

Legend

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

Wind energy developments (by status)

Operational

- 2: Bailey Bog
- 3: Esgairdraenllwyn
- 4: Dugwm Farm
- 5: Bryn Cwmhiewdre
- 6: Brynddu
- 7: Garth Fawr

Consented

- 24: Llandinam Repowering
- 25: Ddudley Bank

Theoretical wind energy development visibility

- Only the group within 5km is visible
- Only Garn Fach is visible
- Both Garn Fach and the group within 5km are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

Note: The CZTV is calculated using ZTVs for each operational wind farm within 5km of the Garn Fach windfarms. 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.

GARN FACH WIND FARM
ENVIRONMENTAL STATEMENT 2021


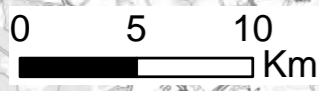
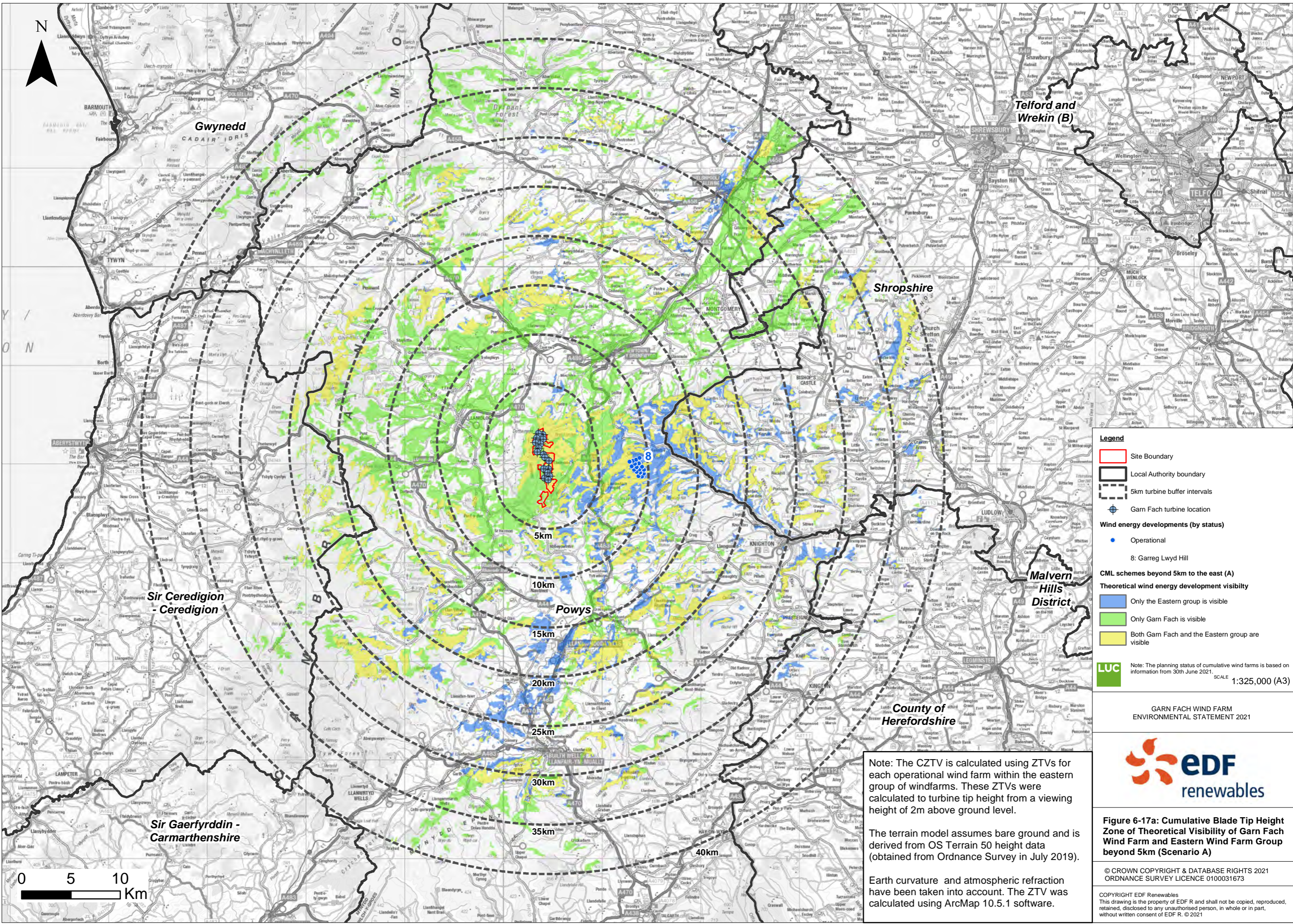


