Technical Appendix 3.6
Annex 2
Potential Shadow Periods

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Annex 2 – Potential Shadow Periods

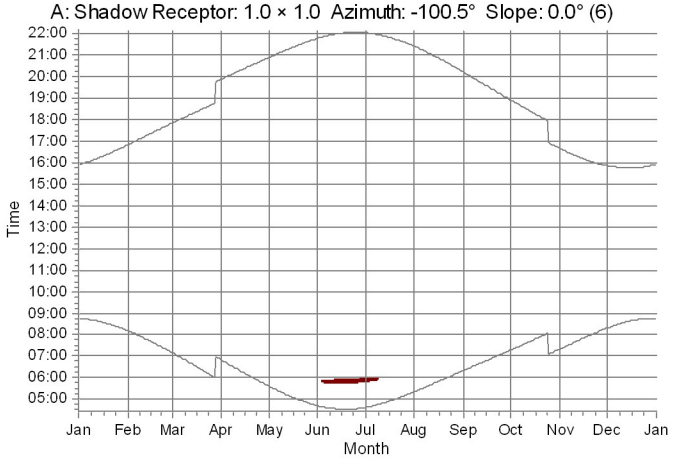
Graphs A-AD visually represent the potential periods when each receptor may experience shadow flicker during the operational phase of the Proposed Development. These are calculated using commercial software model windPRO Version 4.1 which takes into account the movement of the sun relative to the time of day and time of year predicting the time and duration of expected shadow flicker at each window of an affected receptor (refer to **Technical Appendix 3.6**). These graphs represent a realistic scenario assuming no mitigation.

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Calculated:
08/12/2025 10:40/4.1.273

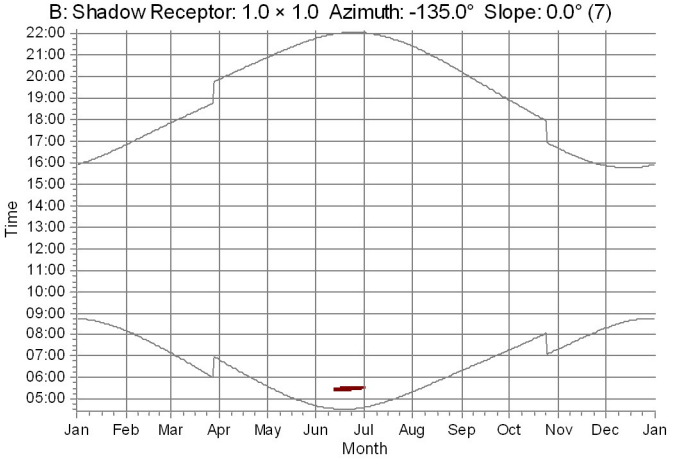
SHADOW - Calendar, graphical

Calculation: HHIII SF Realistic Case 251208

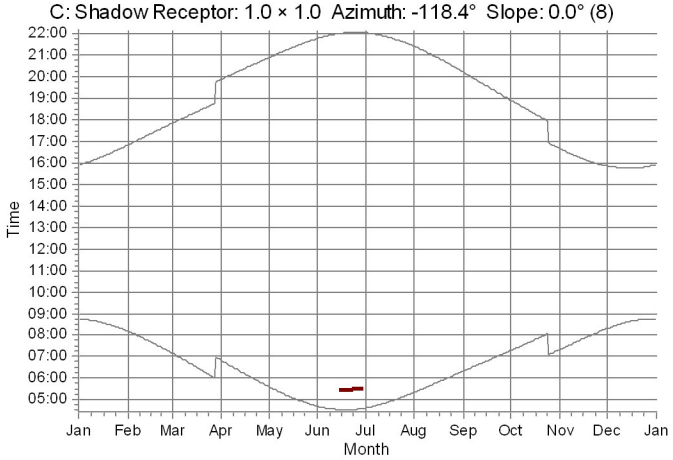
A: Shadow Receptor: 1.0 × 1.0 Azimuth: -100.5° Slope: 0.0° (6)



