

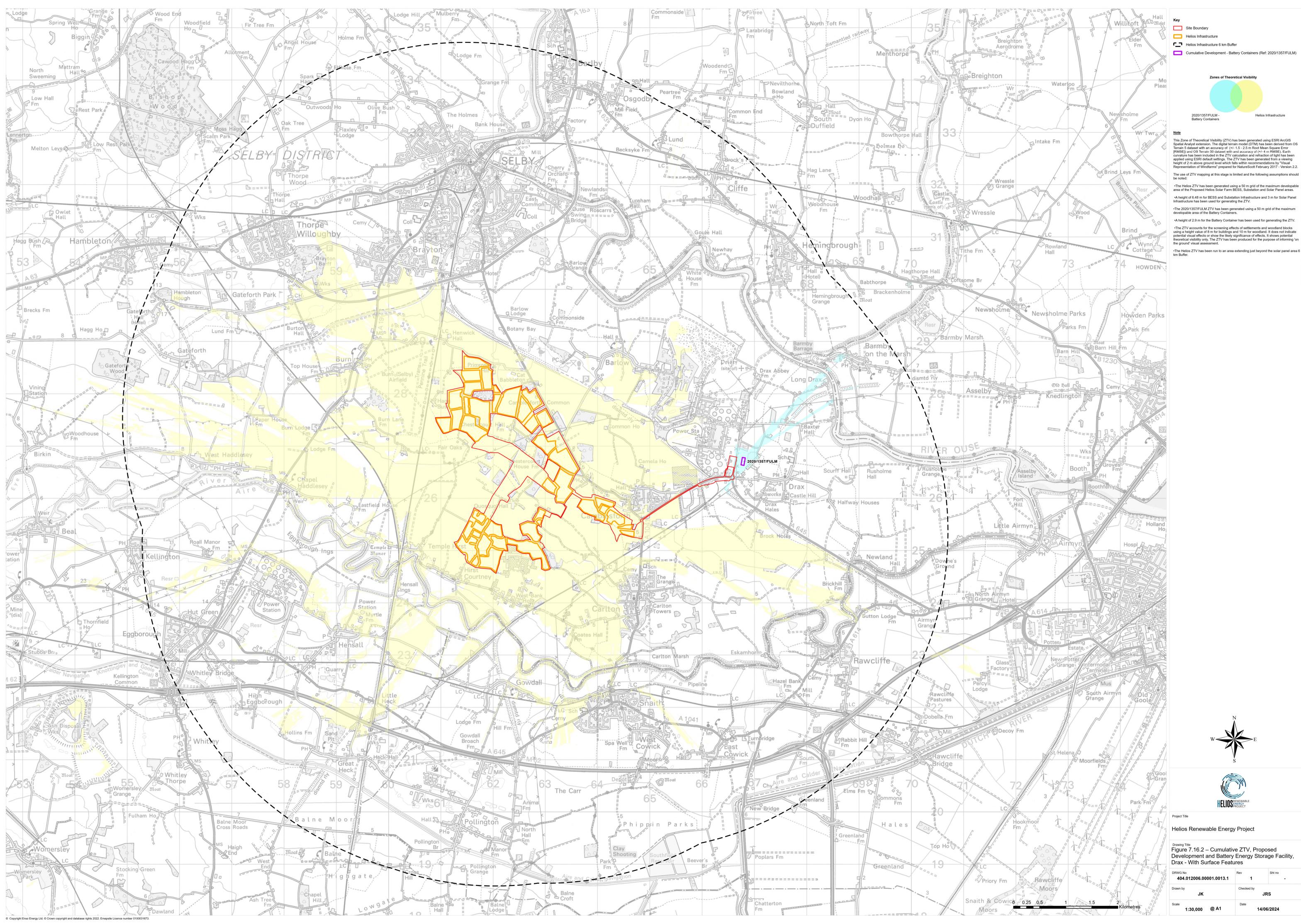
PINS Document Number: EN010140/APP/6.2.7.16.2

Pursuant to:

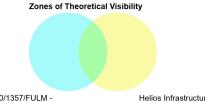
APFP Regulation 5(2)(a)

Environmental Statement Figure 7.16.2: Cumulative ZTV, Proposed Development and Battery Energy Storage Facility, Drax - With Surface Features

June 2024



Helios Infrastructure 6 km Buffer Cumulative Development - Battery Containers (Ref: 2020/1357/FULM)



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 with an accuracy of (+/- 1.5 - 2.5 m Root Mean Square Error [RMSE]) and OS Terrain 50 dataset with and accuracy of (+/- 4 m RMSE). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using ESRI default settings. The ZTV has been generated from a viewing beight of 2 m shove ground layed which falls within recommendations by "Visual height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for NatureScott February 2017 - Version 2.2.

•The Helios ZTV has been generated using a 50 m grid of the maximum developable area of the Proposed Helios Solar Farm BESS, Substation and Solar Panel areas. •A height of 6.48 m for BESS and Substation Infrastructure and 3 m for Solar Panel

•The 2020/1357/FULM ZTV has been generated using a 50 m grid of the maximum developable area of the Battery Containers.

•A height of 2.9 m for the Battery Container has been used for generating the ZTV. •The ZTV accounts for the screening effects of settlements and woodland blocks using a height value of 8 m for buildings and 10 m for 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 Helios ZTV has been run to an area extending just beyond the solar panel area 6





Helios Renewable Energy Project

Figure 7.16.2 – Cumulative ZTV, Proposed Development and Battery Energy Storage Facility, Drax - With Surface Features

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