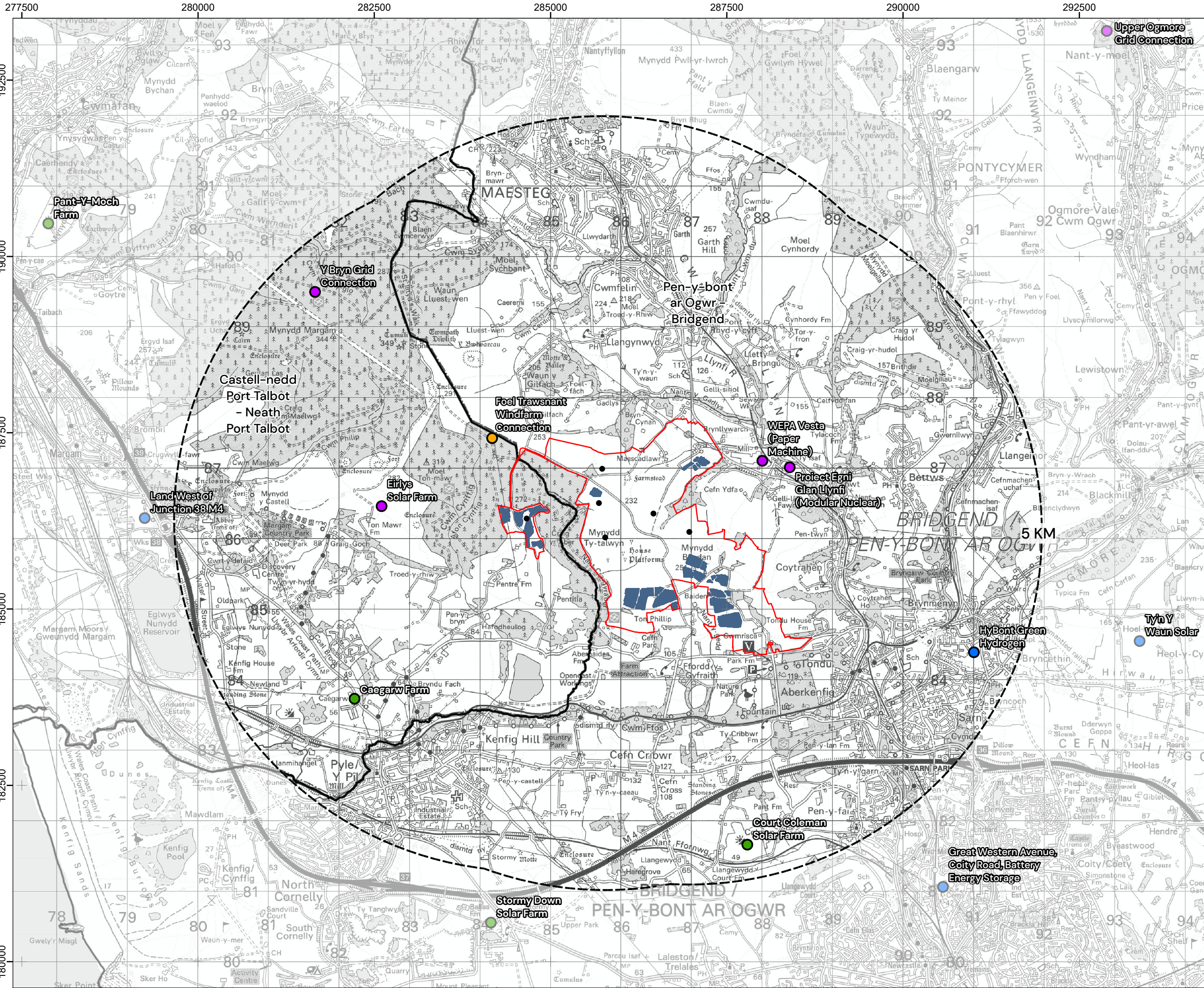




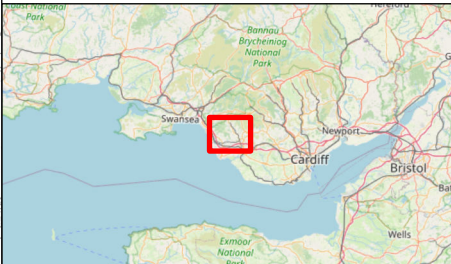
Legend:

- Site Boundary
- Proposed Turbines
- 5km Study Area
- Local Authority Boundary
- Proposed Solar Development

Cumulative Sites (Status)

- Operational
- Consented
- In Planning
- Scoping

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



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Mynydd Ty-talwyn Energy Park

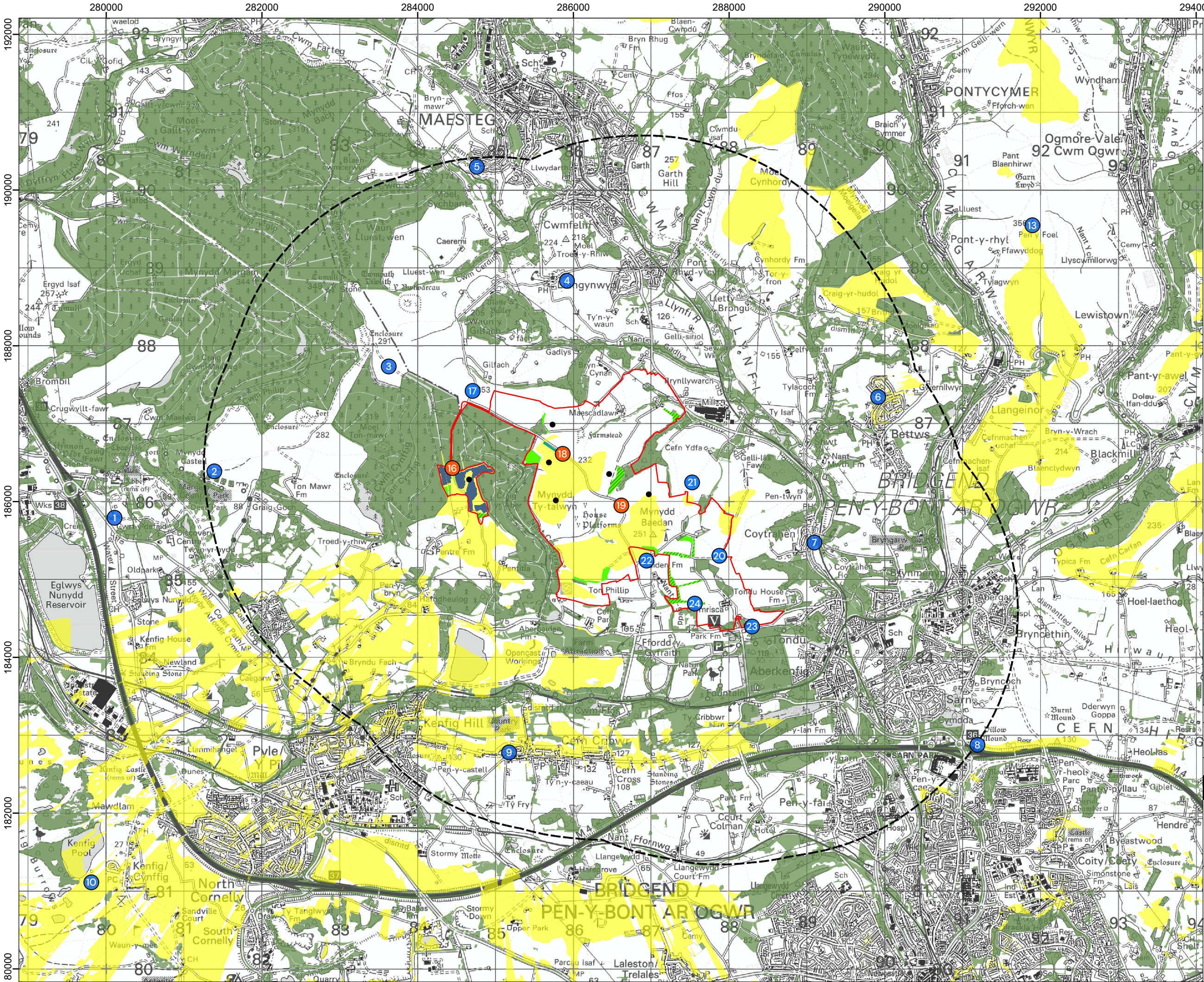


TITLE:
Figure 8.35: Other non-Wind Cumulative Development within 5km

012KilometresSCALE: 1:50,000 @ A3

NWSE

REV 01



Legend:

