

Figure 4  
Bare Earth Zone of Theoretical Visibility  
for Wind Turbines

Key

- Proposed Lairdmannoch Wind Turbines
  - ⊖ Distance Radii from Outermost Turbine (10, 25, 35, 45km)
  - Viewpoints
- Zone of Theoretical Visibility**
- Any number of blade tips (180m) only may be visible
  - 1 - 3 hubs (102.5m) and any number of blade tips may be visible
  - 4 - 6 hubs (102.5m) and any number of blade tips may be visible
  - 7 - 9 hubs (102.5m) and any number of blade tips may be visible

**Figure Data:**  
This figure has been based on the following data:

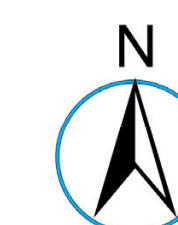
Layout file: Doo1-obvs-BT-T50-45km.shp  
Terrain data: T50-DTM.asc  
Viewer's eye height: 2m  
Calculation grid size: 50m

**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 topography into account.  
This visibility map is based on a 'bare earth' model of the landform and does not show any effects of screening from obstacles such as buildings and vegetation.  
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DIM and has a 50m<sup>2</sup> resolution.



0 2.5 5 10  
Kilometers



Scale @ A1:  
1:170,000



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