270000 275000 280000 285000 290000 295000 300000

970000 965000 960000 955000

STRATHY POINT

SM4290 SM4265 SM13678 SM3304 SM13622 SM1876 SM1839

LB7159 LB7160 LB7162 LB7159 LB7159 LB7141 LB12915 LB12922

LB14988 LB14988 LB14988 LB14985 LB14986 LB14985 LB14985 LB14987 SM458 LB17592 SM616 SM615 LB18831

1 2 3 4 5 6 7 8 9 10 11

Farr Point

Strathy Forest

Achamore

Armadale

Bettyhill / Am Bàran Odhar

Achaloolong Clearance Village

Sandside Head

Dounreay Nuclear Power Development Establishment

Lower Dounreay

Milton Moss

The Flows National Nature Reserve

0 2.5 5

Kilometres

N

LEGEND

- Application Boundary
- Proposed Turbine
- Proposed Turbines 10 km Buffer
- Viewpoint
- Scheduled Monument
- Scheduled Monument Centre Point Location

Listed Building (Category)

- A
- B

Zone of Theoretical Visibility
No. of Turbine Blade Tips Visible

- High : 11 Turbines Visible
- Low : 1 Turbine Visible

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 10km 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 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 Kirkton.

•The proposed turbine blade tips heights of 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 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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www.slrconsulting.com

KIRKTON ENERGY PARK - EIA

ARCHAEOLOGY & CULTURAL HERITAGE

CULTURAL HERITAGE DESIGNATIONS

FIGURE 11.2

Scale 1:100,000 @ A3

Date NOVEMBER 2022

11143.00001.0212.0 Cultural Heritage Designations

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