

- Legend**
- Site Boundary
  - Local Authority boundary
  - + Garn Fach turbine location
  - 5km turbine buffer intervals
  - NDF Pre Assessed Wind Energy Areas

**LUC** SCALE 1:325,000 (A3)

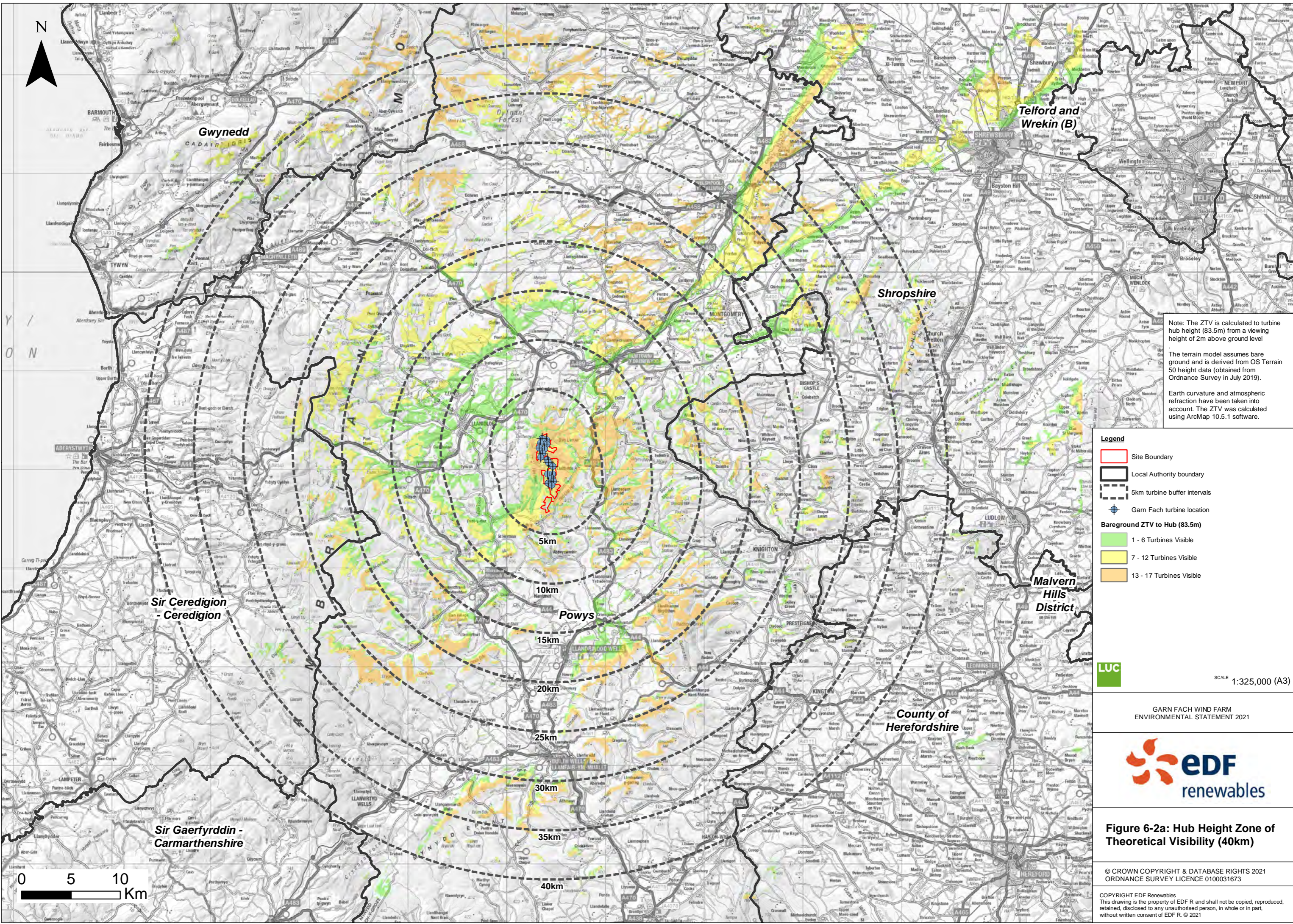
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**Figure 6-1: Landscape and Visual Impact Assessment Study Area**

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Note: The ZTV is calculated to turbine hub height (83.5m) from a viewing height of 2m above ground level

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019).

Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

- Legend**
- Site Boundary
  - Local Authority boundary
  - 5km turbine buffer intervals
  - Garn Fach turbine location
- Background ZTV to Hub (83.5m)**
- 1 - 6 Turbines Visible
  - 7 - 12 Turbines Visible
  - 13 - 17 Turbines Visible

