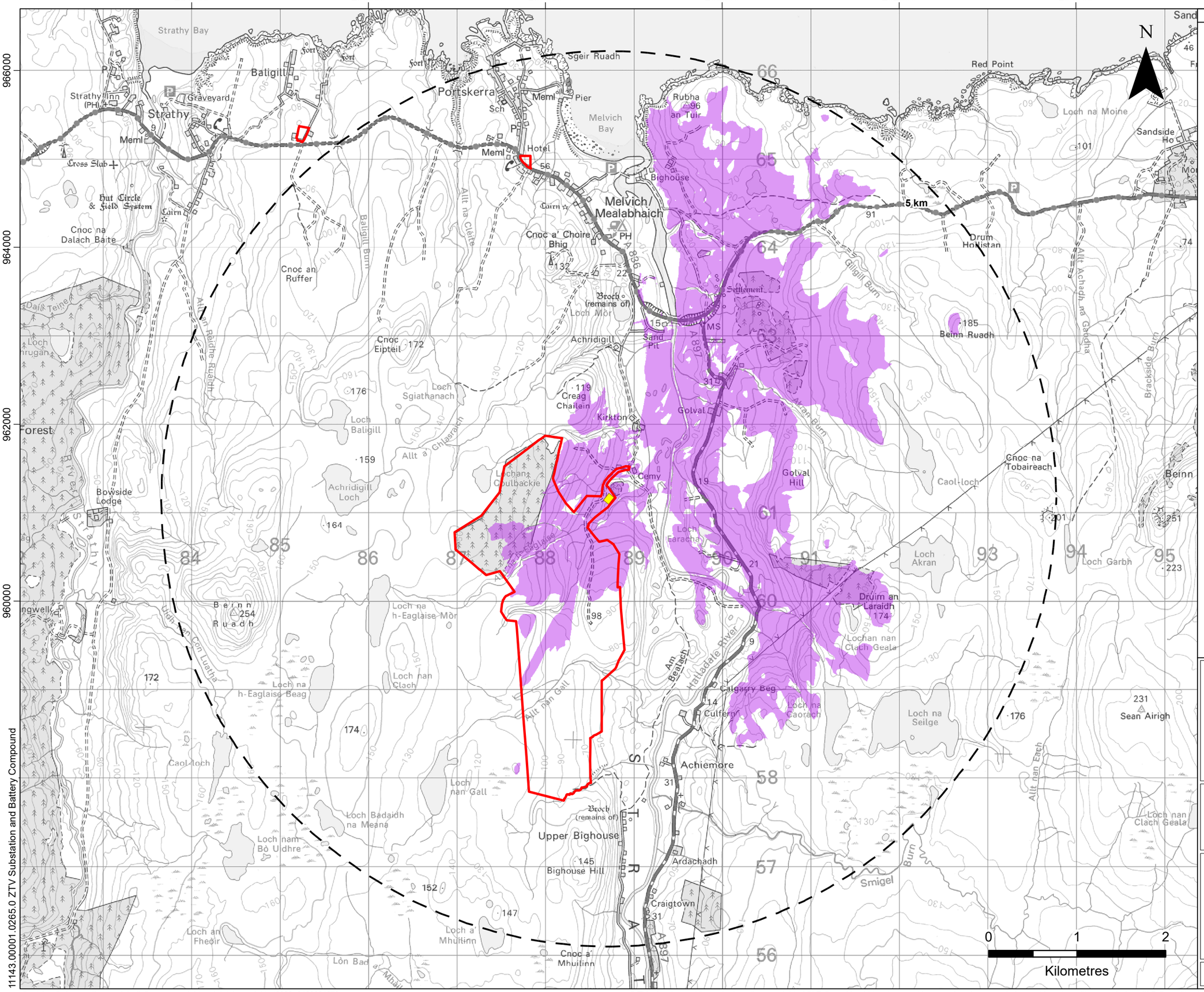

LEGEND

- Application Boundary
- Proposed Substation Compound
- Substation 5 km Buffer

Zone of Theoretical Visibility (ZTV): Bare Earth

- Substation 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 (1.5 - 2.5m Root Mean Square Error [RMSE]) up to 15km from the Substation location. 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 grid points positioned on each corner and then 20m apart across the area of the proposed Substation Compound location for Kirkton Energy Park - EIA.
- The proposed Substation Compound height of 7 m has 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.

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LANDSCAPE & VISUAL

BARE EARTH ZTV: PROPOSED SUBSTATION

FIGURE 7.2h

Scale 1:40,000 @ A3

Date NOVEMBER 2022

11143.00001.0265.0 ZTV Substation and Battery Compound

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