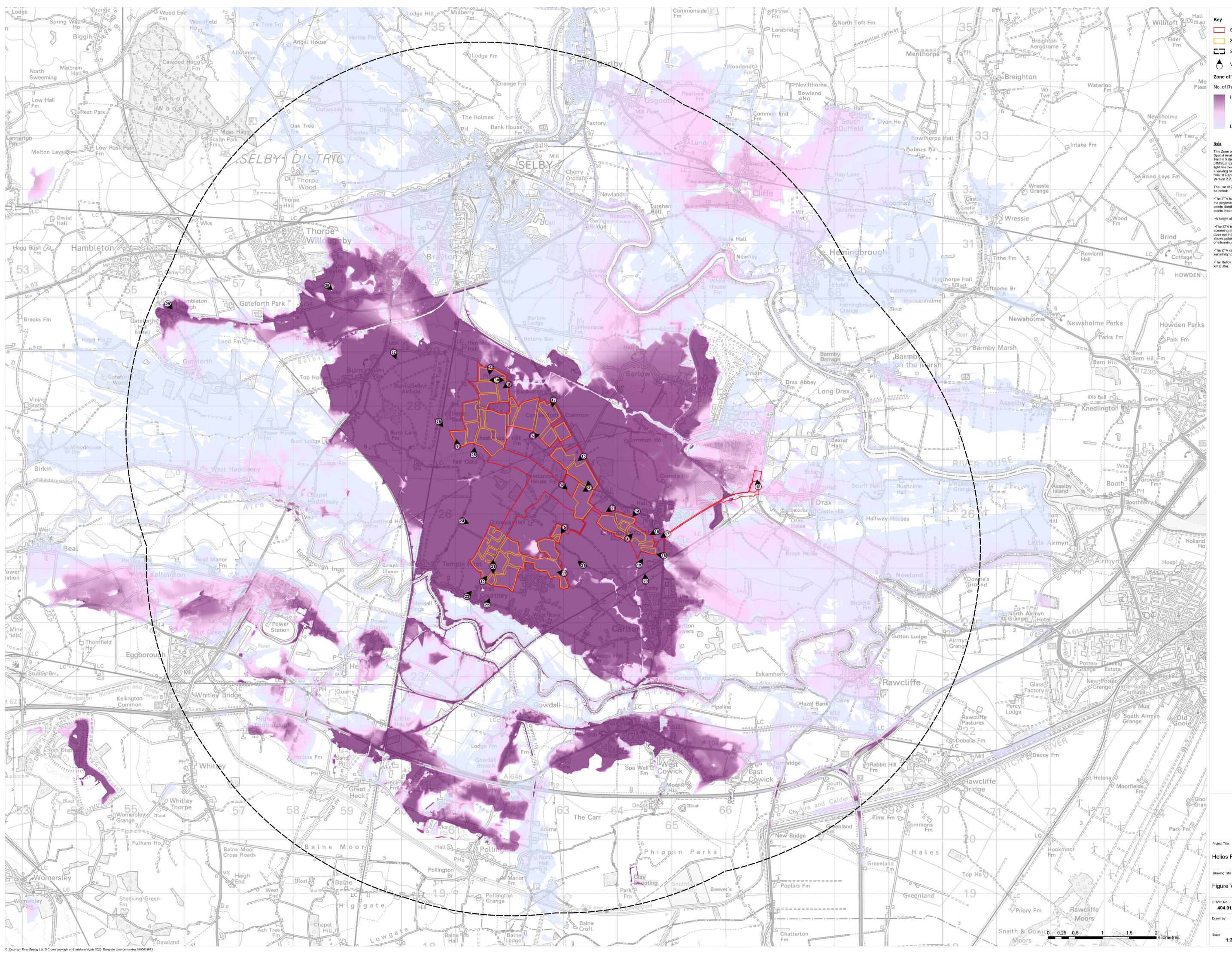


PINS Document Number: EN010140/APP/6.2.7.6

Pursuant to: APFP Regulation 5(2)(a)

Environmental Statement Figure 7.6: Tranquility Plan

June 2024



Key Site Boundary



Solar Panel Area 6 km Buffer

Viewpoint Location

Zone of Theoretical Visibility Bare Earth Scenario

Pleas No. of Reference Points Visible Within Solar Panel Area Highest Number Based off a 50 m Grid - 1084

Lowest Number Based off a 50 m Grid - 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 5 dataset with an accuracy of (+/- 1.5 - 2.5 m Root Mean Square Error [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 height of 2m above ground level which falls within recommendations by "Visual Representation of Wind Farms" prepared for NatureScot February 2017 -Version 2.2 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 a 50 m grid of the maximum developable area of the proposed Helios Solar Farm solar panels. This grid generates 1084 reference points distributed evenly across the solar panels, providing the maximum number of points theoretically visible from any given location. •A height of 3 m for solar panel area has been used for generating the ZTV.

•The ZTV is generated from a bare earth terrain and does not account for the 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. The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.

•The Helios ZTV has been run to an area extending just beyond the solar panel area 6 km Buffer.



ELIOSENERO

Helios Renewable Energy Project

Drawing Title

Figure 7.6 – Solar Panels ZTV – Bare Earth

DRWG No	Rev	Sht no
404.012006.00001.0011.1	1	-
Drawn by JK	Checked by	
Scale 1:30,000 @ A1	Date 14/06	/2024