



Legend

- Proposed Earraghail Wind Turbines
- Distance Radii from Outermost Turbine (15, 30, 45km)
- Viewpoints
- Illustrative Wirelines
- North Arran Wild Land Area

Zone of Theoretical Visibility (nacelle light height 102.5m, tower light height 51.25m)

- 8-13 nacelle lights and 8-13 tower lights
- 8-13 nacelle lights and 1-7 tower lights
- 1-7 nacelle lights and 1-7 tower lights
- 8-13 nacelle lights and 0 tower lights
- 1-7 nacelle lights and 0 tower lights

FIGURE DATA:
 This figure has been based on the following data:
 Layout file: EAR_obsvHubHeightT5_MP_231221.shp, EAR_obsvHubHeightT50_MP_231221.shp,
 EAR_obsvTowerT5_MP_231221.shp, EAR_obsvTowerT50_MP_231221.shp
 Terrain data: EAR_T5_DTM_MP_300921.asc, EAR_T50_DTM_MP_160320.asc
 Viewer's eye height: 2m above ground level
 Calculation grid size: 5m (to 10km from outermost turbine), 50m beyond

NOTES:
 This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
 The areas shown are the maximum theoretical visibility, taking topography into account.
 This visibility map is based on a 'bare earth' model of the landform and does not show any effects of screening from obstacles such as buildings and vegetation.
 The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a DTM and has a 5m² (to 10km from outermost turbine)/50m² (beyond) resolution.

Rev	Date	By	Comment

1:165,000
 Scale @ A1

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Earraghail Renewable Energy Development
 Landscape and Visual
 Figure 7.11: Aviation Lighting ZTV - Bare Earth

Drg No	EAR-SH-I-111
Rev	
Date	10/02/22
Figure	7.11
Datum	OSGB36
Projection	TM