240000 250000 260000 270000 280000 290000 300000 310000 320000 330000 340000

1000000 990000 980000 970000 960000

Dounreay Test and Demo Floating
Dounreay Tri Floating Wind Demonstration
Forss Wind Farm (Extension)
Forss Windfarm Extension 3
Forss Wind Farm
Hill of Lybster
Cairnmore Hill Wind Farm Resubmission
Baillie Wind Farm
Taigh Na Muir Dunnet
Lochend
Lochend Extension
Slickly
Hill of Stroupster
Weydale Farm
Corsback Hill
Armadale Wind Farm
Bettyhill Wind Farm Phase 1
Melvich Wind Energy Hub
Limekiln Section 36 Variation
Bettyhill Extension
Strathy North
Limekiln Wind Farm (Extension)
Cogle Moss Wind Farm
Loch Toftinghall Wind Farm
Achlachan Wind Farm
Bilbster Wind Farm
Wathegar 2 Wind Farm
Causeymire
Halsary Wind Farm
Achairn
Camster
Tormsdale Wind Farm
Bad a Cheo Wind Farm
Tacher
Rangag Farm
Strathy Wood
Strathy South
Stemster Wind Farm
Golticlay Wind Farm
Boulfruich
Hill Of Lychrobbie
5 km
10 km
15 km
20 km
25 km
30 km
35 km
40 km
0 5 10
Kilometres

LEGEND

- Application Boundary
- Proposed Turbine
- Proposed Turbines 5 - 40 km Buffers

Cumulative Wind Turbine Status

- Scoping
- In Planning
- Approved
- Operational/ Under Construction

Zone of Theoretical Visibilty (ZTV) Bare Earth: Wind Farms Visible

- Kirkton Wind Farm Only
- Consented & Operational Wind Farms
- Kirkton Wind Farm & Consented and Operational Wind Farm
- In Planning Wind Farms
- Kirkton Wind Farm & In Planning Wind Farms
- Consented & Operational Wind Farms & In Planning Wind Farms
- All Wind Farms

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 (4m RMSE). 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 Energy Park.The baseline ZTV has been generated from all cumulative wind farms considered in this report.

•The cumulative wind farm turbines blade tips heights that have been used for generating the ZTV are listed in previous figures.

•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.

KIRKTON WIND FARM LTD

SLR
4/5 LOCHSIDE VIEW
EDINBURGH PARK
EDINBURGH
EH12 9DH
T: +44 (0)131 335 6830
www.slrconsulting.com

KIRKTON ENERGY PARK - EIA

LANDSCAPE AND VISUAL

CUMULATIVE ZONES OF THEORETICAL VISIBILITY

FIGURE 7.4I

Scale 1:325,000 @ A3

Date NOVEMBER 2022

11143.00001.0262.0 Cumulative ZTV - Consented and Operational_In Planning Kirkton

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