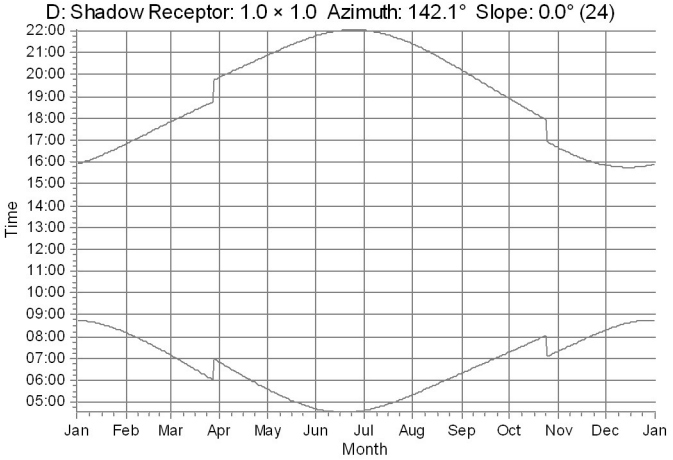
B: Shadow Receptor: 1.0 × 1.0 Azimuth: -135.0° Slope: 0.0° (7)



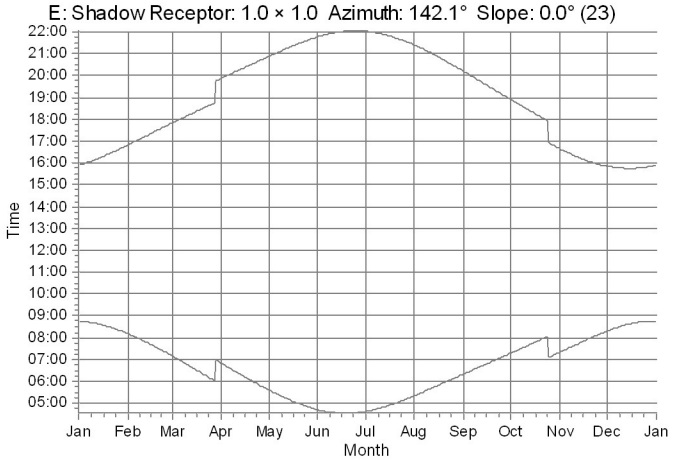
C: Shadow Receptor: 1.0 × 1.0 Azimuth: -118.4° Slope: 0.0° (8)



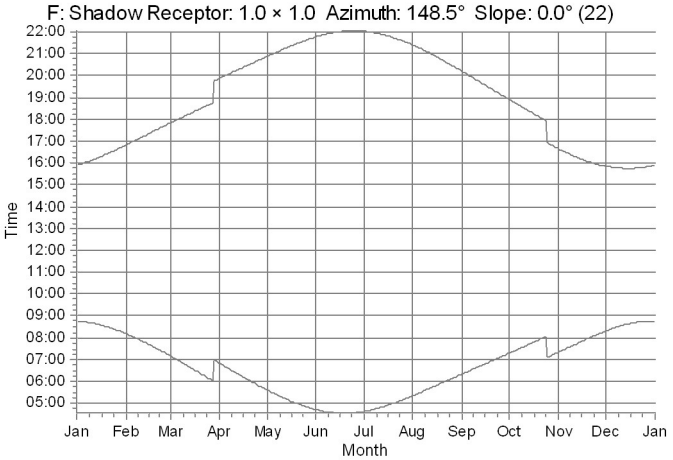
D: Shadow Receptor: 1.0 × 1.0 Azimuth: 142.1° Slope: 0.0° (24)



E: Shadow Receptor: 1.0 × 1.0 Azimuth: 142.1° Slope: 0.0° (23)



F: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (22)



WTGs

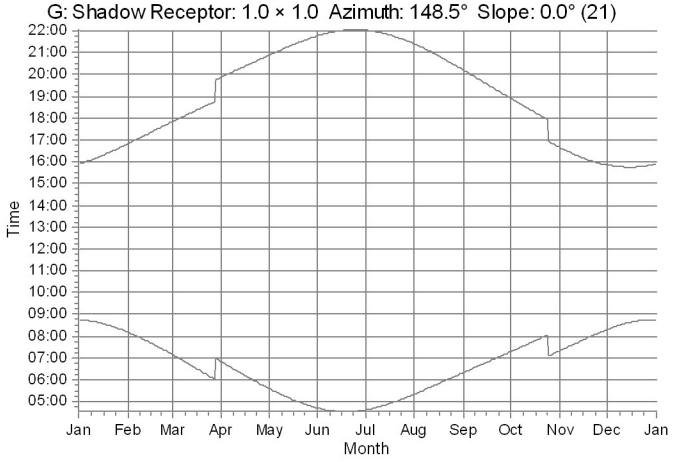
T8: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (8)