Figure 6-16: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Wind Farm Group within 5km (Scenario A)

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Legend

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

Wind energy developments (by status)

- Operational
- 8 Garreg Lwyd Hill

CML schemes beyond 5km to the east (A)

Theoretical wind energy development visibility

- Only the Eastern group is visible
- Only Garn Fach is visible
- Both Garn Fach and the Eastern group are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

Note: The CZTV is calculated using ZTVs for each operational wind farm within the eastern group of windfarms. 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.

GARN FACH WIND FARM
ENVIRONMENTAL STATEMENT 2021


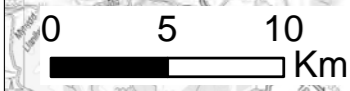
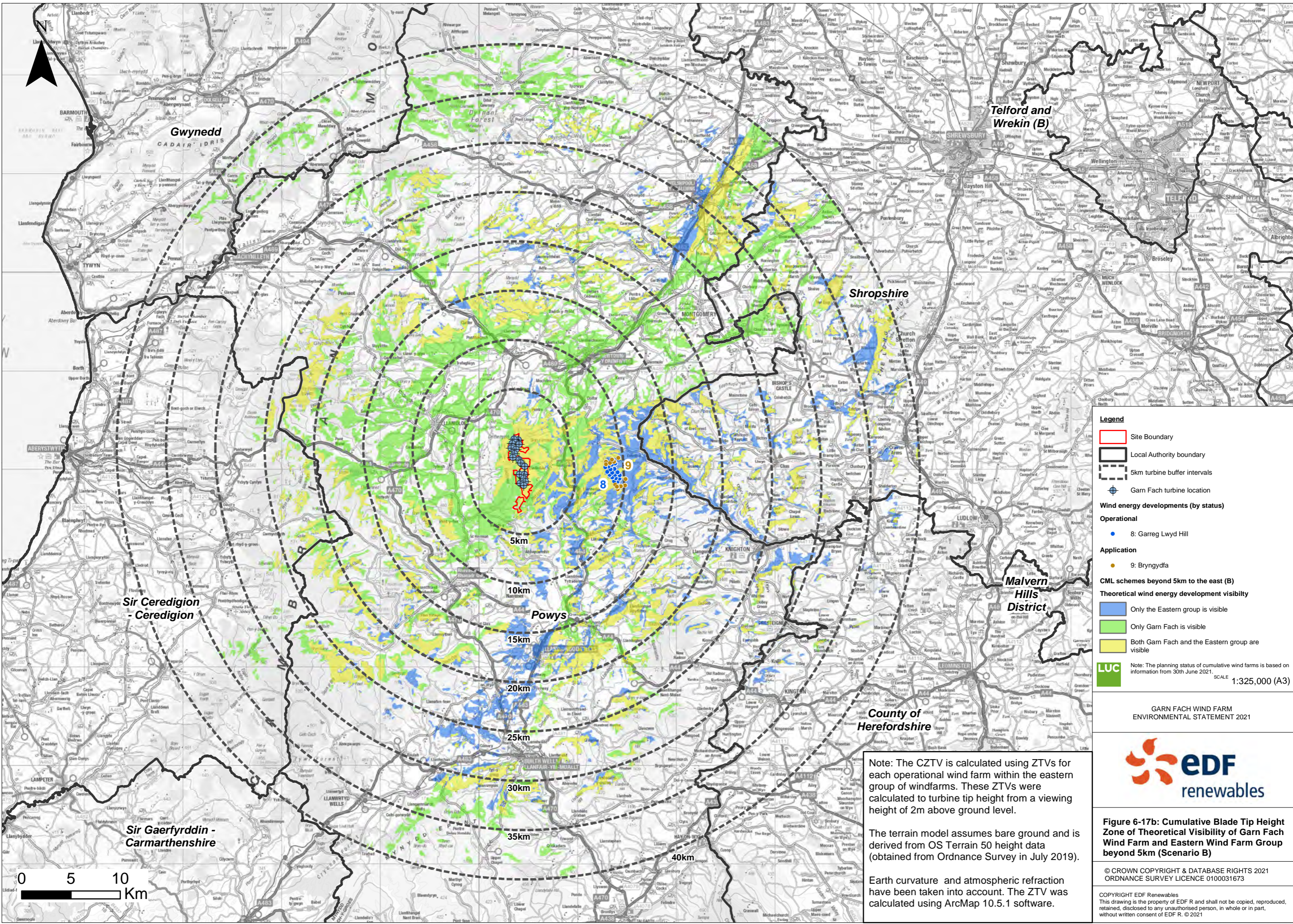


