



LEGEND

Balmeanach SEI Application Boundary

Ben Sca Redesign SEI Application Boundary

Proposed Substation Location

Balmeanach

Zones of Theoretical Visibility (ZTV) - Bare Earth

Ben Sca Redesign SEI Substation

Balmeanach SEI Substation

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 (+/-10 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m 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 substations locations for Ben Sca Wind Farm SEI and Balmeanach SEI.
- The worst-case substation heights of 5 m 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 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.

COMBINED ASSESSMENT OF
BALMEANACH AND BEN SCA
REDESIGN WIND FARMS

SUBSTATION VISIBILITY

SEI FIGURE V5.9

Scale
1:55,000 @ A3

Date
APRIL 2025

405.064982.00001.0229.0 V5.9 Visibility of Substations