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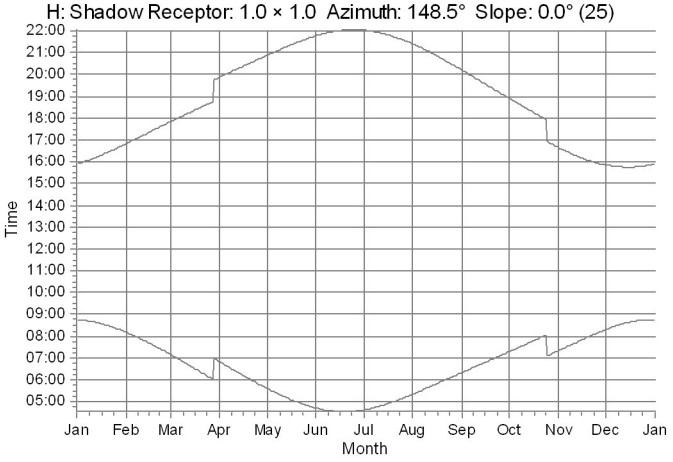
SHADOW - Calendar, graphical

Calculation: HHIII SF Realistic Case 251208

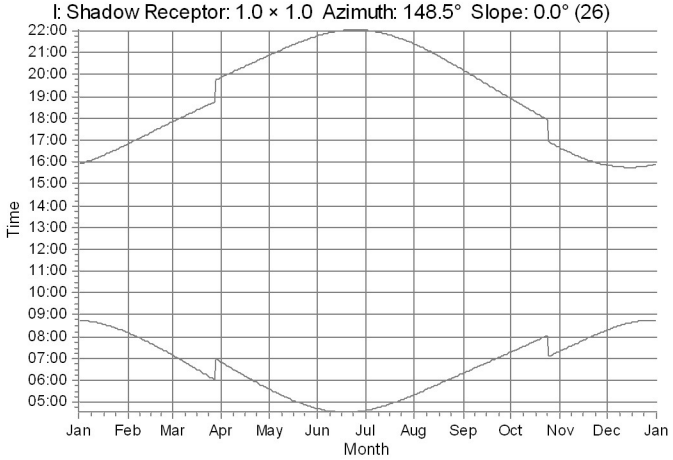
G: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (21)



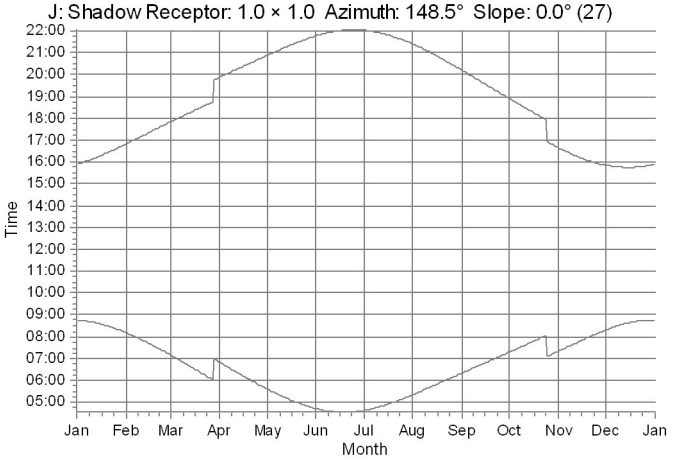
H: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (25)



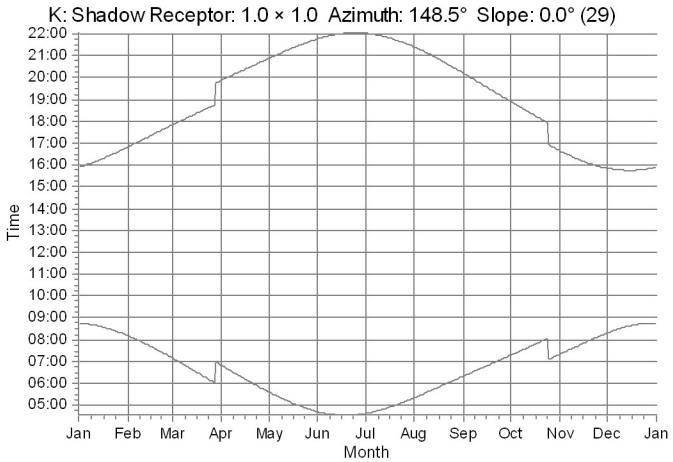
I: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (26)