**LUC** SCALE 1:325,000 (A3)

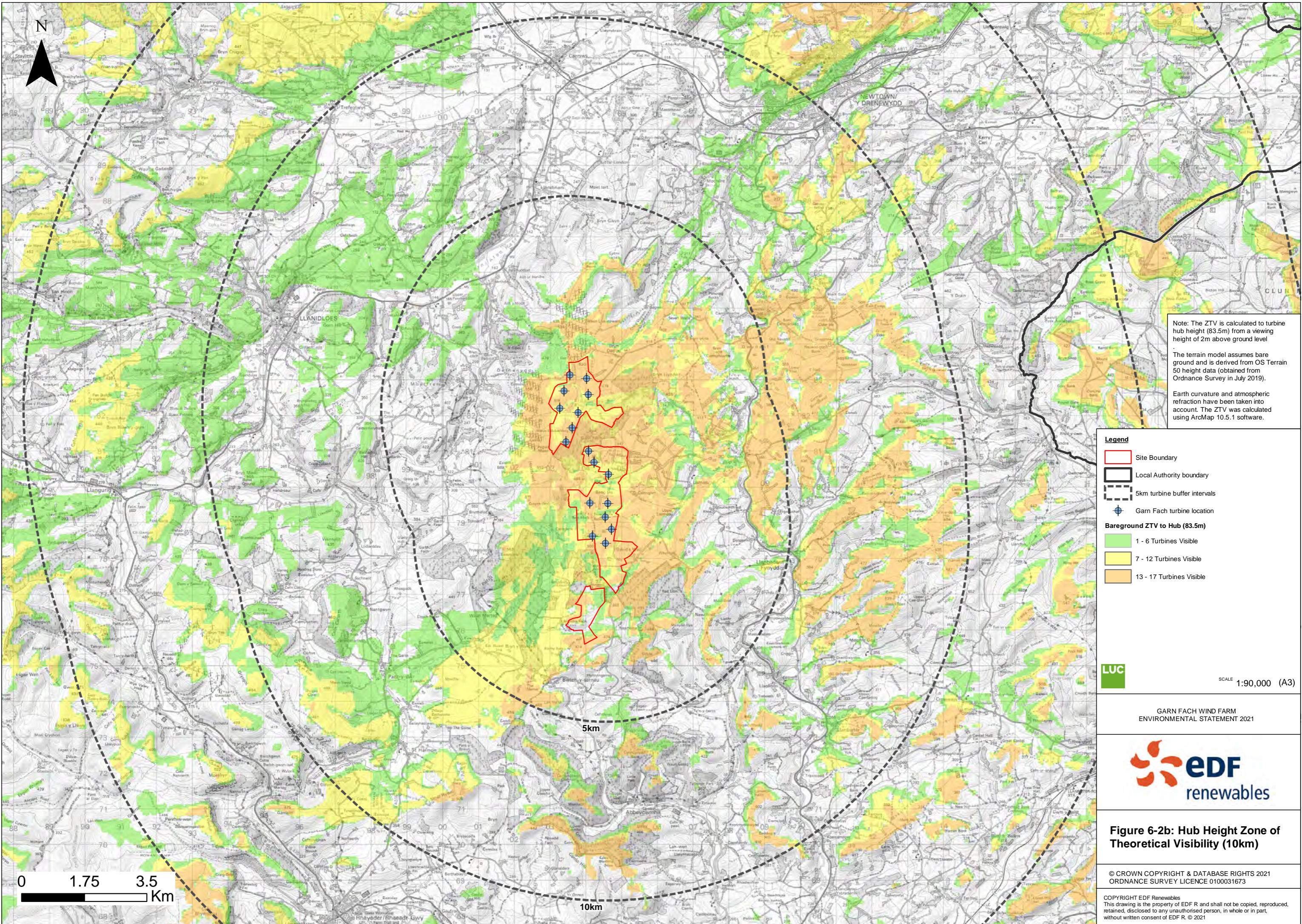
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**Figure 6-2a: Hub Height Zone of Theoretical Visibility (40km)**

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Note: The ZTV is calculated to turbine hub height (83.5m) from a viewing height of 2m above ground level

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019).

Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

- Legend**
- Site Boundary
  - Local Authority boundary
  - 5km turbine buffer intervals
  - ◆ Garn Fach turbine location
- Background ZTV to Hub (83.5m)**
- 1 - 6 Turbines Visible
  - 7 - 12 Turbines Visible
  - 13 - 17 Turbines Visible

**LUC** SCALE 1:90,000 (A3)

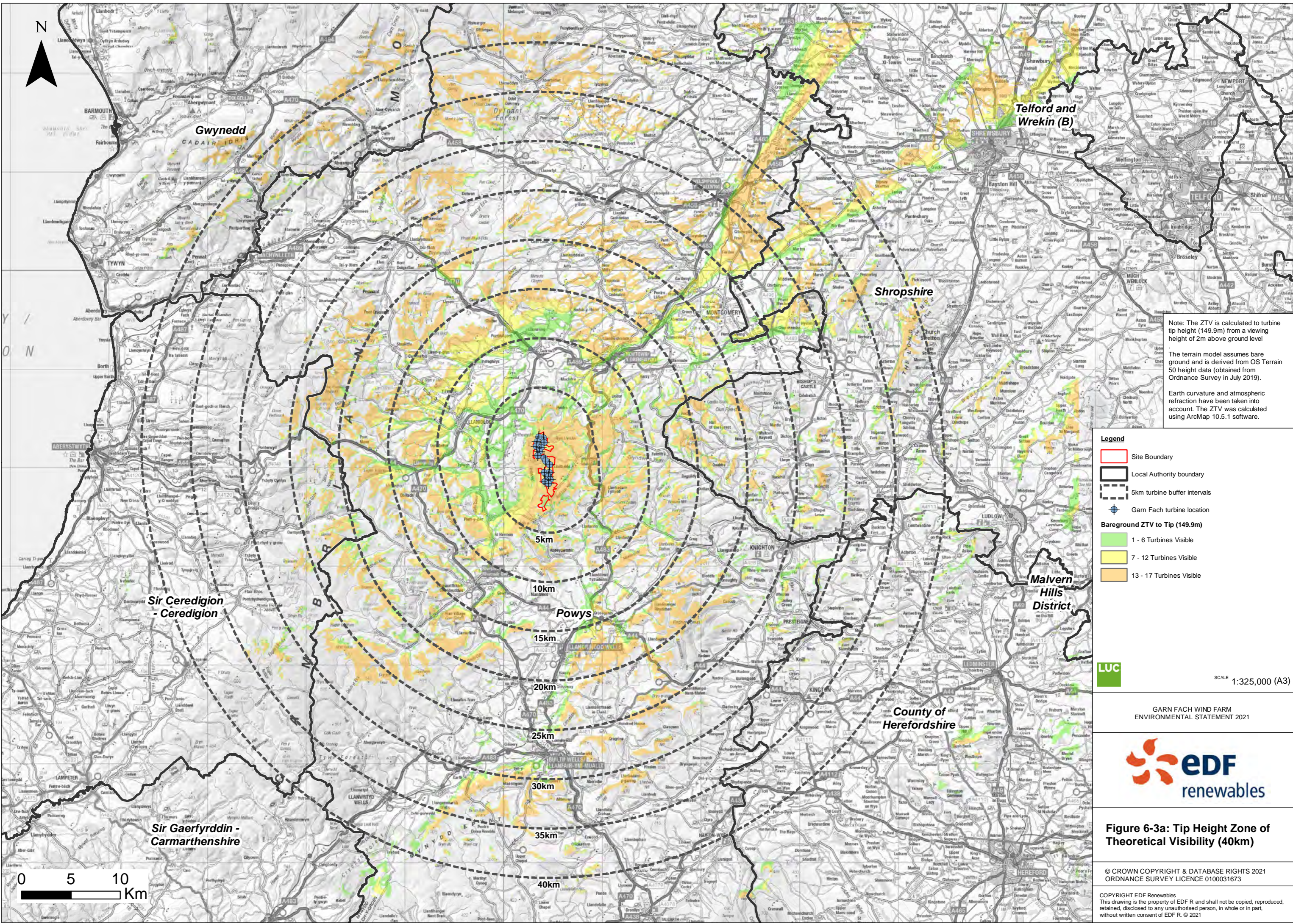
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**Figure 6-2b: Hub Height Zone of Theoretical Visibility (10km)**

