Rec119



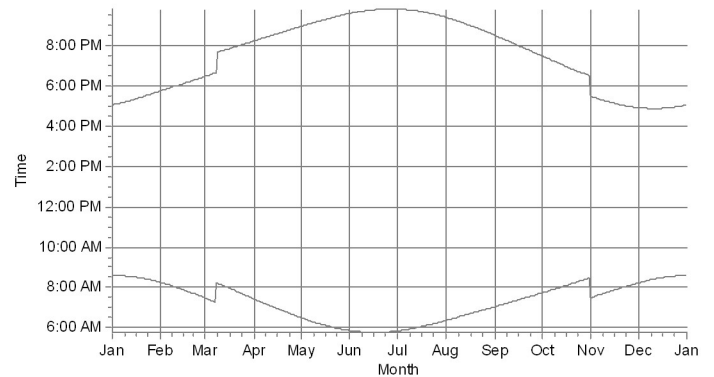
Rec120: Rec120



Rec121: Rec121



Rec122: Rec122



WTGs

D49: D49

Project:

Prairie_Wind

Description:

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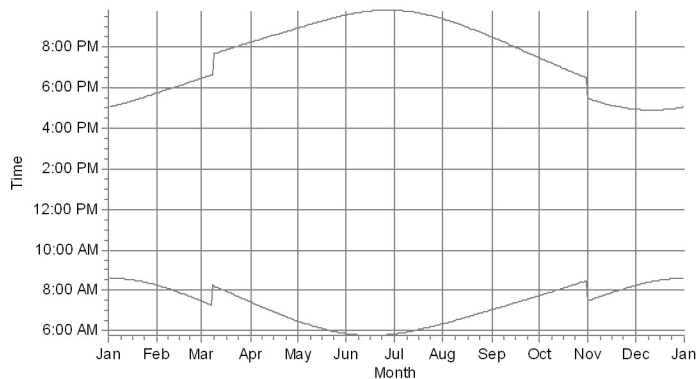
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3/11/2026 2:22 PM/4.2.285

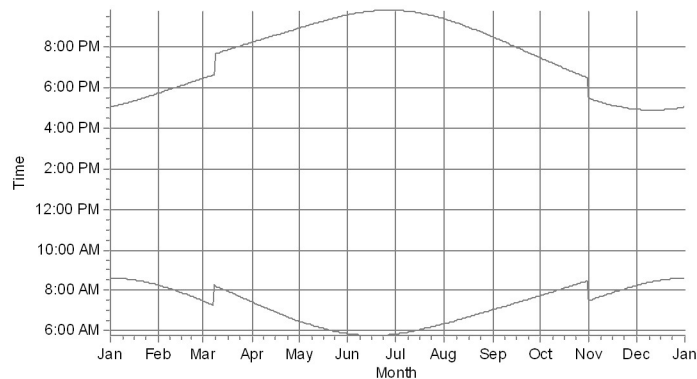
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

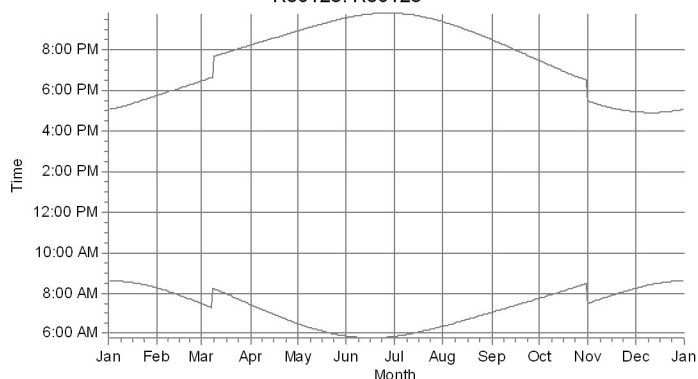
Rec123: Rec123



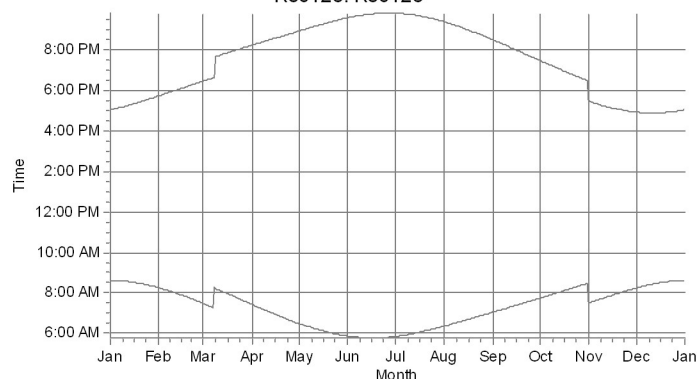
Rec124: Rec124



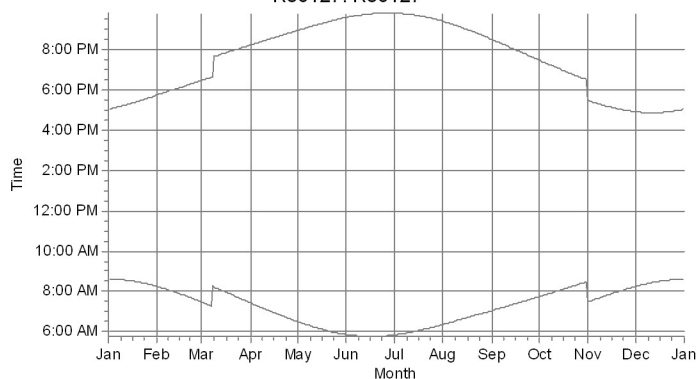
Rec125: Rec125



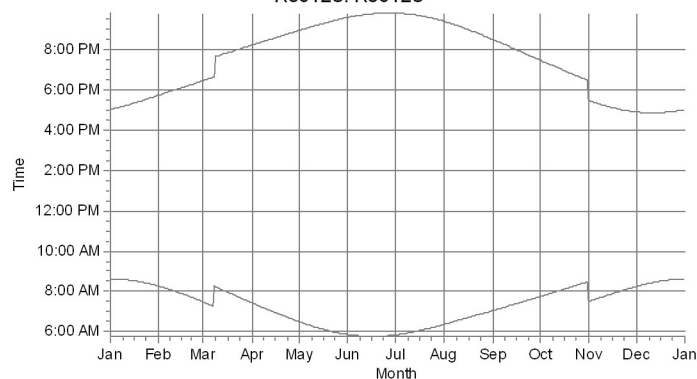
Rec126: Rec126



Rec127: Rec127



Rec128: Rec128



WTGs

Project:

Prairie_Wind

Description:

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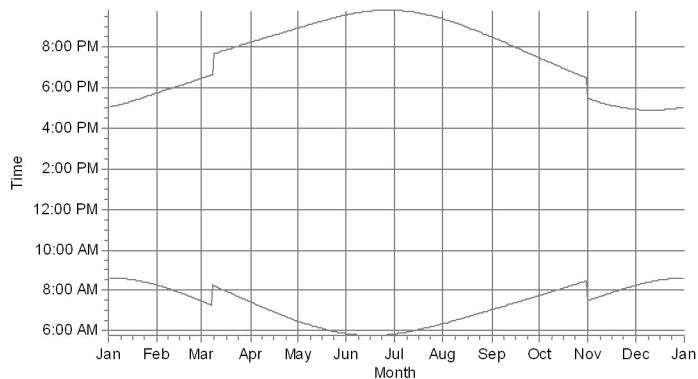
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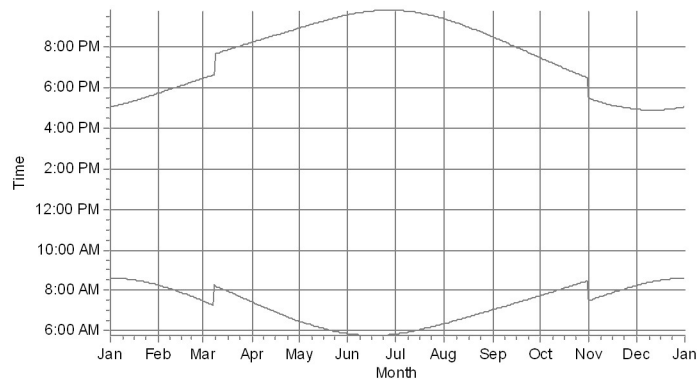
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

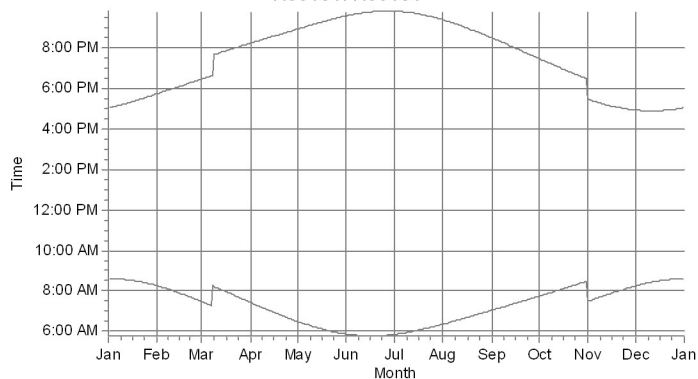
Rec129: Rec129



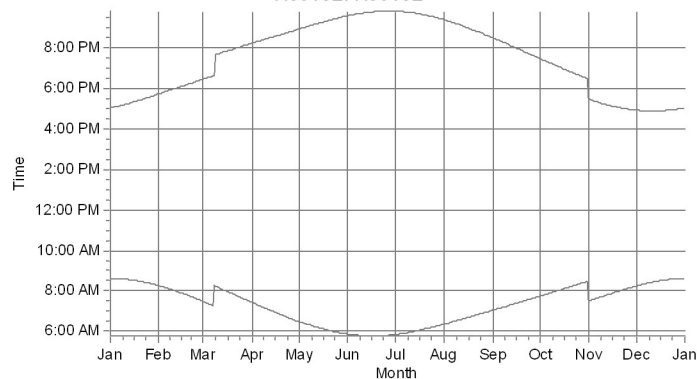
Rec130: Rec130



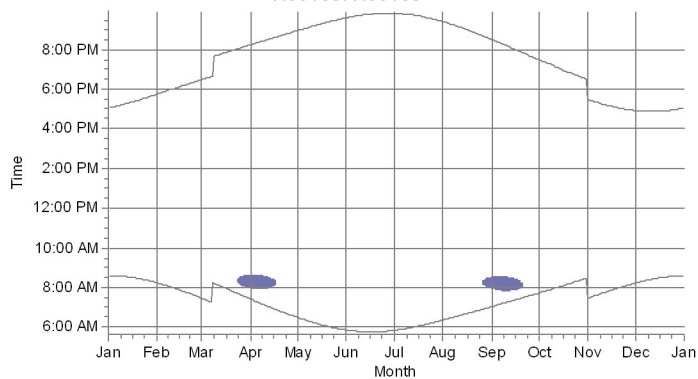
Rec131: Rec131



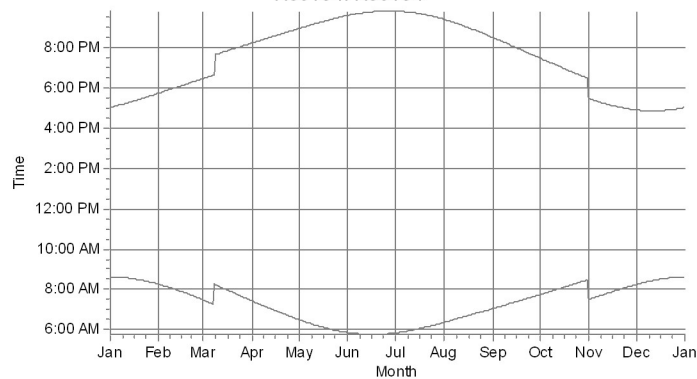
Rec132: Rec132



Rec133: Rec133



Rec134: Rec134



WTGs

D61: D61

Project:

Prairie_Wind

Description:

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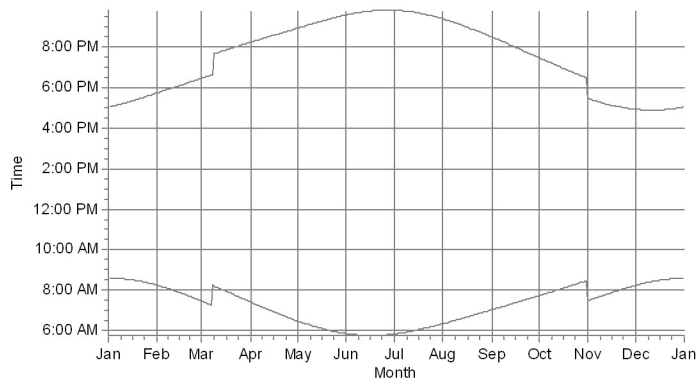
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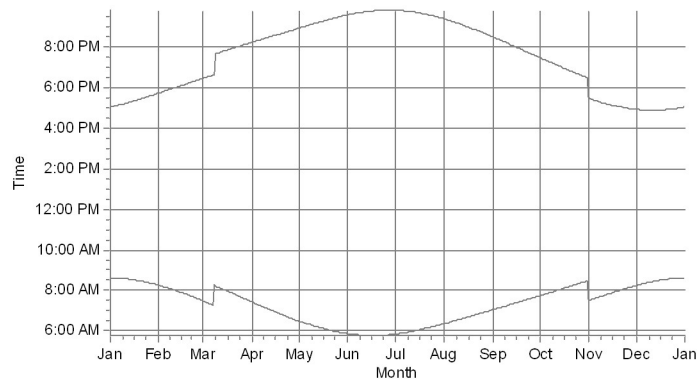
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

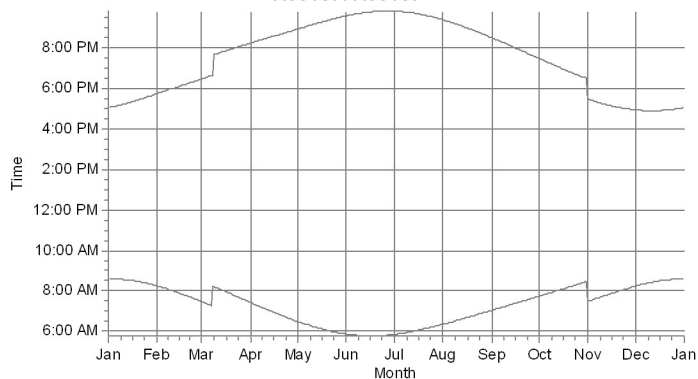
Rec135: Rec135



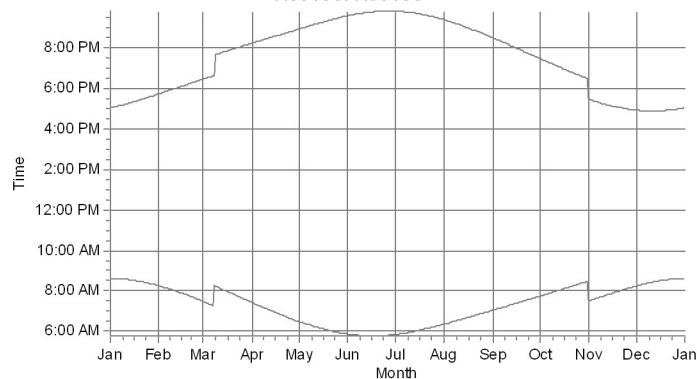
Rec136: Rec136



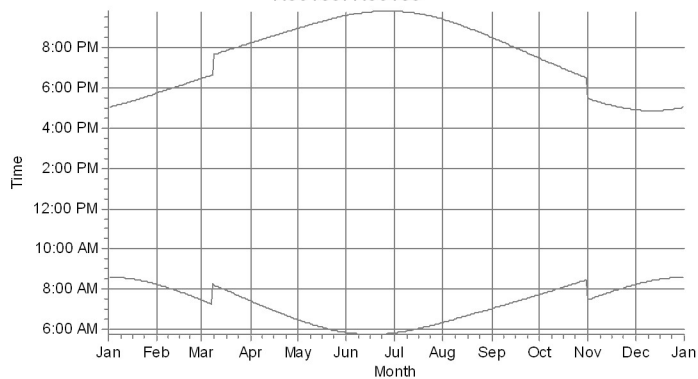
Rec137: Rec137



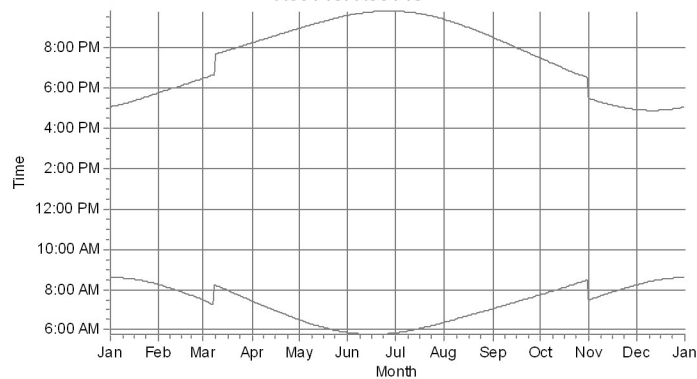
Rec138: Rec138



Rec139: Rec139



Rec140: Rec140



WTGs

Project:

Prairie_Wind

Description:

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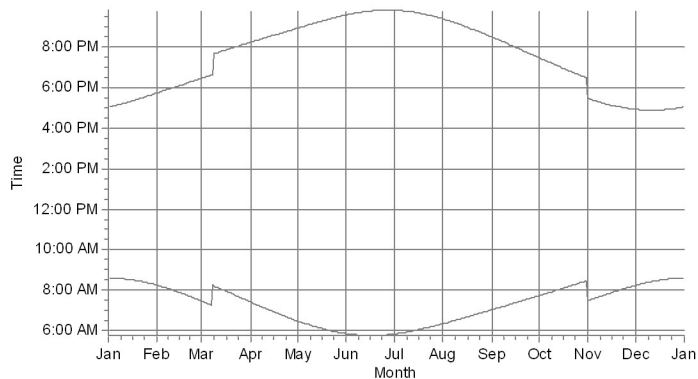
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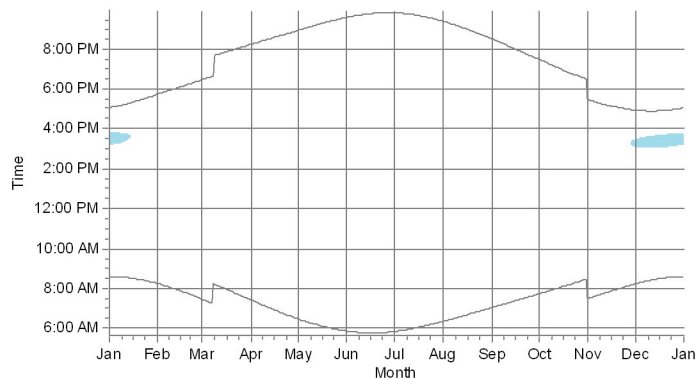
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

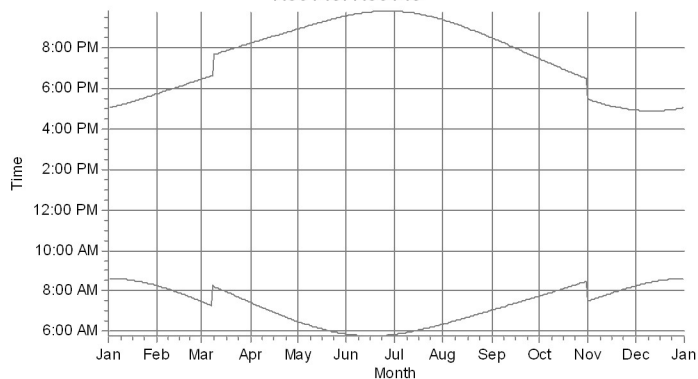
Rec141: Rec141



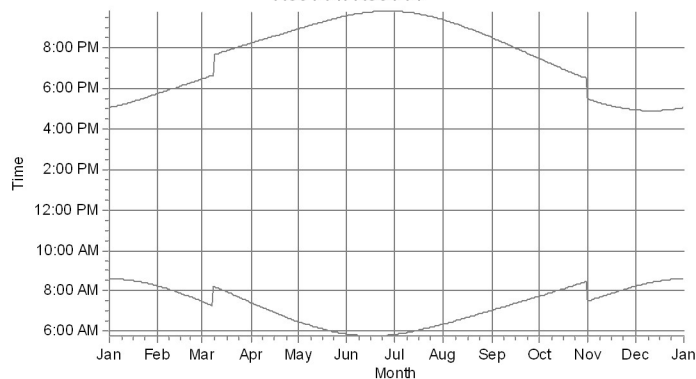
Rec142: Rec142



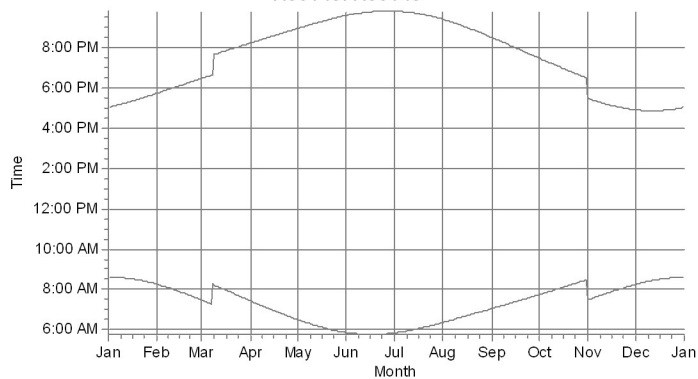
Rec143: Rec143



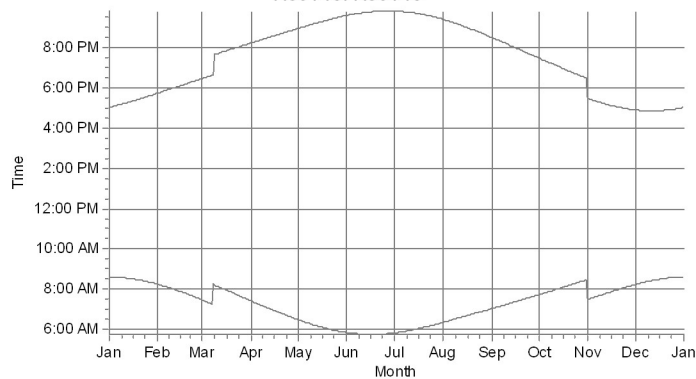
Rec144: Rec144



Rec145: Rec145



Rec146: Rec146



WTGs

B30: B30

Project:

Prairie_Wind

Description:

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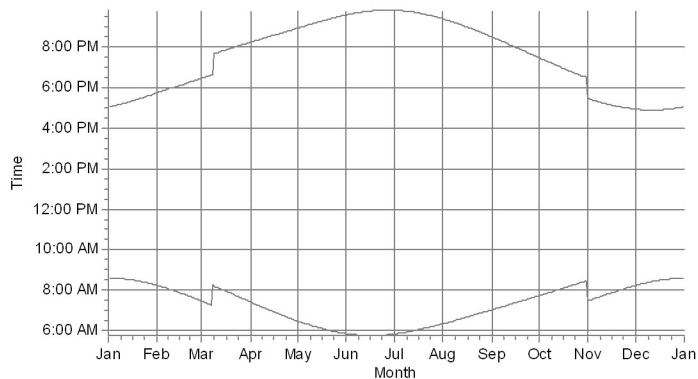
Calculated:

3/11/2026 2:22 PM/4.2.285

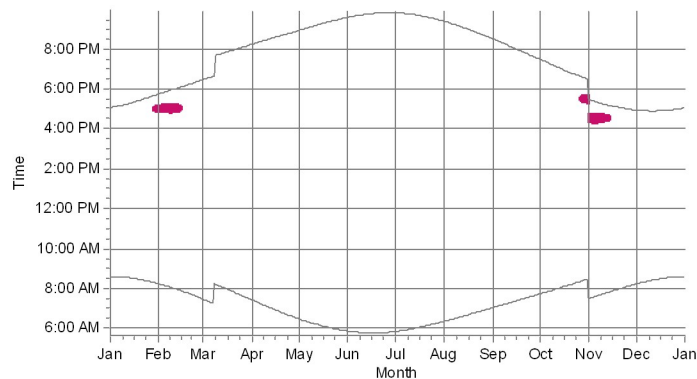
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

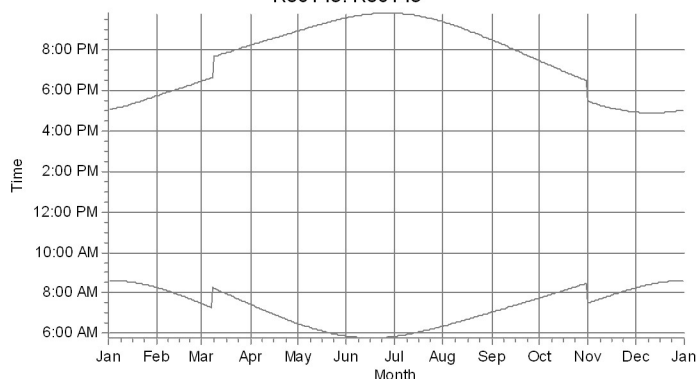
Rec147: Rec147



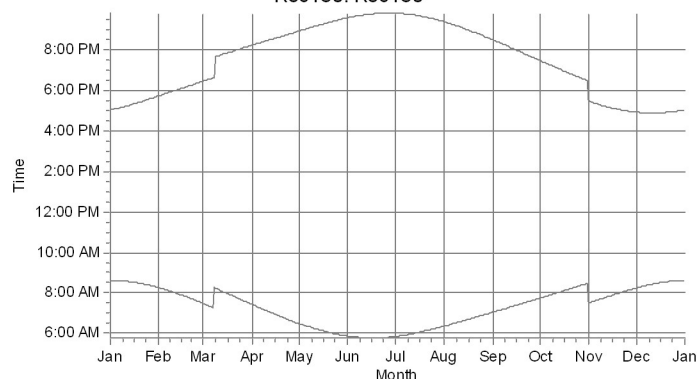
Rec148: Rec148



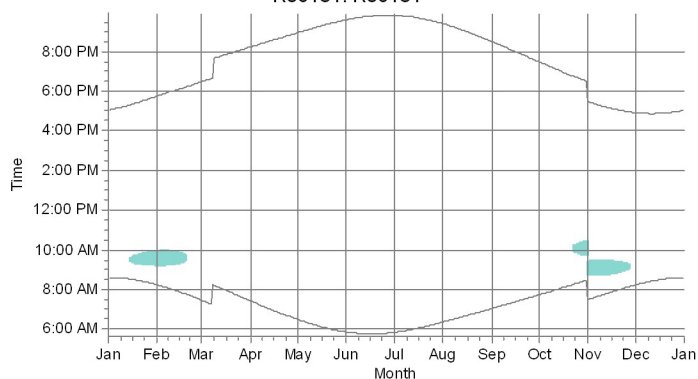
Rec149: Rec149



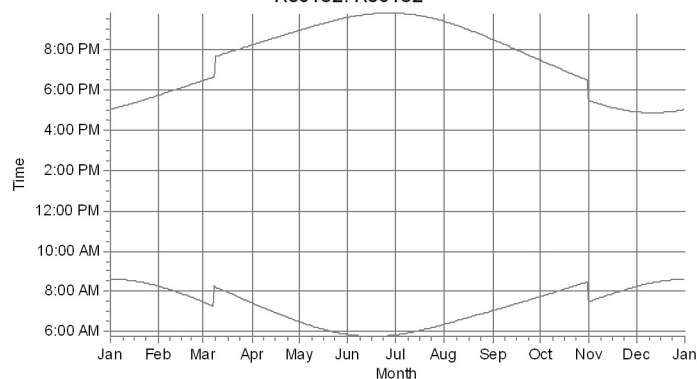
Rec150: Rec150



Rec151: Rec151



Rec152: Rec152



WTGs

C38: C38 C39: C39

Project:

Prairie_Wind

Description:

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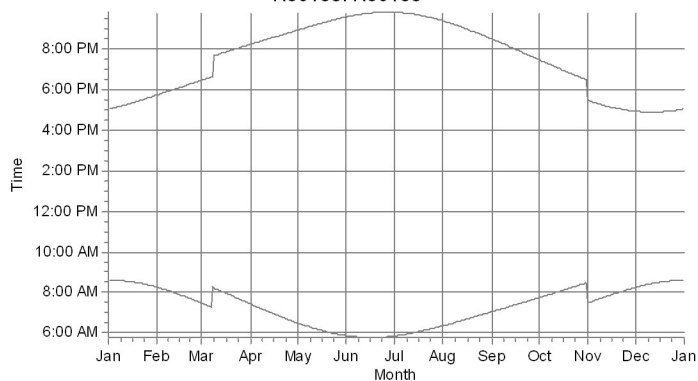
Calculated:

3/11/2026 2:22 PM/4.2.285

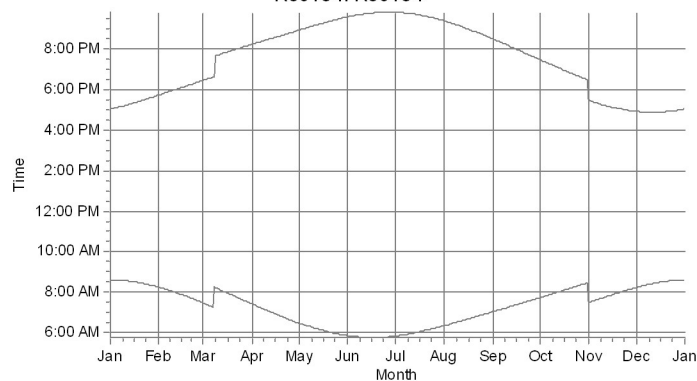
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

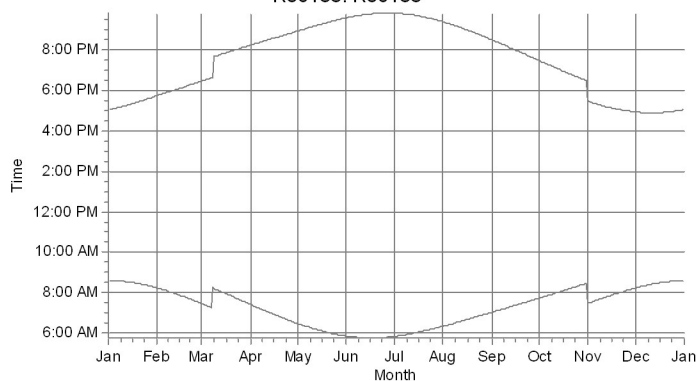
Rec153: Rec153



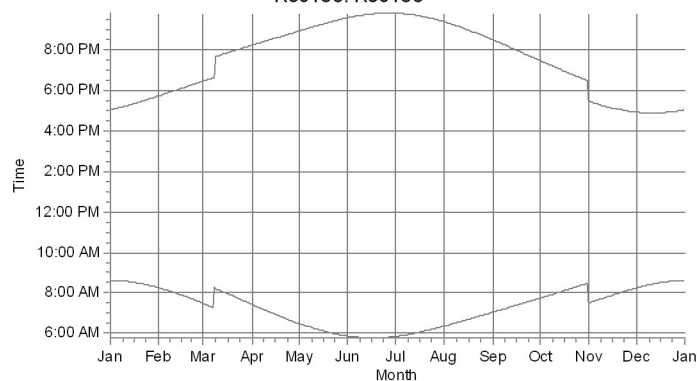
Rec154: Rec154



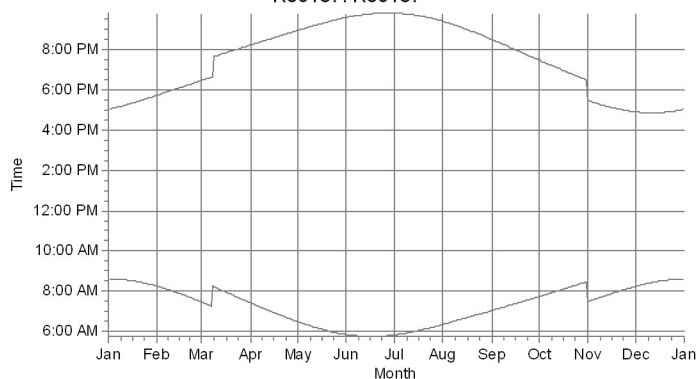
Rec155: Rec155



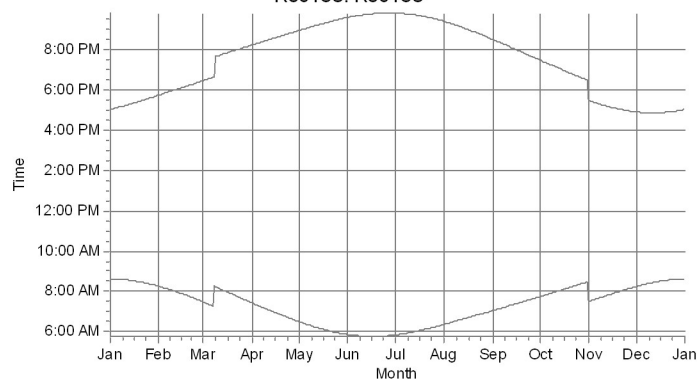
Rec156: Rec156



Rec157: Rec157



Rec158: Rec158



WTGs

Project:

Prairie_Wind

Description:

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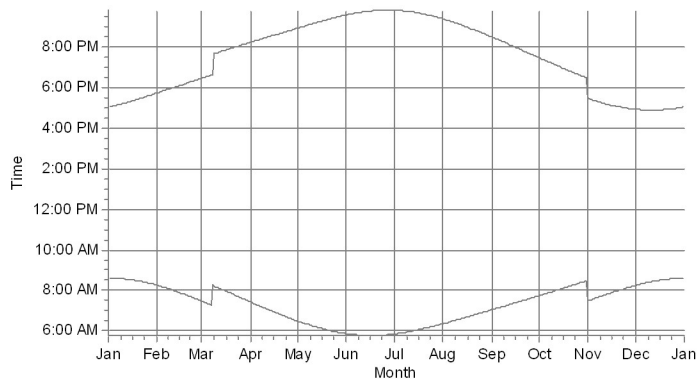
Calculated:

3/11/2026 2:22 PM/4.2.285

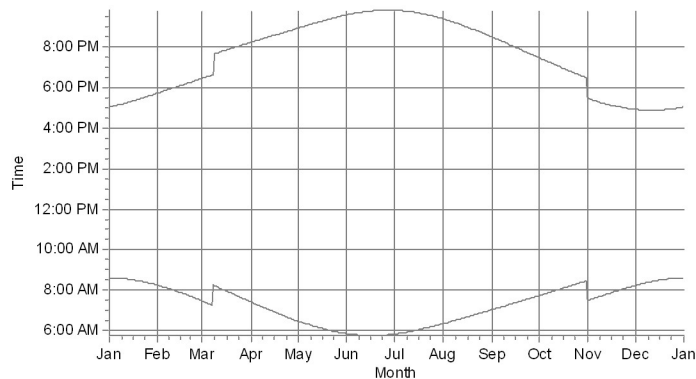
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

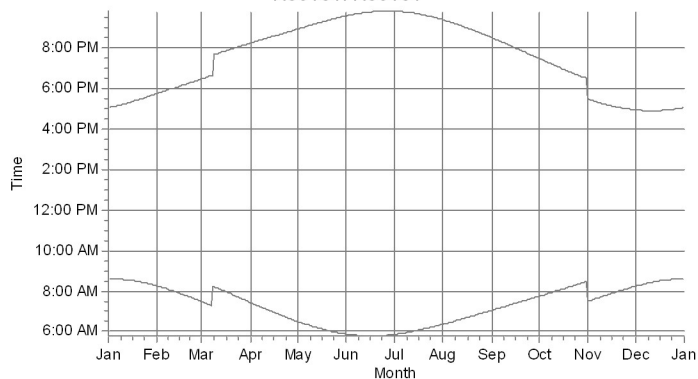
Rec159: Rec159



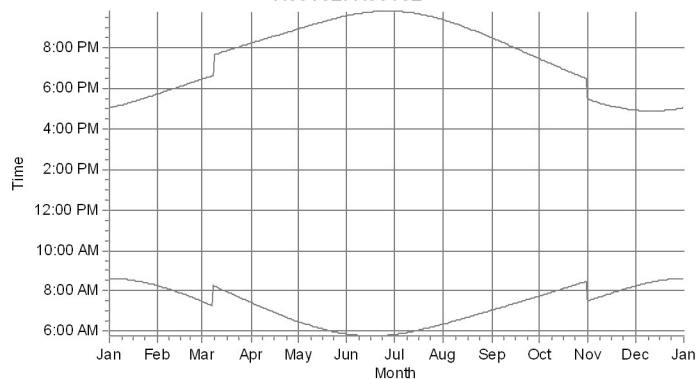
Rec160: Rec160



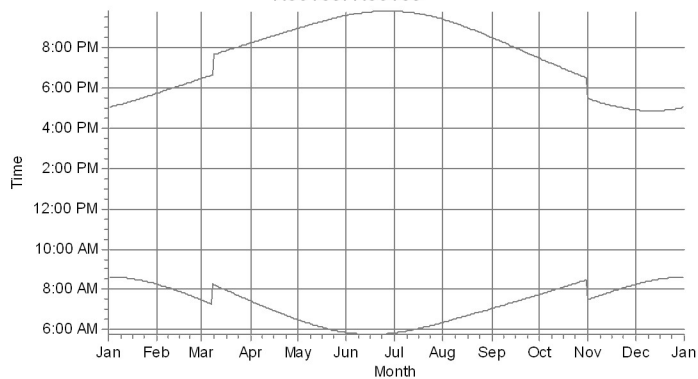
Rec161: Rec161



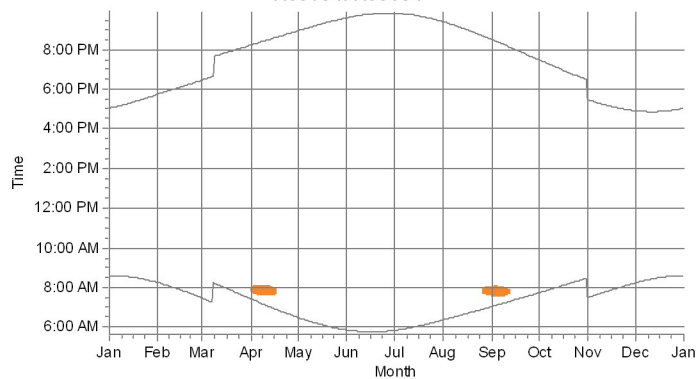
Rec162: Rec162



Rec163: Rec163



Rec164: Rec164



WTGs

B21: B21

Project:

Prairie_Wind

Description:

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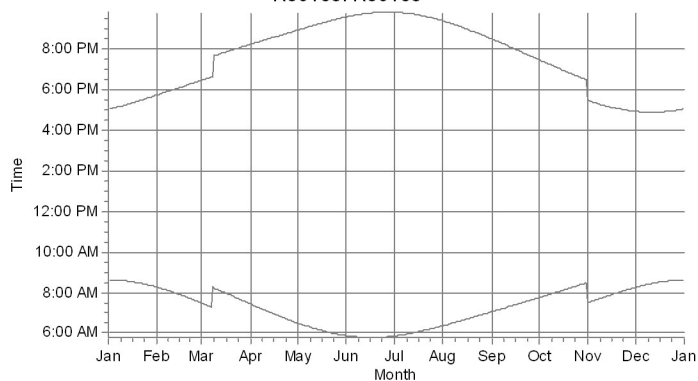
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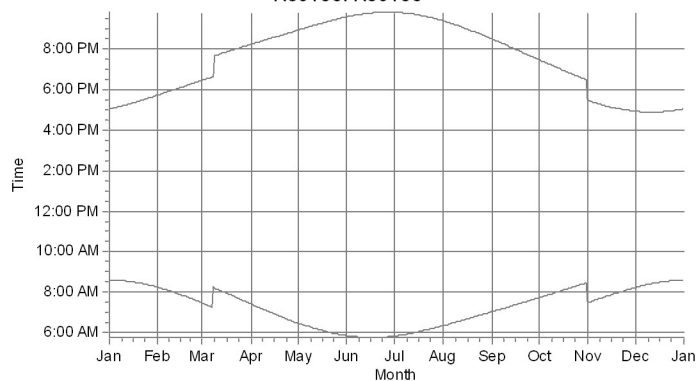
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

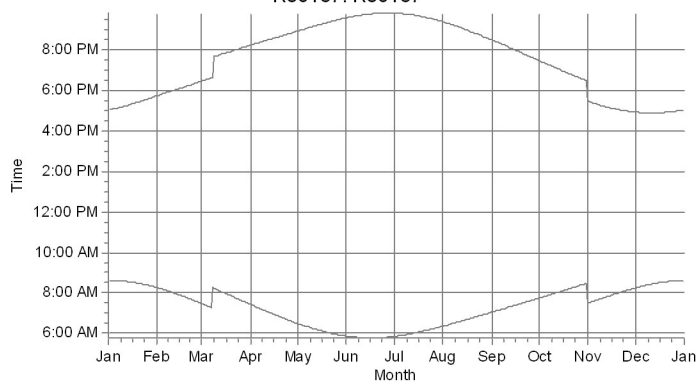
Rec165: Rec165



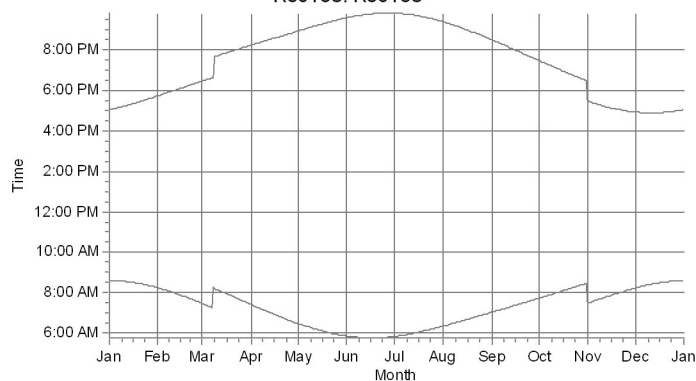
Rec166: Rec166



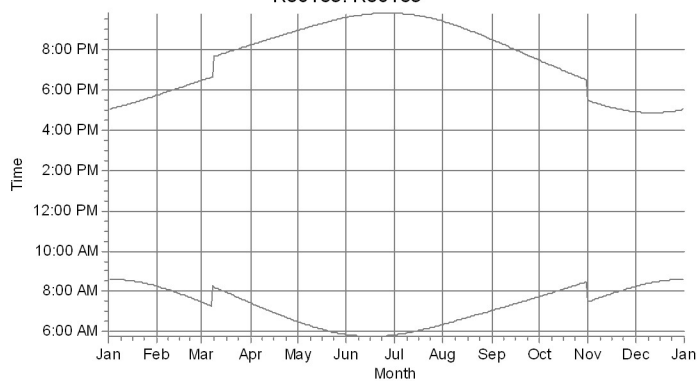
Rec167: Rec167



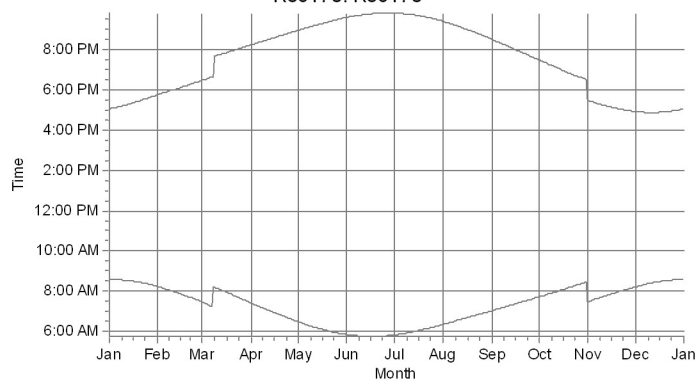
Rec168: Rec168



Rec169: Rec169



Rec170: Rec170



WTGs

Project:

Prairie_Wind

Description:

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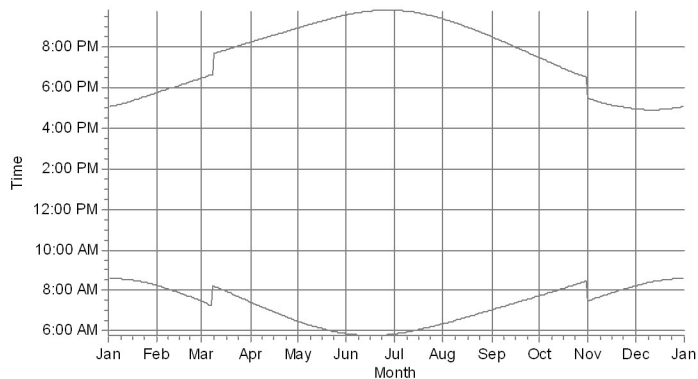
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3/11/2026 2:22 PM/4.2.285

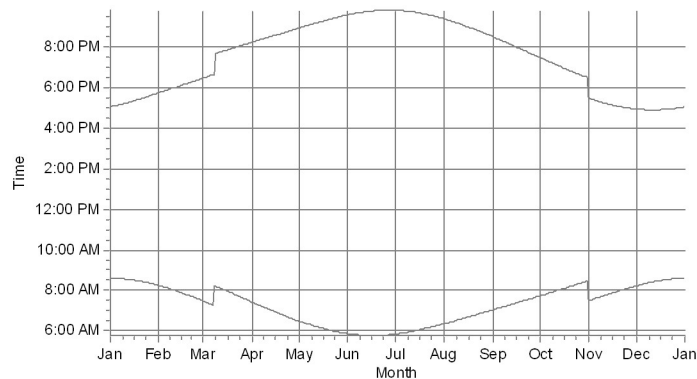
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

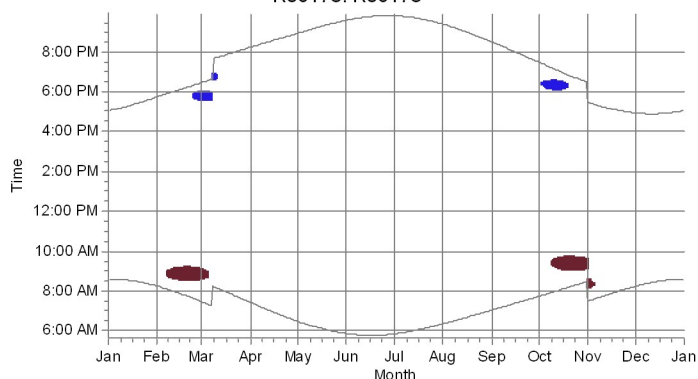
Rec171: Rec171



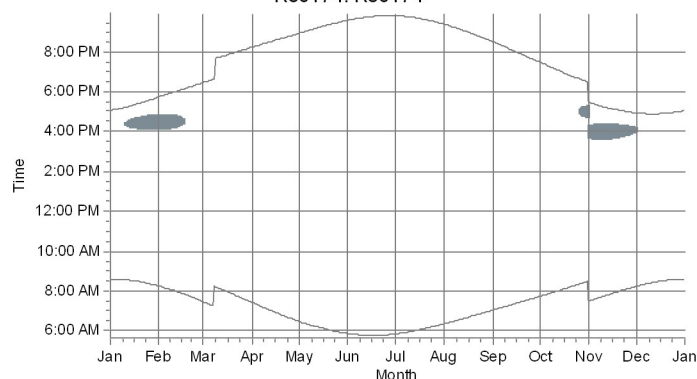
Rec172: Rec172



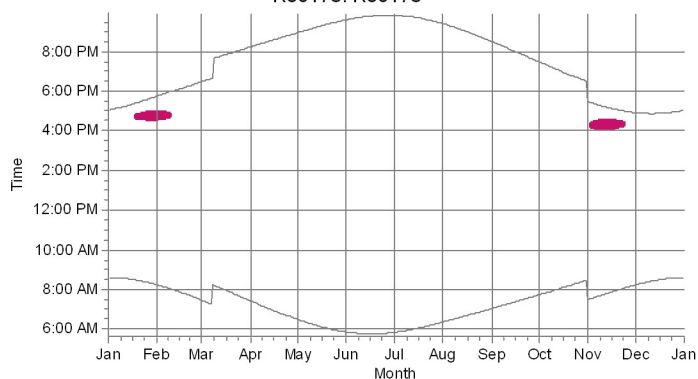
Rec173: Rec173



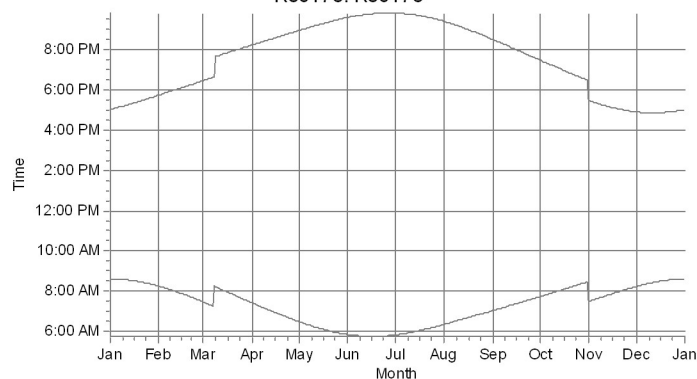
Rec174: Rec174



Rec175: Rec175



Rec176: Rec176



WTGs

B22: B22 B25: B25 B24: B24 C39: C39

Project: **Prairie_Wind**

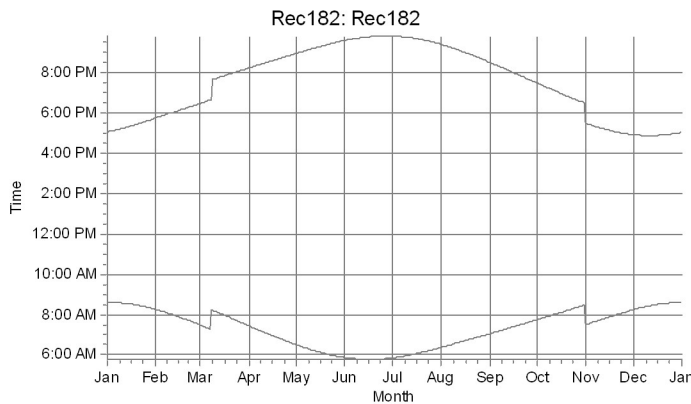
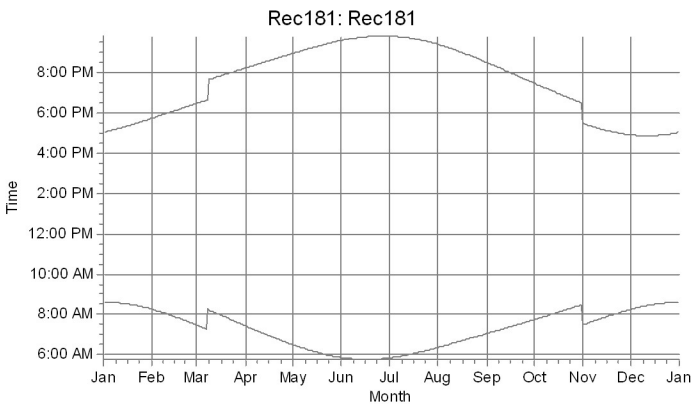
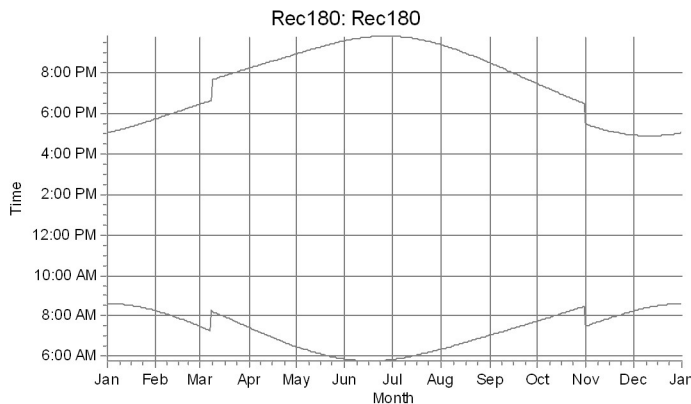
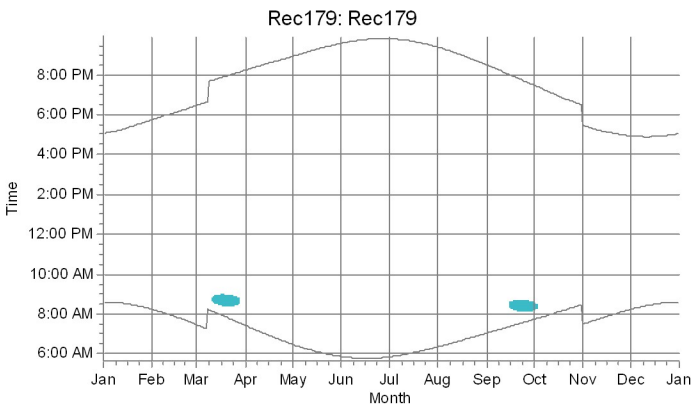
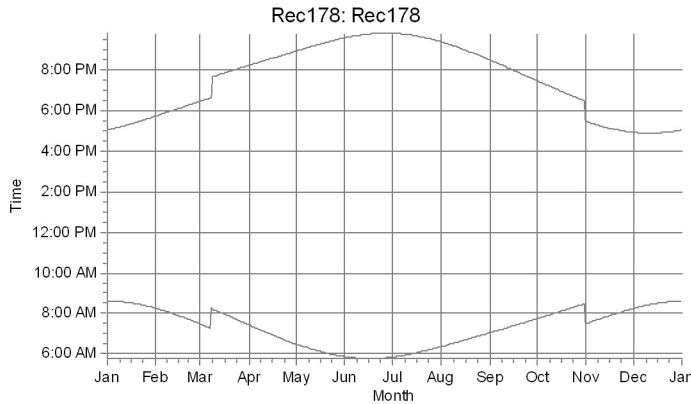
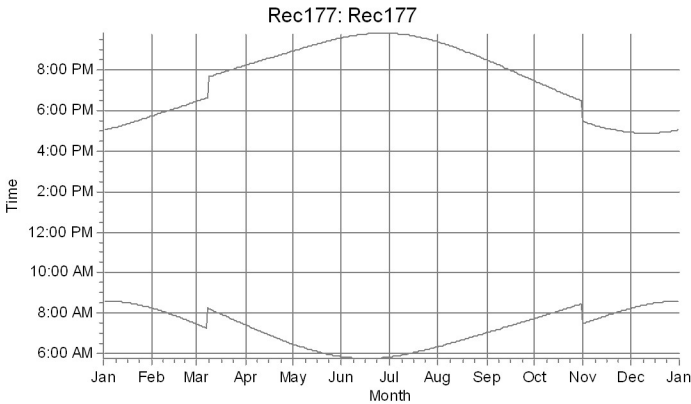
Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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Calculated:
3/11/2026 2:22 PM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

