

Technical Appendix 14.2

Potential Shadow Periods



This page is intentionally blank.



Appendix 14.2 – Potential Shadow Periods

Graphs A-Z visually represent the potential periods when each receptor may experience shadow flicker during the operational phase of the Proposed Development. These are calculated using commercial software model WindPRO Version 4.1 which takes into account the movement of the sun relative to the time of day and time of year predicting the time and duration of expected shadow flicker at each window of an affected receptor (refer to **Chapter 14**). These graphs represent a realistic scenario assuming no mitigation.

Project:

4188_HEC_WE_Shadow Flicker

Licensed user:

Energised Environments Limited
4th Floor Centrum House, 108-114 Dundas Street
GB-EDINBURGH EH3 5DQ

0044 131 557 8325

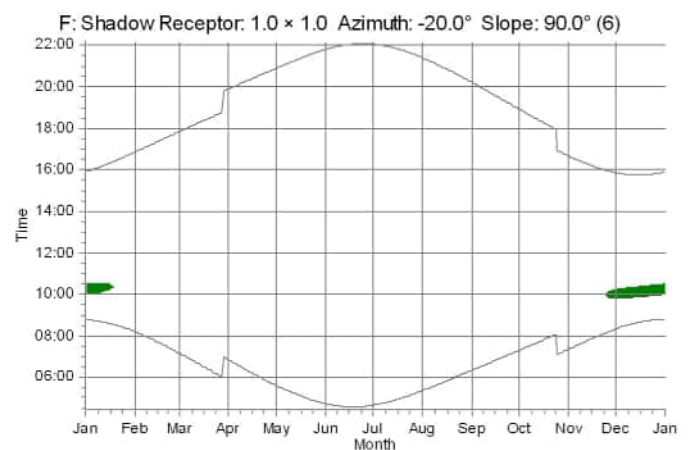
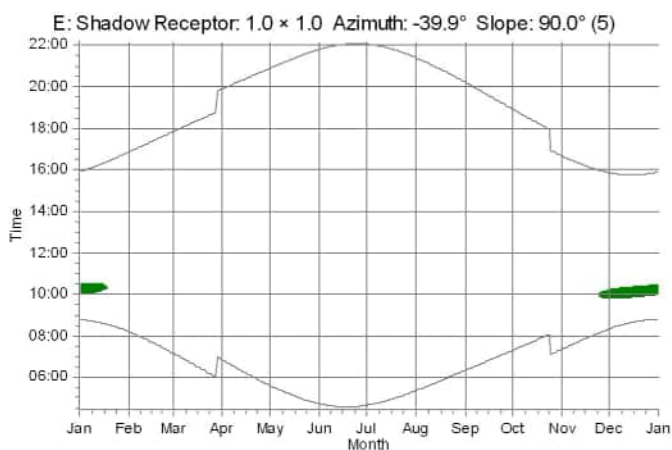
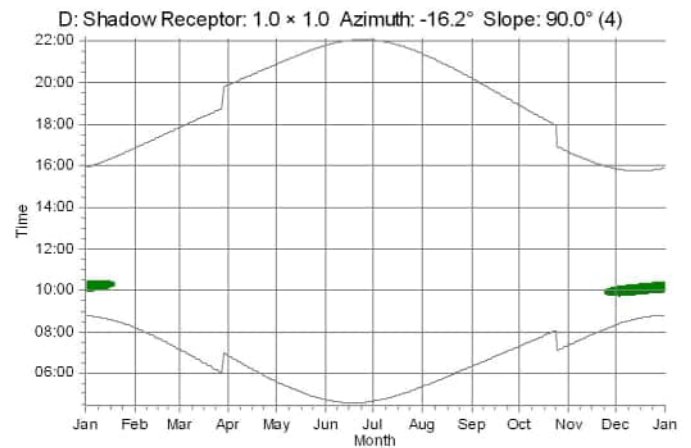
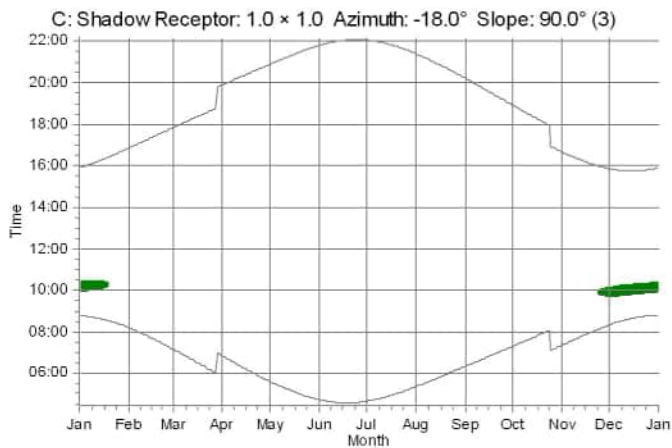
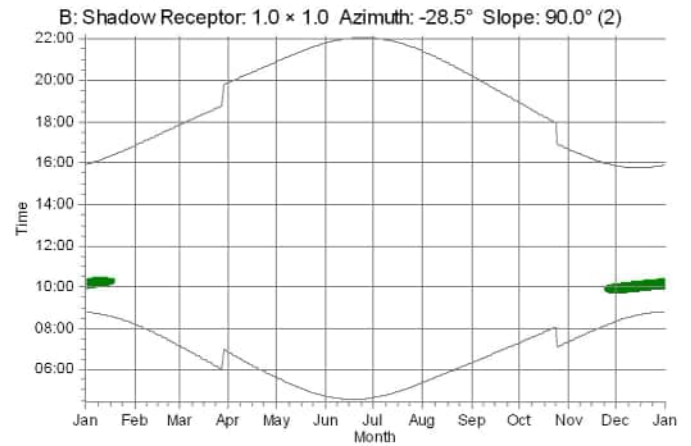
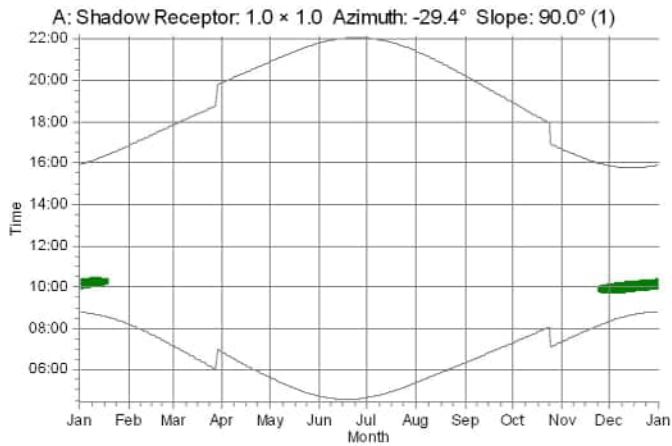
Andrew Robertson / andrew.robertson@slrconsulting.com