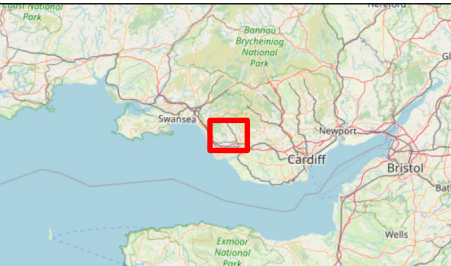
- Site Boundary
- Proposed Turbines
- 3km Study Area
- OS Local Buildings
- OS Local Woodland
- Photomontage Viewpoint
- LVIA Viewpoint
- Proposed Woodland Mix A - 8m Height at Year 15
- Proposed Woodland Mix B - 9.5m Height at Year 15
- Proposed Hedgerow
- Proposed Solar Development - 3m Development Height
- Screened Zone of Theoretical Visibility

Screened ZTV Production Information -
- DTM data used in calculations is OS Terrain 5 that has been combined with OS Open Map Local data for woodland and buildings to create a Digital Surface Model (DSM).

- Indicative woodland and building heights are modelled at 15m and 8m respectively.
- Viewer height set at 2m (in accordance with para 6.11 of GLVIA Third Edition)
- Calculations include earth curvature and light refraction

N.B. This Zone of Theoretical Visibility (ZTV) image illustrates the theoretical extent of where the proposed development may be visible from, assuming 100% atmospheric visibility, and includes the screening effect from woodland and buildings, based on the assumptions stated above.

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

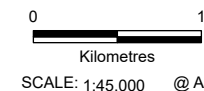


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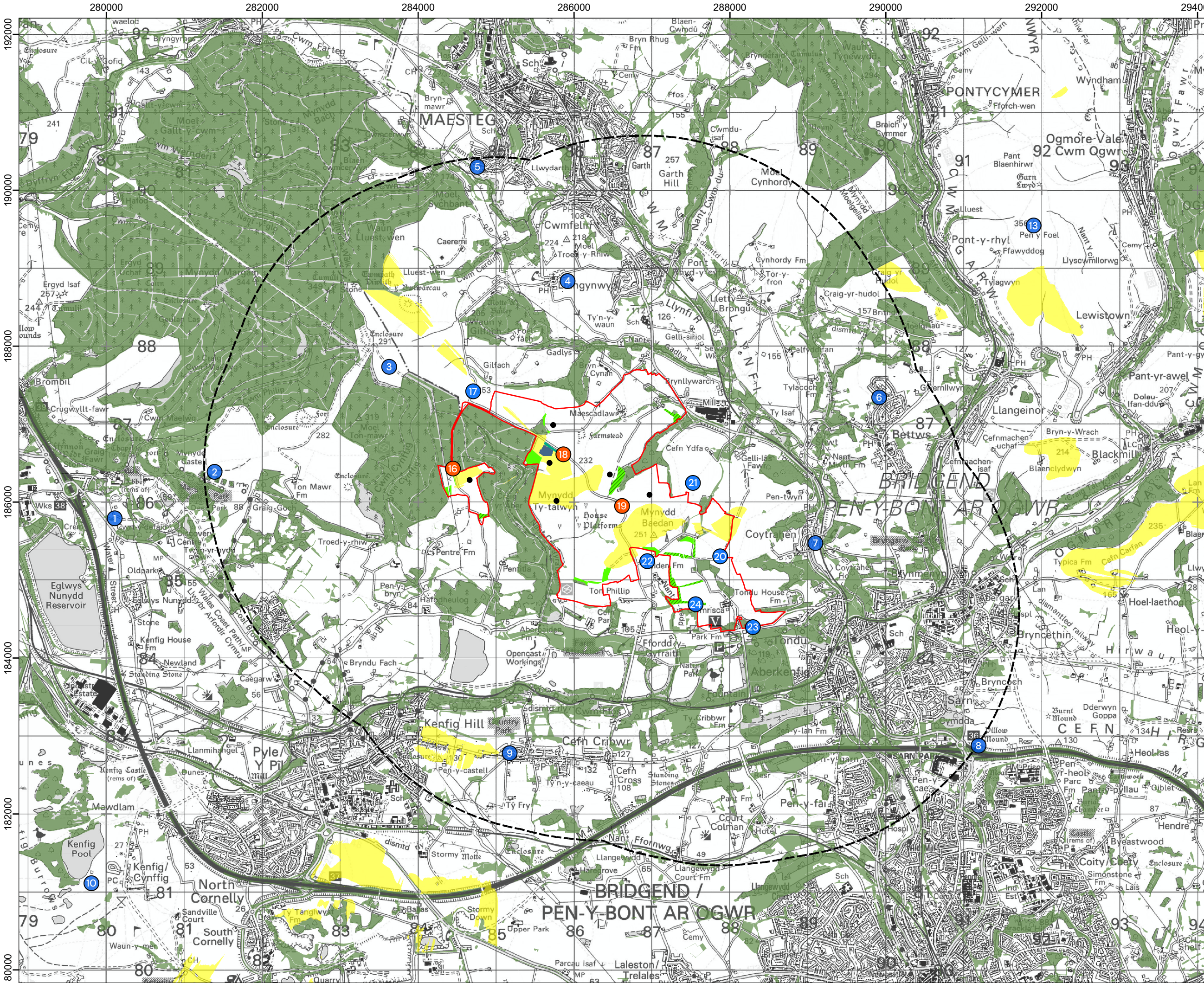
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TITLE:
Figure 8.36a: Screened ZTV Solar - Parcel Area 1