E65: E65

Project:

Prairie_Wind

Description:

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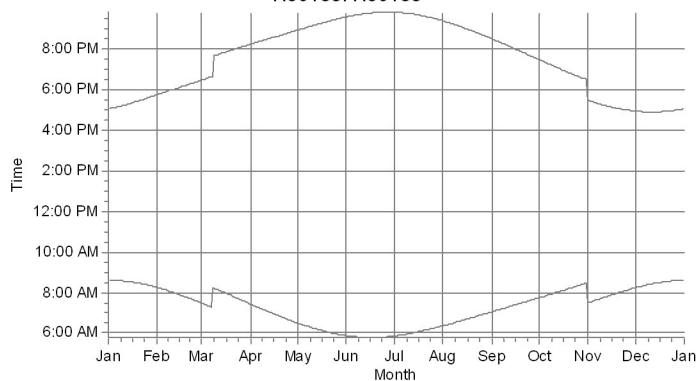
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3/11/2026 2:22 PM/4.2.285

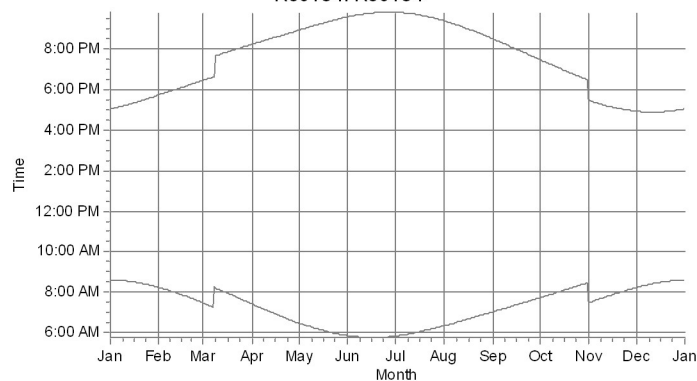
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

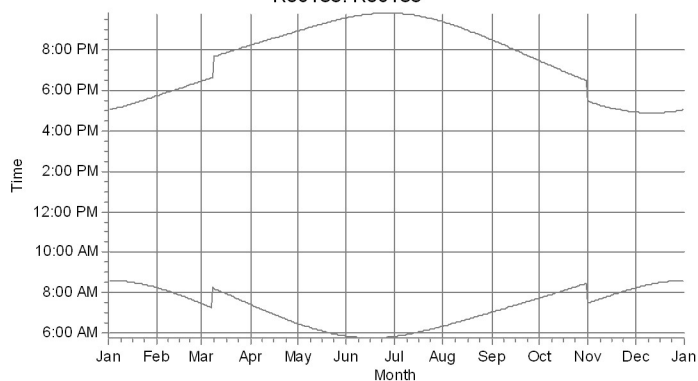
Rec183: Rec183



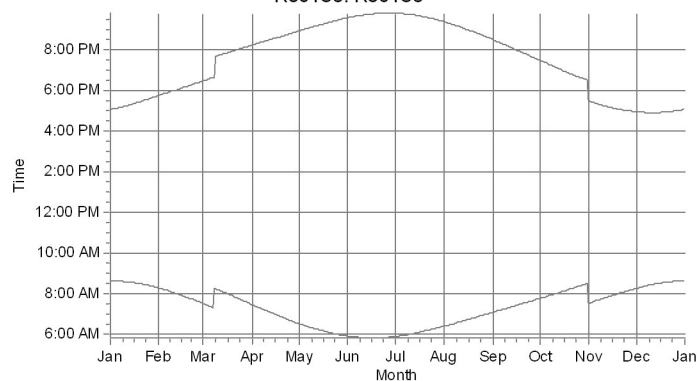
Rec184: Rec184



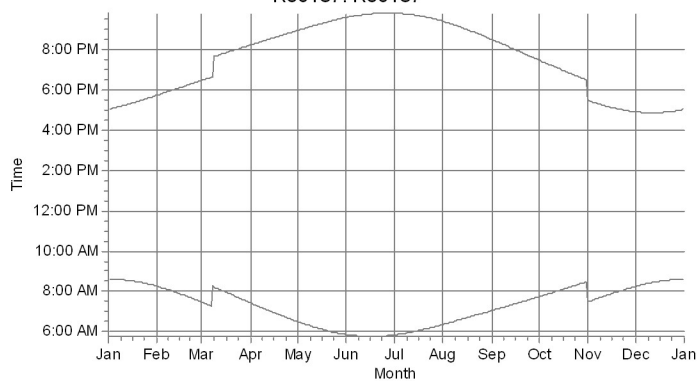
Rec185: Rec185



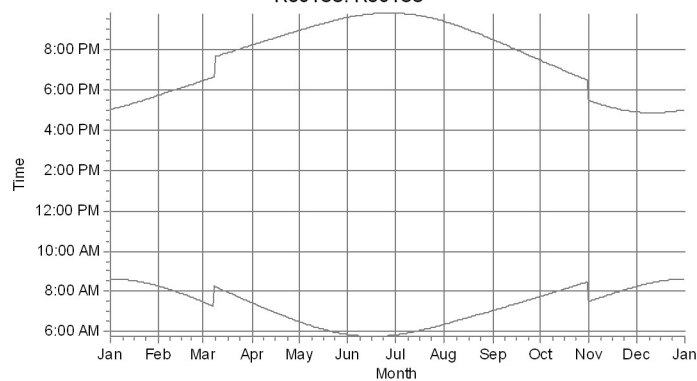
Rec186: Rec186



Rec187: Rec187



Rec188: Rec188



WTGs

Project:

Prairie_Wind

Description:

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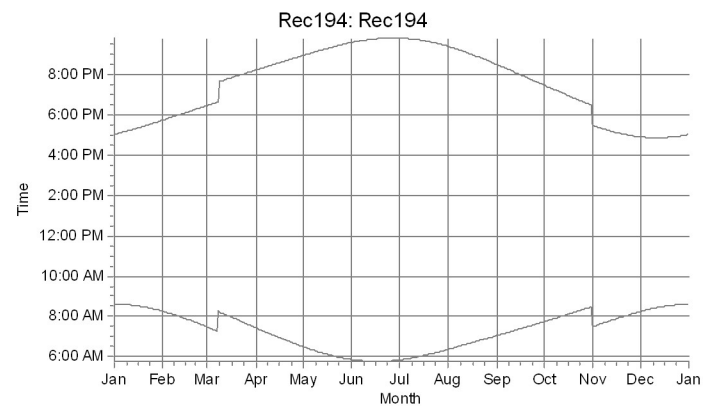
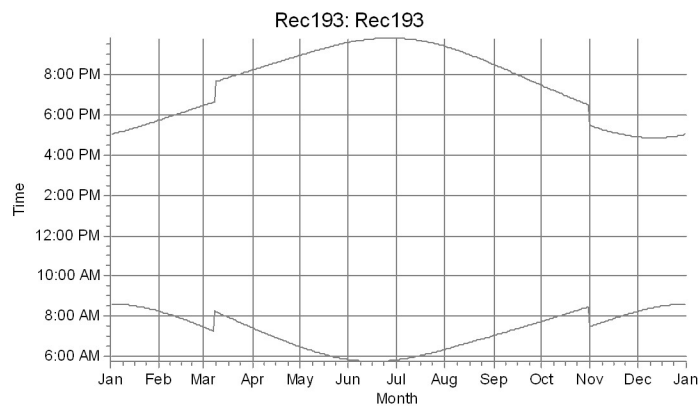
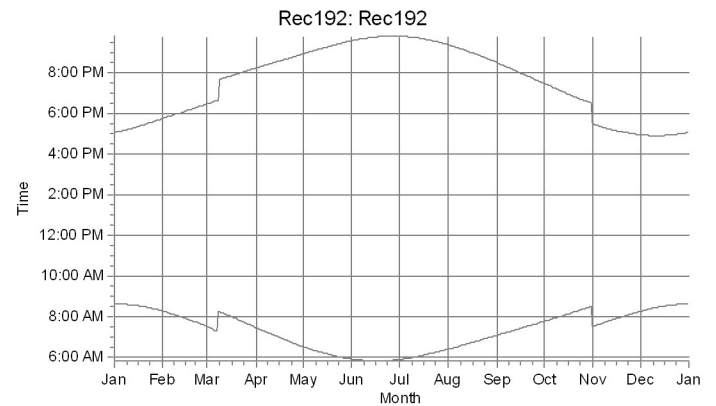
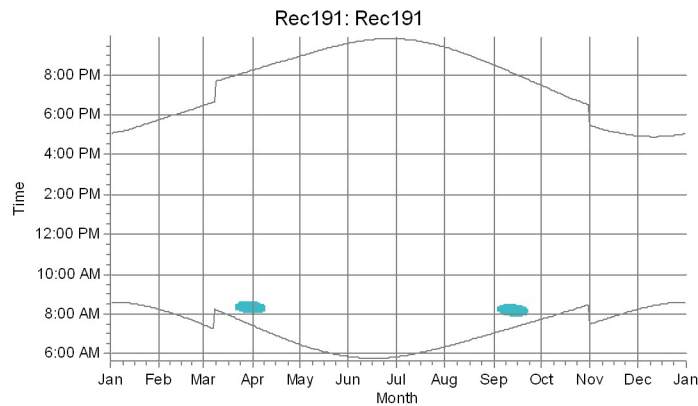
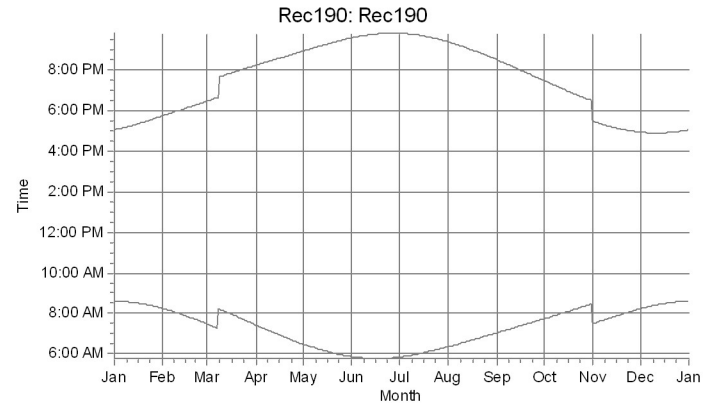
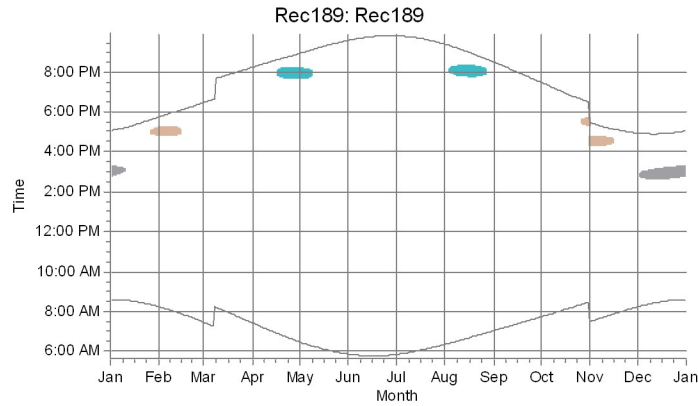
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Calculated:

3/11/2026 2:22 PM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

E64: E64 E63: E63 E65: E65

Project:

Prairie_Wind

Description:

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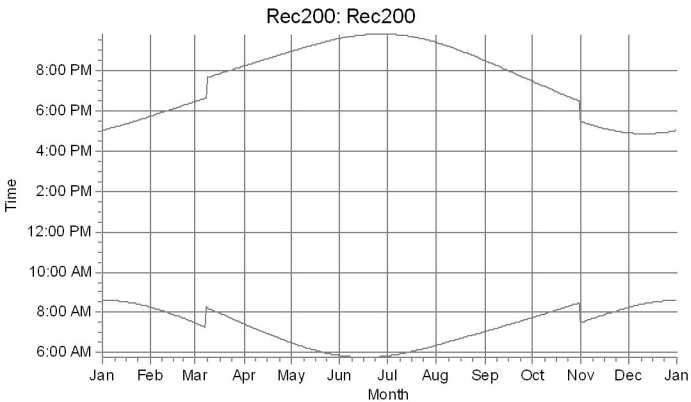
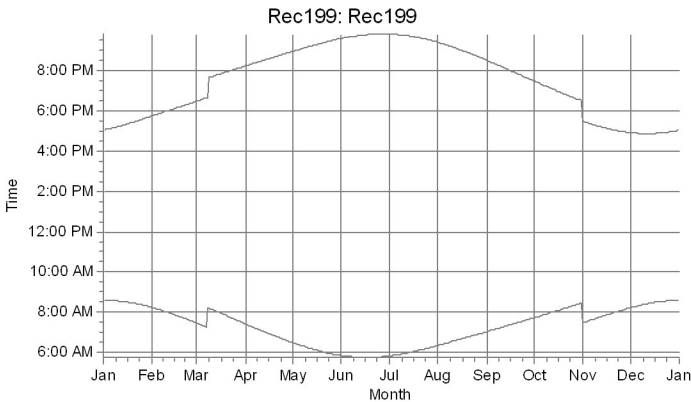
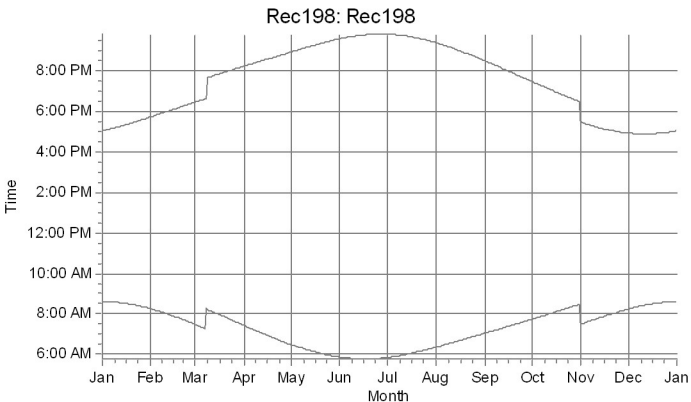
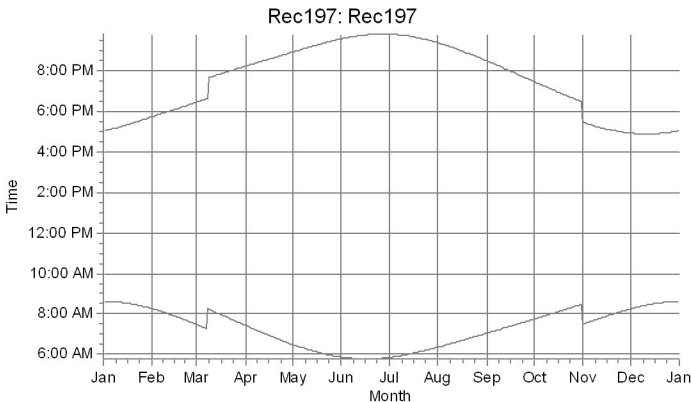
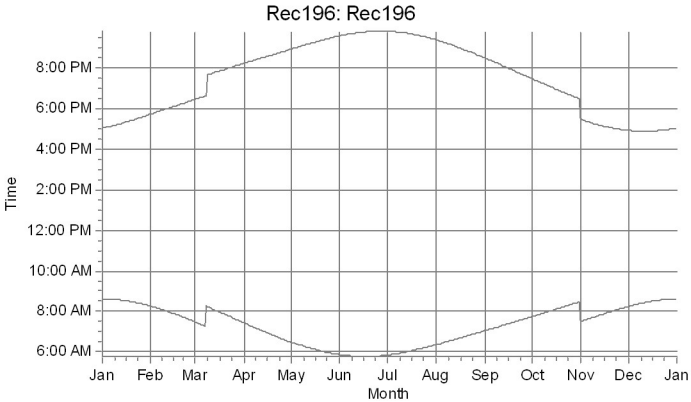
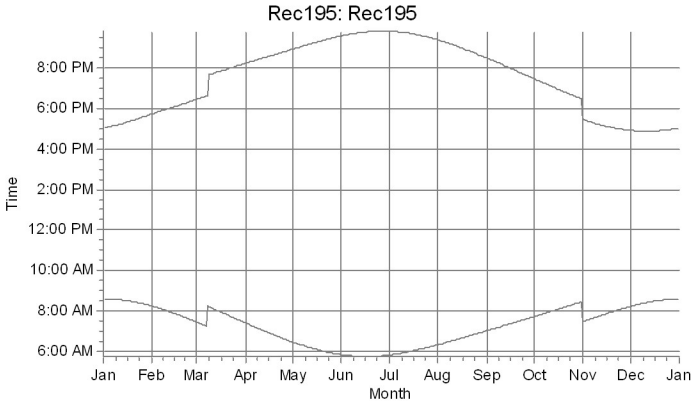
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816 448 7338
Anna Jordan / anna.jordan@1898andco.com

Calculated:

3/11/2026 2:22 PM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

Project:

Prairie_Wind

Description:

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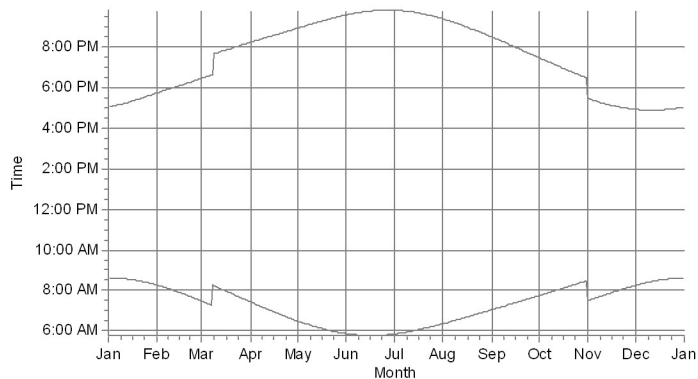
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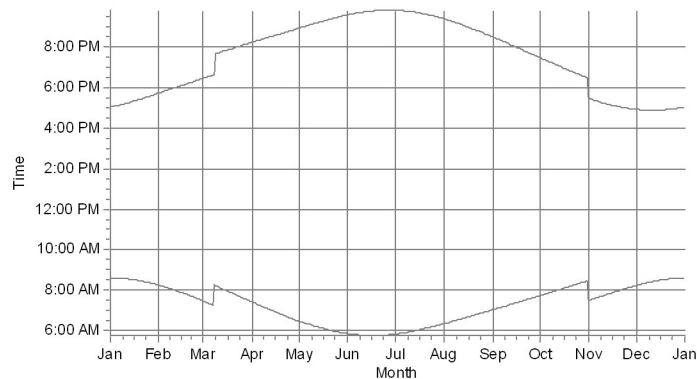
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

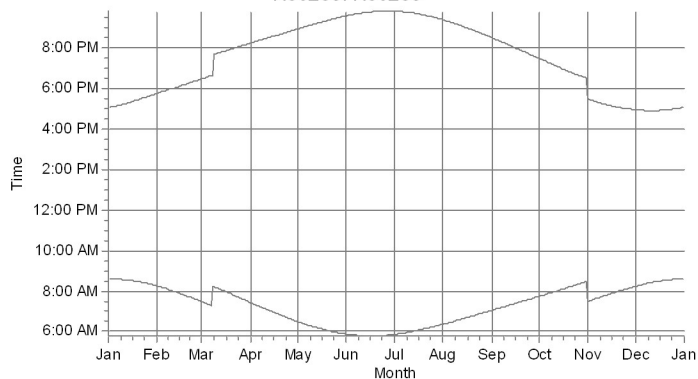
Rec201: Rec201



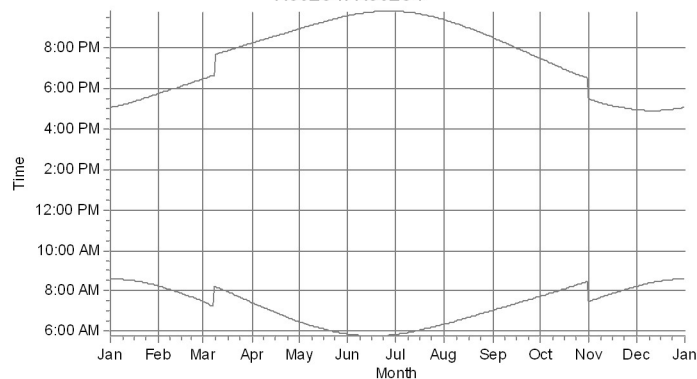
Rec202: Rec202



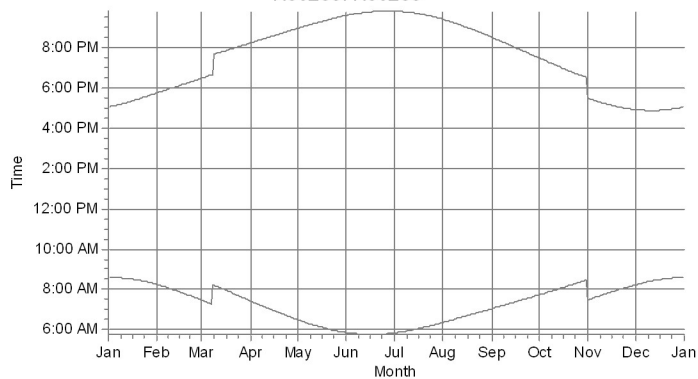
Rec203: Rec203



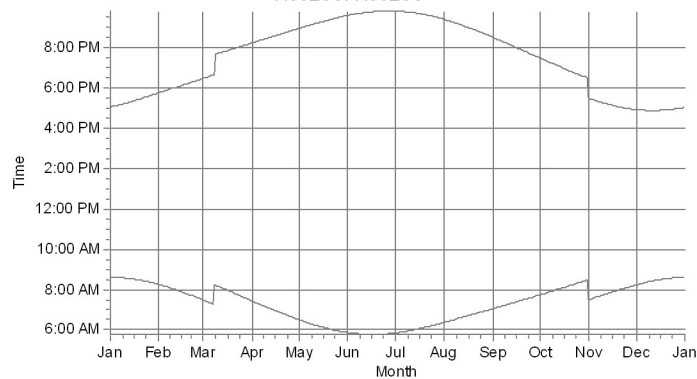
Rec204: Rec204



Rec205: Rec205



Rec206: Rec206



WTGs

Project:

Prairie_Wind

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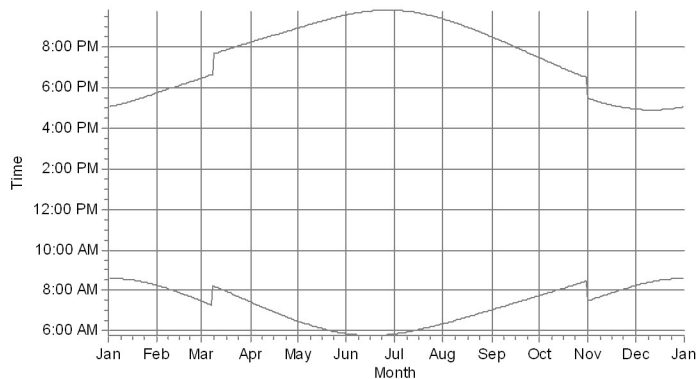
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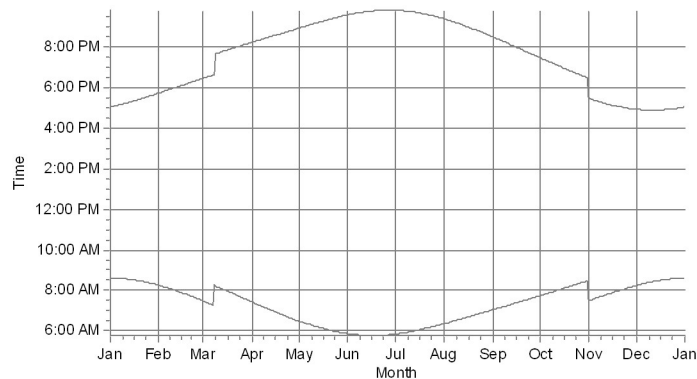
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

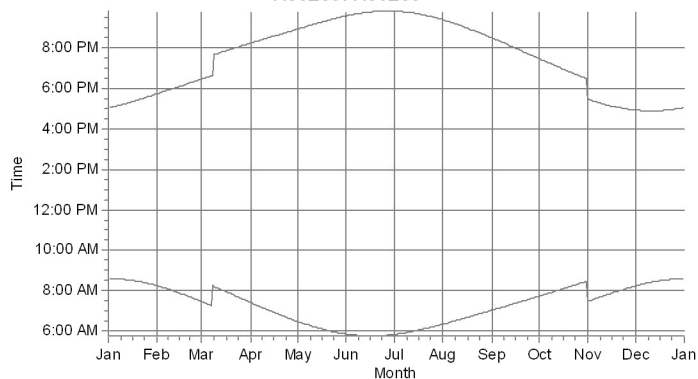
Rec207: Rec207



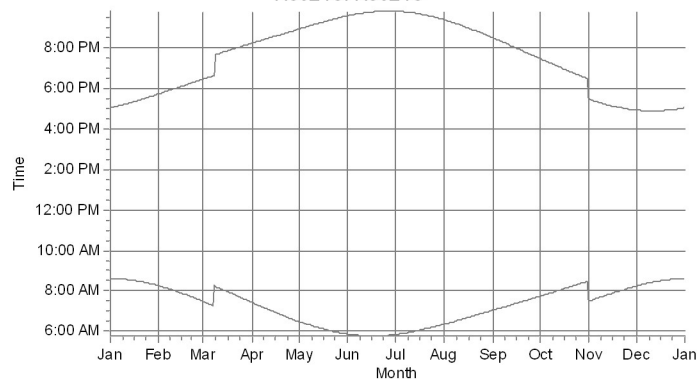
Rec208: Rec208



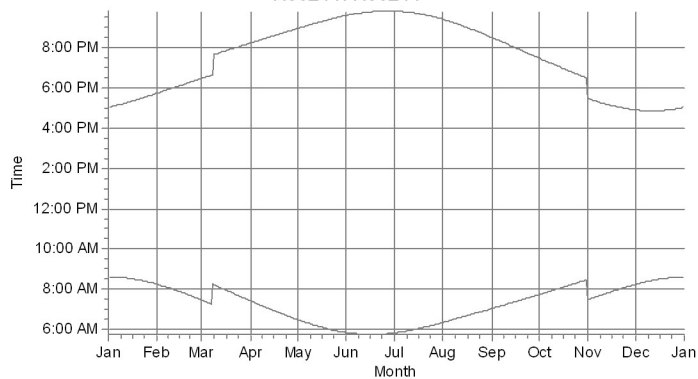
Rec209: Rec209



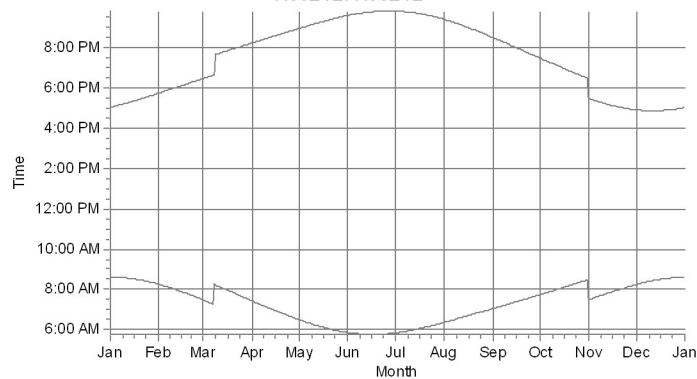
Rec210: Rec210



Rec211: Rec211



Rec212: Rec212



WTGs

Project:

Prairie_Wind

Description:

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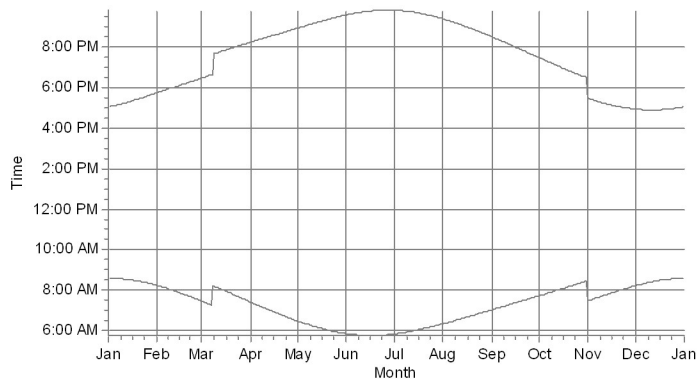
Calculated:

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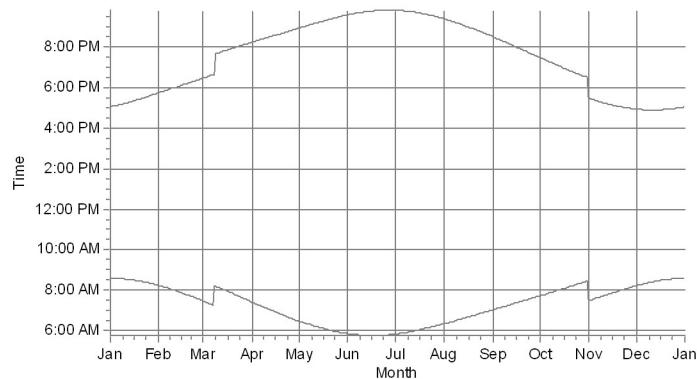
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

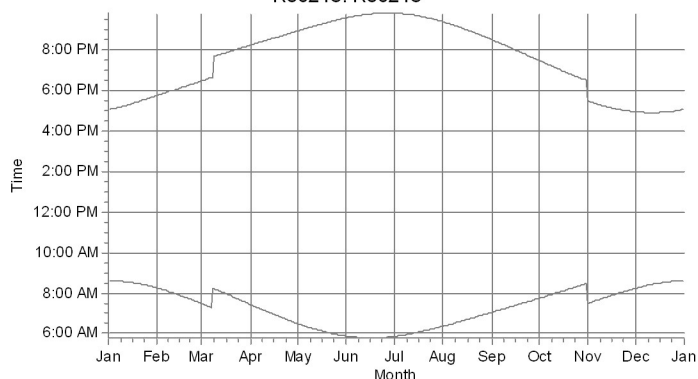
Rec213: Rec213



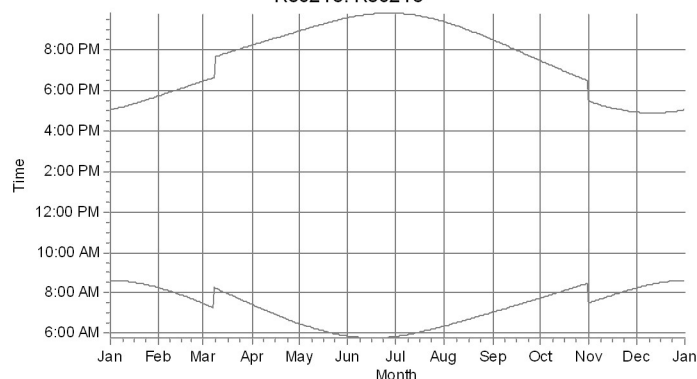
Rec214: Rec214



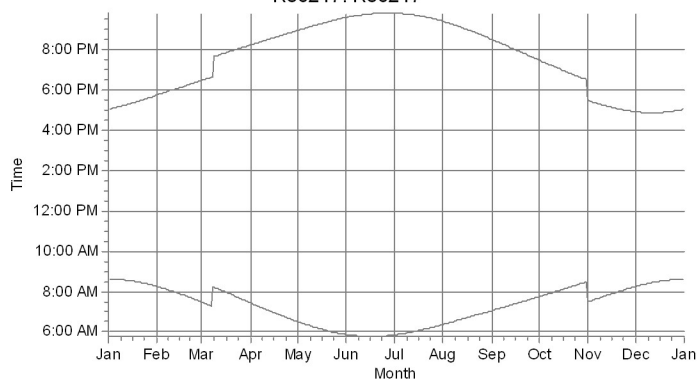
Rec215: Rec215



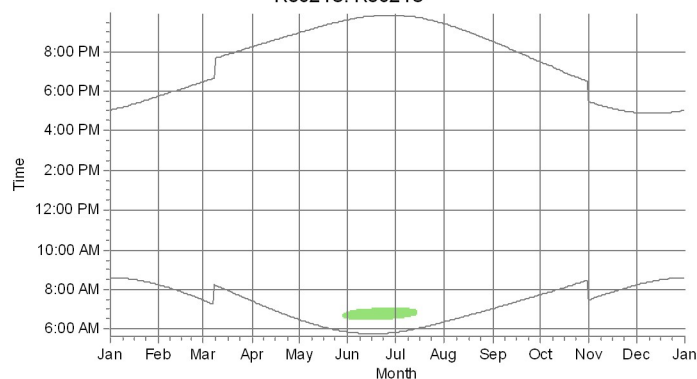
Rec216: Rec216



Rec217: Rec217



Rec218: Rec218



WTGs

D51: D51

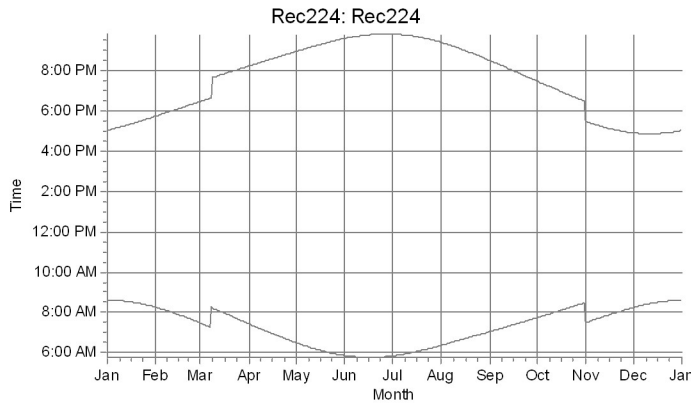
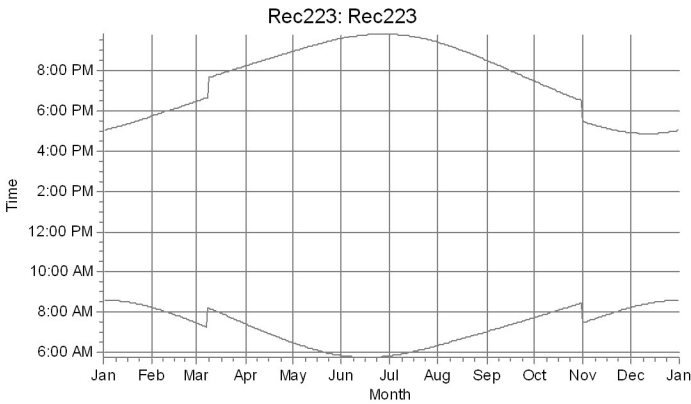
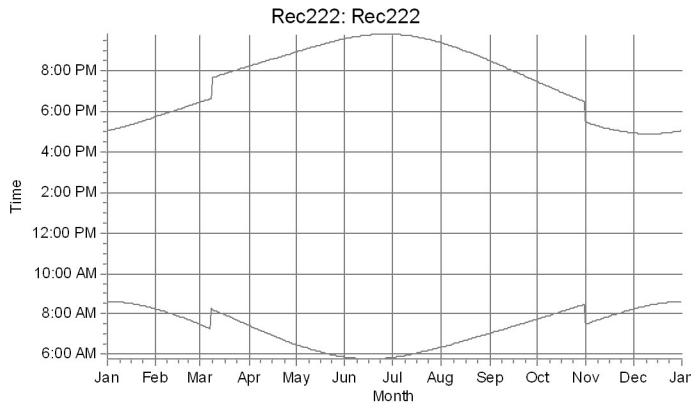
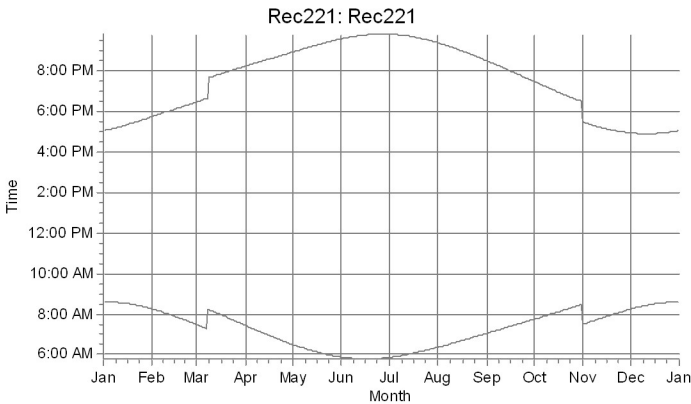
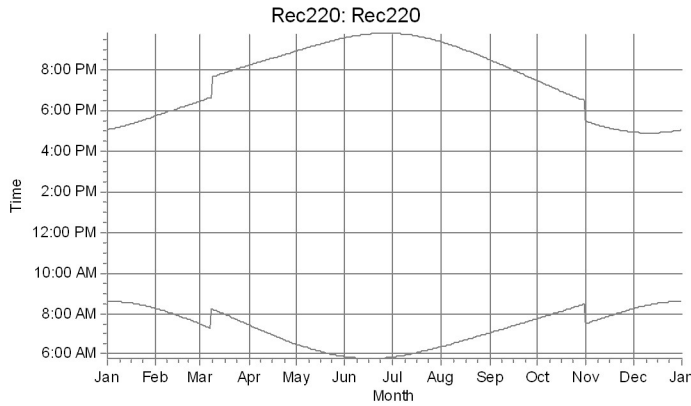
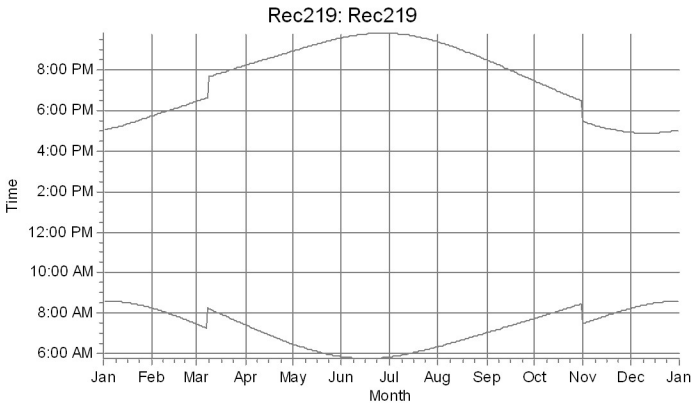
Project: **Prairie_Wind**

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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Calculated:
3/11/2026 2:22 PM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

Project:

Prairie_Wind

Description:

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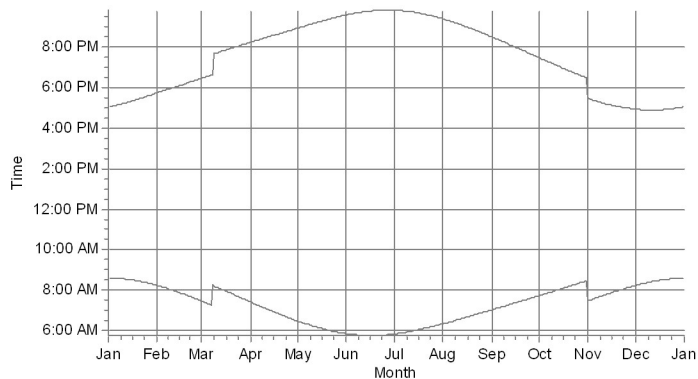
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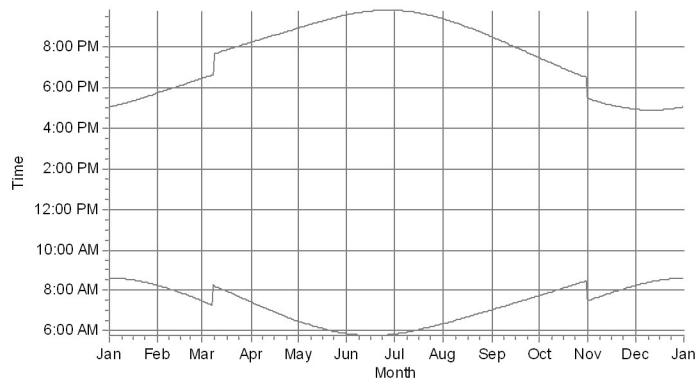
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

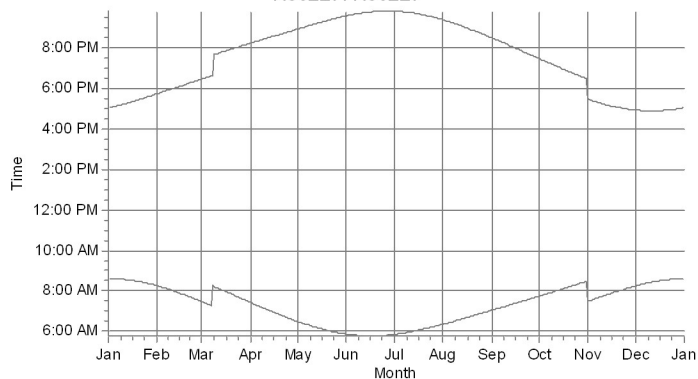
Rec225: Rec225



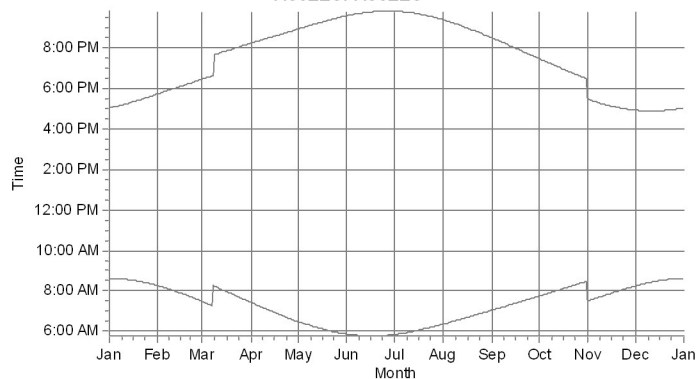
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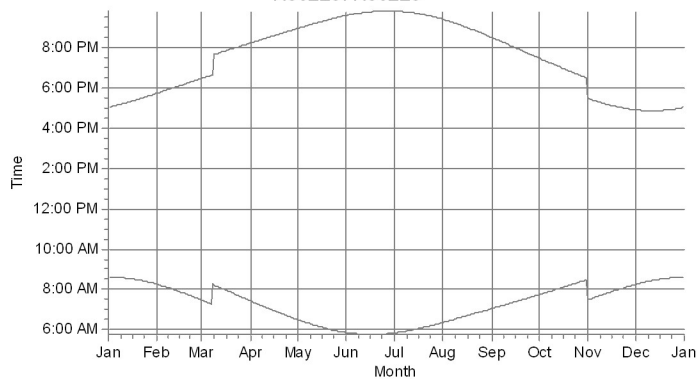
Rec227: Rec227



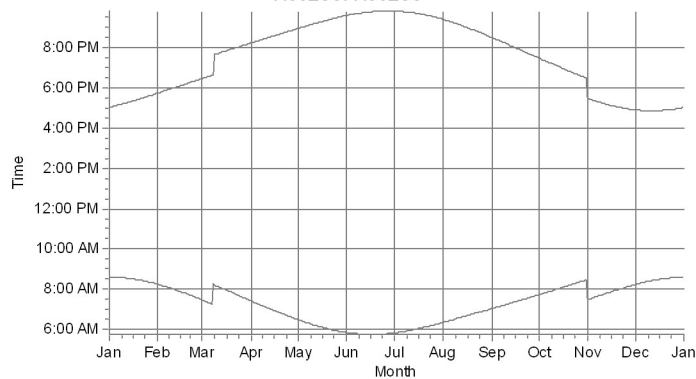
Rec228: Rec228



Rec229: Rec229



Rec230: Rec230



WTGs

Project:

Prairie_Wind

Description:

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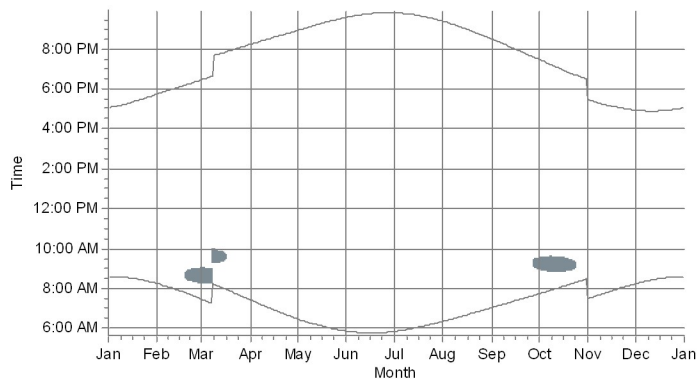
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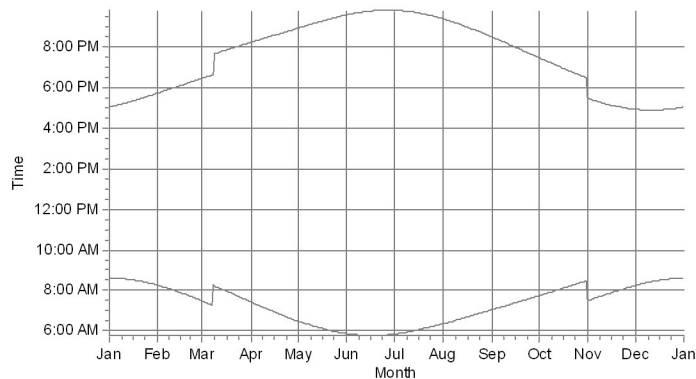
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

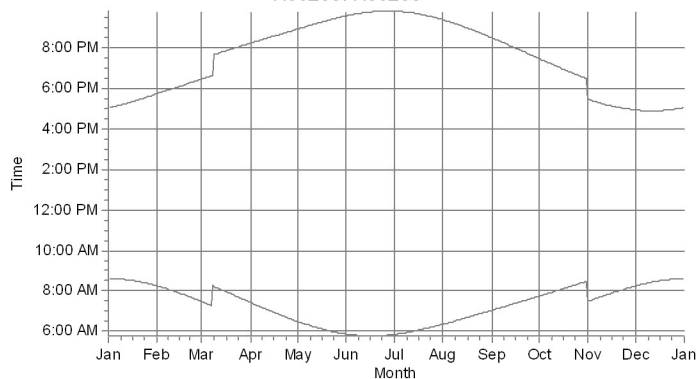
Rec231: Rec231



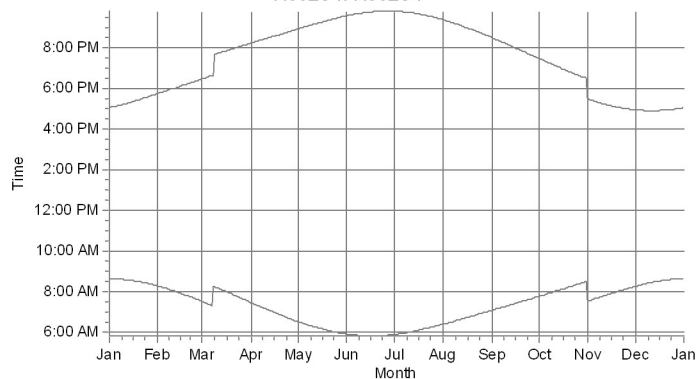
Rec232: Rec232



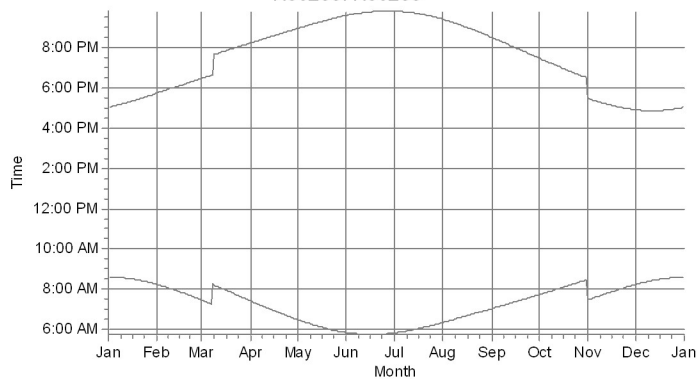
Rec233: Rec233



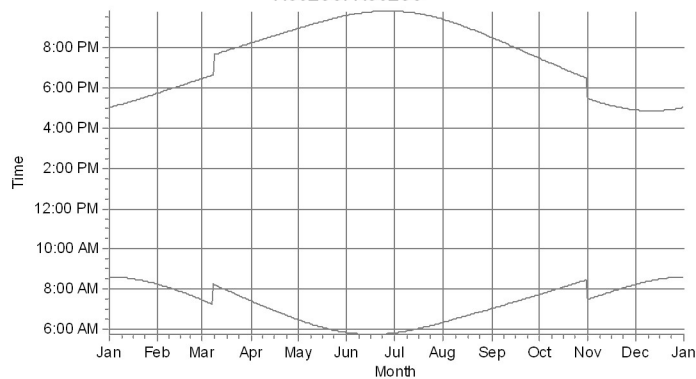
Rec234: Rec234



Rec235: Rec235



Rec236: Rec236



WTGs

B24: B24

Project:

Prairie_Wind

Description:

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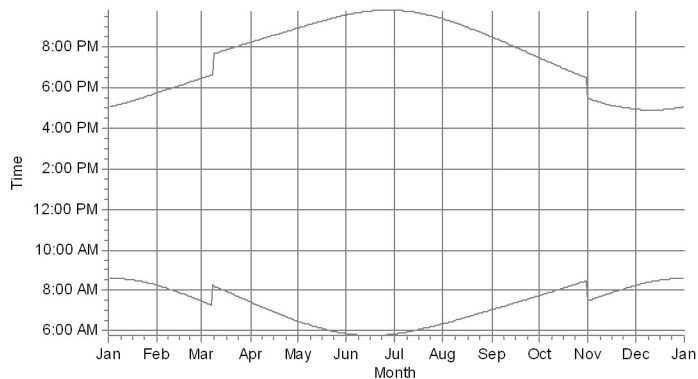
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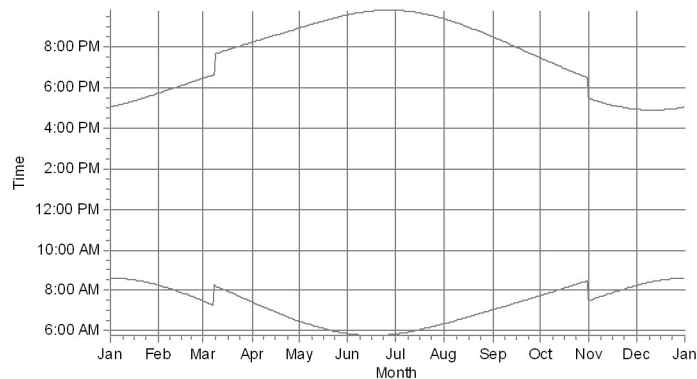
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

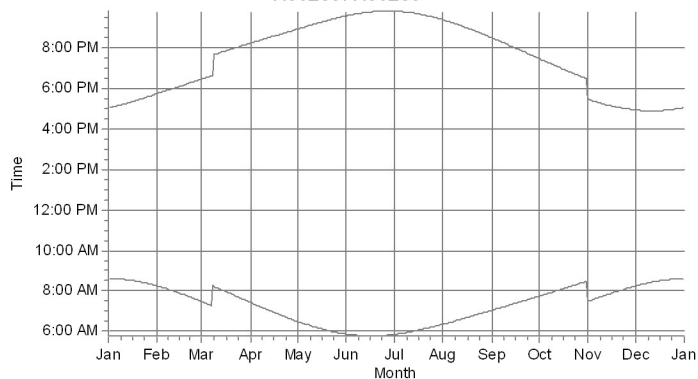
Rec237: Rec237



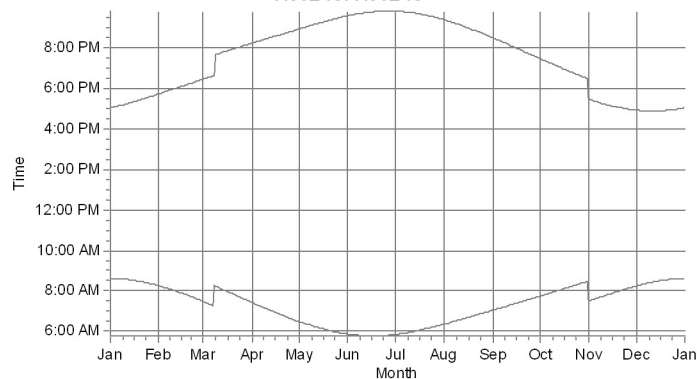
Rec238: Rec238



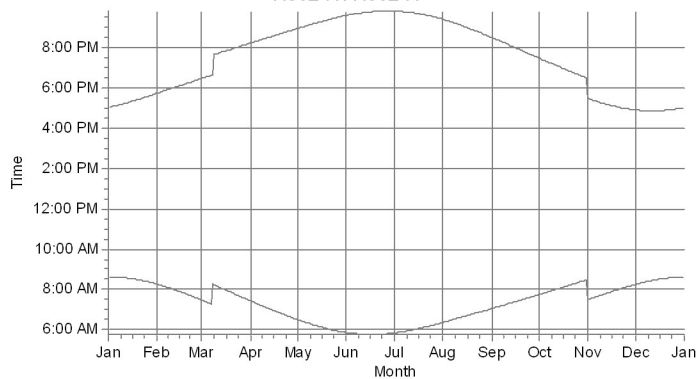
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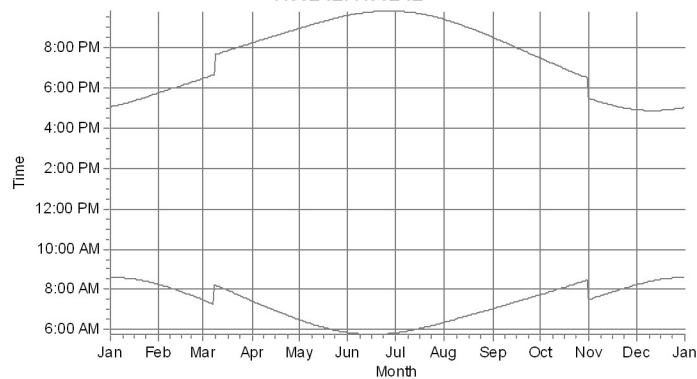
Rec240: Rec240



Rec241: Rec241



Rec242: Rec242



WTGs

Project:

Prairie_Wind

Description:

