



**KEY**

- Order Limits
- Onsite Substation / Energy Storage Compound
- OS Local Buildings
- National Tree Map Data
- OS Local Woodland
- Zone of Theoretical Visibility Substation Area - 9m Development Height
- Zone of Theoretical Visibility Substation Area - Additional Visibility at Maximum Height (15m)
- Viewpoint Location

Screened ZTV Production Information -  
 The ZTV has been produced using multiple datasets to create a DSM (Digital Surface Model). These have been combined together accurately using ESRI GIS software. The following datasets have been used to create the DSM -

- OS Terrain 5 used as the base DTM (digital Terrain Model) This is a 5m grid dataset.
- Bluesky's National Tree Map (NTM) This is a detailed dataset covering England and Wales. It provides a comprehensive database of location, height and canopy spread for every single tree 3m and above in height. This is created from stereo aerial photography. Heights used within the model are the MAXIMUM heights supplied with the dataset.
- OS Open Map Local Woodland - used to model vegetation not covered by the NTM and set to an indicative height of 15m
- OS Open Map Local Buildings - set to indicative 8m height.
- Viewer height set at 1.7m (in accordance with para 6.11 of GLVIA Third Edition)
- Calculations include earth curvature and light refraction

N.B. This Zone of Theoretical Visibility (ZTV) image illustrates the theoretical extent of where the development may be visible from, assuming 100% atmospheric visibility, and includes the screening effect from vegetation and buildings, based on the assumptions stated above.

NOTES:

REVISIONS:

DCO Document Reference: 6.2.6  
 APFP Regulation: 5(2)(a)

**FIGURE 6.5b SCREENED ZONE OF THEORETICAL VISIBILITY - SUBSTATION EQUIPMENT WITH ESS AND PROPOSED VIEWPOINT LOCATIONS PLAN**

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