



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 Visibility (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.

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SEI

CUMULATIVE ZTV - CONSENTED AND OPERATIONAL_IN PLANNING KIRKTON

SEI FIGURE 7.4I

Scale1:325,000 @ A3

DateSEPTEMBER 2023