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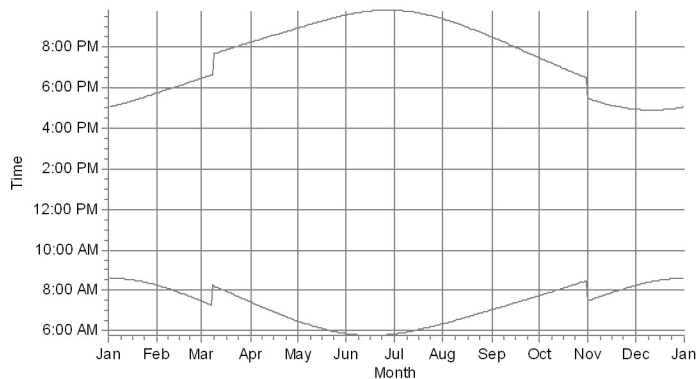
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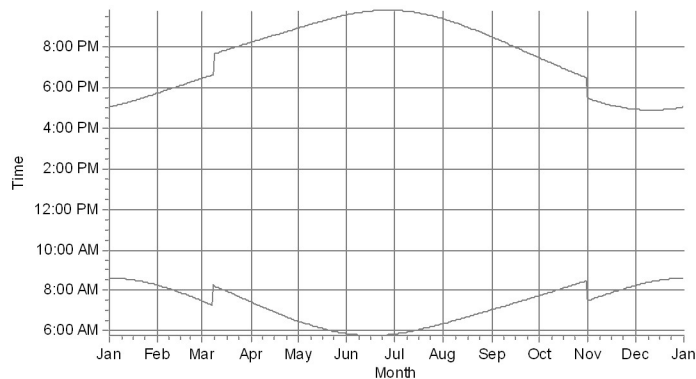
SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs

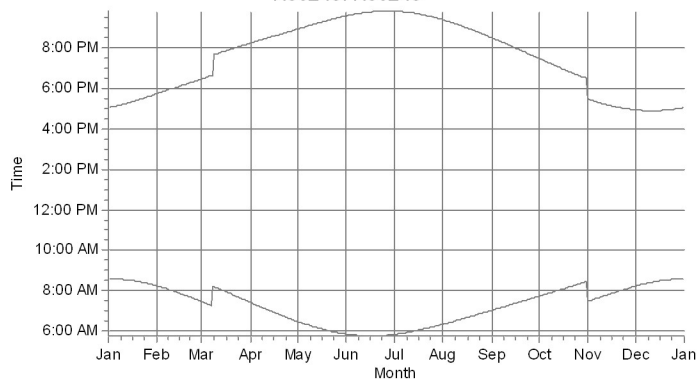
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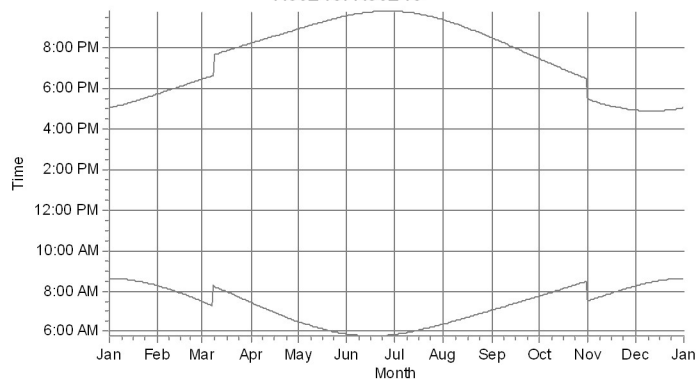
Rec244: Rec244



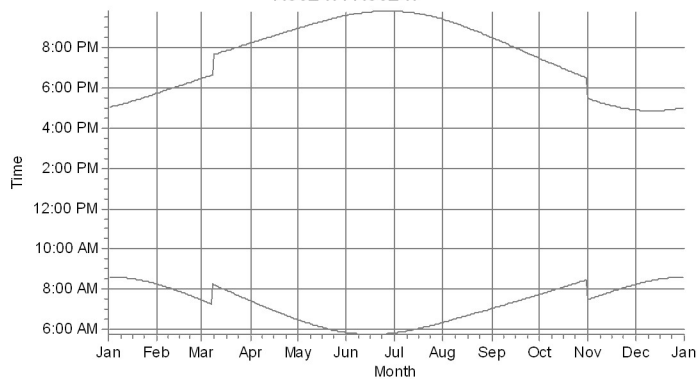
Rec245: Rec245



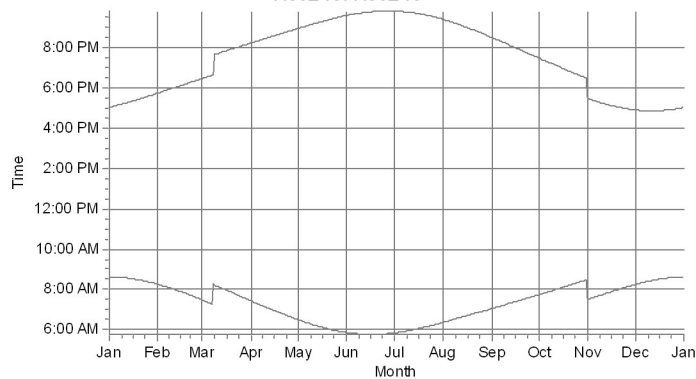
Rec246: Rec246



Rec247: Rec247



Rec248: Rec248



WTGs

Project:

Prairie_Wind

Description:

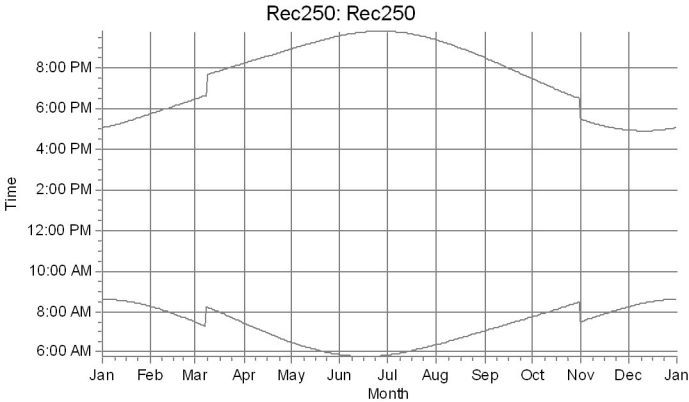
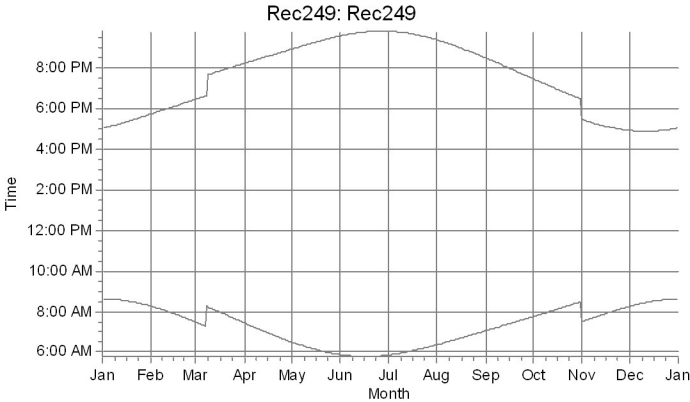
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SHADOW - Calendar, graphical

Calculation: Shadow Calculation_All WTG as Existing WTGs



WTGs

Figure D-2: Shadow Flicker Calendar (Proposed)



Project:

Prairie_Wind

Description:

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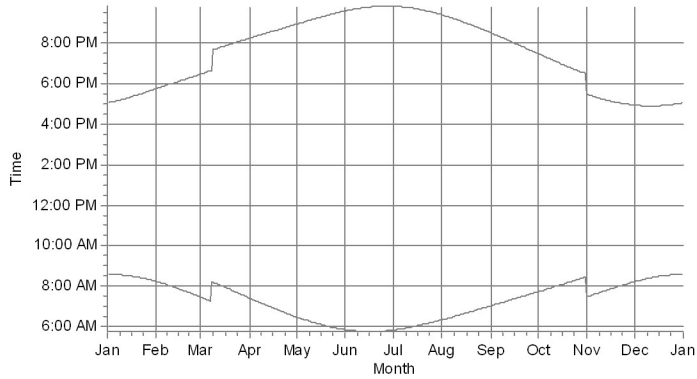
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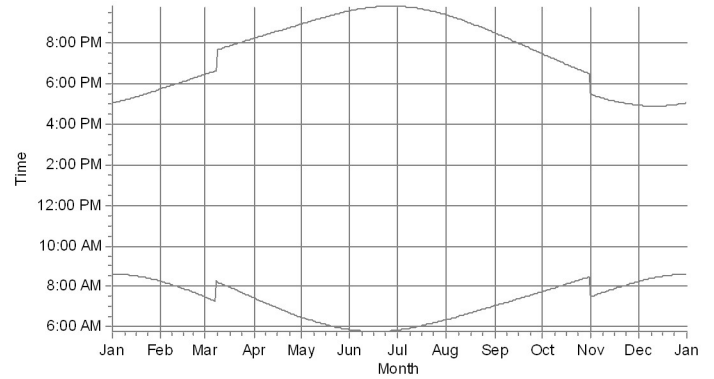
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

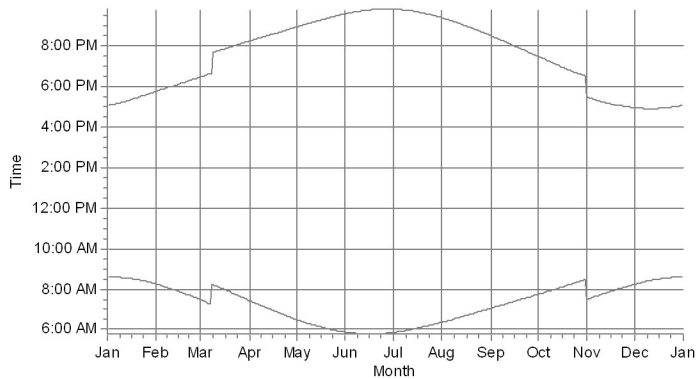
Rec001: Rec001



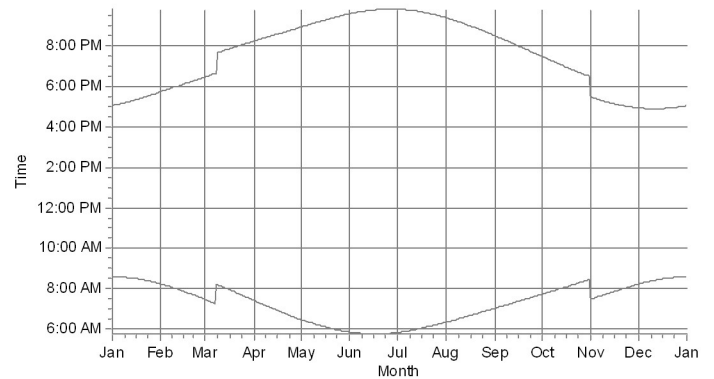
Rec002: Rec002



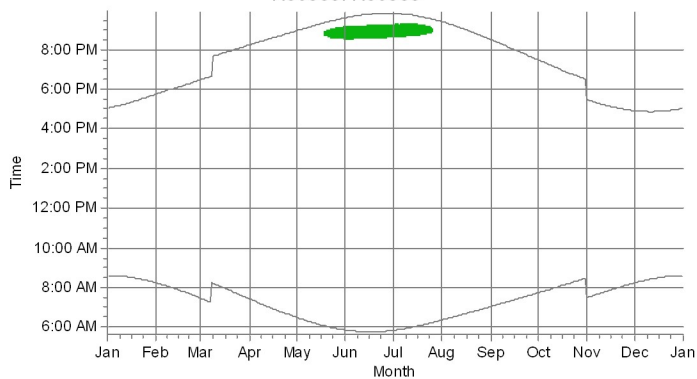
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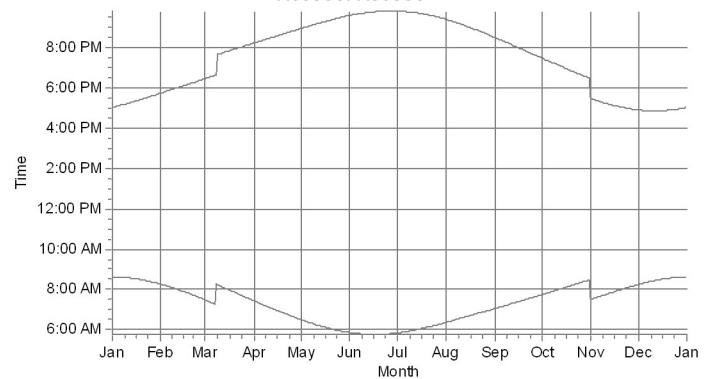
Rec004: Rec004



Rec005: Rec005



Rec006: Rec006



WTGs

C33: C33

Project:

Prairie_Wind

Description:

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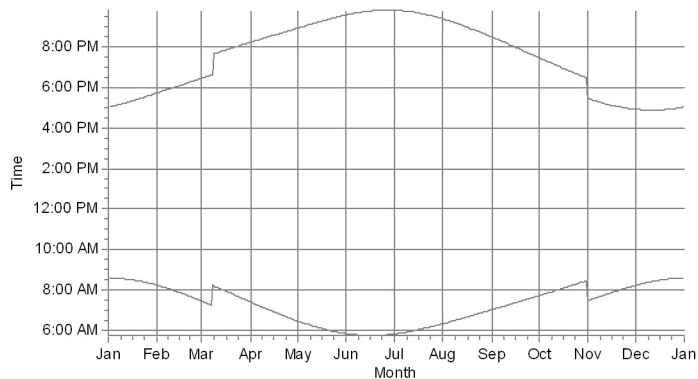
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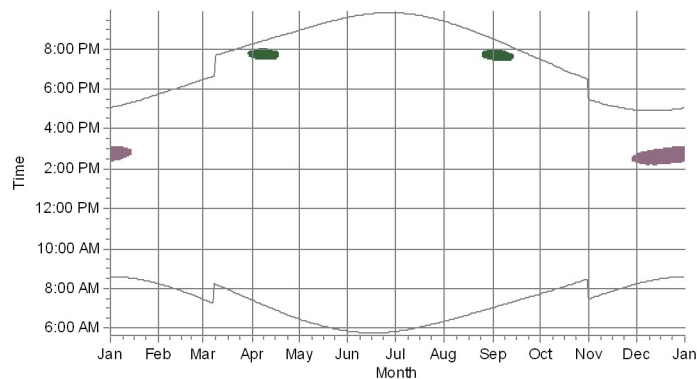
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

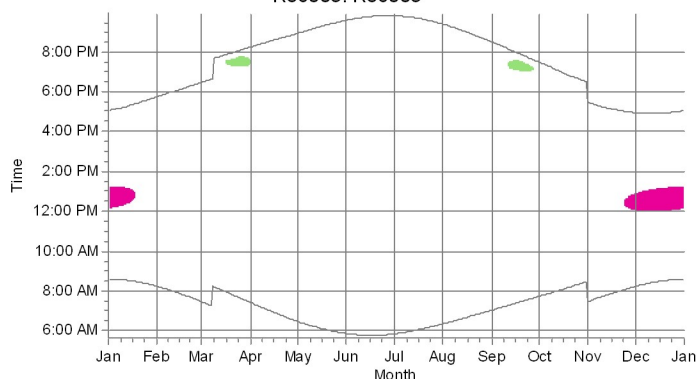
Rec007: Rec007



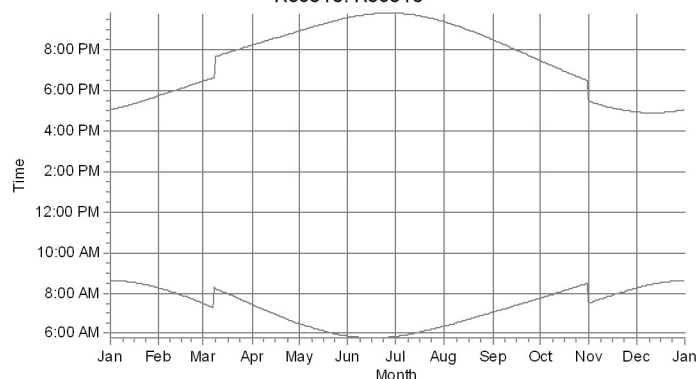
Rec008: Rec008



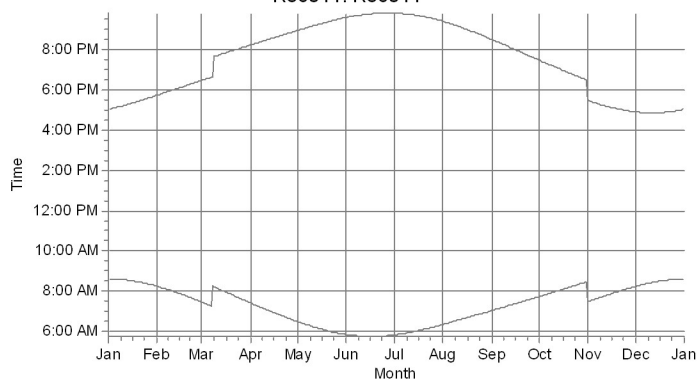
Rec009: Rec009



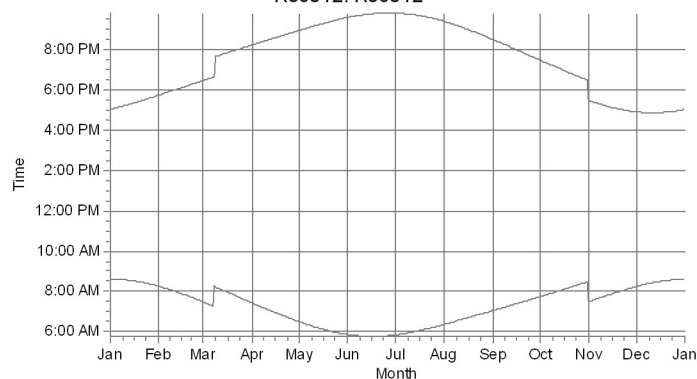
Rec010: Rec010



Rec011: Rec011



Rec012: Rec012



WTGs

D50: D50 D58: D58 D57: D57 D51: D51

Project: **Prairie_Wind**

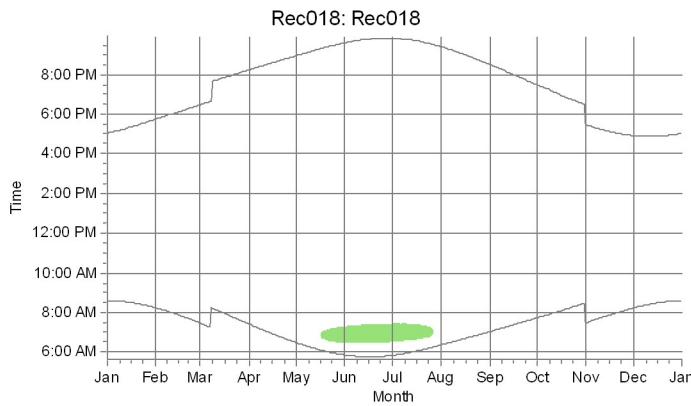
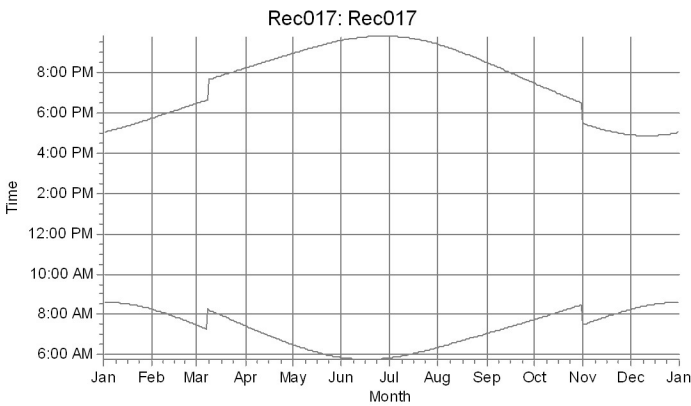
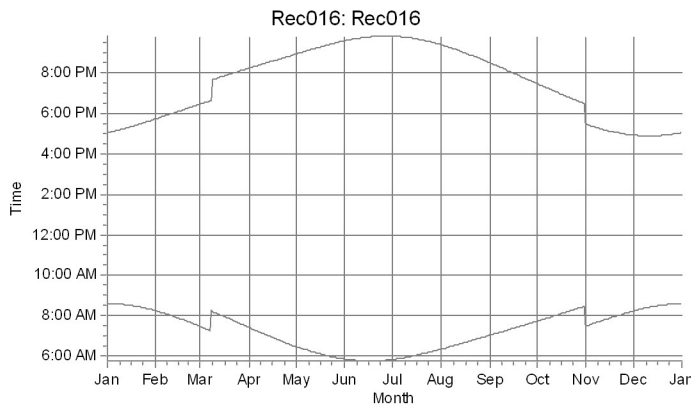
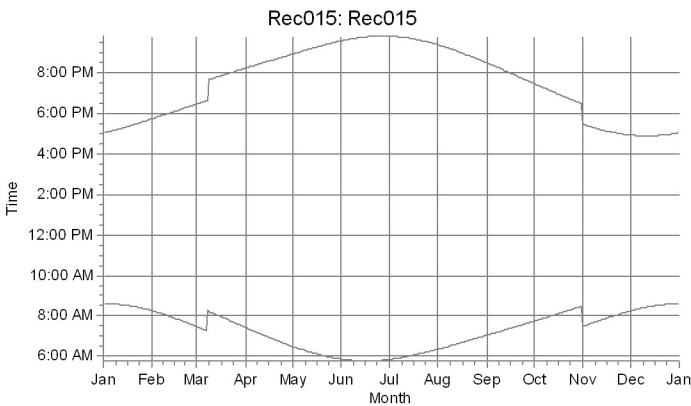
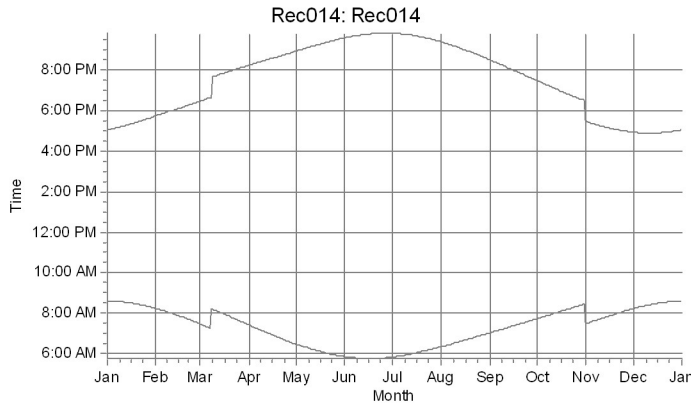
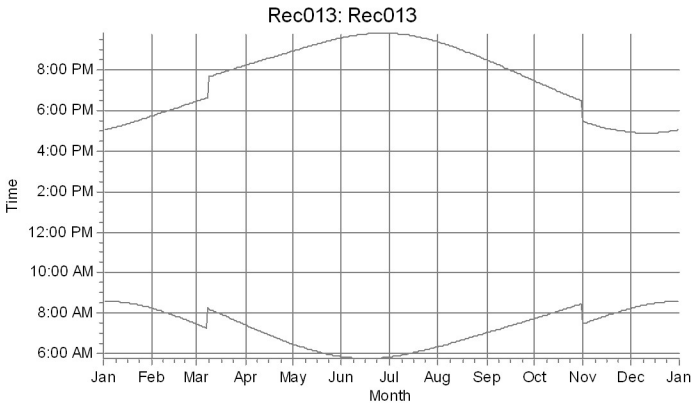
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SHADOW - Calendar, graphical

Calculation: Shadow Calculation



WTGs
D51: D51

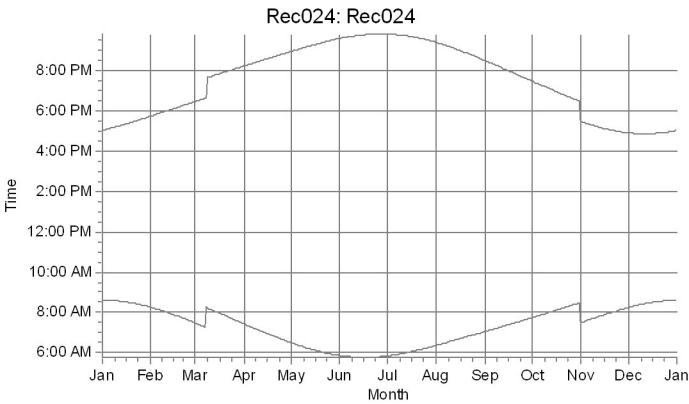
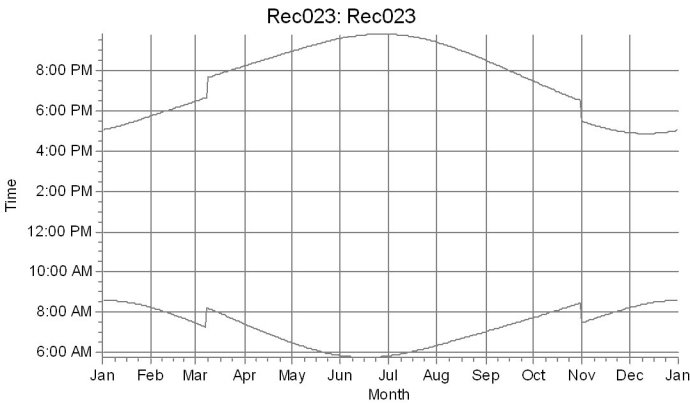
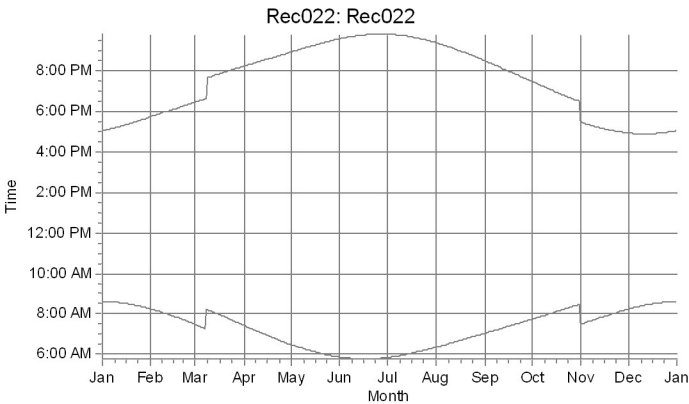
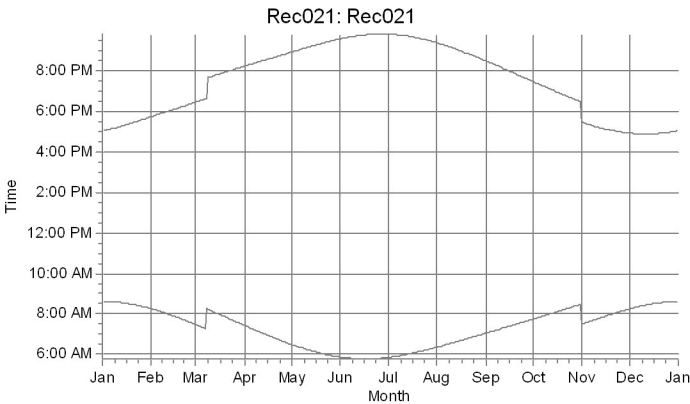
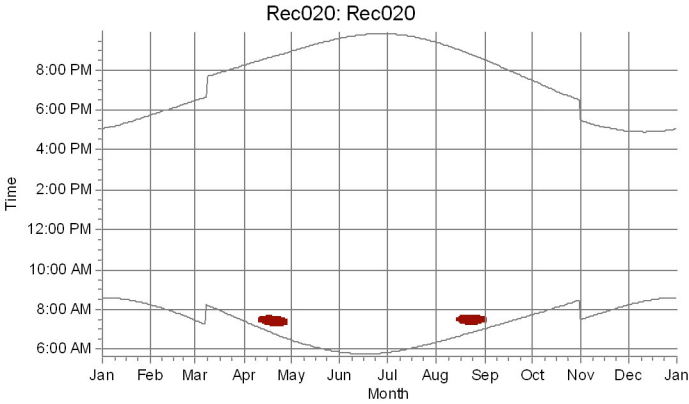
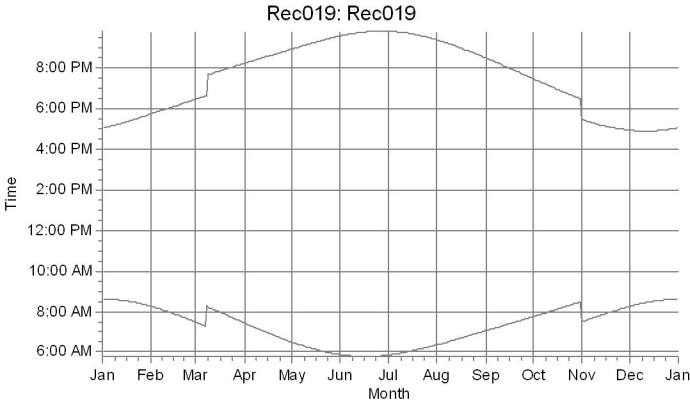
Project: **Prairie_Wind**

