275000 280000 285000 290000 295000

715000 710000 705000 700000

12959.00001.0232.0 Substation ZTV

N

0 2.5 5

Kilometres

LEGEND

- Application Boundary
- Proposed Substation Compound
- Proposed Substation Compound 10 km Buffer
- Theoretical Area from where the Substation is Visible (Bare Earth Scenario)

**Note:**

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/-2 m) up to 10 km from the proposed substation compound. Earth curvature has been included in the ZTV calculation and refraction of light has been applied. The ZTV has been generated from a viewing height of 2 m above ground level.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed substation compound for Windburn Wind Farm.
- The proposed substation height of 5 m has been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.




# WINDBURN WIND FARM LTD

SLR

WINDBURN WIND FARM

SITE DESCRIPTION AND DESIGN EVOLUTION

**SUBSTATION ZTV**

**FIGURE 2.8**

Scale 1:80,000 @ A3

Date APRIL 2025

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