Calculated:

22/01/2025 12:37/4.1.254

SHADOW - Calendar, graphical

Calculation: HEC-WE Realistic Case



WTGs

1: NORDEX N163/6.X 7000 163.0 !OI hub: 149.5 m (TOT: 231.0 m) (1)

Project:

4188_HEC_WE_Shadow Flicker

Licensed user:

Energised Environments Limited
4th Floor Centrum House, 108-114 Dundas Street
GB-EDINBURGH EH3 5DQ

0044 131 557 8325

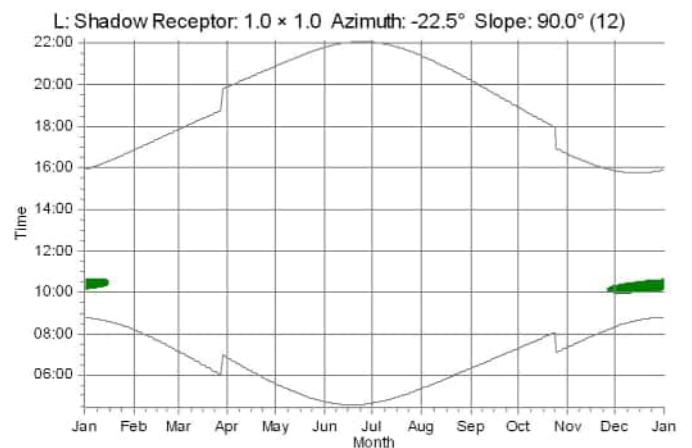
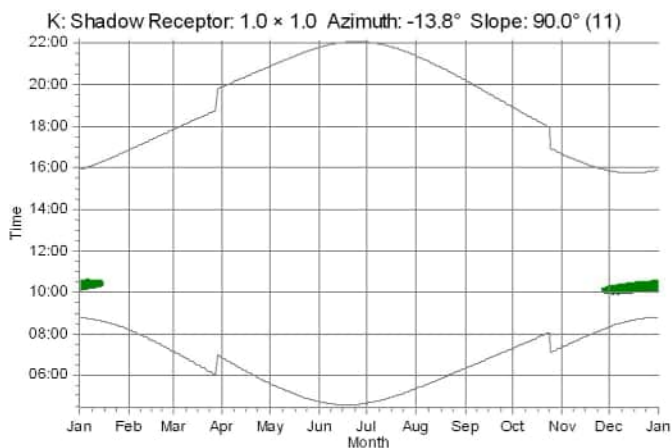
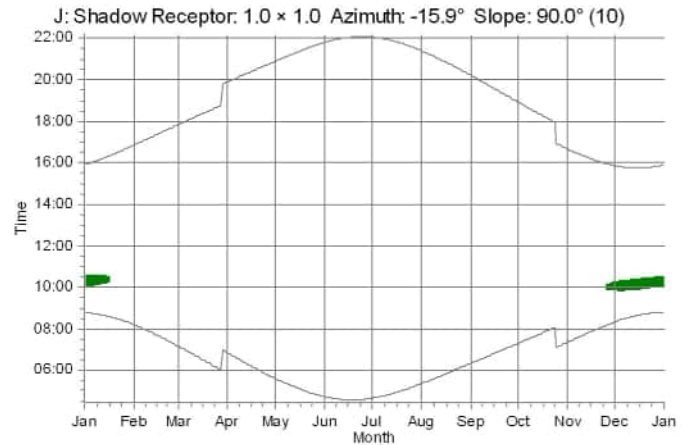
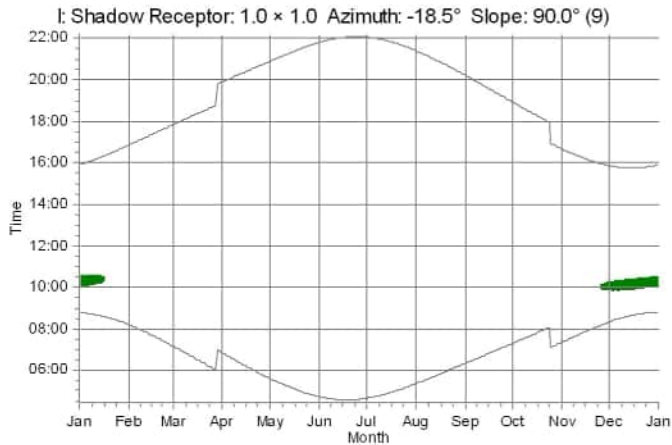
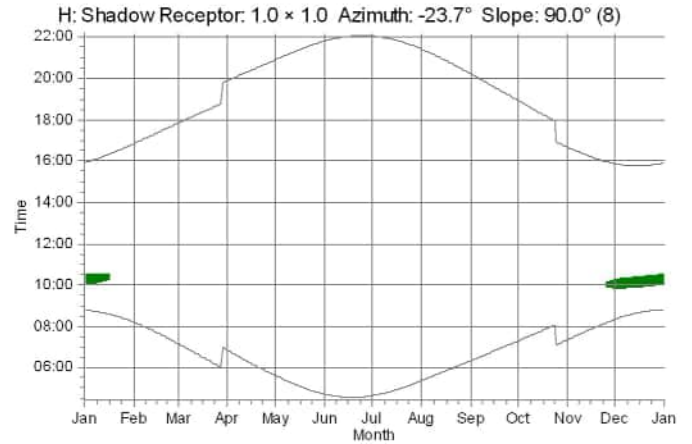
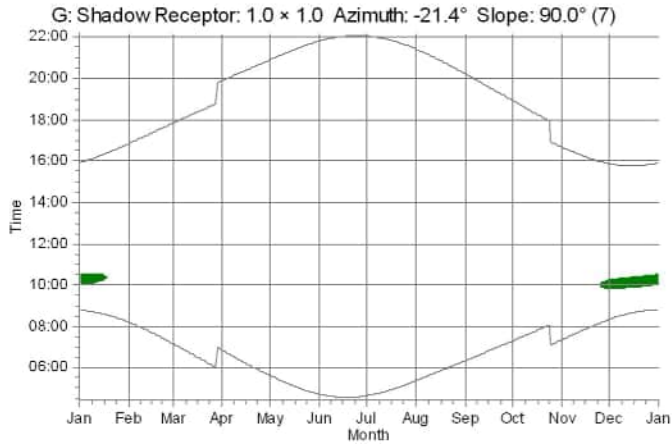
Andrew Robertson / andrew.robertson@slrconsulting.com

