



Project:
**Daer Wind Farm,
 South Lanarkshire/
 Dumfries & Galloway**

Title:
**Figure 13.3: Predicted Shadow
 Flicker**

Key

- Proposed turbine
- 🏠 Potential sensitive receptor
- 10x rotor diameter extent (1,550 m)

Predicted shadow flicker (hrs/yr)

- <= 10
- 10 - 20
- 20 - 30
- 30 - 100
- > 100

Notes on shadow flicker predictions:

- The worst case shadow flicker has been calculated, assuming there are always clear skies every day during daylight hours.
- The sun is considered a single point light source.
- Turbines are always rotating and are facing the receptor.
- Terrain shading has been included in the shadow flicker calculation.
- Shadow flicker calculated up to 1,550 m from each turbine location (10 x rotor diameter)
- Turbine dimensions: 102.5 m hub height and 155 m rotor diameter.
- Shadow flicker calculated on 1 minute intervals and a 10 m grid, for a height of 2 m AGL.

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Scale @ A3: 1:35,000
 Coordinate System: British National Grid

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