REV 02



Legend:

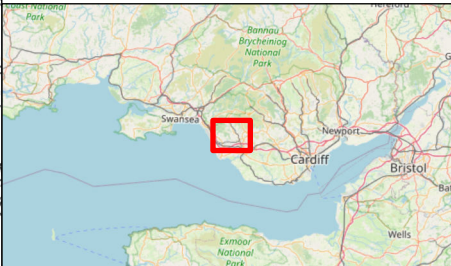
- Site Boundary
- Proposed Turbines
- 3km Study Area
- OS Local Buildings
- OS Local Woodland
- Photomontage Viewpoint
- LVIA Viewpoint
- Proposed Woodland Mix A - 8m Height at Year 15
- Proposed Woodland Mix B - 9.5m Height at Year 15
- Proposed Hedgerow
- Proposed Solar Development - 3m Development Height
- Screened Zone of Theoretical Visibility

Screened ZTV Production Information -
- DTM data used in calculations is OS Terrain 5 that has been combined with OS Open Map Local data for woodland and buildings to create a Digital Surface Model (DSM).

- Indicative woodland and building heights are modelled at 15m and 8m respectively.
- Viewer height set at 2m (in accordance with para 6.11 of GLVIA Third Edition)
- Calculations include earth curvature and light refraction

N.B. This Zone of Theoretical Visibility (ZTV) image illustrates the theoretical extent of where the proposed development may be visible from, assuming 100% atmospheric visibility, and includes the screening effect from woodland and buildings, based on the assumptions stated above.

