500000 505000 510000

440000 435000 430000

GRID NORTH

Notes

The ZTV is calculated using the below dimensions for the proposed development:
- Substation: 25m building height and 13m AOD
- Energy storage: 15m building height and 15 AOD

The ZTV indicates the theoretical visibility of the proposal from a viewing height of 2m above ground level.

The terrain model is based on Ordnance Survey OS Terrain 5 digital terrain model (DTM) data, edited with the below features to create an indicative Digital Surface Model (DSM):
- Existing buildings are based on OSVML building data with an assumed height of 8m for each building.
- Existing woodland is based on the woodland category of the Forestry Commission NFI 2016 dataset, with an assumed height of 15m for each type of woodland, irrespective of age. Hedgerows are not modelled.

Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

VP1 VP2 VP3 VP4 VP5 VP6 VP7 VP8 VP9 VP10

A1079 A164 A1033 B1230

Burton Pidsea Woodmansey Thearne Wawne Bentley Tunstall Hildmeredales Skirlaugh Bransholme Weighton Sutton upon Derwent Elvington Village Eppleworth Ingleburn West Carr Newland Park Newland A1165 Raywell Willerby Bottom Sculcoates Wilmington Stepney

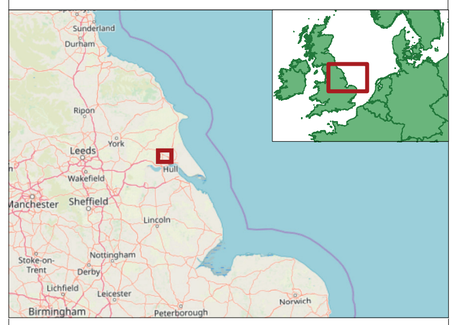
Licenses:
© OpenStreetMap (and) contributors, CC-BY-SA.
© Crown copyright and database rights 2019 Ordnance Survey 0100031673. All rights reserved.

Date: 23/08/2019 Author: lendak_e Name: Figure 4_2-ZTV

Hornsea Four
Landscape and Visual Impact Assessment

- Study Area
- PEIR Boundary
- Onshore Substation
- Viewpoint location
  - VP1: PRoW west of Creyke Beck
  - VP2: Park Lane, Cottingham
  - VP3: Footbridge over A1079
  - VP4: PRoW east of A164
  - VP5: A164 layby near Bentley
  - VP6: Fishpond Wood, Risby Hall
  - VP7: Little Weighton Road
  - VP8: Minster Way
  - VP9: Beverley Minster Tower
  - VP10: St Mary's Church, Cottingham
- Screening by Existing Buildings
- Screening by Existing Woodland

Theoretical visibility of the development
- Higher proprotion of the development visible
- Lower proportion of the development visible



Coordinate system: British National Grid

Scale@A3: 1:40,000

0 0.275 0.55 1.1 Kilometres

0 500 1,000 2,000 Yards

REV	REMARK	DATE
	First Issue	21/06/2019

Title: Zone of Theoretical Visibility (ZTV) and Viewpoints
Document no: HOW04LUC2
Created by: EL
Checked by: BG
Approved by: PMcr

LUC Ørsted