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Note: The ZTV is calculated to turbine tip height (149.9m) from a viewing height of 2m above ground level

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019).

Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

**Legend**

- Site Boundary
- Local Authority boundary
- 5km turbine buffer intervals
- Garn Fach turbine location

**Background ZTV to Tip (149.9m)**

- 1 - 6 Turbines Visible
- 7 - 12 Turbines Visible
- 13 - 17 Turbines Visible

**LUC** SCALE 1:325,000 (A3)

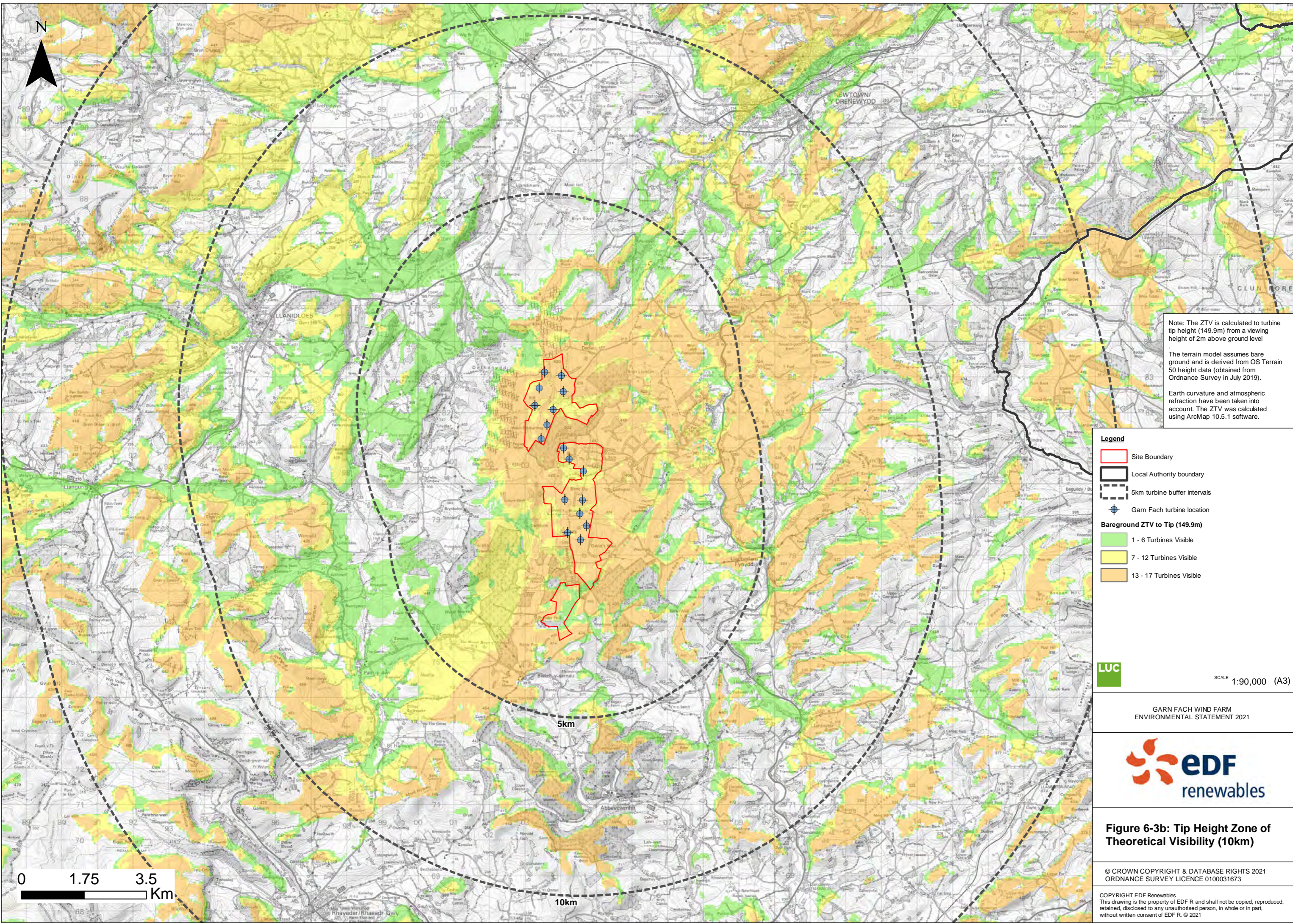
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**Figure 6-3a: Tip Height Zone of Theoretical Visibility (40km)**

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Note: The ZTV is calculated to turbine tip height (149.9m) from a viewing height of 2m above ground level

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019).

Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

**Legend**

- Site Boundary
- Local Authority boundary
- 5km turbine buffer intervals
- ◆ Garn Fach turbine location

**Background ZTV to Tip (149.9m)**

- 1 - 6 Turbines Visible
- 7 - 12 Turbines Visible
- 13 - 17 Turbines Visible

**LUC** SCALE 1:90,000 (A3)

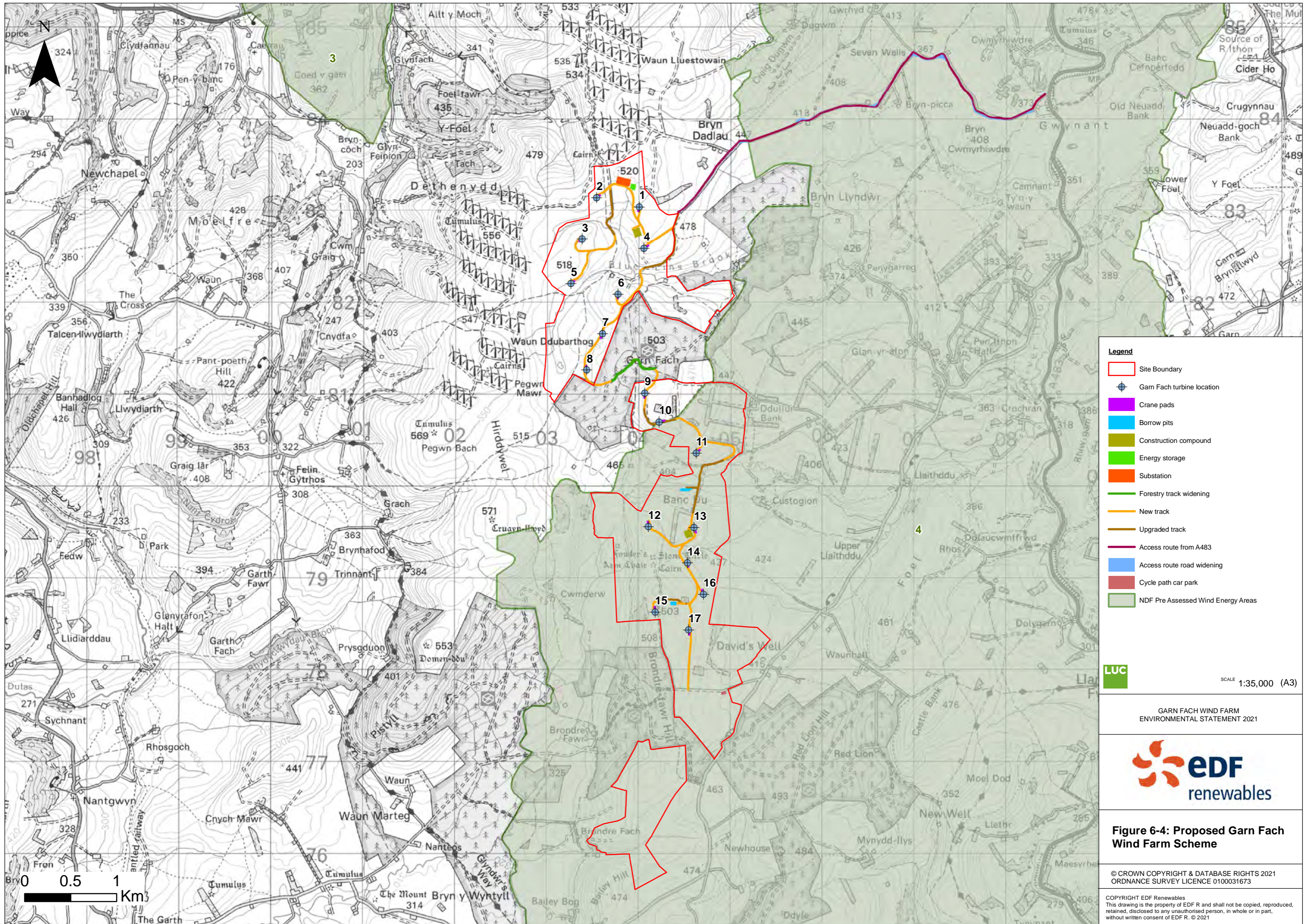
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**Figure 6-3b: Tip Height Zone of Theoretical Visibility (10km)**

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- Legend**
- Site Boundary
  - GARN FACH turbine location
  - Crane pads
  - Borrow pits
  - Construction compound
  - Energy storage
  - Substation
  - Forestry track widening
  - New track
  - Upgraded track
  - Access route from A483
  - Access route road widening
  - Cycle path car park
  - NDF Pre Assessed Wind Energy Areas