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SHADOW - Calendar, graphical

Calculation: Shadow Calculation



WTGs
C40: C40

Project:

Prairie_Wind

Description:

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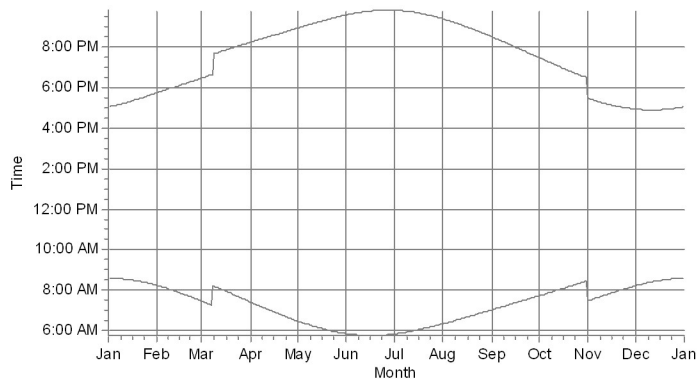
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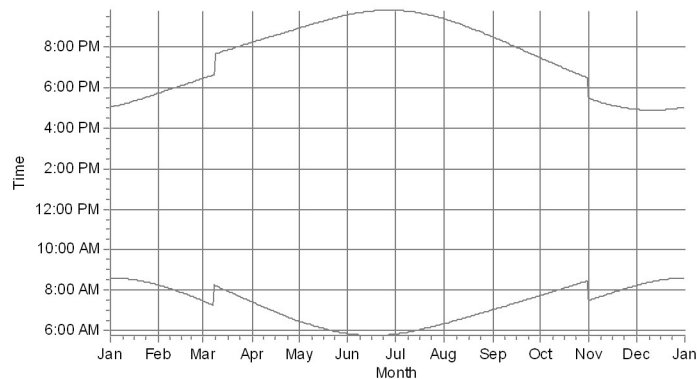
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

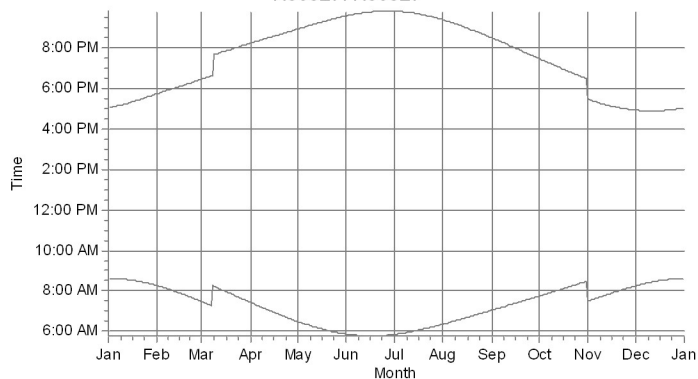
Rec025: Rec025



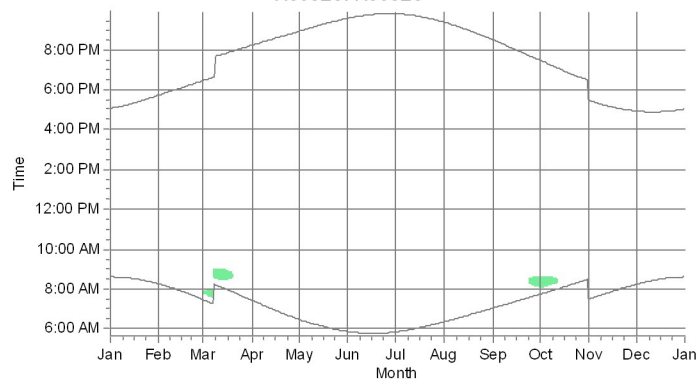
Rec026: Rec026



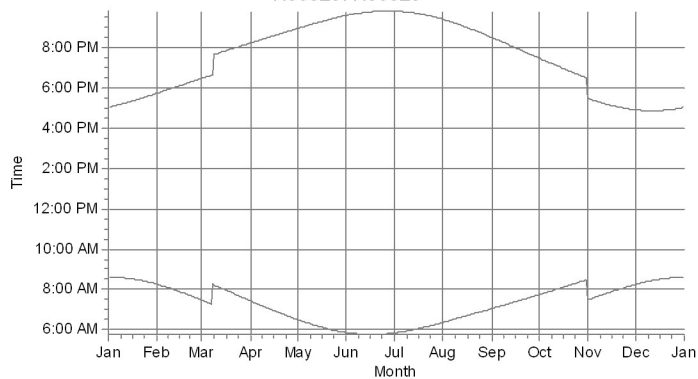
Rec027: Rec027



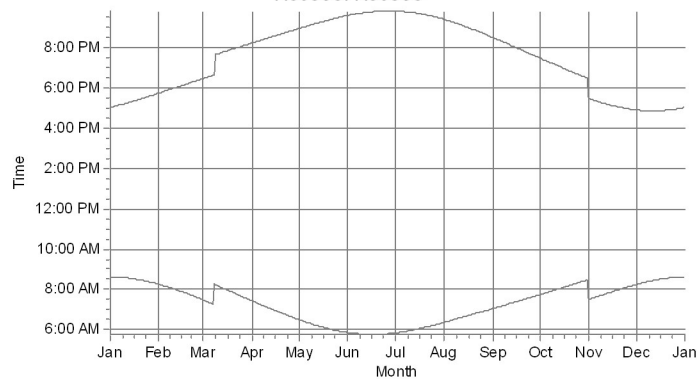
Rec028: Rec028



Rec029: Rec029



Rec030: Rec030



WTGs

MW102: MW102

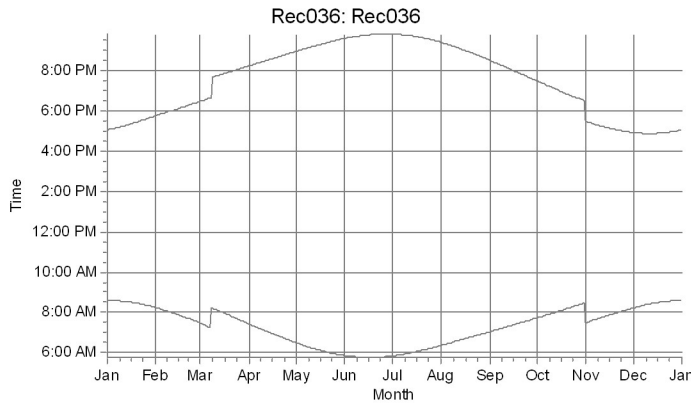
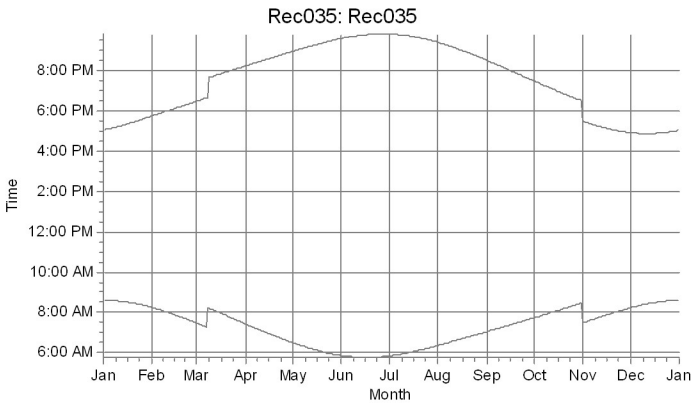
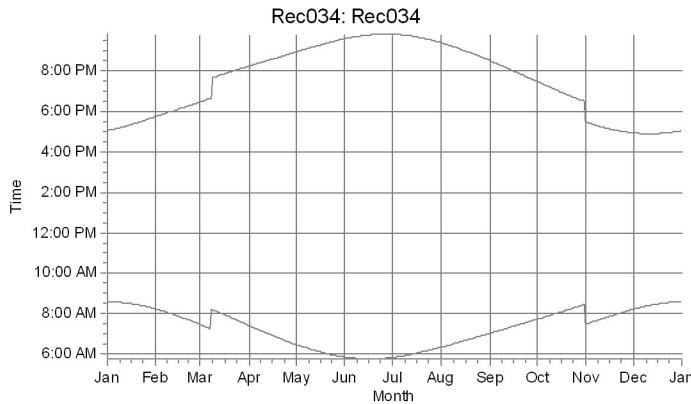
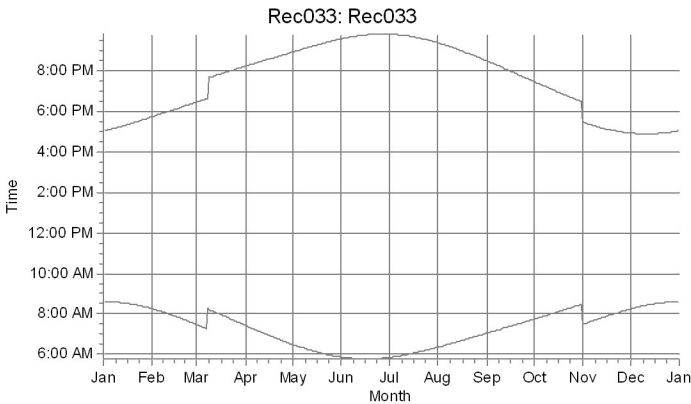
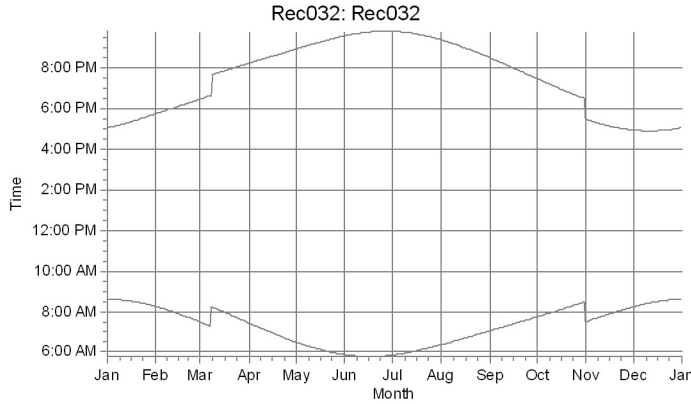
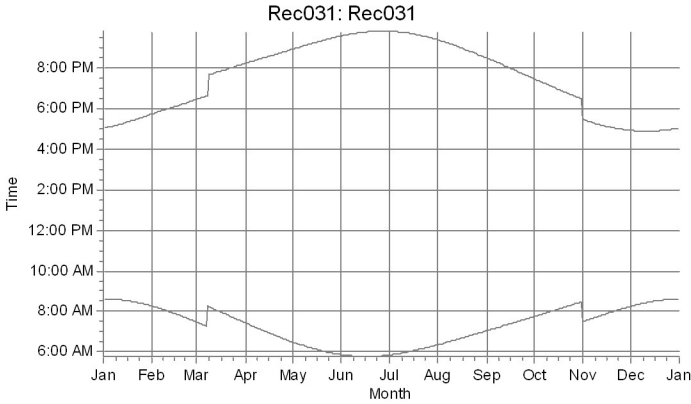
Project: **Prairie_Wind**

Description: Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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Calculated:
3/10/2026 11:30 AM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation



WTGs

Project: **Prairie_Wind**

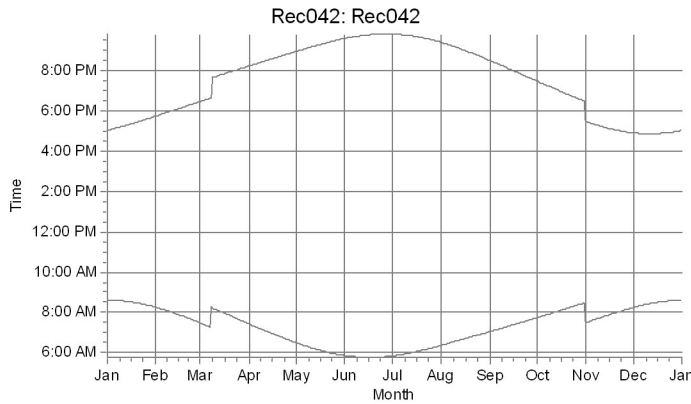
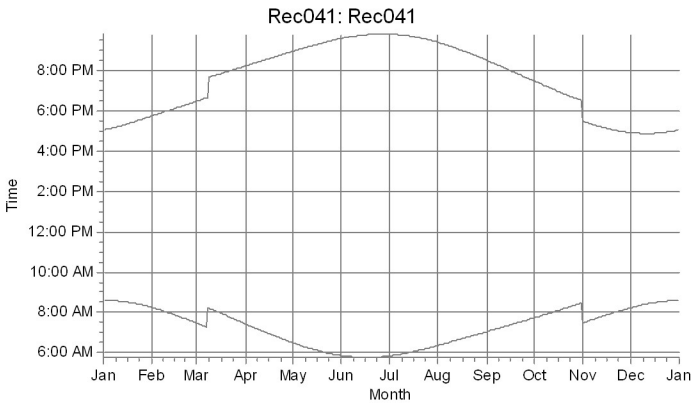
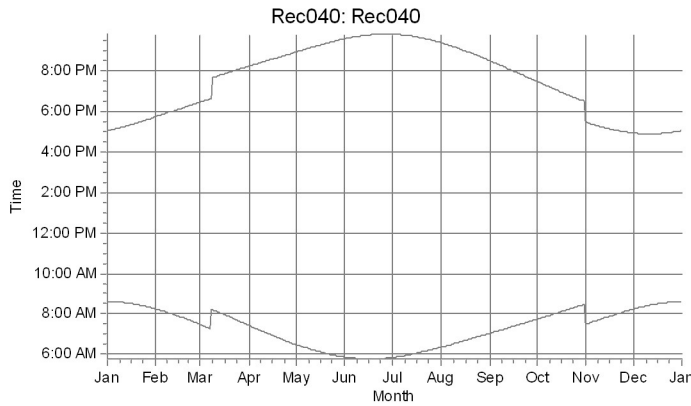
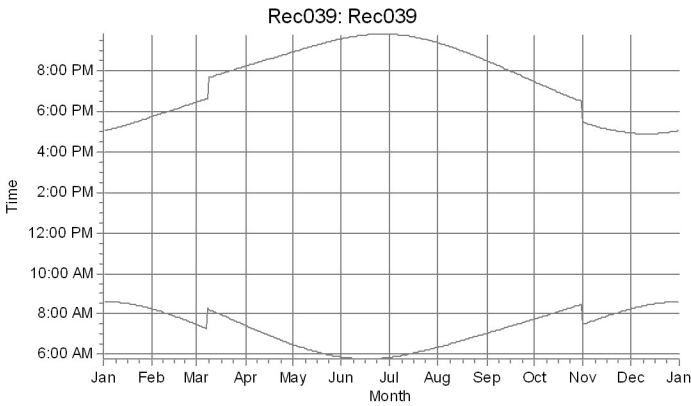
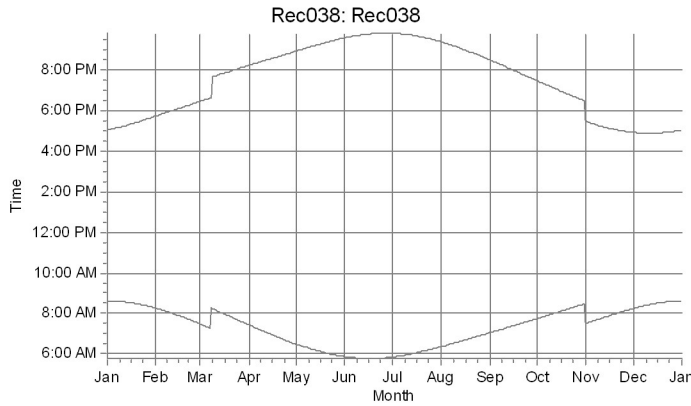
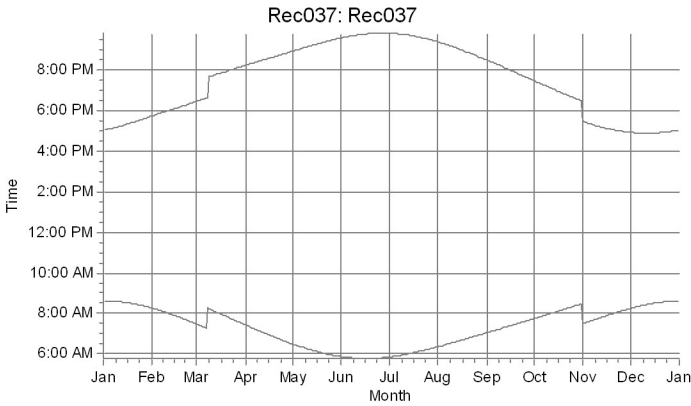
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3/10/2026 11:30 AM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation



WTGs

Project:

Prairie_Wind

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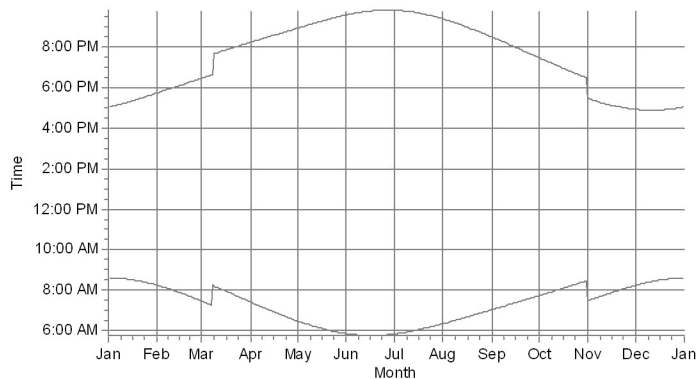
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3/10/2026 11:30 AM/4.2.285

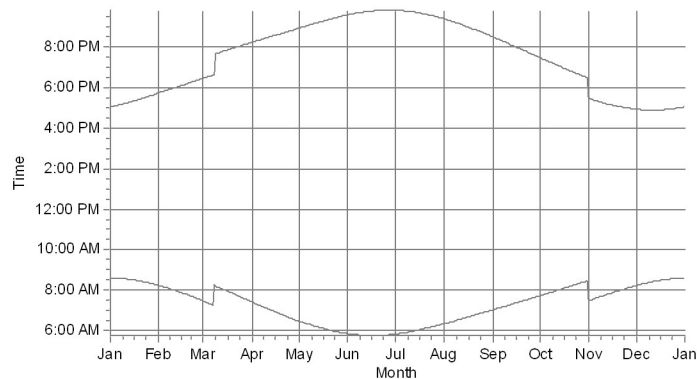
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

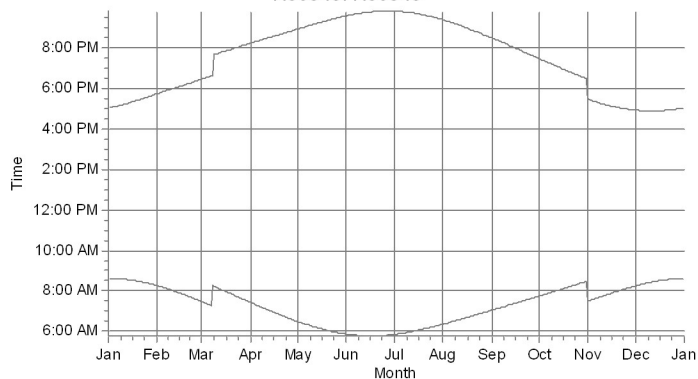
Rec043: Rec043



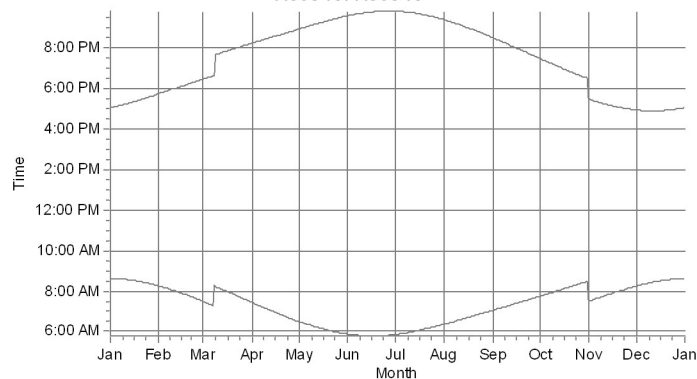
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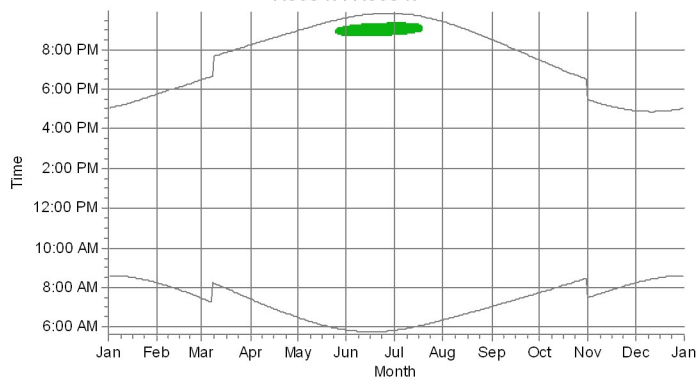
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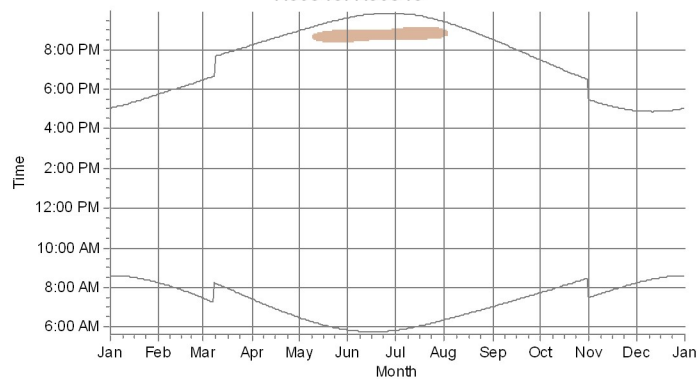
Rec046: Rec046



Rec047: Rec047



Rec048: Rec048



WTGs

E63: E63

C33: C33

Project:

Prairie_Wind

Description:

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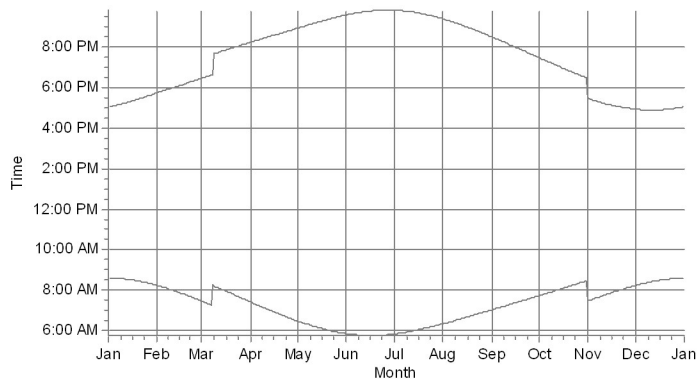
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3/10/2026 11:30 AM/4.2.285

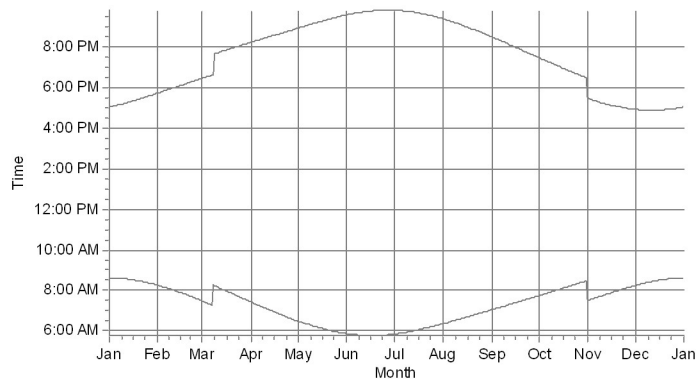
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

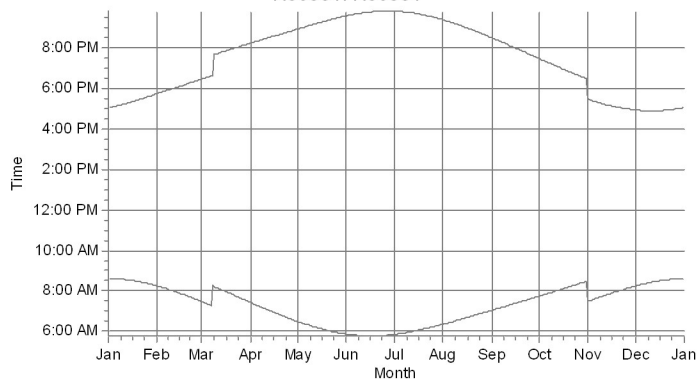
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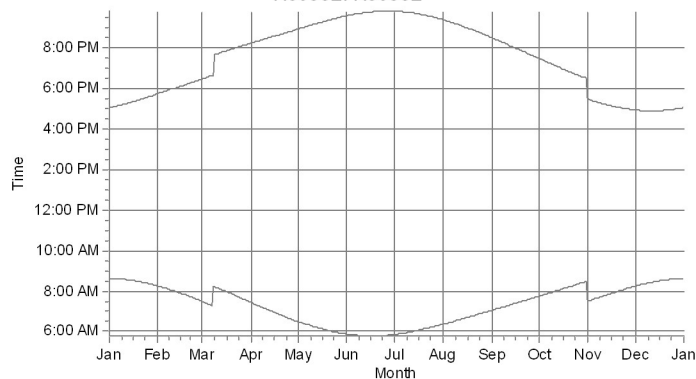
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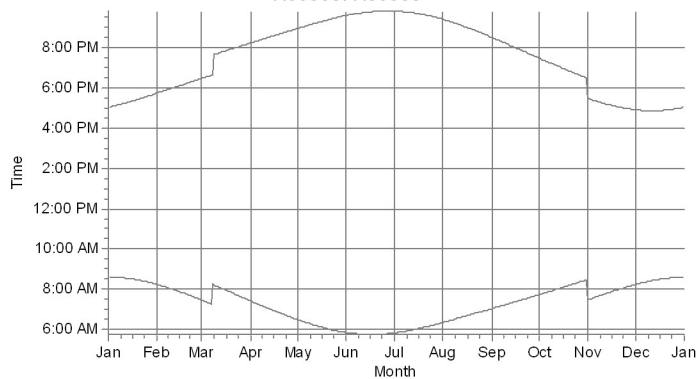
Rec051: Rec051



