



- Legend:**
- Proposed Millennium East Wind Turbines
  - Distance Radii from Outermost Turbines (5, 10, 15, 20km)
  - Existing Millennium Wind Turbines
  - Viewpoints
  - ▭ Highland Council Special Landscape Areas
  - ▭ Cairngorms National Park
  - ▭ National Scenic Areas
  - ▭ Wild Land Areas
- Zone of Theoretical Visibility to Blade Tip (200m)**
- 1 - 3 turbines may be visible
  - 4 - 6 turbines may be visible
  - 7 - 8 turbines may be 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 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 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 50m resolution.

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



Rev	Date	Description	Drn	Chk	App
00	25/10/2023	First Draft	MP	RA	

**Millenium East Wind Farm**



**TITLE:** Figure 5.1.3  
 Zone of Theoretical Visibility to Blade Tip  
 with Screening Effect of Woodland and  
 Settlement

ID:0678-Scoping-ZTVs\_5.1.3 Screening Blade Tip ZTV 20km

