



- Legend:**
- Proposed Ben Aketil Wind Turbines
 - Distance Radii from Outermost Turbine (5, 10, 15, 20km)
 - Viewpoints
 - Woodland (modelled at 10m)
 - Special Landscape Areas
- Zone of Theoretical Visibility**
- Any number of blade tips only may be visible
 - 1 - 3 hubs (122.5m) and any number of blade tips (200m)
 - 4 - 6 hubs (122.5m) and any number of blade tips (200m)
 - 7 - 9 hubs (122.5m) and any number of blade tips (200m)

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 Terrain 5/50 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 7m and woodland an assumed height of 10m, 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 5m² (to 15km from turbines) 50m² (beyond) resolution.

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter



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Ben Aketil Wind Farm Repowering and Extension



TITLE: Figure 6.6
 Screening ZTV to Tip and Hub

ID:P663617_SH_LAN_LANSH_LVIA_6-6_ScreeningZTV_A1_L

0 2.5 5
 Kilometres
 Scale: 1:80,000 @ A1

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