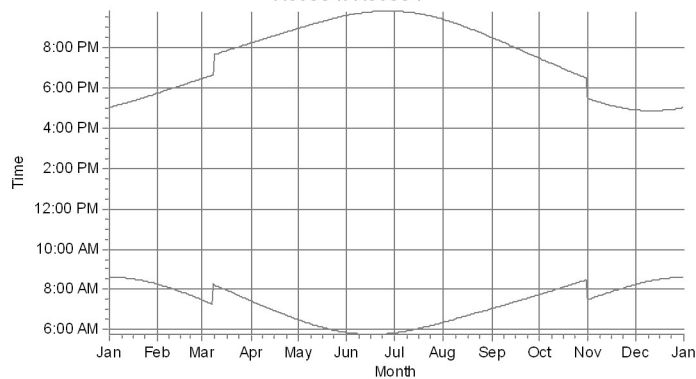
Rec052: Rec052



Rec053: Rec053



Rec054: Rec054



WTGs

Project:

Prairie_Wind

Description:

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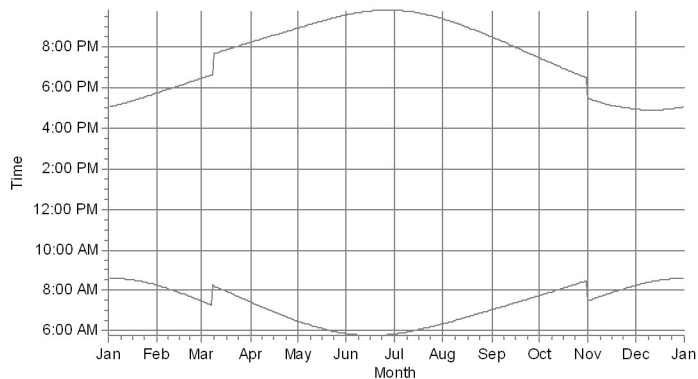
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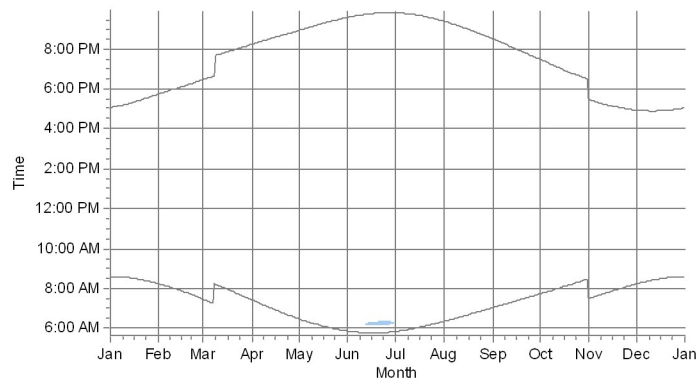
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

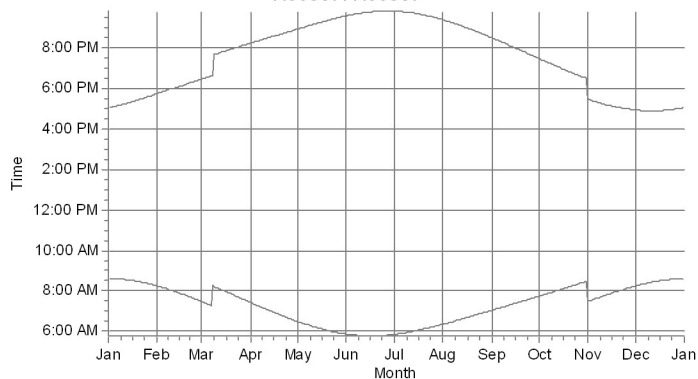
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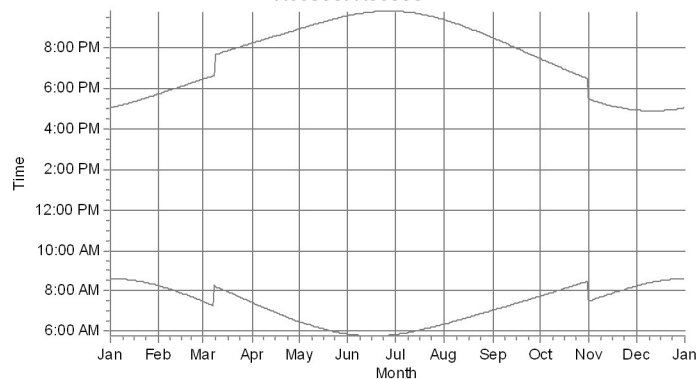
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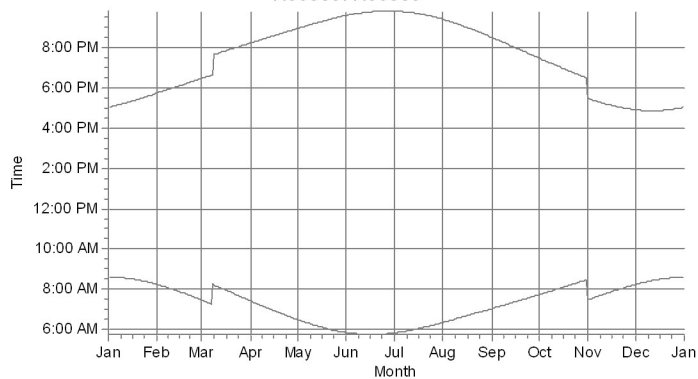
Rec057: Rec057



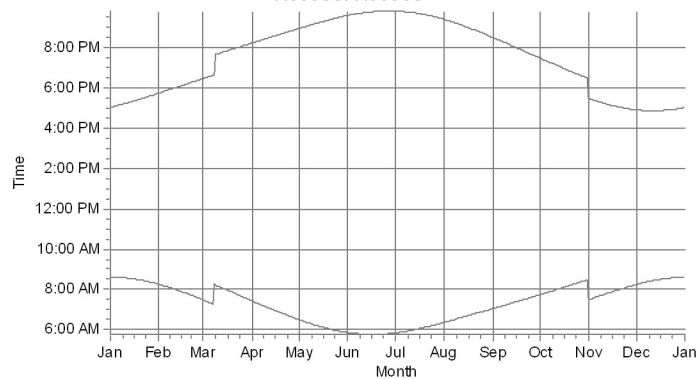
Rec058: Rec058



Rec059: Rec059



Rec060: Rec060



WTGs

A01: A01

Project:

Prairie_Wind

Description:

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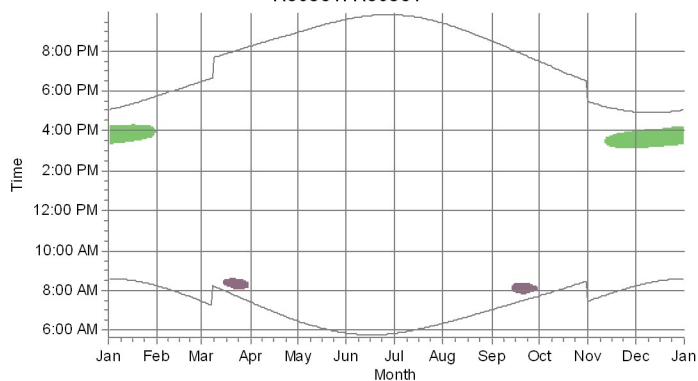
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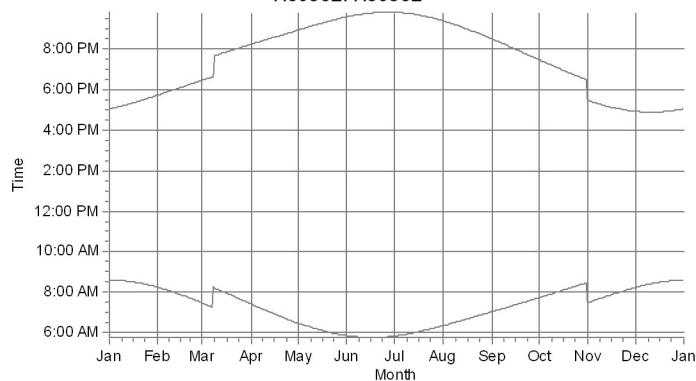
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

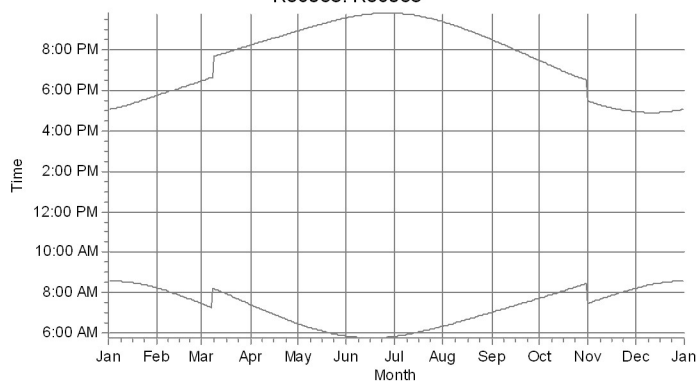
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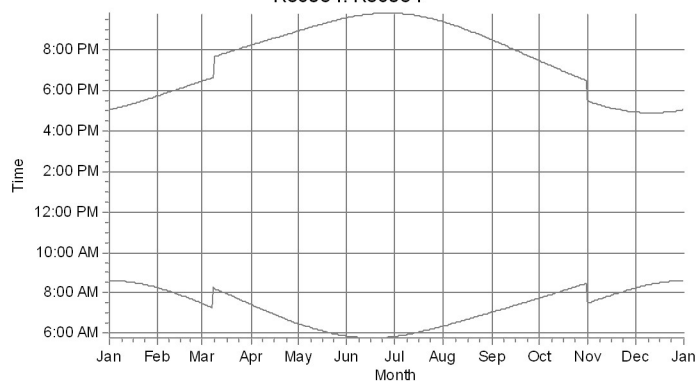
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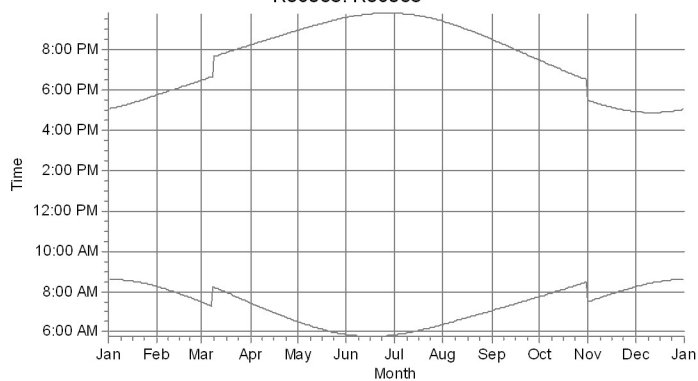
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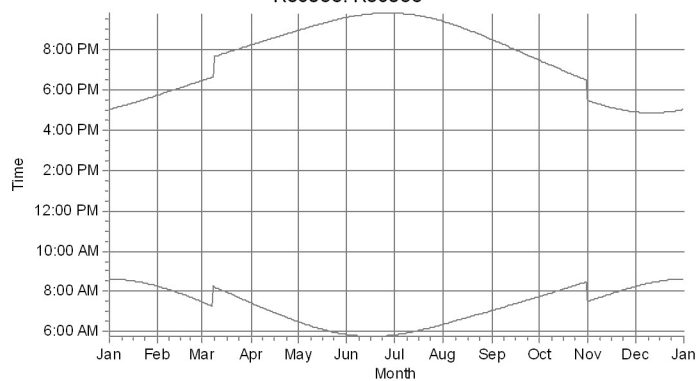
Rec064: Rec064



Rec065: Rec065



Rec066: Rec066



WTGs

D58: D58 D59: D59

Project:

Prairie_Wind

Description:

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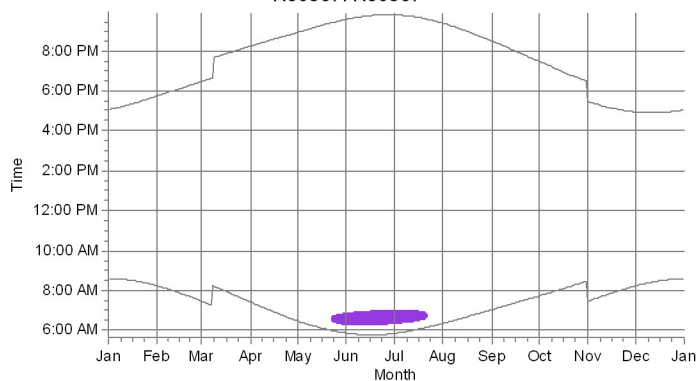
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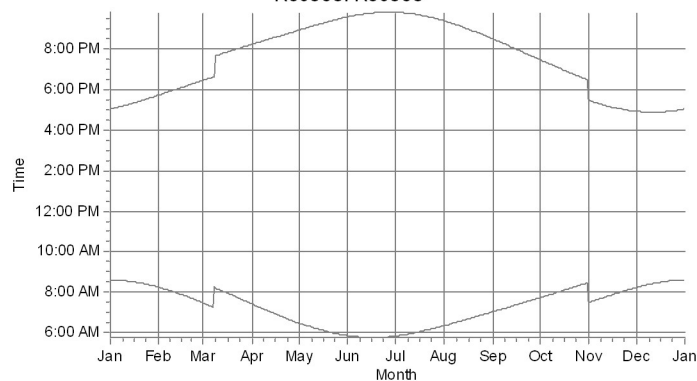
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

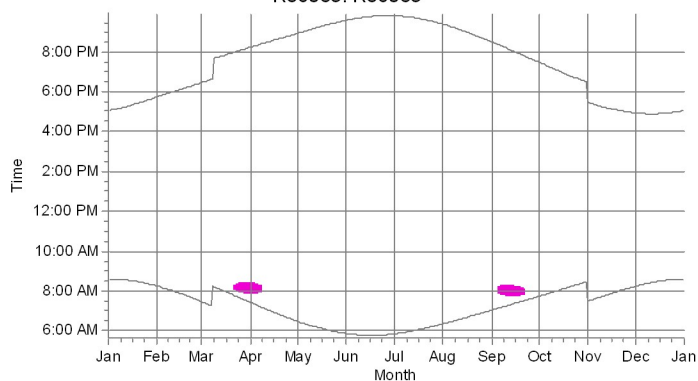
Rec067: Rec067



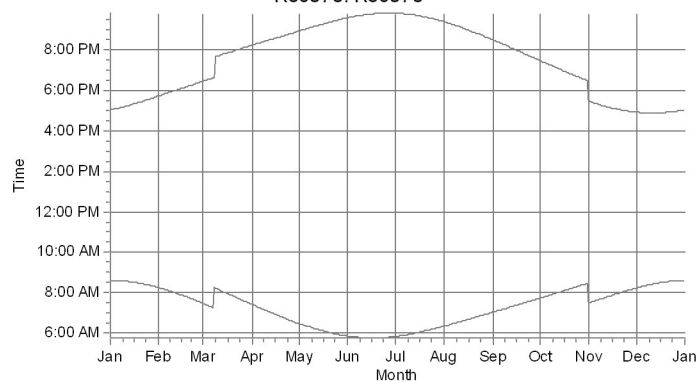
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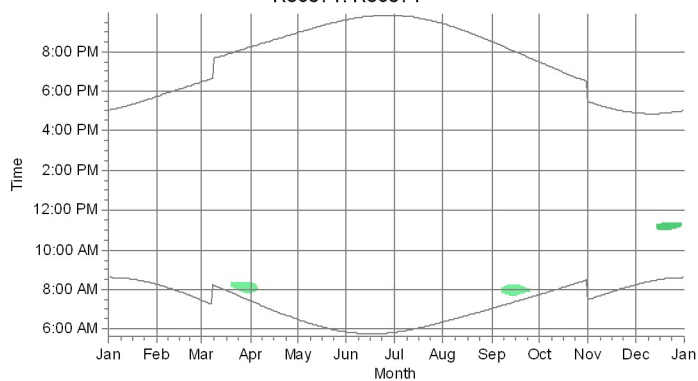
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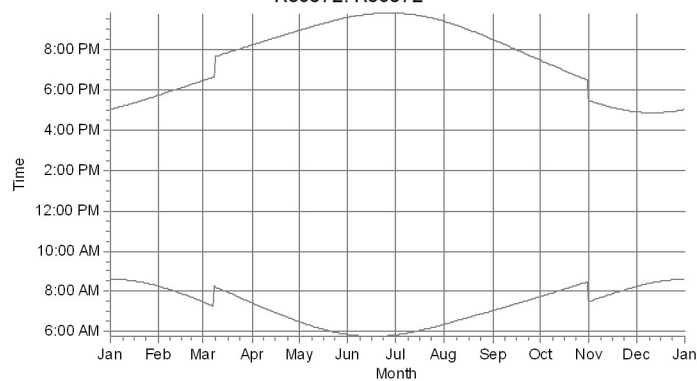
Rec070: Rec070



Rec071: Rec071



Rec072: Rec072



WTGs

A13: A13 MW102: MW102 MW101: MW101 E72: E72

Project:

Prairie_Wind

Description:

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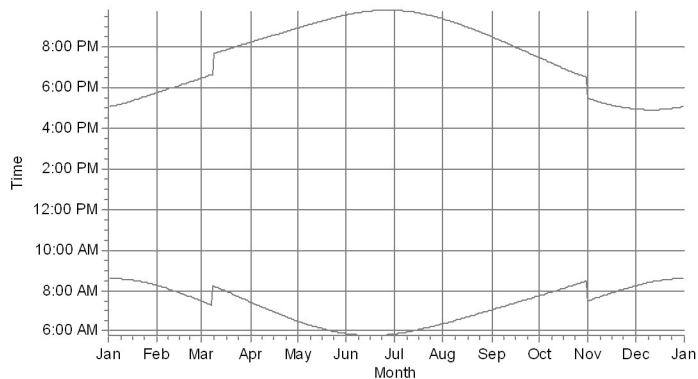
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3/10/2026 11:30 AM/4.2.285

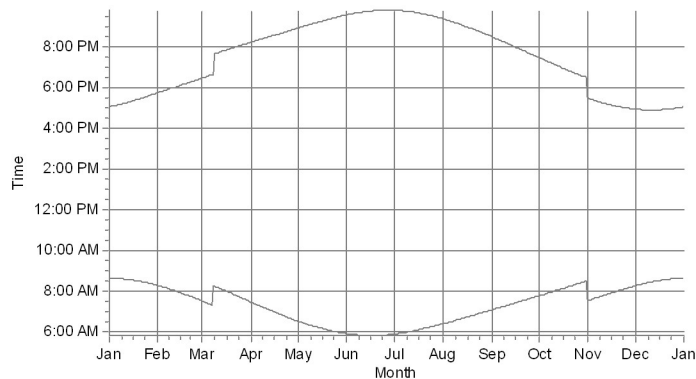
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

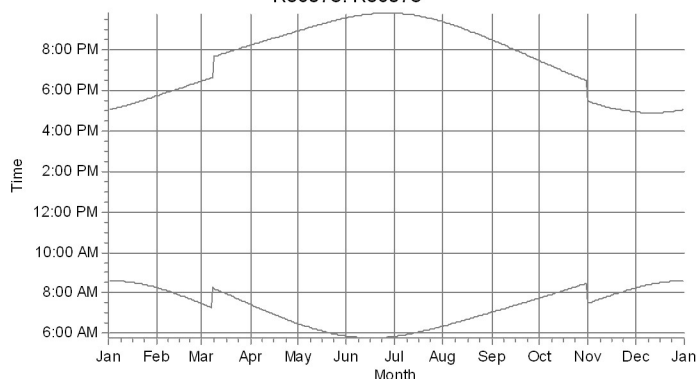
Rec073: Rec073



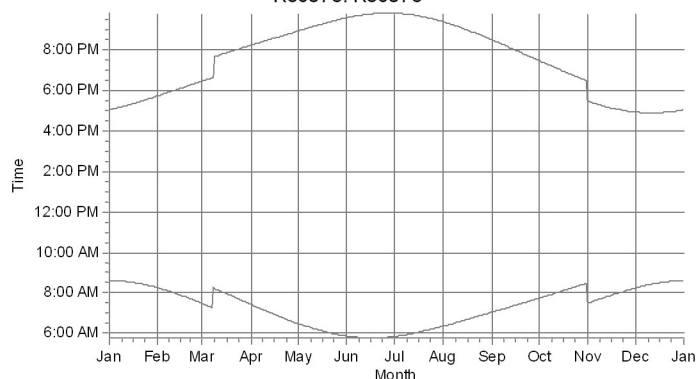
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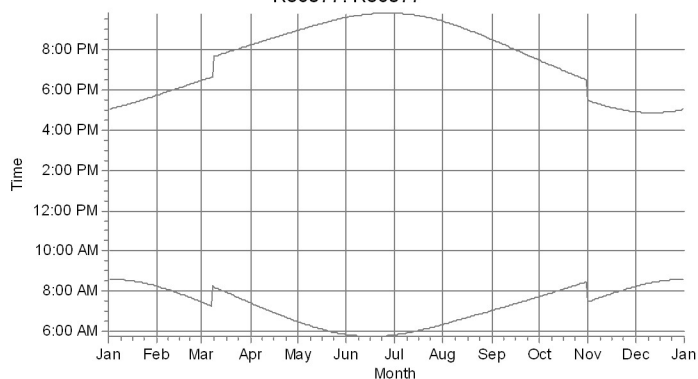
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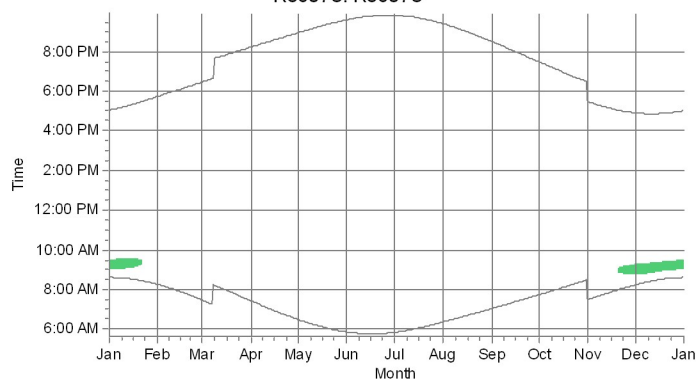
Rec076: Rec076



Rec077: Rec077



Rec078: Rec078



WTGs

MW101: MW101

Project:

Prairie_Wind

Description:

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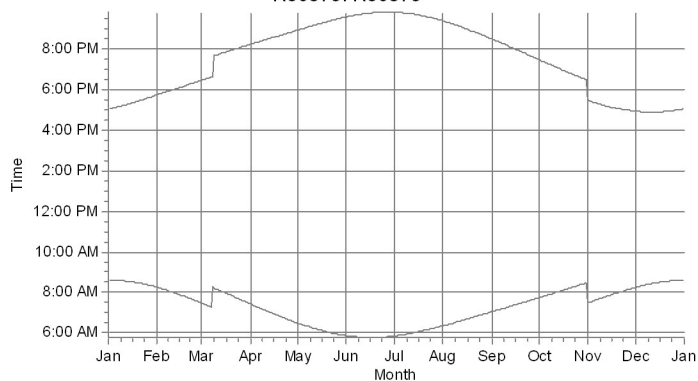
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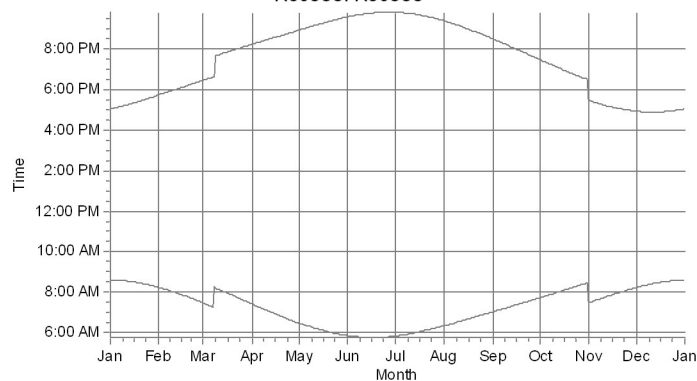
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

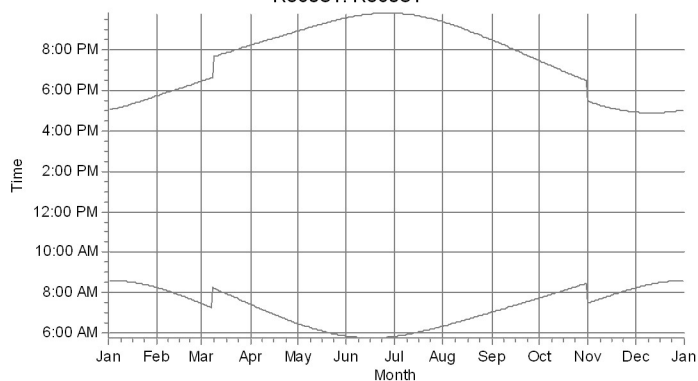
Rec079: Rec079



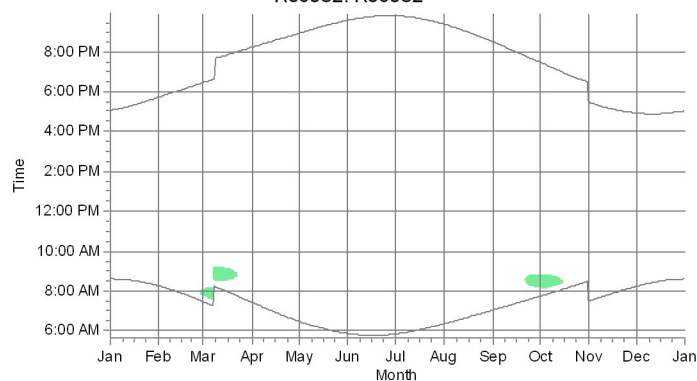
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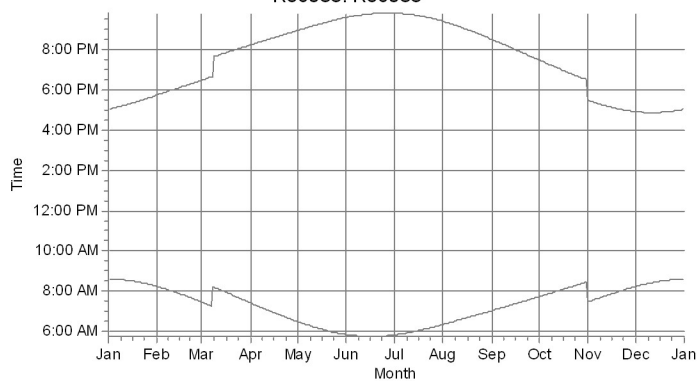
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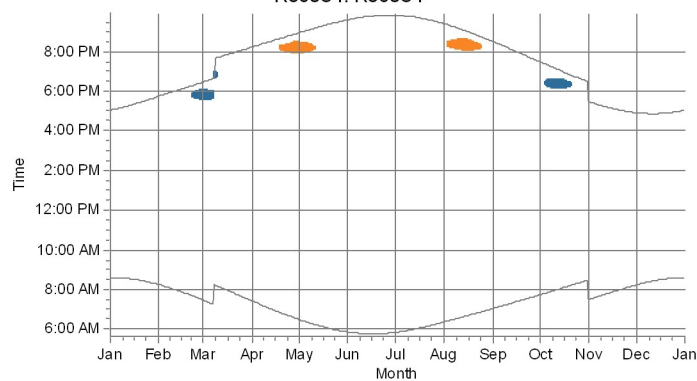
Rec082: Rec082