**LUC** SCALE 1:35,000 (A3)

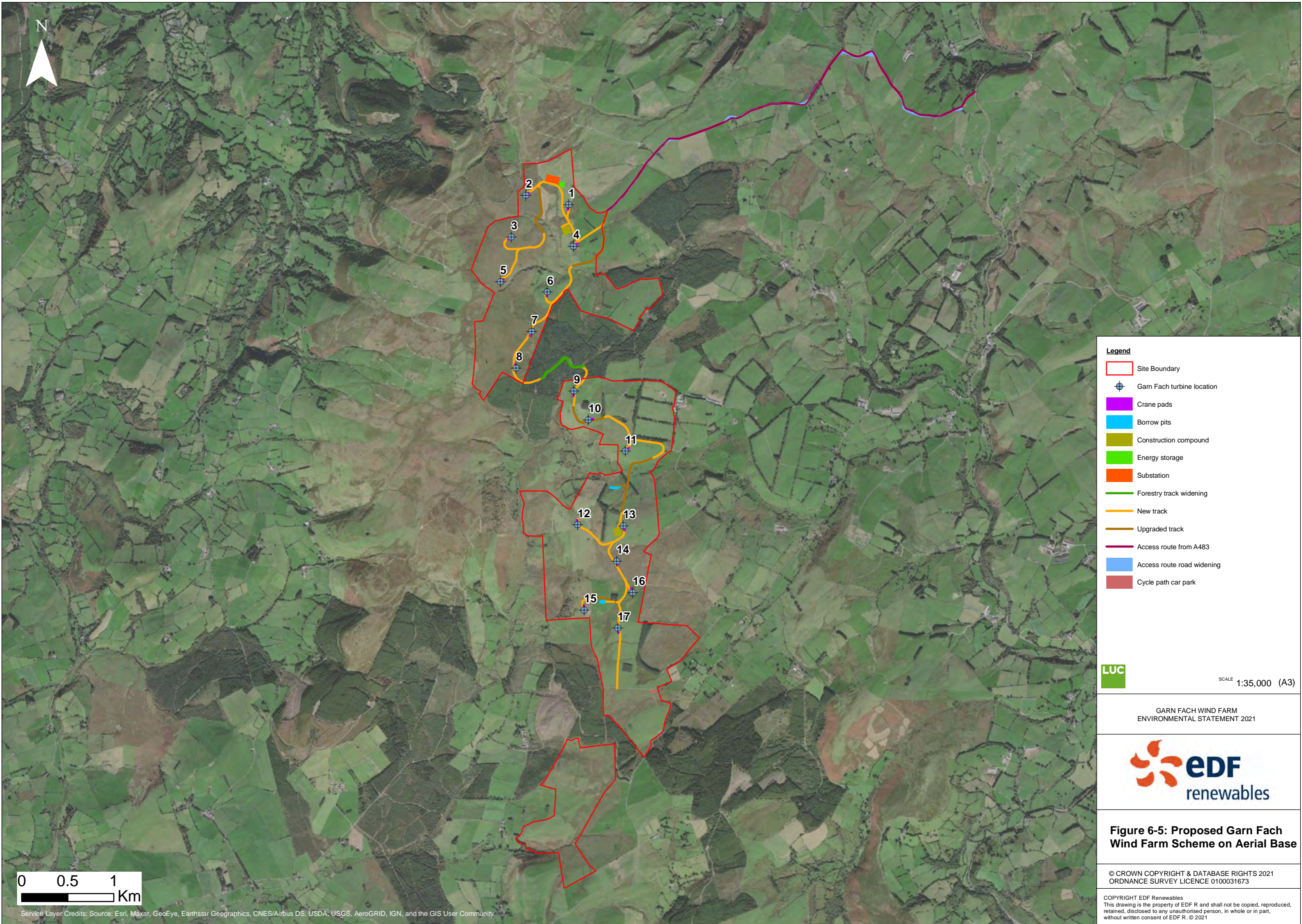
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**Figure 6-4: Proposed GARN FACH Wind Farm Scheme**

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- Legend**
- Site Boundary
  - Garn Fach turbine location
  - Crane pads
  - Borrow pits
  - Construction compound
  - Energy storage
  - Substation
  - Forestry track widening
  - New track
  - Upgraded track
  - Access route from A483
  - Access route road widening
  - Cycle path car park

