Legend

- Proposed Turbine Location
- 5 - 45 km Buffer of Turbine Locations (5 km Intervals)
- Viewpoint Location
- Additional Wireline Location

Zone of Theoretical Visibility No. of Nacelle Lights and Tower Lights Visible

- 9 - 21 Tower Lights with any Number of Nacelle Lights Visible
- 1 - 8 Tower Lights with any Number of Nacelle Lights Visible
- Any Number of Only Nacelle Lights Visible

5km
10km
15km
20km
25km
30km
35km
40km
45km

N

220000 230000 240000 250000 260000 270000 280000 290000 300000 310000 320000

630000 621000 612000 603000 594000 585000 576000

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 (+/-2 m) up to 40 km from turbine locations, and 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 folowing assumptions should be noted:

•The ZTV has been generated using the proposed Design Freeze turbine locations for Euchanhead.

•The proposed turbine nacelle and tower lights heights of 155 m and 77.5 m respectively 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.

•The ZTV has been generated up to 65 km from the proposed Euchanhead turbines.

• Please refer to Figure 3.1 for Site Application Boundary.

SCOTTISHPOWER RENEWABLES

Rev	Date	By	Comment
A	24/09/20	AA	First Issue.

1:100,000
Scale @ A0

0 2.5 5 10 Km

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Euchanhead Renewable Energy Development EIAR

Landscape and Visual Amenity

ZTV for Aviation Lighting - Nacelle Lights and Tower Lights (at half height) Bare Earth

Drg No	00481.00052.0253.0
Rev	A
Date	24/09/20
Figure	7.12

Datum: OSGB36
Projection: TM