

Legend

- Turbines
- Distance from Turbines (5, 10, 15, 20km)
- Viewpoints

Zone of Theoretical Visibility

- 1-4 turbines may be visible
- 5-8 turbines may be visible
- 9-12 turbines may be visible

FIGURE DATA:
 This figure has been based on the following data:
 Layout file: Carrick-Turbines-23-01-25
 Terrain data: Carrick-DSM-T50-Final
 Viewer's eye height: 2m above ground level
 Calculation grid size: 50m

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.

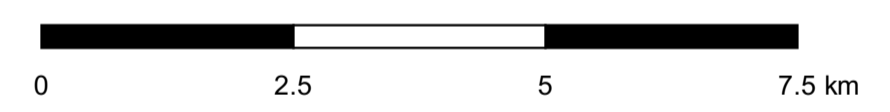
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 50 height data with the locations of woodland and buildings taken from the OS Zoomstack dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing an 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 50m² resolution.

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D	26/01/2023	ME	Fourth Issue
C	21/10/2021	JO	Third Issue
B	24/11/2020	PM	Second Issue
A	19/11/2020	CE	First Issue
Rev	Date	By	Comment



Carrick Windfarm
 Figure 5.1c (AI): Blade Tip ZTV with
 Woodland and Settlement Screening

Drg No	Carrick-WSP-I-174
Rev	00
Date	26/01/2023
Scale	1:75,000 @ A1