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

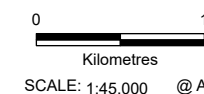


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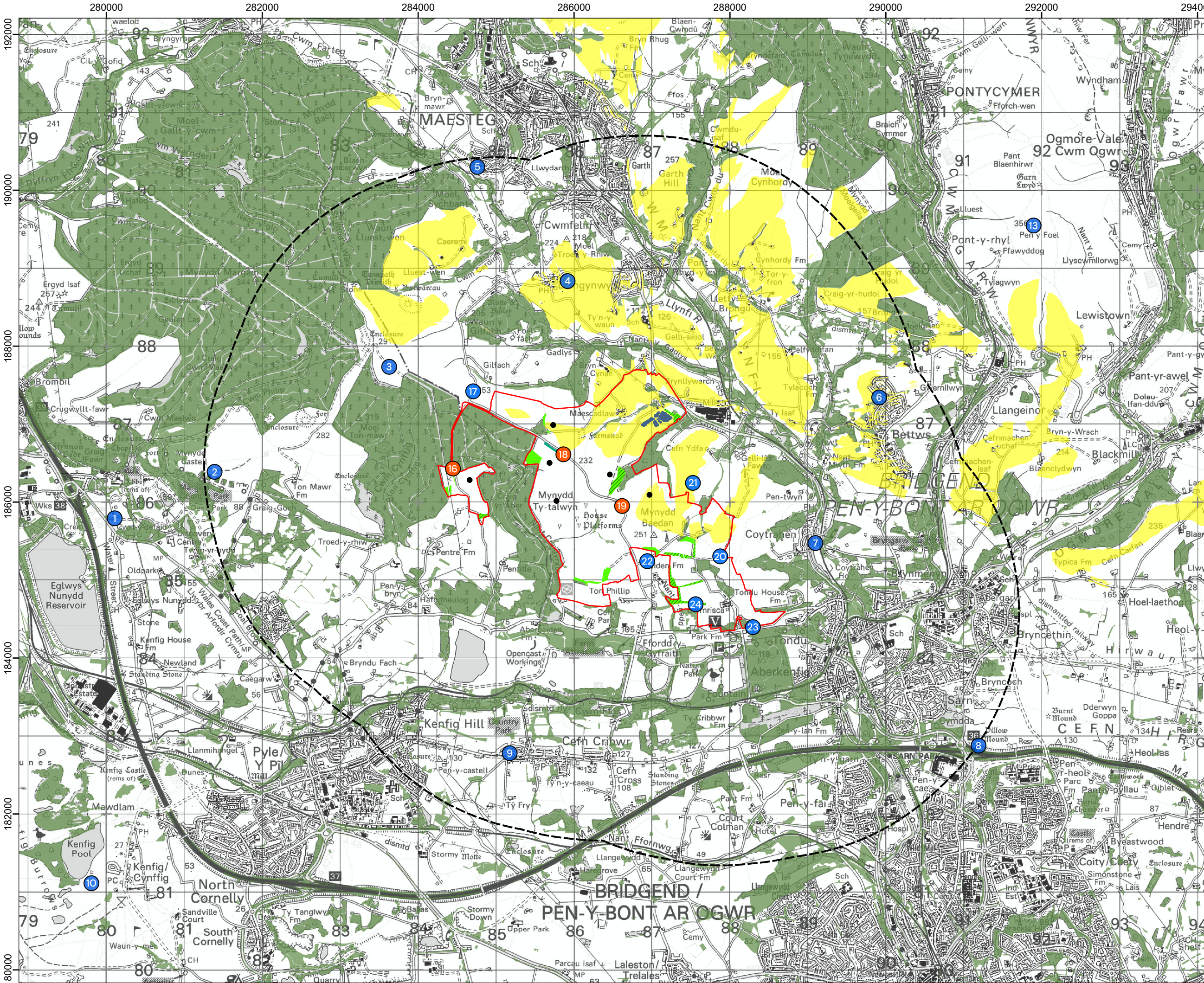
Mynydd Ty-talwyn Energy Park



TITLE:
Figure 8.36b: Screened ZTV Solar - Parcel Area 2



REV 02



Legend:

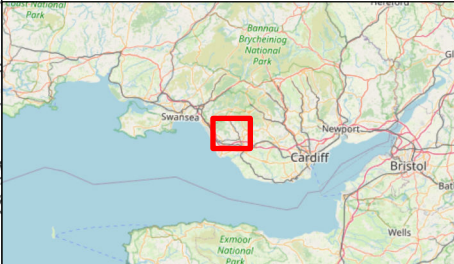
- Site Boundary
- Proposed Turbines
- 3km Study Area
- OS Local Buildings
- OS Local Woodland
- Photomontage Viewpoint
- LVIA Viewpoint
- Proposed Woodland Mix A - 8m Height at Year 15
- Proposed Woodland Mix B - 9.5m Height at Year 15
- Proposed Hedgerow
- Proposed Solar Development - 3m Development Height
- Screened Zone of Theoretical Visibility

Screened ZTV Production Information -
- DTM data used in calculations is OS Terrain 5 that has been combined with OS Open Map Local data for woodland and buildings to create a Digital Surface Model (DSM).

- Indicative woodland and building heights are modelled at 15m and 8m respectively.
- Viewer height set at 2m (in accordance with para 6.11 of GLVIA Third Edition)
- Calculations include earth curvature and light refraction

N.B. This Zone of Theoretical Visibility (ZTV) image illustrates the theoretical extent of where the proposed development may be visible from, assuming 100% atmospheric visibility, and includes the screening effect from woodland and buildings, based on the assumptions stated above.

