Note

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+2m) up to 20km from the turbine locations, and OS Terrain 50-dataset (+10m).

Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV zone has been produced to a theoretical visibility 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 tip 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 account for the screening effect of the landscape such as settlements and woodland. It does not indicate potential visual effects on areas outside the zone of theoretical visibility. 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 80km from the viewpoint locations.

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