**LUC** SCALE 1:35,000 (A3)

GARN FACH WIND FARM ENVIRONMENTAL STATEMENT 2021



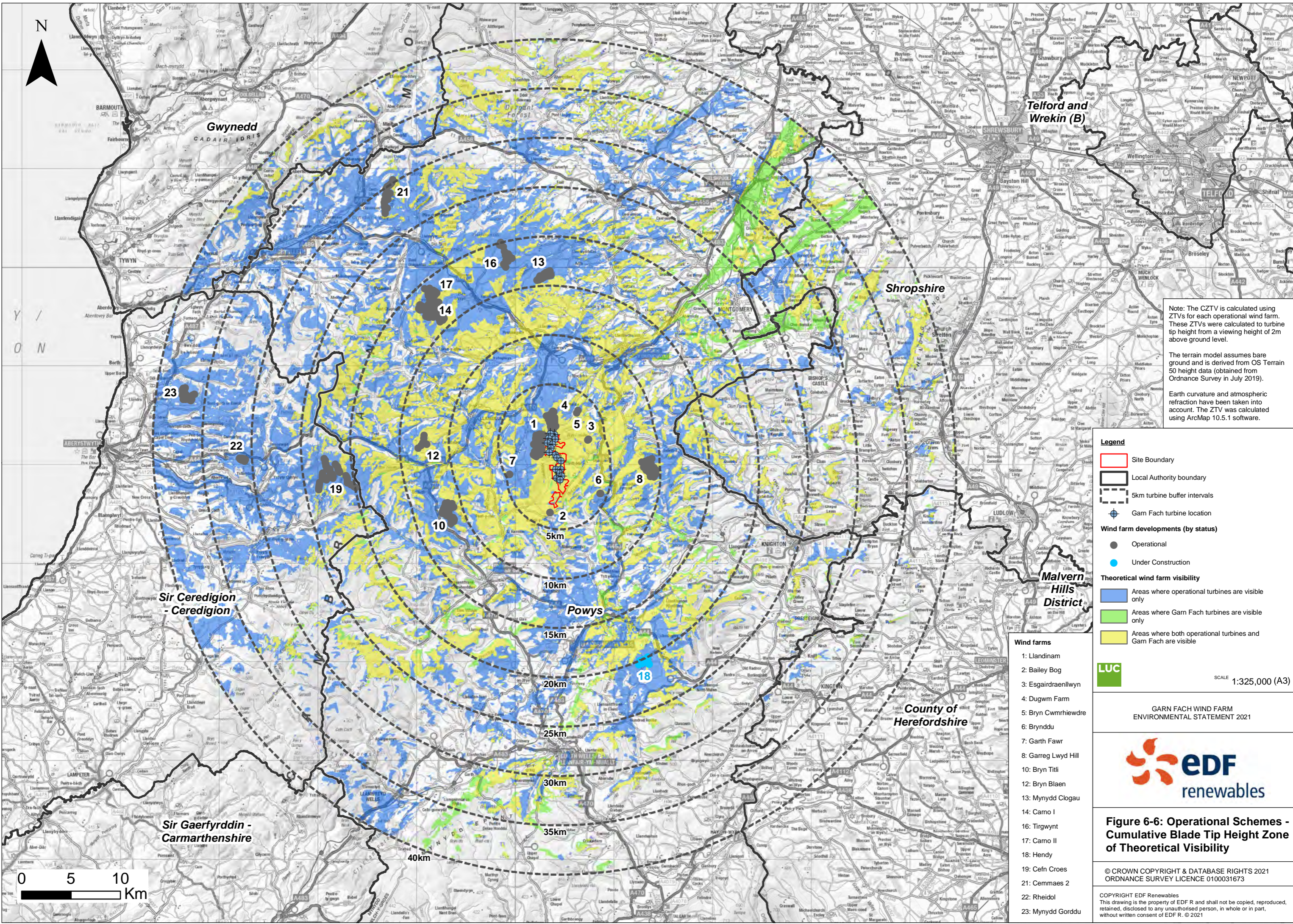
**Figure 6-5: Proposed Garn Fach Wind Farm Scheme on Aerial Base**

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0 0.5 1 Km

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Note: The CZTV is calculated using ZTVs for each operational wind farm. These ZTVs were calculated to turbine tip height from a viewing height of 2m above ground level.

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019).

Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

**Legend**

- Site Boundary
- Local Authority boundary
- 5km turbine buffer intervals
- Garn Fach turbine location

**Wind farm developments (by status)**

- Operational
- Under Construction

**Theoretical wind farm visibility**

- Areas where operational turbines are visible only
- Areas where Garn Fach turbines are visible only
- Areas where both operational turbines and Garn Fach are visible

**LUC** SCALE 1:325,000 (A3)

- Wind farms**
- 1: Llandinam
  - 2: Bailey Bog
  - 3: Esgairdraenllwyn
  - 4: Dugwm Farm
  - 5: Bryn Cwmrhiewdre
  - 6: Brynddu
  - 7: Garth Fawr
  - 8: Garreg Lwyd Hill
  - 10: Bryn Titi
  - 12: Bryn Blaen
  - 13: Mynydd Clogau
  - 14: Camo I
  - 16: Tirgwynt
  - 17: Camo II
  - 18: Hendy
  - 19: Cefn Croes
  - 21: Cemmaes 2
  - 22: Rheidol
  - 23: Mynydd Gorddu