Calculated:

22/01/2025 12:37/4.1.254

SHADOW - Calendar, graphical

Calculation: HEC-WE Realistic Case



WTGs

1: NORDEX N163/6.X 7000 163.0 !OI hub: 149.5 m (TOT: 231.0 m) (1)

Project:

4188_HEC_WE_Shadow Flicker

Licensed user:

Energised Environments Limited
4th Floor Centrum House, 108-114 Dundas Street
GB-EDINBURGH EH3 5DQ

0044 131 557 8325

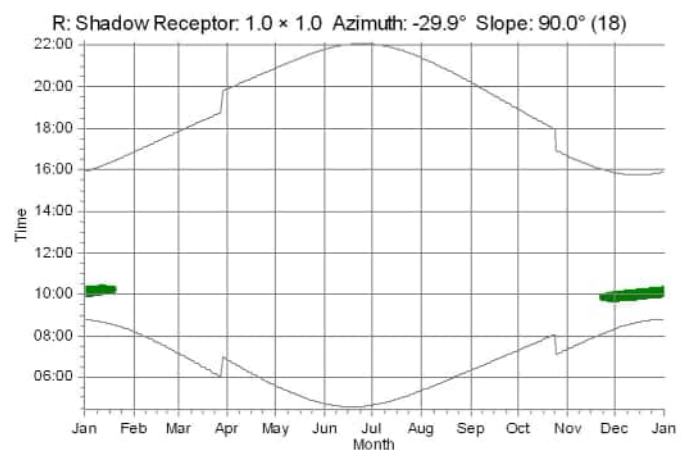
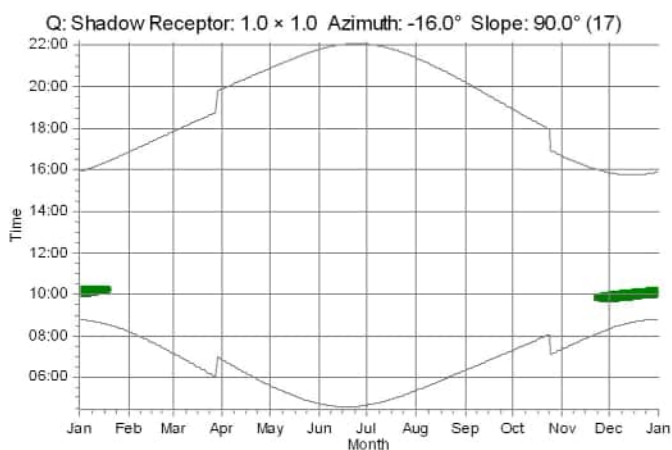
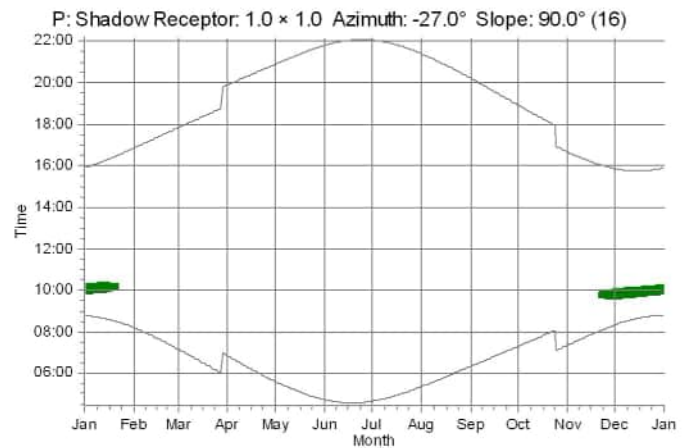
