



BLOCH WIND FARM

FIGURE 5.11

CUMULATIVE ZONE OF THEORETICAL VISIBILITY (ZTV) STUDY: SCHEMES IN PLANNING - INCLUDING WOODLANDS AND SETTLEMENTS

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Proposed Turbines

180m (Tip)

- 200m (Tip)
- 230m (Tip)

Distance from Proposed Turbines (5, 15, 25,

Loganhead

VP10 - Burnswark Hill Fort

Scoop Hill

- Harestanes South

- Viewpoints
- VP1 High Stenries VP2 - Minor road near Barnglieshead VP11 - A7 near Unthank
 - VP12 Bowness-on-Solway VP13 - Caerlaverock Castle VP14 - Banks, Hadrian's Wall
- VP6 B6318 north-west of Claygate VP15 Gretna Green/Springfield
- VP7 Langholm Bridge VP16 Kirkpatrick-Fleming
 VP8 Malcolm Monument, Langholm VP17 Repentance Tower, Hoddon VP9 - Longtown

Zone of Theoretical Visibility (ZTV)

15km north-west: Harestanes



Turbines within 15km north: Callisterhall, Hopsrig, Loganhead, Faw Side



This drawing uses tip heights for both proposed, operational and consented turbines. It is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the viewshed routine in the ESRI ArcGIS Suite. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and settlements, which have been included in the model with the heights obtained from Nextmap 25. It should be noted that in some areas obtained from Nextmap 25. It should be noted that in some areas woodlands included within the ZTV may comprise active forestry, resulting in the felling and replanting of some areas modelled in the ZTV study. The ZTV study reflects this pattern at a specific point in time, as it is based on real height information. Whilst the felling cycle will alter the heights of different areas of forestry over time, altering localised visual effects, the wider pattern will remain relatively constant.

The model does not take into account any 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 Nextmap 25 terrain data and has a 25m²



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SCALE - 1:135,000 @ A1

ENVIRONMENTAL IMPACT ASSESSMENT REPORT 2022

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