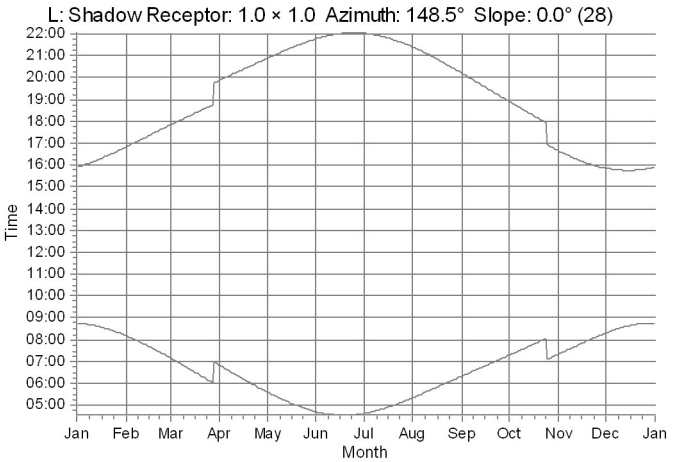
J: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (27)



K: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (29)



L: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (28)



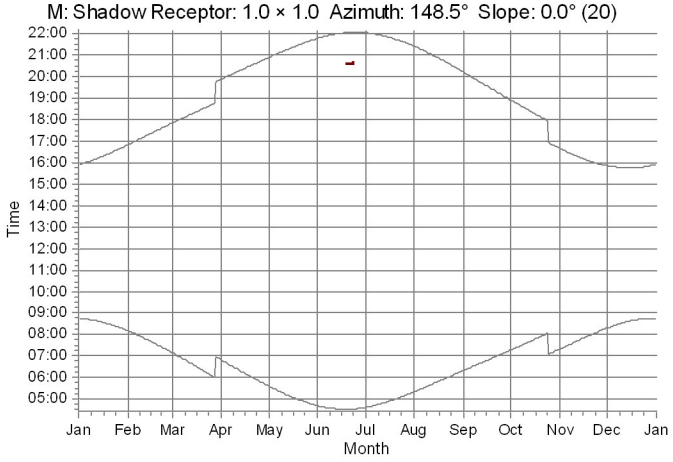
WTGs

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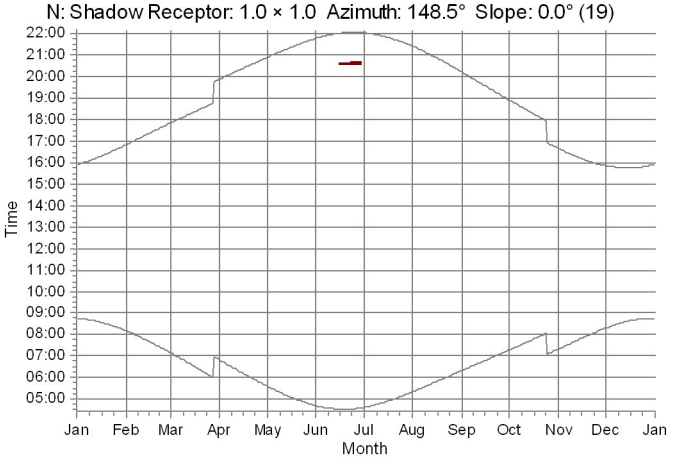
SHADOW - Calendar, graphical

Calculation: HHIII SF Realistic Case 251208

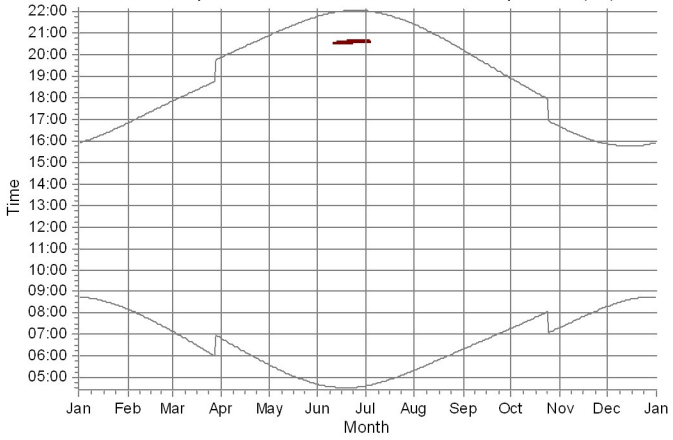
M: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (20)



