

ZTV Study - Including Screening by
Woodlands and Buildings

- Proposed turbines
- Distance from turbines (5, 10, 25km)
- National Scenic Areas
- Special Landscape Areas
- Wind farms
 - Consented
 - Operational
- Viewpoints
 - Daytime only
 - Day and night
- Zone of Theoretical Visibility (200m Blade Tip)
 - Band 1 (Gray)
 - 1-6 turbines visible
 - 7-12 turbines visible
 - 13-19 turbines visible

NOTES:
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.

The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m resolution.



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