Rec083: Rec083



Rec084: Rec084



WTGs

B20: B20 B21: B21 MW102: MW102

Project:

Prairie_Wind

Description:

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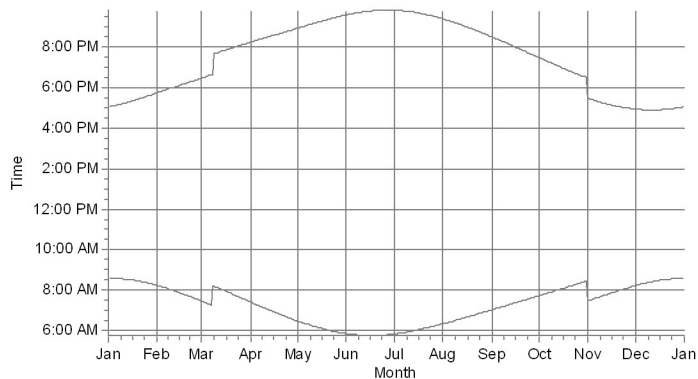
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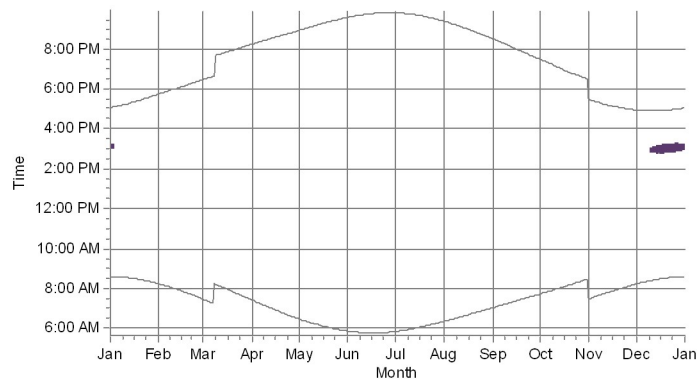
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

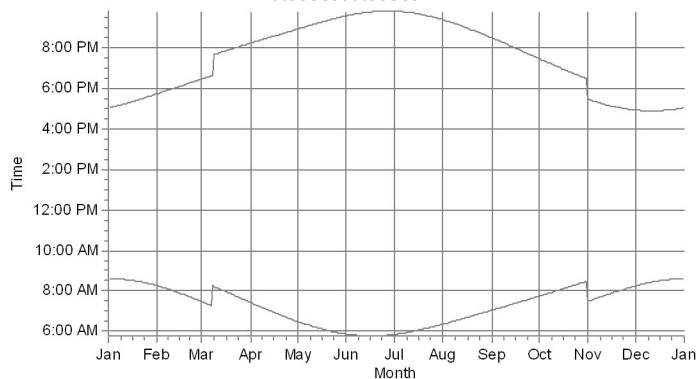
Rec085: Rec085



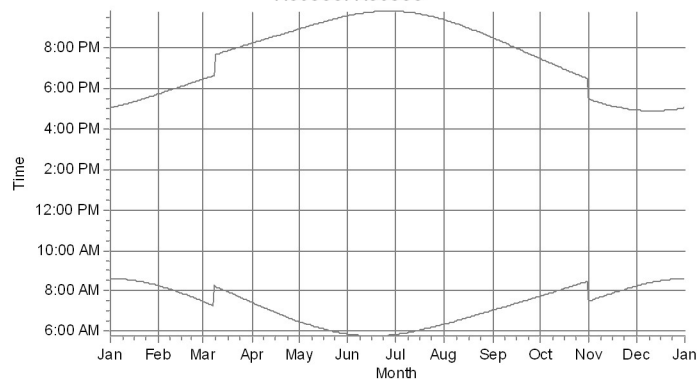
Rec086: Rec086



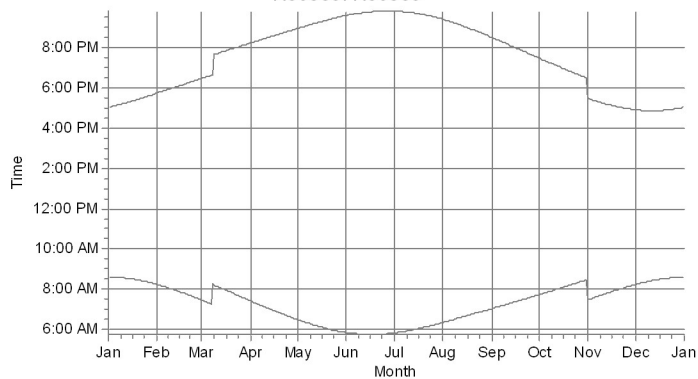
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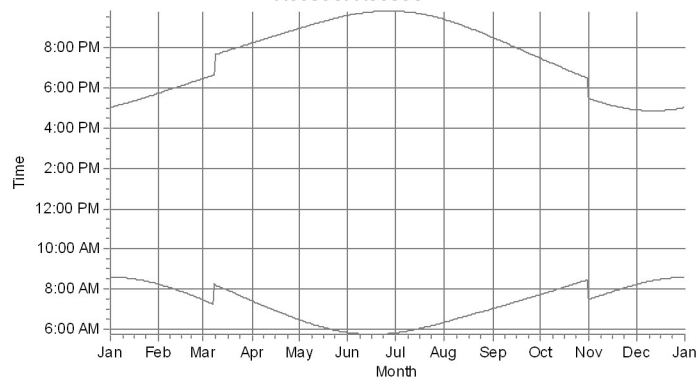
Rec088: Rec088



Rec089: Rec089



Rec090: Rec090



WTGs

E75: E75

Project:

Prairie_Wind

Description:

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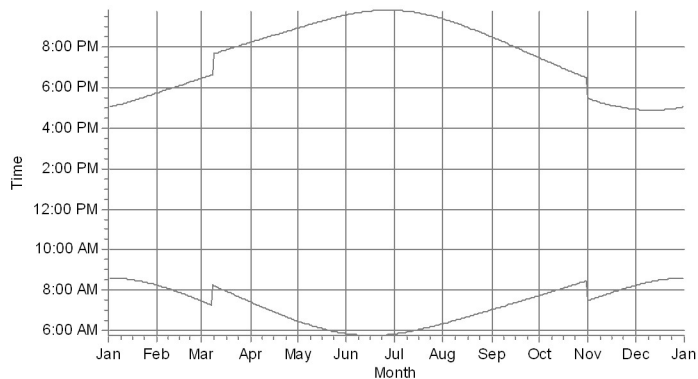
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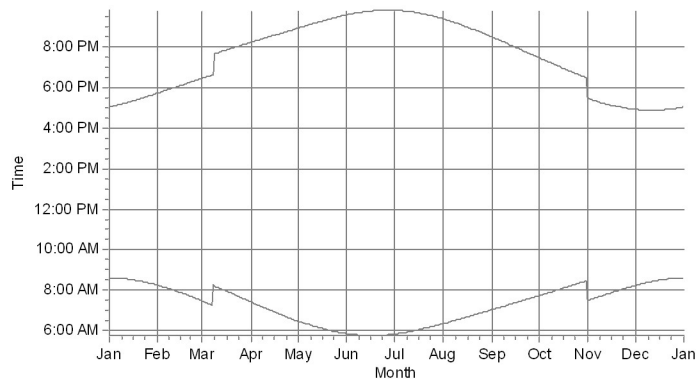
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

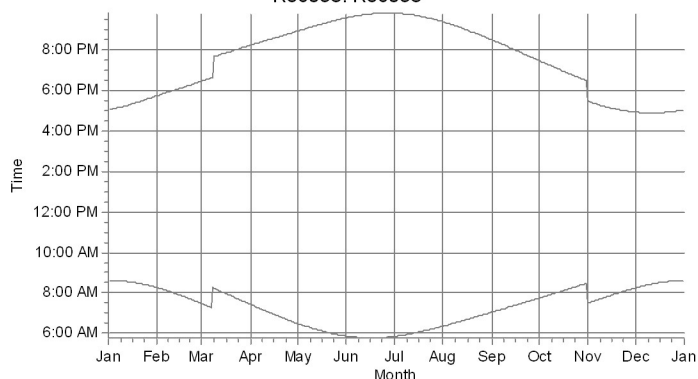
Rec091: Rec091



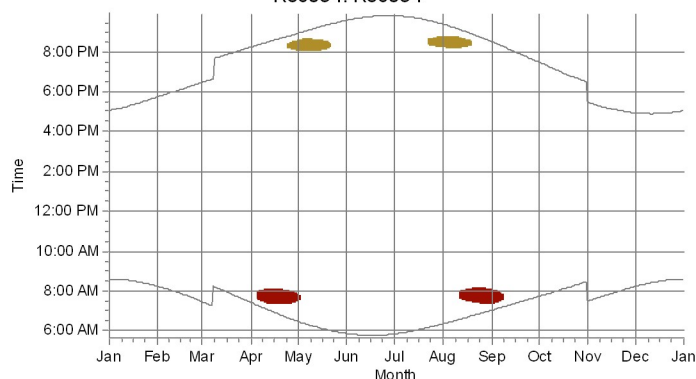
Rec092: Rec092



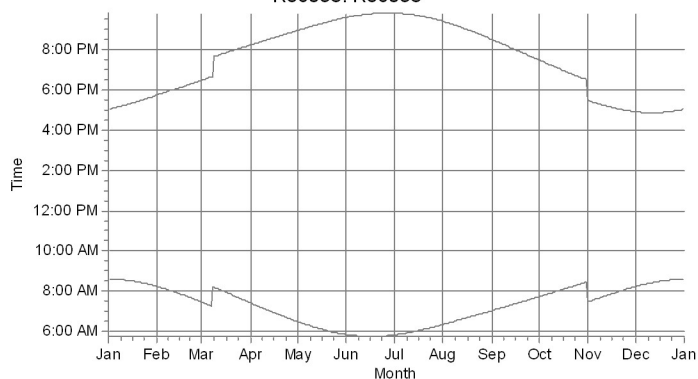
Rec093: Rec093



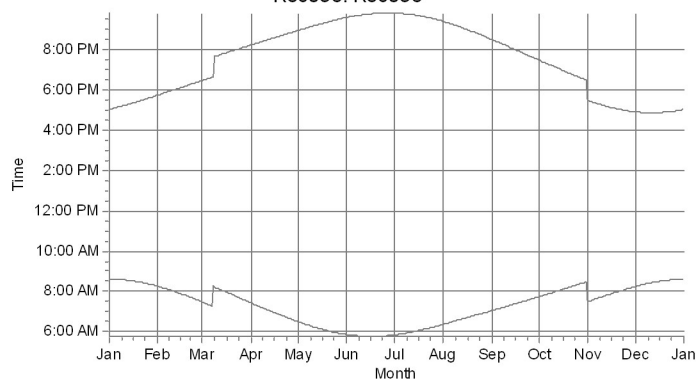
Rec094: Rec094



Rec095: Rec095



Rec096: Rec096



WTGs

C40: C40

D53: D53

Project:

Prairie_Wind

Description:

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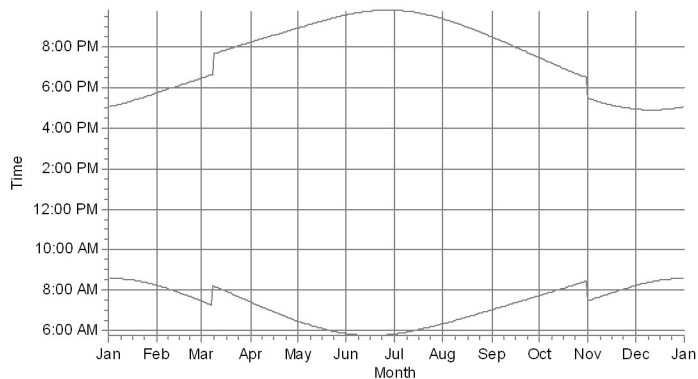
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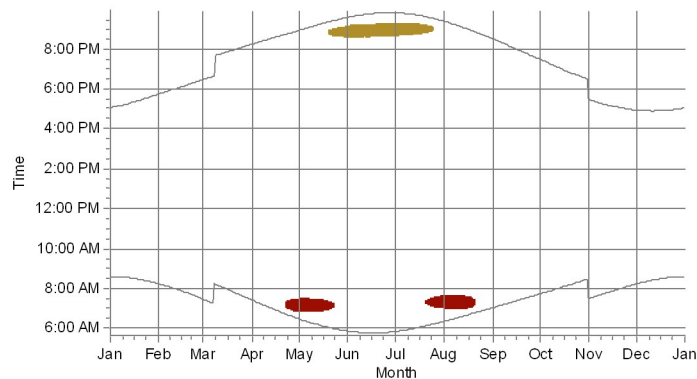
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

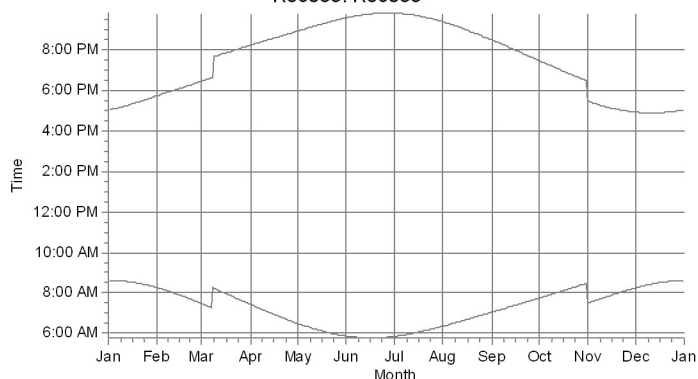
Rec097: Rec097



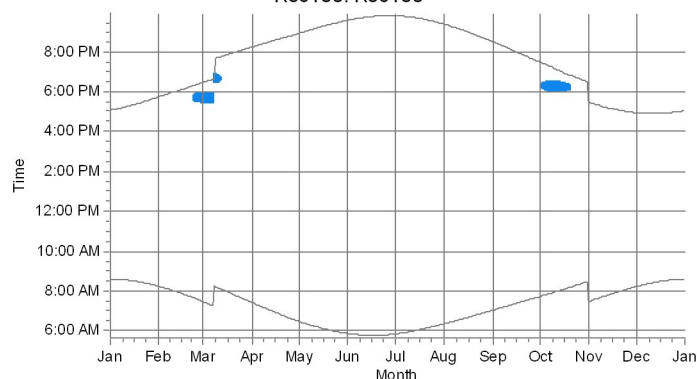
Rec098: Rec098



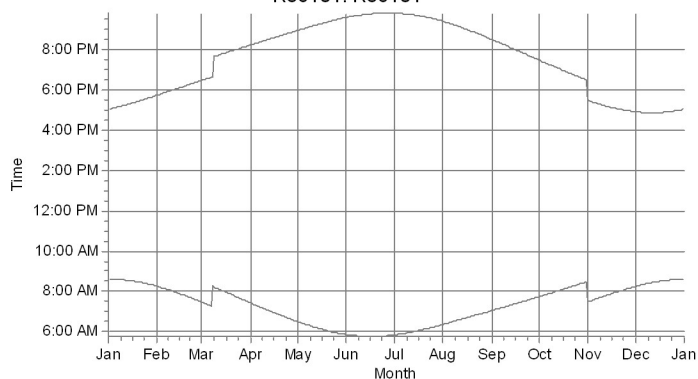
Rec099: Rec099



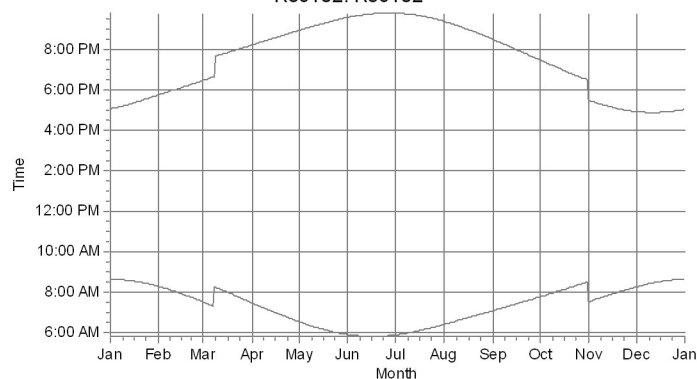
Rec100: Rec100



Rec101: Rec101



Rec102: Rec102



WTGs

C40: C40 D60: D60 D53: D53

Project:

Prairie_Wind

Description:

Burns & McDonnell has relied upon information provided by third-party sources to complete this study. While there is no reason to believe that the information provided is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee or warranty its accuracy or completeness.

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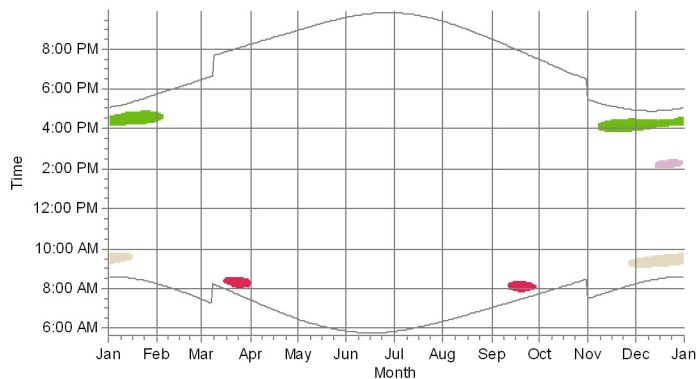
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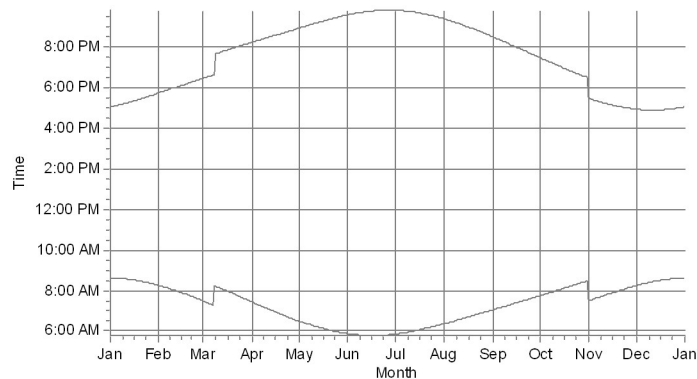
SHADOW - Calendar, graphical

Calculation: Shadow Calculation

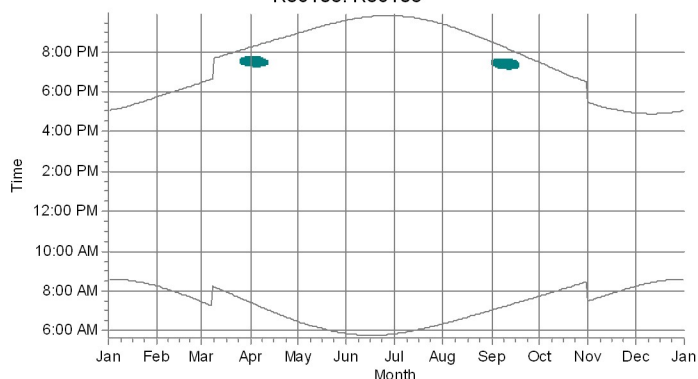
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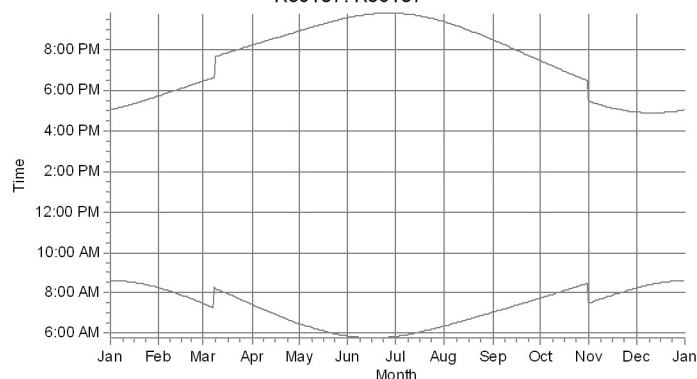
Rec104: Rec104



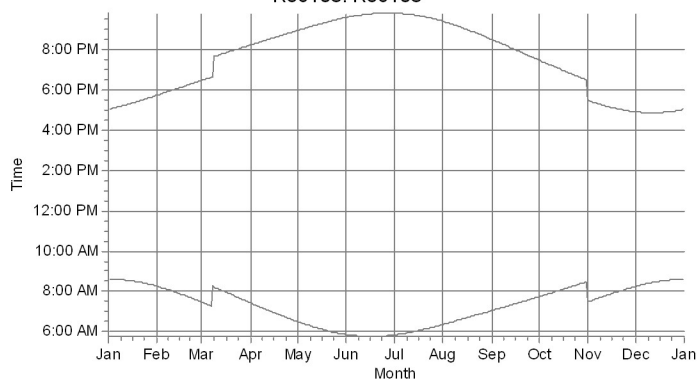
Rec106: Rec106



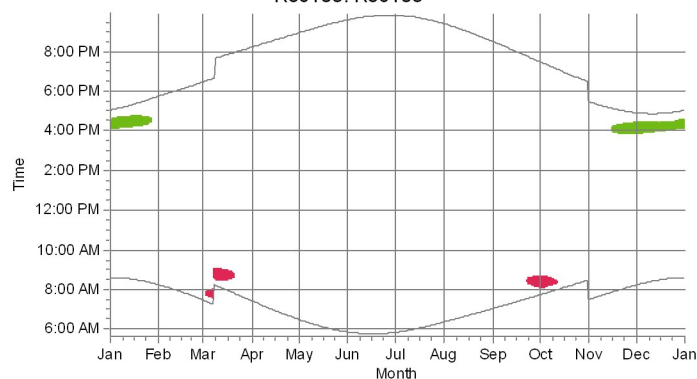
Rec107: Rec107



Rec108: Rec108



Rec109: Rec109



WTGs

A11: A11 C41: C41 C43: C43 C44: C44 C42: C42

Project: **Prairie_Wind**

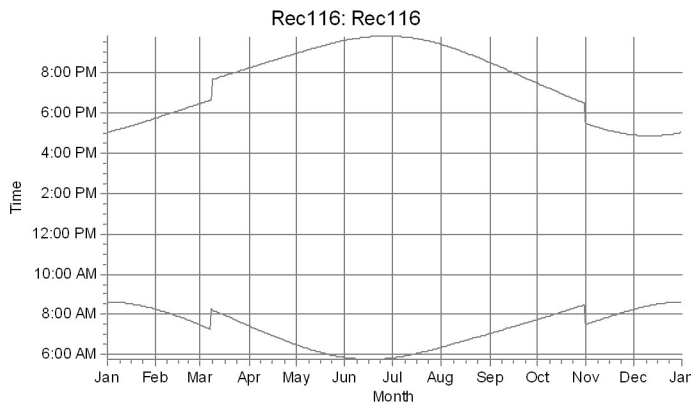
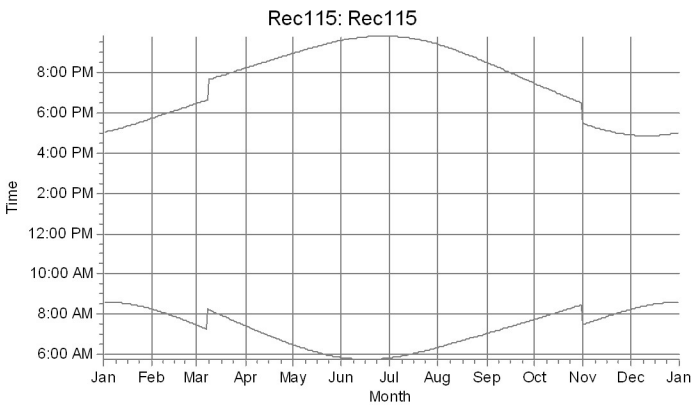
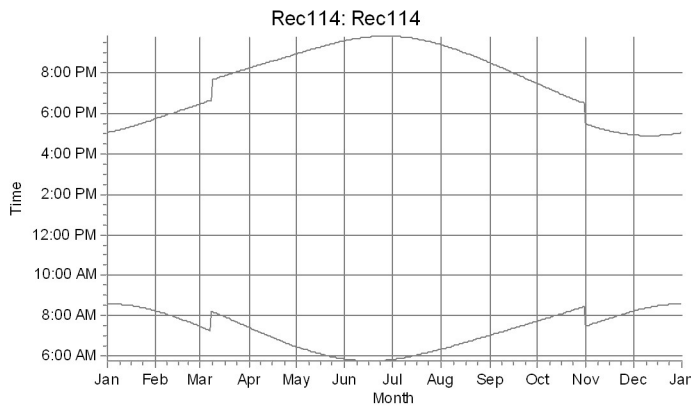
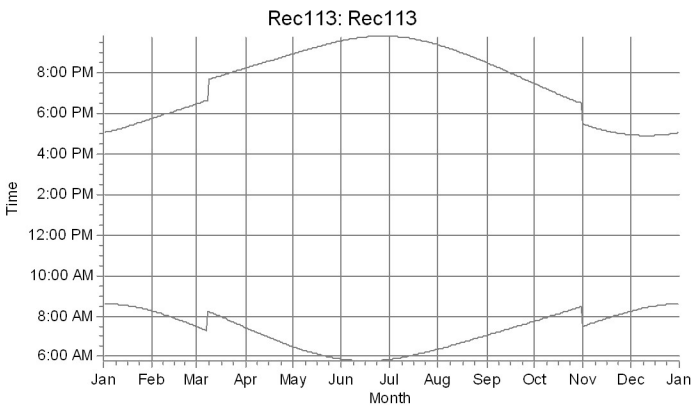
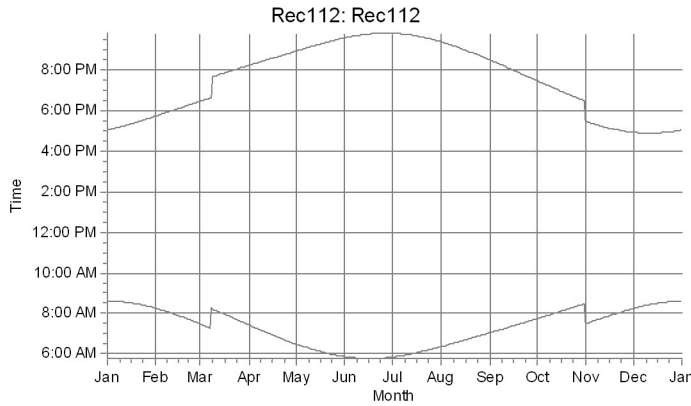
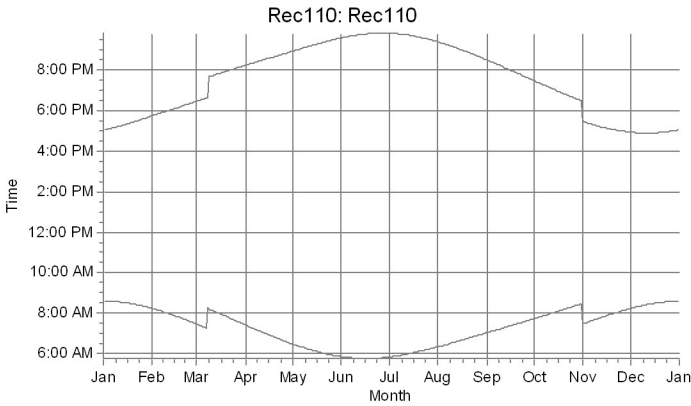
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Calculated:
3/10/2026 11:30 AM/4.2.285

SHADOW - Calendar, graphical

Calculation: Shadow Calculation



WTGs