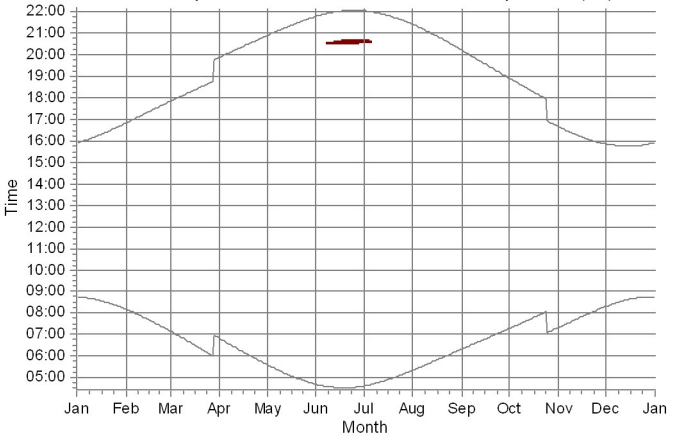
N: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (19)



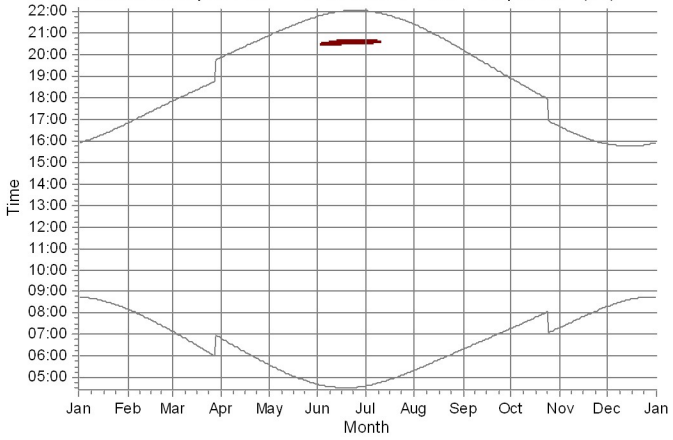
O: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (18)



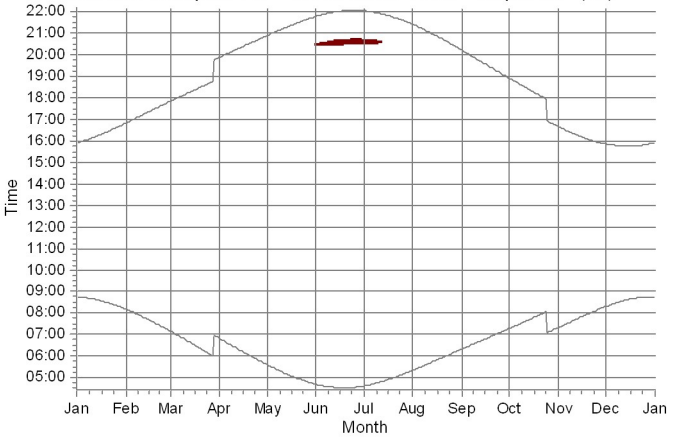
P: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (30)



Q: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (17)



R: Shadow Receptor: 1.0 × 1.0 Azimuth: 148.5° Slope: 0.0° (16)



WTGs

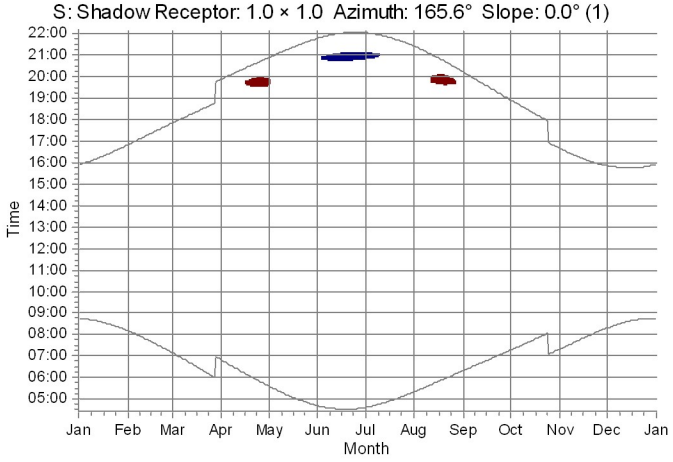
T8: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (8)

