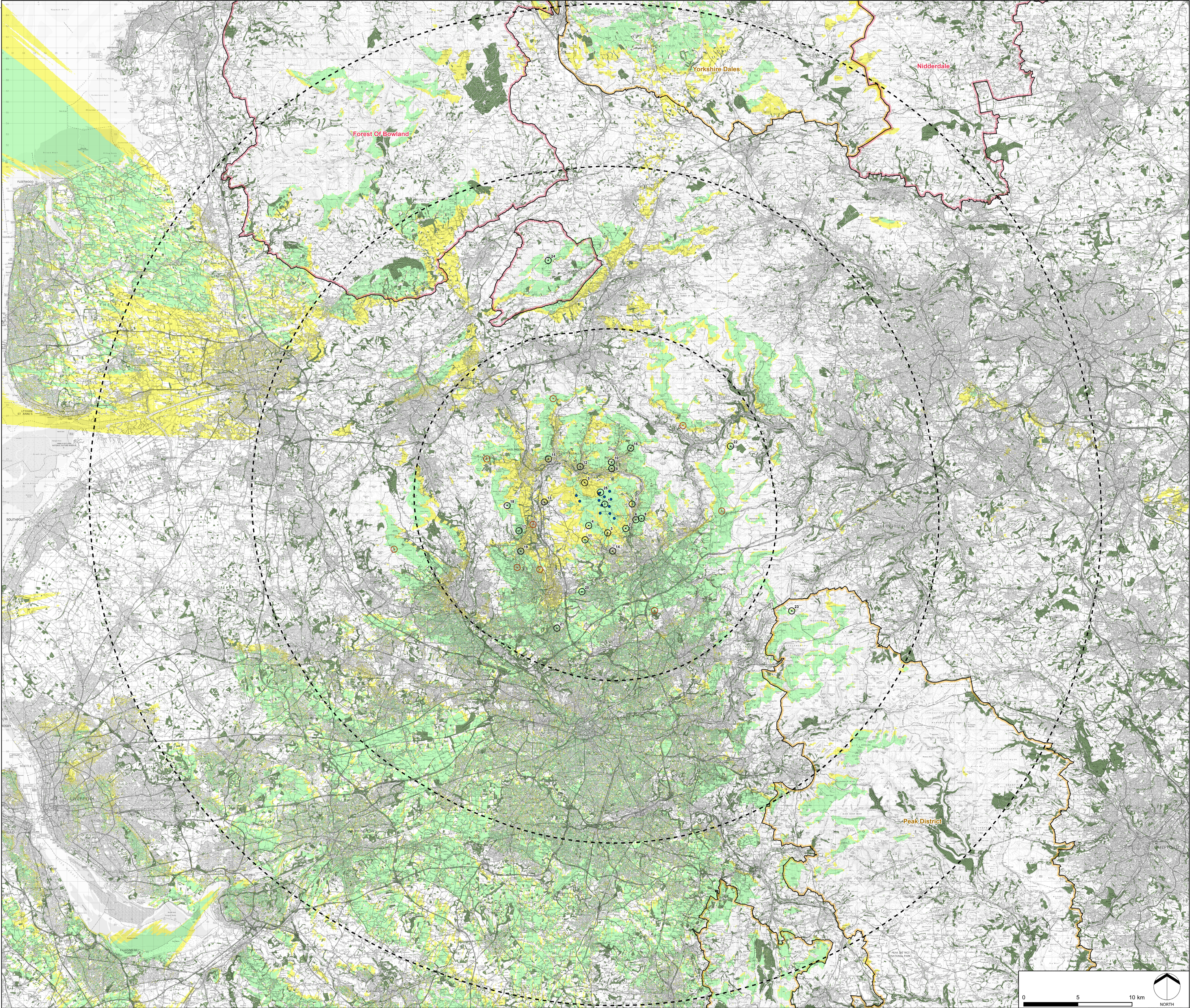




SCOUT MOOR II WIND FARM

FIGURE 11.8

ZTV to Hub Height with Screening

KEY

Scout Moor II Turbines

Distance Radii from Outermost Turbines (15, 30, 45km)

Viewpoints

Illustrative Wirelines

Woodland (modelled at 10m)

National Parks

National Landscapes

Zone of Theoretical Visibility (105m to hub height)

1 - 6 turbines may be visible

7 - 12 turbines may be visible

The 13–17 turbine visibility category shown in the ES is not included as the scheme has been reduced to 12 turbines.

FIGURE DATA:
This figure has been based on the following data:

Layout file: D012-obvs-HH-T5-20km.shp; D012-obvs-HH-T50-90km.shp
Terrain data: T5-DSM.asc; T50-DSM-45km.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 5m (to 5km from turbines) / 50m (beyond)

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 5/50 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 10m, 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 DTM and has a 5m² (to 5km from turbines) / 50m² resolution.
Projected Coordinate System: British National Grid
Cubico UK Development (Wind 1) Ltd

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