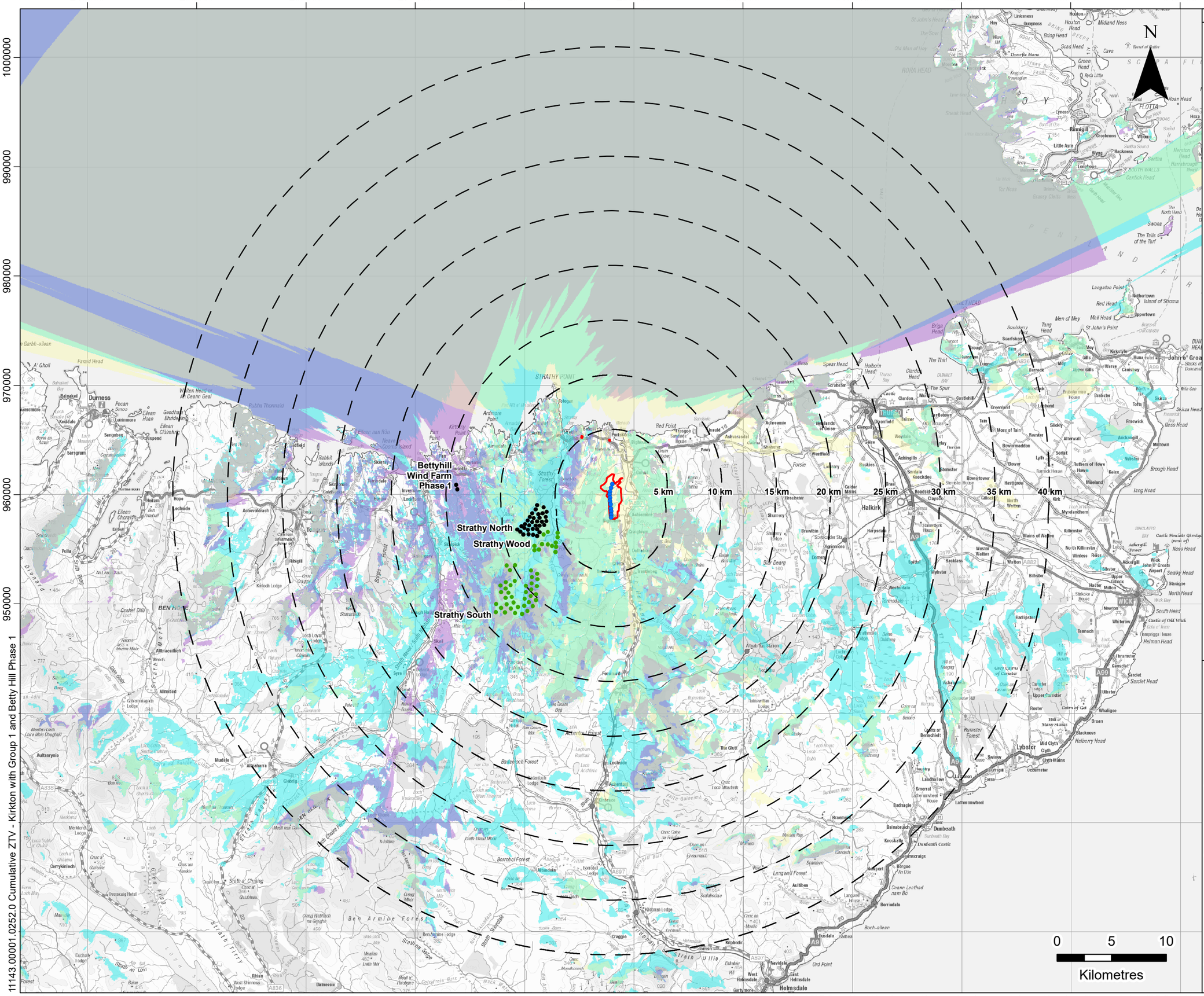

LEGEND

Application Boundary

Proposed Turbine

Proposed Turbines 5 - 40 km Buffers

Cumulative Wind Turbine Status

Approved

Operational/ Under Construction

Zones of Theoretical Visibility

Group 1

Kirkton Energy Park

Betty Hill Phase 1

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 folowing 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 Consented turbine locations listed below.

• The proposed and consented turbine blade tips heights that have been used for generating the ZTV are listed below:
- Kirkton = 149.9 m
- Bettyhill Phase 1 = 119 m

Group 1
- Strathy North = 110 m
- Strathy South = 200 m
- Strathy Wood = 180 m

•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

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

ZONES OF THEORETICAL VISIBILITY: KIRKTON WITH GROUP 1 AND BETTY HILL PHASE 1

FIGURE 7.4a

Scale	Date
1:325,000 @ A3	NOVEMBER 2022

11143.00001.0252.0 Cumulative ZTV - Kirkton with Group 1 and Betty Hill Phase 1

Contains Ordnance Survey data © Crown copyright and database rights (2021) 0100031673.

© This drawing and its content are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission. SLR Consulting Ltd accepts no liability for any amendments made by other persons.