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08/12/2025 10:40/4.1.273

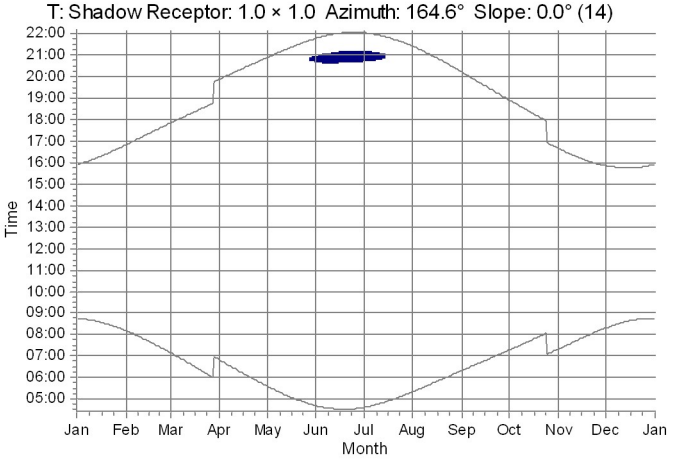
SHADOW - Calendar, graphical

Calculation: HHIII SF Realistic Case 251208

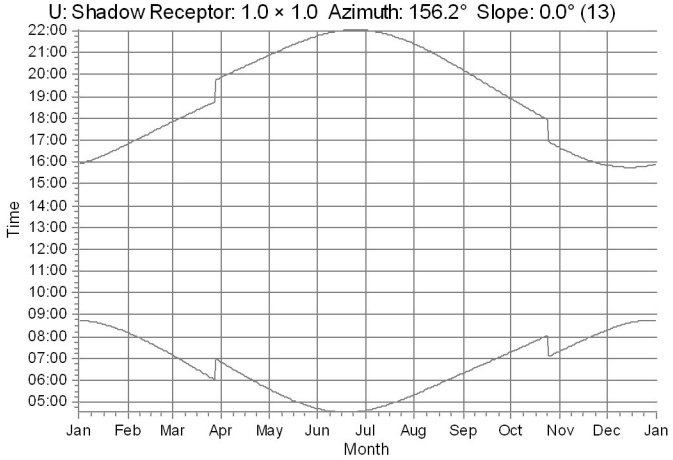
S: Shadow Receptor: 1.0 × 1.0 Azimuth: 165.6° Slope: 0.0° (1)



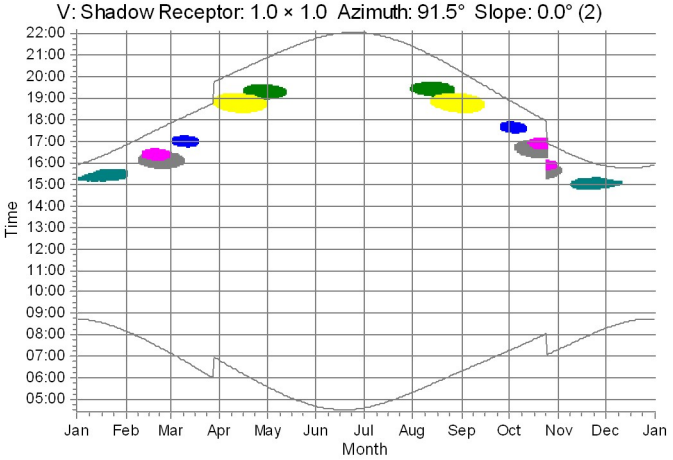
T: Shadow Receptor: 1.0 × 1.0 Azimuth: 164.6° Slope: 0.0° (14)



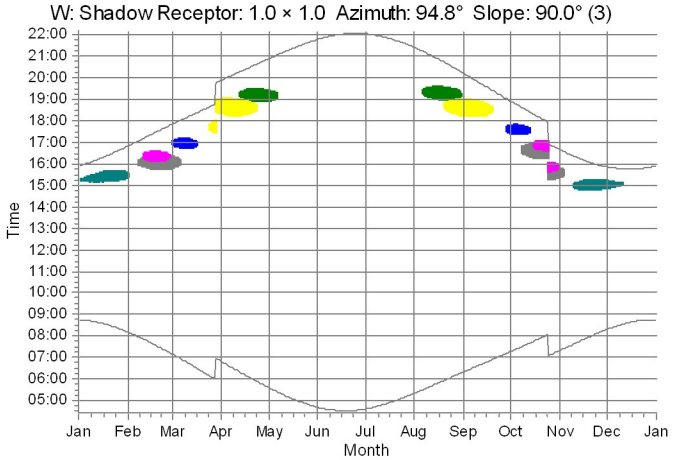
U: Shadow Receptor: 1.0 × 1.0 Azimuth: 156.2° Slope: 0.0° (13)