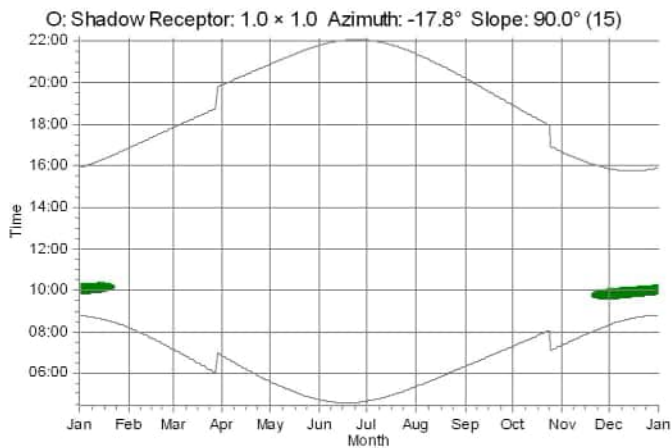
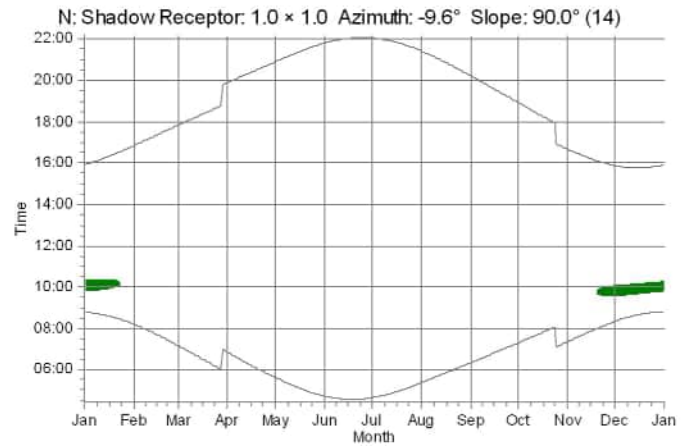
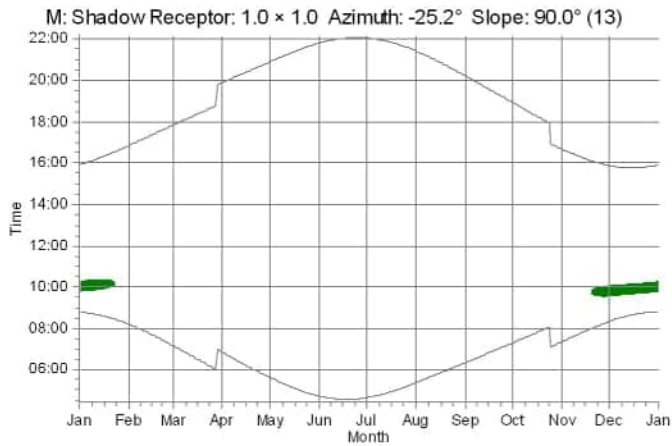
Andrew Robertson / andrew.robertson@slrconsulting.com

Calculated:

22/01/2025 12:37/4.1.254

SHADOW - Calendar, graphical

Calculation: HEC-WE Realistic Case



WTGs

1: NORDEX N163/6.X 7000 163.0 !OI hub: 149.5 m (TOT: 231.0 m) (1)

Project:

4188_HEC_WE_Shadow Flicker

Licensed user:

Energised Environments Limited
4th Floor Centrum House, 108-114 Dundas Street
GB-EDINBURGH EH3 5DQ

