

Legend

- Application Boundary
- 10km Buffer of Application
- Turbine Location (135m Tip Height)
- Turbine Location (149.9m Tip Height)

Zone of Theoretical Visibility No. of Turbine Blade Tips Visible

- High : 19
- Low : 0

- Woodland
- Building

Note

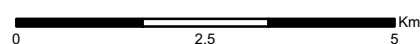
This Zone of Theoretical Visibility (ZTV) has been generated using QGIS Visibility Analysis Plugin. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/- 2m) up to 10km from the turbine locations. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using QGIS default settings. The ZTV has been generated from a viewing height of 2m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed turbine locations for Sheirdrim.
- The proposed turbine blade tips heights of 135m and 149.9m have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not show, with the exception of the localised mature woodland and buildings highlighted, the screening effect of features within the landscape such as buildings and vegetation. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.
- The ZTV has been generated up to 10km from the proposed Sheirdrim turbines.



1:100,000
Scale @ A3



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Sheirdrim Renewable Energy Development - EIAR
Landscape and Visual Amenity
ZTV to Blade Tip: Including Screening Effects
of Woodland and Settlement

Drg No	SHR-002G-DSM- ZTV-10.5.mxd	Datum:
Rev	A	OSGB36
Date	28/10/19	Projection:
Figure	7.8	TM