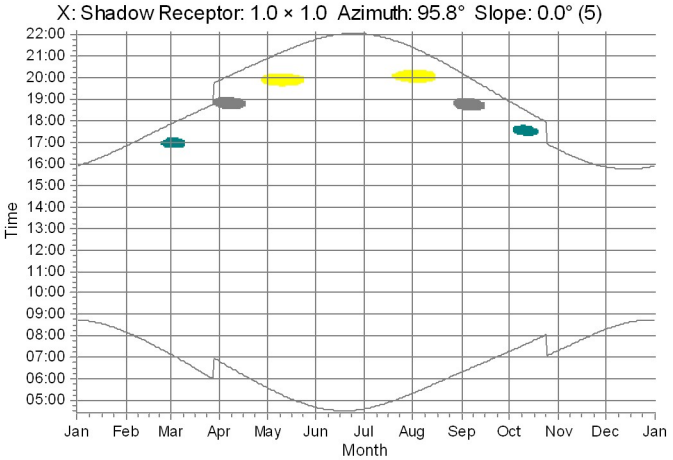
V: Shadow Receptor: 1.0 × 1.0 Azimuth: 91.5° Slope: 0.0° (2)



W: Shadow Receptor: 1.0 × 1.0 Azimuth: 94.8° Slope: 90.0° (3)



X: Shadow Receptor: 1.0 × 1.0 Azimuth: 95.8° Slope: 0.0° (5)



WTGs

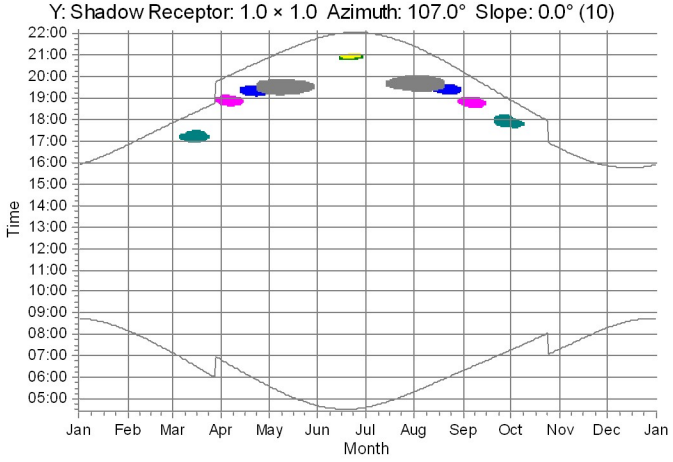
- T1: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (1)
- T2: NORDEX N163/6.X 7000 163.0 !O! hub: 98.5 m (TOT: 180.0 m) (2)
- T3: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (3)
- T4: NORDEX N163/6.X 7000 163.0 !O! hub: 98.5 m (TOT: 180.0 m) (4)
- T5: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (5)
- T6: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (6)
- T7: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (7)
- T8: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (8)

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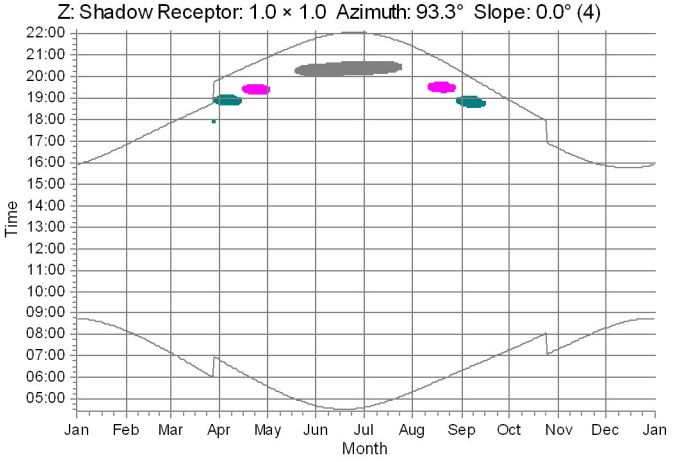
SHADOW - Calendar, graphical

Calculation: HHIII SF Realistic Case 251208

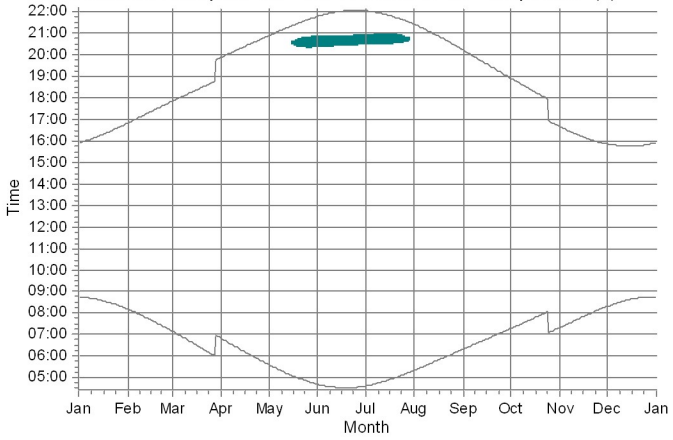
Y: Shadow Receptor: 1.0 × 1.0 Azimuth: 107.0° Slope: 0.0° (10)