0044 131 557 8325

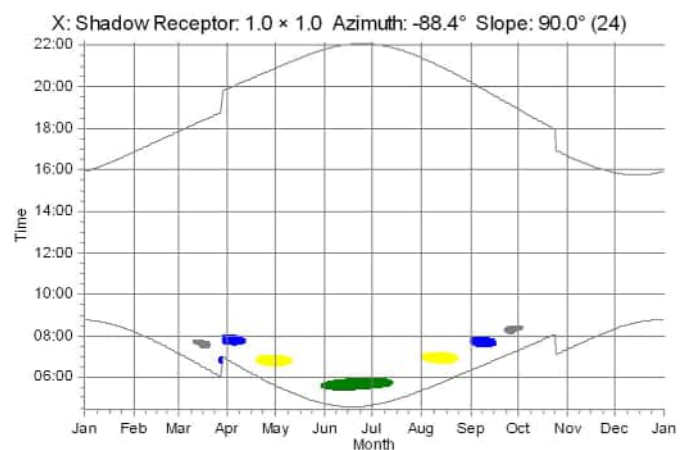
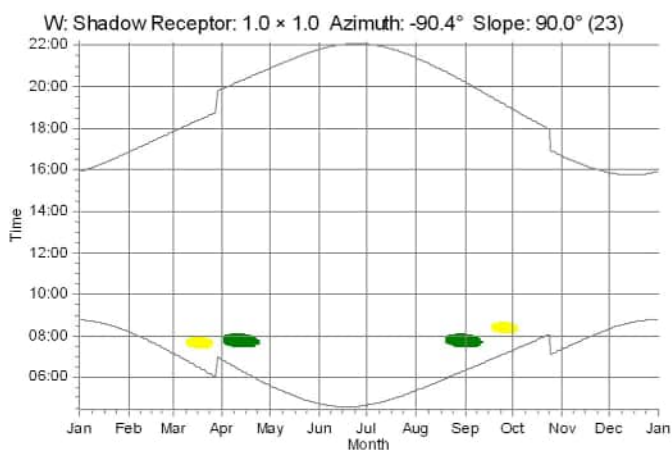
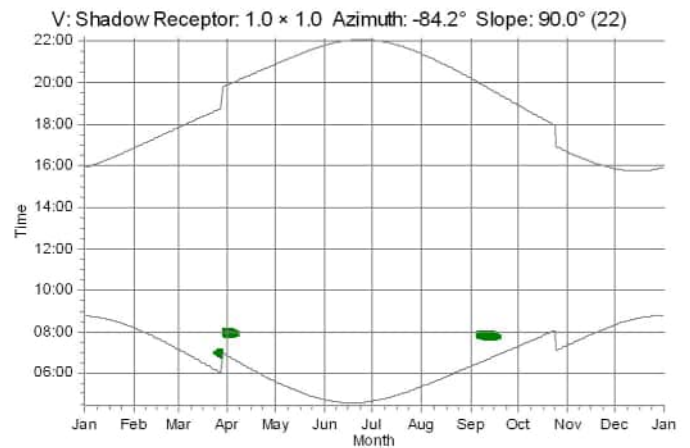
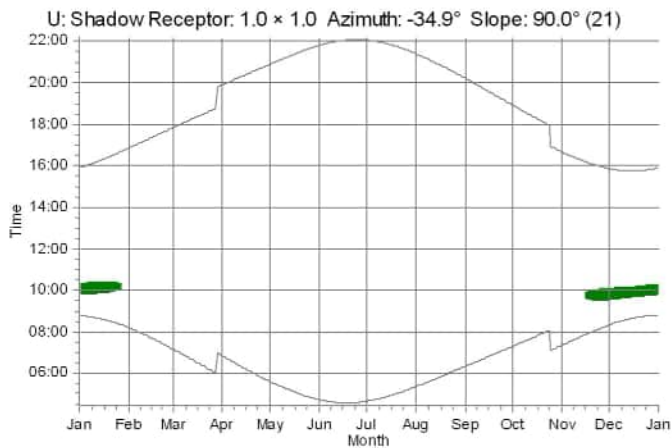
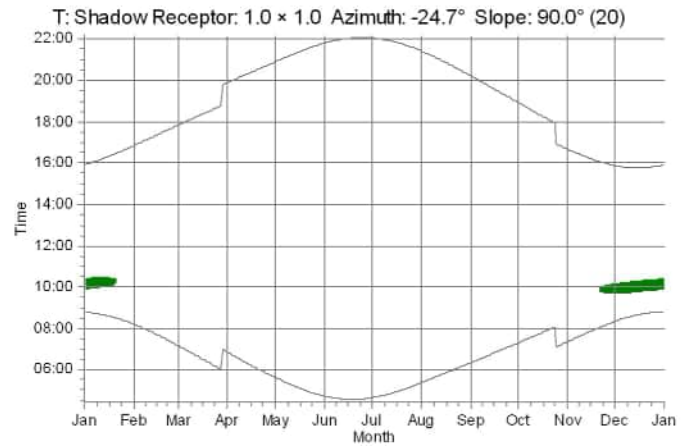
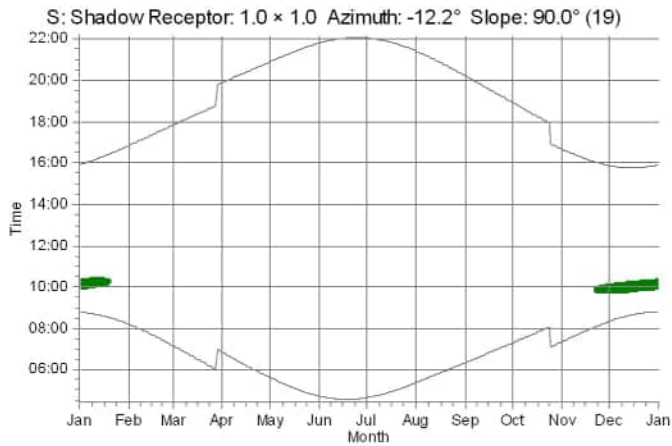
Andrew Robertson / andrew.robertson@slrconsulting.com