Figure 6-17a: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Eastern Wind Farm Group beyond 5km (Scenario A)

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Legend

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

Wind energy developments (by status)

Operational

- 8: Garreg Lwyd Hill

Application

- 9: Bryngydfa

CML schemes beyond 5km to the east (B)

Theoretical wind energy development visibility

- Only the Eastern group is visible
- Only Garn Fach is visible
- Both Garn Fach and the Eastern group are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

GARN FACH WIND FARM ENVIRONMENTAL STATEMENT 2021



Figure 6-17b: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Eastern Wind Farm Group beyond 5km (Scenario B)

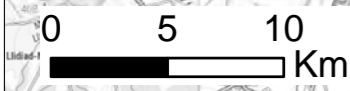
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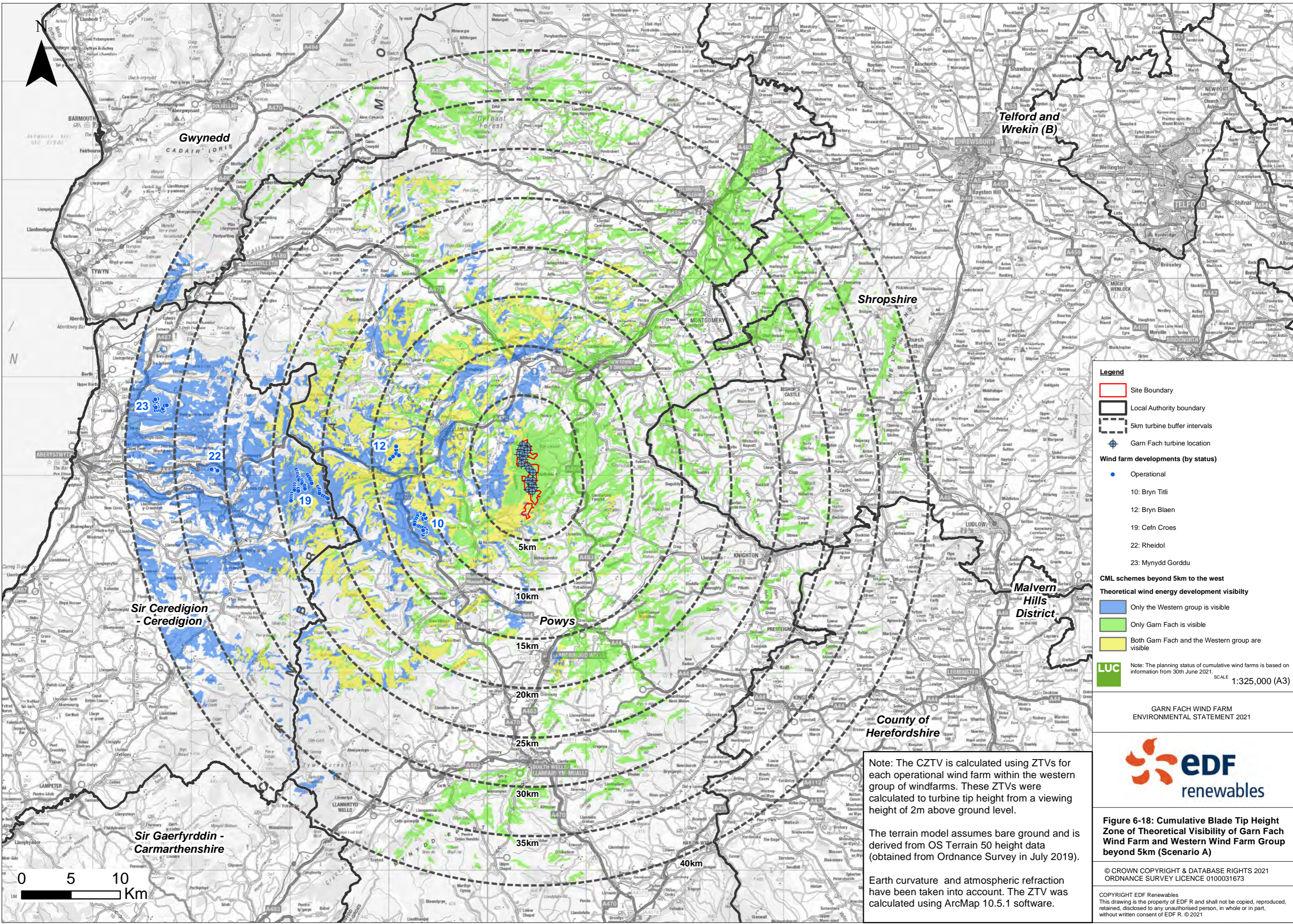
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Note: The CZTV is calculated using ZTVs for each operational wind farm within the eastern group of windfarms. These ZTVs were calculated to turbine tip height from a viewing height of 2m above ground level.