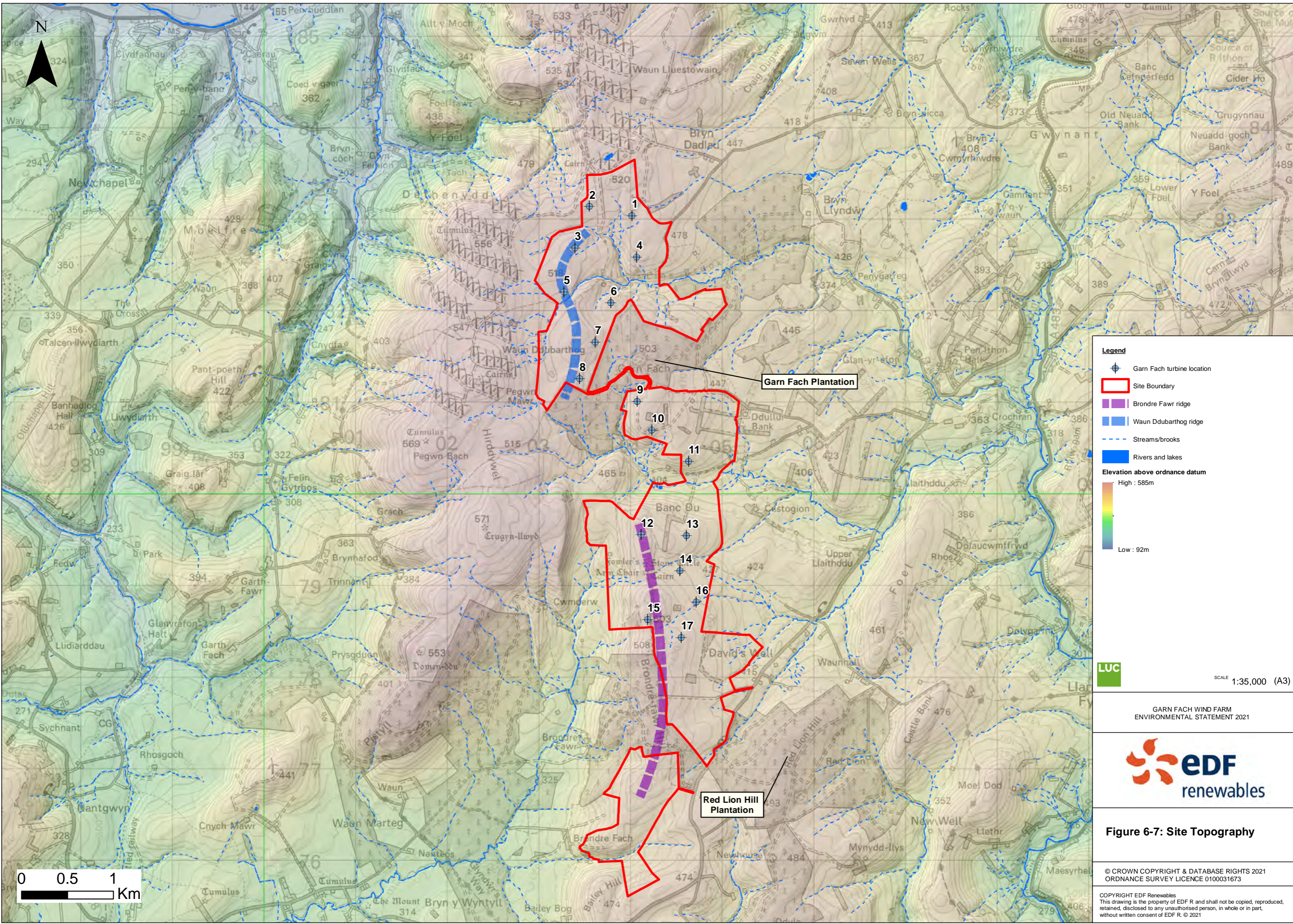
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**Figure 6-6: Operational Schemes - Cumulative Blade Tip Height Zone of Theoretical Visibility**

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**Legend**

- Garn Fach turbine location
- Site Boundary
- Brondre Fawr ridge
- Waun Ddubarthog ridge
- Streams/brooks
- Rivers and lakes

**Elevation above ordnance datum**

High : 585m  
Low : 92m

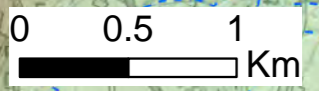
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SCALE 1:35,000 (A3)

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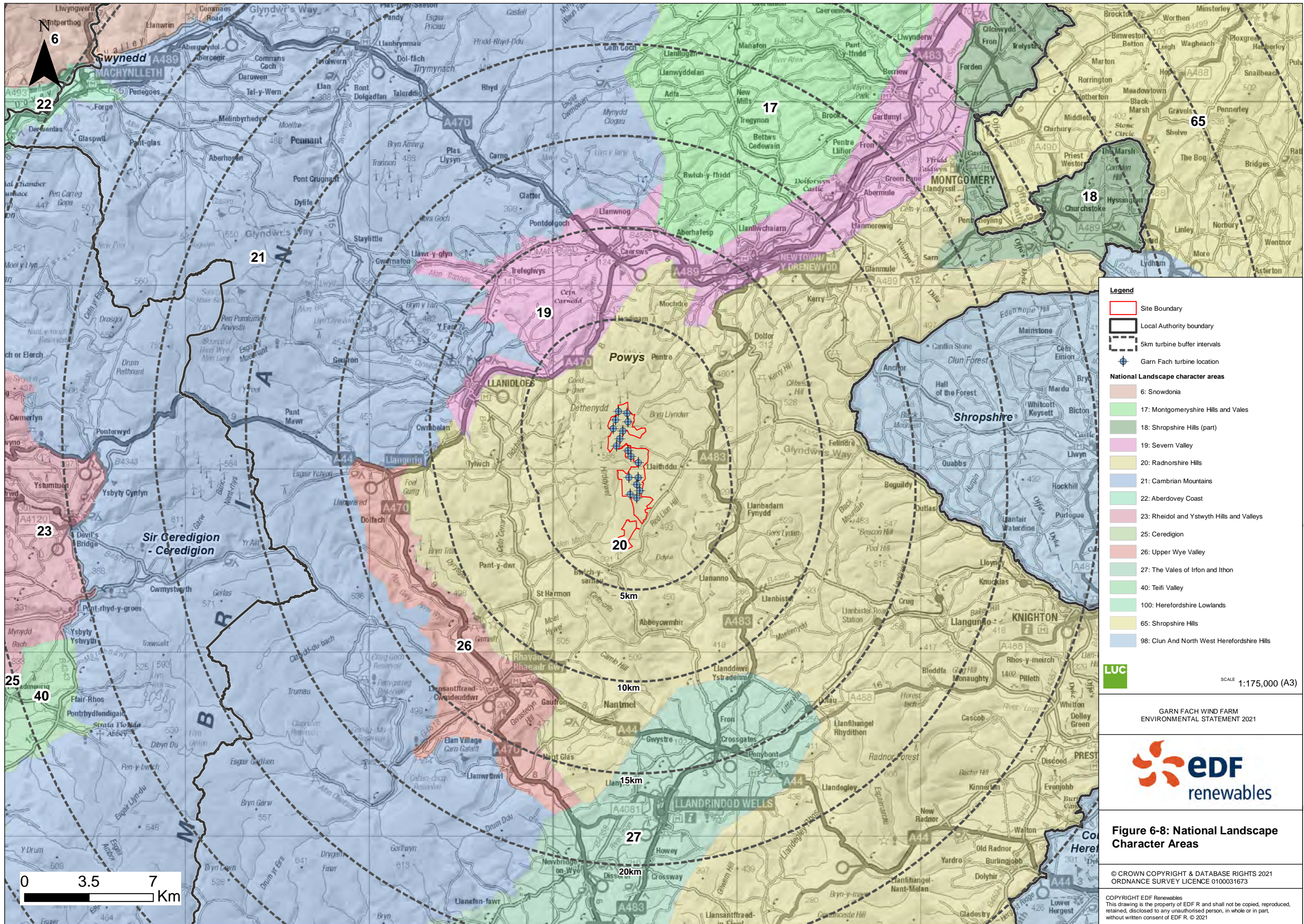