Calculated:

22/01/2025 12:37/4.1.254

SHADOW - Calendar, graphical

Calculation: HEC-WE Realistic Case



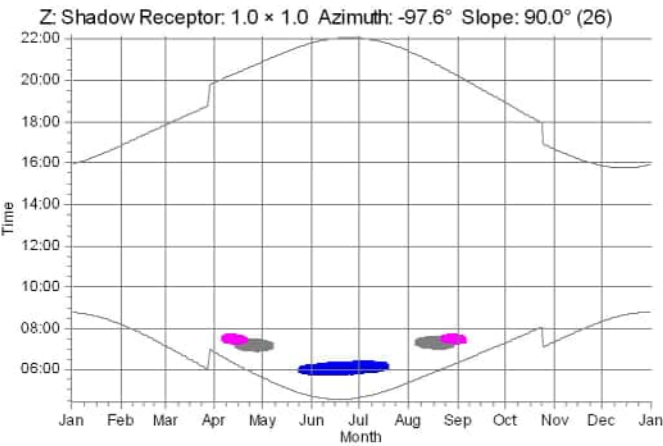
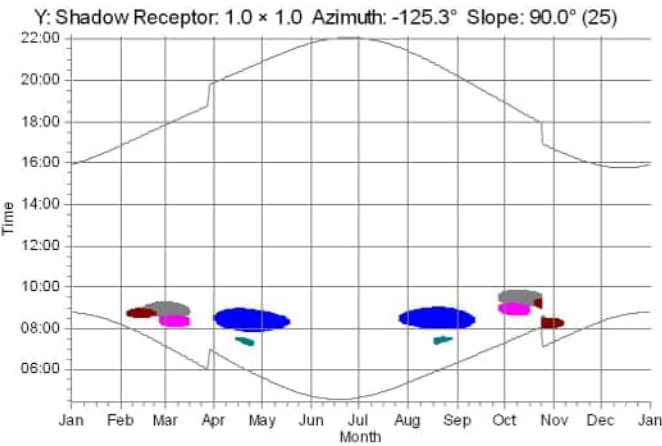
WTGs

- 1: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (1)
- 2: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (2)

- 3: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (3)
- 4: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (4)

SHADOW - Calendar, graphical

Calculation: HEC-WE Realistic Case



WTGs

- 3: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (3)
- 4: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (4)
- 5: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (5)

- 6: NORDEX N163/6.X 7000 163.0 !O! hub: 119.5 m (TOT: 201.0 m) (6)
- 8: NORDEX N163/6.X 7000 163.0 !O! hub: 149.5 m (TOT: 231.0 m) (8)