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
- 10: Bryn Tili
- 12: Bryn Blaen
- 19: Cefn Croes
- 22: Rheidol
- 23: Mynydd Gorddu

CML schemes beyond 5km to the west

Theoretical wind energy development visibility

- Only the Western group is visible
- Only Garn Fach is visible
- Both Garn Fach and the Western group are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

GARN FACH WIND FARM ENVIRONMENTAL STATEMENT 2021

Note: The CZTV is calculated using ZTVs for each operational wind farm within the western group of windfarms. 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).

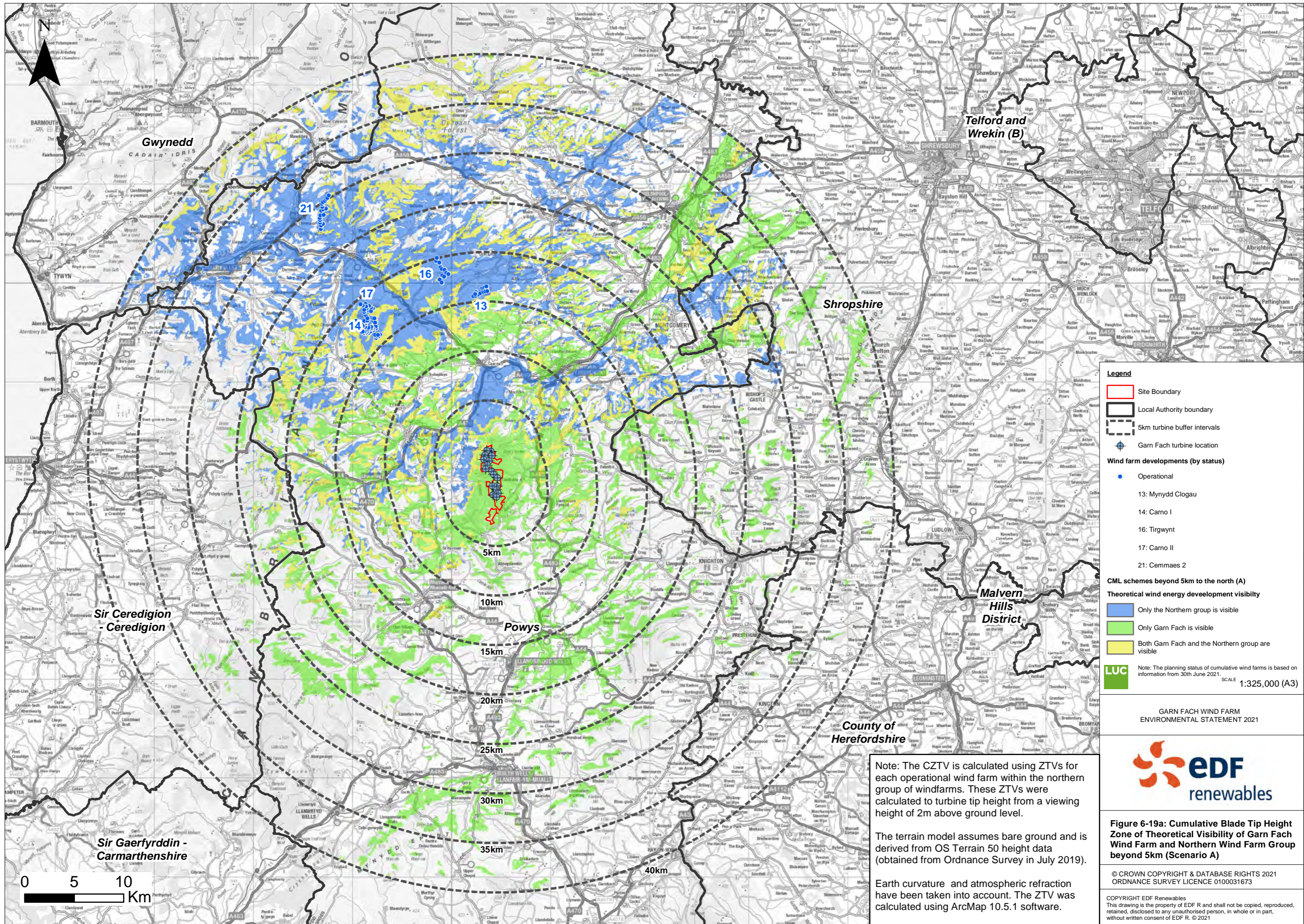
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

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Figure 6-18: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Western Wind Farm Group beyond 5km (Scenario A)

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Legend

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

Wind farm developments (by status)

- Operational
- 13: Mynydd Clogau
- 14: Carno I
- 16: Tirgwynt
- 17: Carno II
- 21: Cemmaes 2

CML schemes beyond 5km to the north (A)

Theoretical wind energy development visibility

- Only the Northern group is visible
- Only Garn Fach is visible
- Both Garn Fach and the Northern group are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

Note: The CZTV is calculated using ZTVs for each operational wind farm within the northern group of windfarms. 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.

