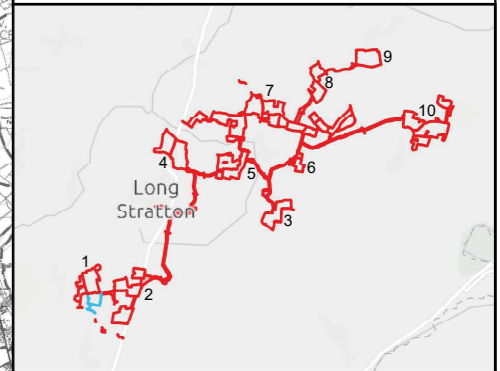


- Legend**
- The Site Boundaries
  - Cable Route Corridor
  - BESS (with 400kV substation)
  - Study Area
  - 5km Search Area
  - 3km Search Area
  - PRoW
  - Long Distance Paths
  - 📍 View Locations
- Zone of Theoretical Visibility (ZTV) of proposed Sites:**
- Visibility using DSM<sup>1</sup>
  - Visibility using DTM<sup>2</sup>

- NOTES:**
- 1) This ZTV was run on a Digital Surface Model (DSM) using National LIDAR Programme data, 1m resolution grid (2021 and 2022).
  - 2) This ZTV was run on a Digital Terrain Model (DTM) using National LIDAR Programme data, 1m resolution grid (2021 and 2022).
  - 3) The ZTV was created using ESRI ArcGIS Pro version 3.5.2 Spatial Analyst tool.
  - 4) The ZTV illustrates the area of theoretical visibility of the defined area.
  - 5) The following heights were used:
    - Solar array: 4.5m
    - BESS: 4.5m
    - National Grid Substation: 15m
    - 400kV substations: 13m
    - 132kV substations: 7m
  - 6) Observer height was set to 1.6m.
  - 7) Viewsheds have been clipped to a 3km search area for DSM and 5km search area for DTM.
  - 8) The ZTV analysis remains only as a tool in the visual appraisal of the project. It's accuracy is limited to the digital information that it has been based upon and the algorithm used in it's calculation.



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

**Figure 7.5.1**  
Zone of Theoretical Visibility with View Locations  
Overview Sheet (DTM and DSM)