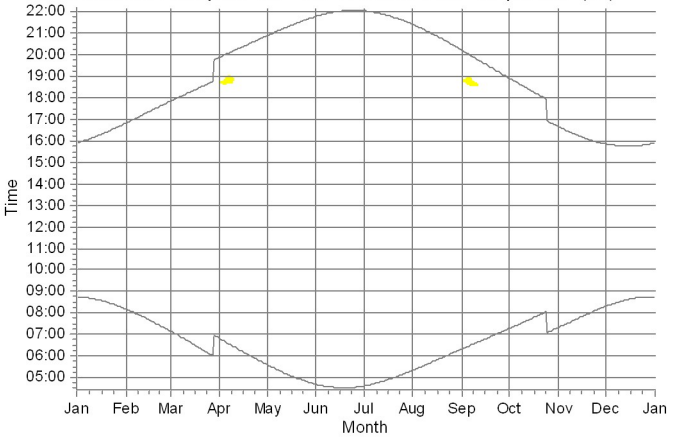
Z: Shadow Receptor: 1.0 × 1.0 Azimuth: 93.3° Slope: 0.0° (4)



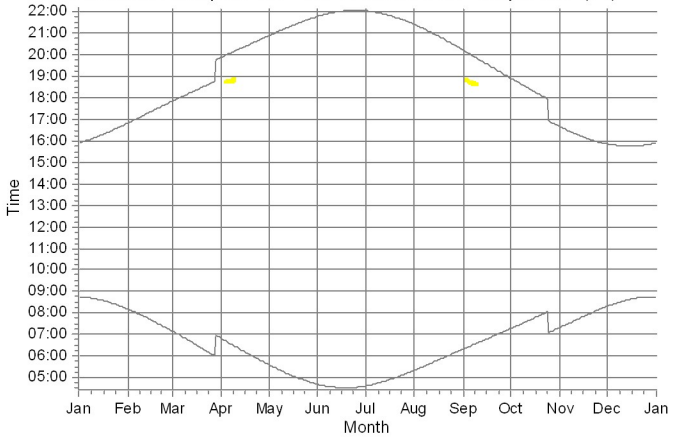
AA: Shadow Receptor: 1.0 × 1.0 Azimuth: 124.7° Slope: 0.0° (9)



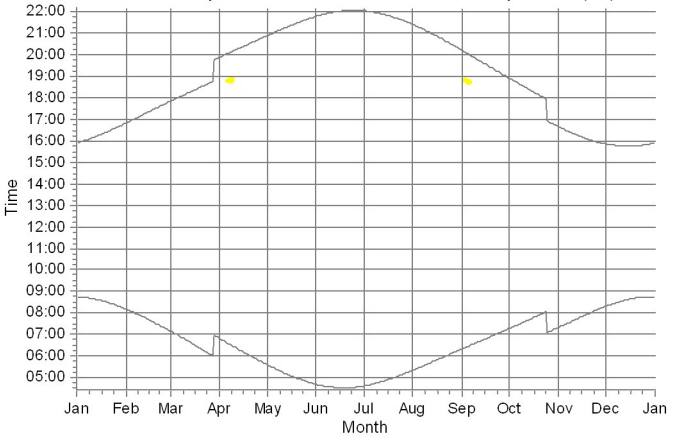
AB: Shadow Receptor: 1.0 × 1.0 Azimuth: 94.8° Slope: 0.0° (12)



AC: Shadow Receptor: 1.0 × 1.0 Azimuth: 94.8° Slope: 0.0° (11)



AD: Shadow Receptor: 1.0 × 1.0 Azimuth: 94.8° Slope: 0.0° (15)



WTGs

- T1: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (1)
- T2: NORDEX N163/6.X 7000 163.0 !O! hub: 98.5 m (TOT: 180.0 m) (2)
- T3: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (3)
- T4: NORDEX N163/6.X 7000 163.0 !O! hub: 98.5 m (TOT: 180.0 m) (4)
- T5: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (5)
- T6: NORDEX N163/6.X 7000 163.0 !O! hub: 118.5 m (TOT: 200.0 m) (6)