GARN FACH WIND FARM
ENVIRONMENTAL STATEMENT 2021


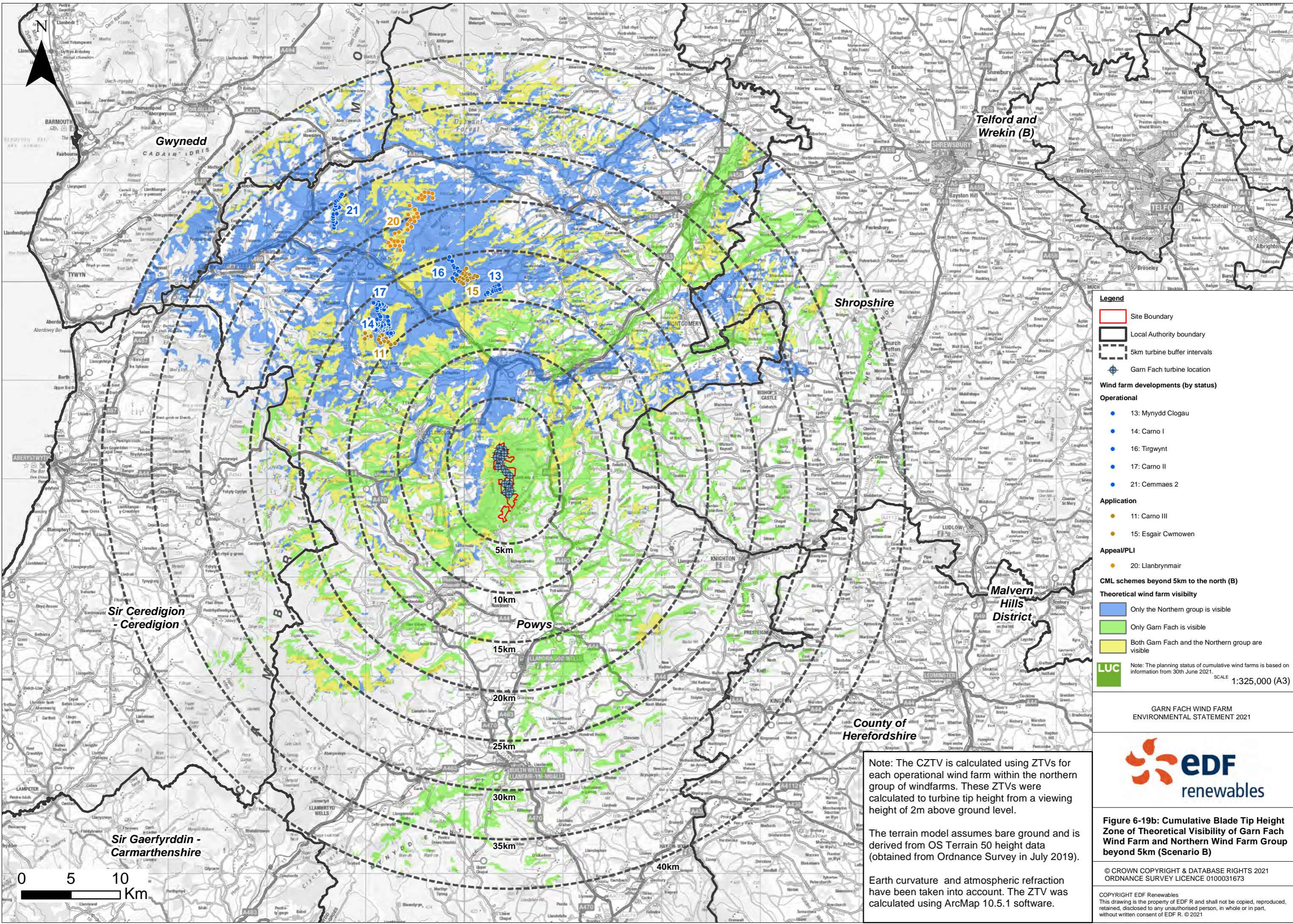


Figure 6-19a: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Northern Wind Farm Group beyond 5km (Scenario A)

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Legend

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

Wind farm developments (by status)

Operational

- 13: Mynydd Clogau
- 14: Carno I
- 16: Tirgwynt
- 17: Carno II
- 21: Cemmaes 2

Application

- 11: Carno III
- 15: Esgair Cwmowen

Appeal/PLI

- 20: Llanbrynmar

CML schemes beyond 5km to the north (B)

Theoretical wind farm visibility

- Only the Northern group is visible
- Only Garn Fach is visible
- Both Garn Fach and the Northern group are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

Note: The CZTV is calculated using ZTVs for each operational wind farm within the northern group of windfarms. 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).