**Figure 6-7: Site Topography**



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**Legend**

- Site Boundary
- Local Authority boundary
- 5km turbine buffer intervals
- Garn Fach turbine location

**National Landscape character areas**

- 6: Snowdonia
- 17: Montgomeryshire Hills and Vales
- 18: Shropshire Hills (part)
- 19: Severn Valley
- 20: Radnorshire Hills
- 21: Cambrian Mountains
- 22: Aberdovey Coast
- 23: Rheidol and Ystwyth Hills and Valleys
- 25: Ceredigion
- 26: Upper Wye Valley
- 27: The Vales of Irfon and Ithon
- 40: Teifi Valley
- 100: Herefordshire Lowlands
- 65: Shropshire Hills
- 98: Clun And North West Herefordshire Hills

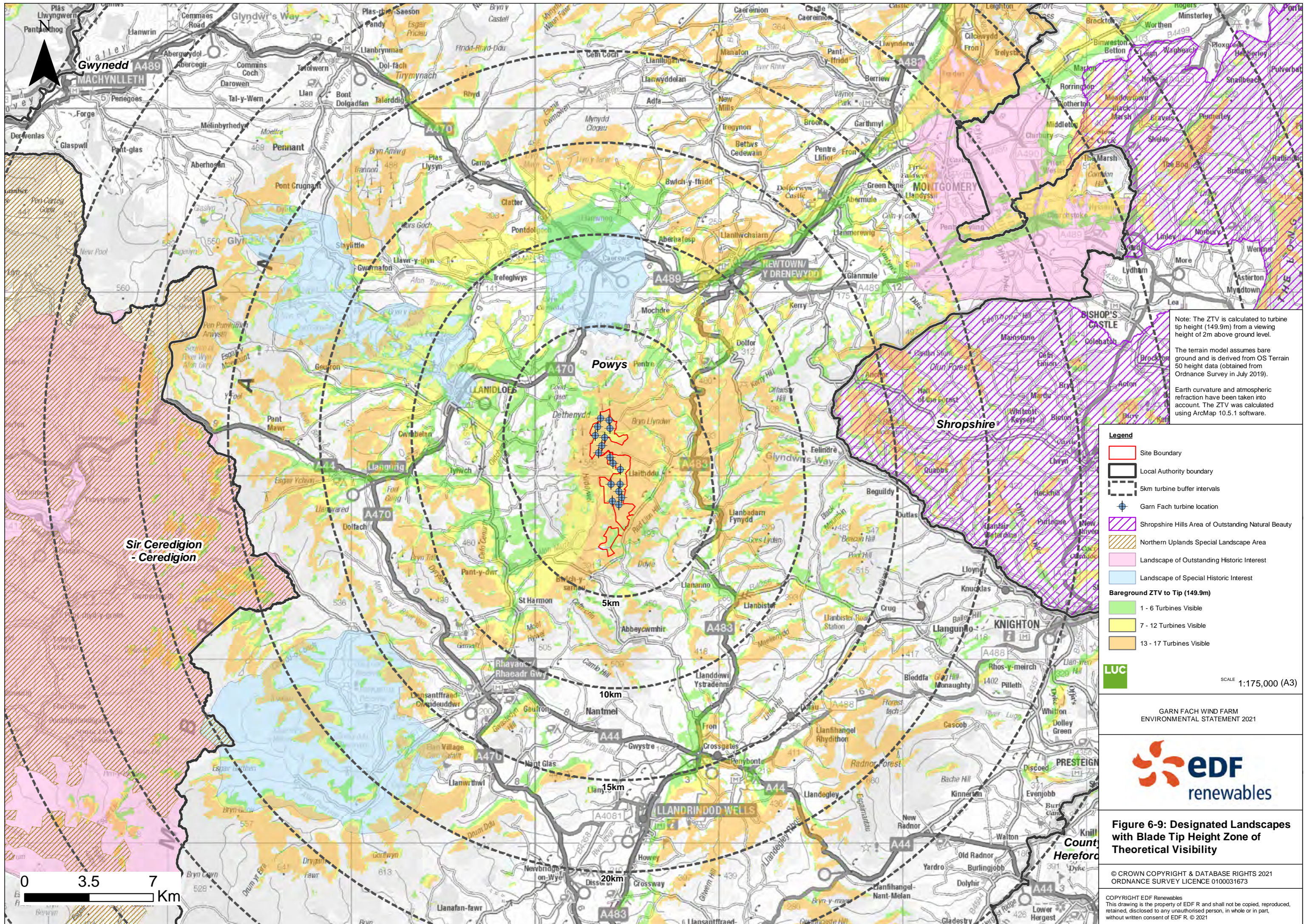
**LUC** SCALE 1:175,000 (A3)

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**Figure 6-8: National Landscape Character Areas**

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Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

