



**Legend**

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

**Cumulative Wind Farms**

- Operational

**North Arran Wild Land Area**

**Zone of Theoretical Visibility (to Blade Tip)**

Operational sites may be visible

Earraghail may be visible

Both may be visible

**FIGURE DATA:**  
 This figure has been based on the following data:  
 Layout file: EAR\_obsCumOperationalT5\_MP\_300921.shp, EAR\_obsCumOperationalT50\_MP\_300921.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 5m<sup>2</sup> to 10km from outermost turbine/50m<sup>2</sup> beyond resolution.  
 The sites included in the ZTV are modelled to blade tip and are listed below:  
 - Earraghail: 150m  
 - Allt Dearg: 81m  
 - Cour: 113m  
 - Deucheran Hill: 78-93m  
 - Freasdal: 100m  
 - Garthagrenach Farm: 34.2m  
 - Srondore Community: 100-110m

Rev	Date	By	Comment

1:165,000  
 Scale @ A1

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**Earraghail Renewable Energy Development**  
 Landscape and Visual  
 Figure 7.16: Cumu ZTV to Blade Tip: Operational

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Rev	
Date	13/01/22
Figure	7.16
Datum	OSGB36
Projection	TM