



**LEGEND**

- Application Site Boundary
- Proposed Turbine Location
- Proposed Turbine Location 10- 40 km
- Buffer (10 km Increments)
- Meadale Farm
- Sumardale Croft Turbine

**Zones of Theoretical Visibility (Bare Earth)**

Balmeanach

Sumardale Croft

Meadale Farm

**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 50 dataset with an accuracy of +/-10m. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using ESRI 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 indicative turbine locations for Balmeanach Wind Farm
- The baseline ZTV has been generated from Operational and Consented turbine locations listed below.
- The proposed and operational turbine blade tip heights that have been used are listed below:
  - Balmeanach - 149.9m
  - Sumardale Croft - 65.7m
  - Meadale Farm - 53.7m
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. 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.

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### BALMEANACH WIND FARM - EIA LANDSCAPE AND VISUAL ZTV BALMEANACH, SUMARDALE CROFT AND MEADALE FARM

**FIGURE 7.12**

Scale: 1:325,000 @ A3      Date: JULY 2023

11223.00001.0341.0 Figure 7.12 ZTV Balmeanach with Sumardale Croft and Meadale Farm