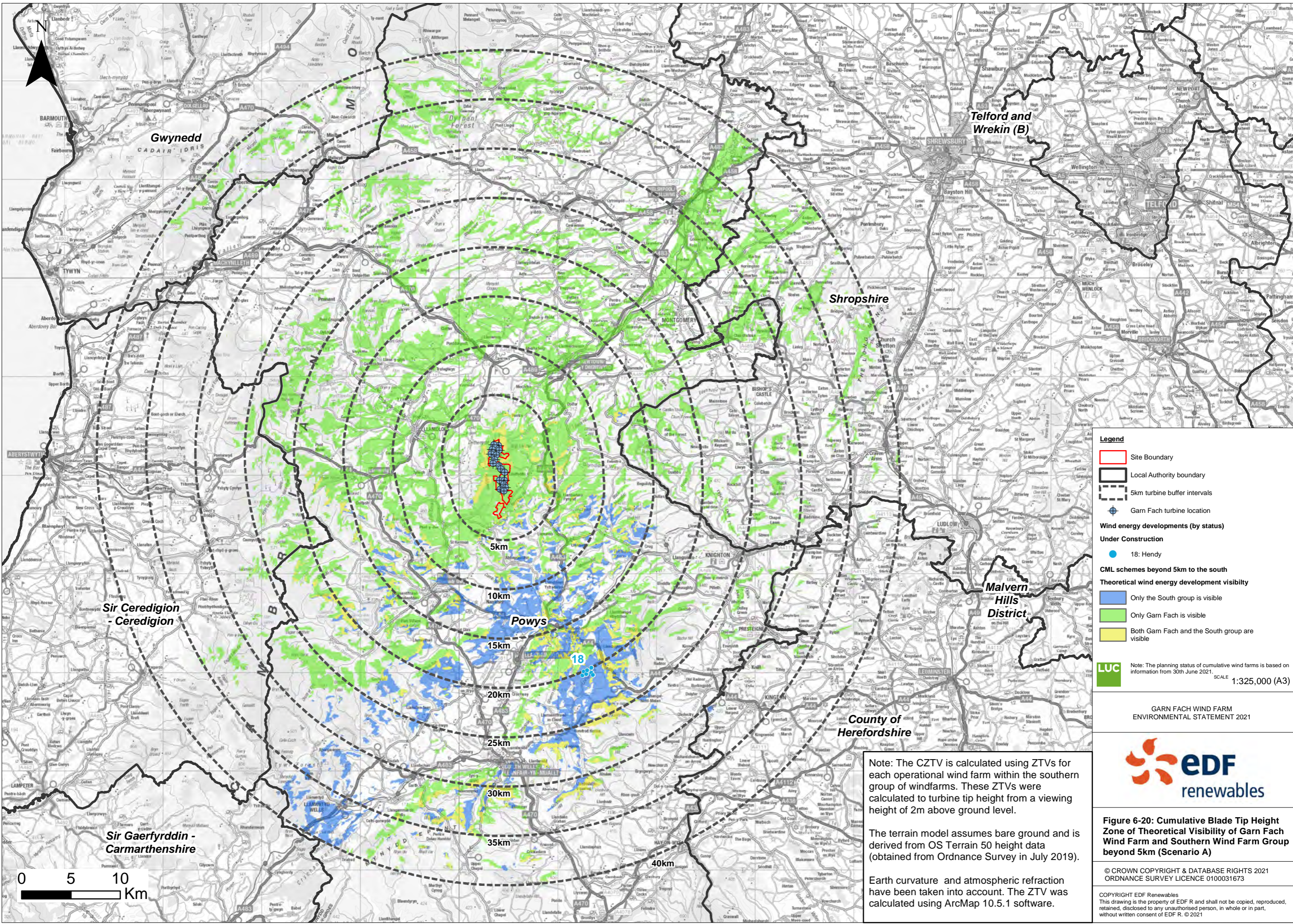
Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



Figure 6-19b: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Northern Wind Farm Group beyond 5km (Scenario B)

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Legend

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

Wind energy developments (by status)

- Under Construction
- 18: Hendy

CML schemes beyond 5km to the south

Theoretical wind energy development visibility

- Only the South group is visible
- Only Garn Fach is visible
- Both Garn Fach and the South group are visible

LUC Note: The planning status of cumulative wind farms is based on information from 30th June 2021. SCALE 1:325,000 (A3)

GARN FACH WIND FARM ENVIRONMENTAL STATEMENT 2021



Figure 6-20: Cumulative Blade Tip Height Zone of Theoretical Visibility of Garn Fach Wind Farm and Southern Wind Farm Group beyond 5km (Scenario A)

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Note: The CZTV is calculated using ZTVs for each operational wind farm within the southern group of windfarms. 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.