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

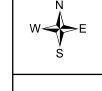
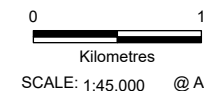


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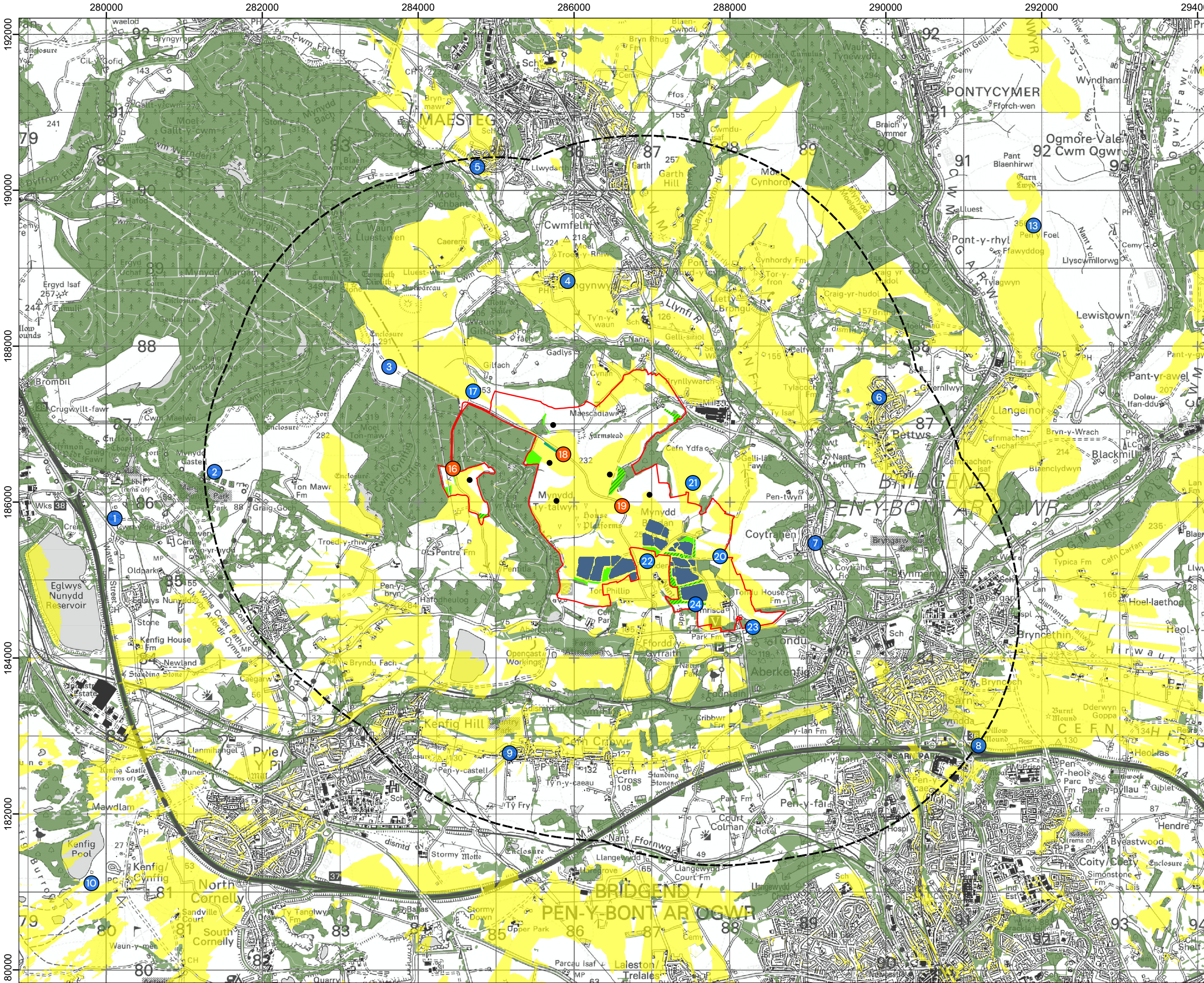
Mynydd Ty-talwyn Energy Park



TITLE:
Figure 8.36c: Screened ZTV Solar - Parcel Area 3



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Legend:

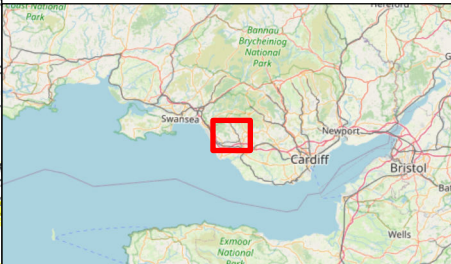
- Site Boundary
- Proposed Turbines
- 3km Study Area
- OS Local Buildings
- OS Local Woodland
- Photomontage Viewpoint
- LVIA Viewpoint
- Proposed Woodland Mix A - 8m Height at Year 15
- Proposed Woodland Mix B - 9.5m Height at Year 15
- Proposed Hedgerow
- Proposed Solar Development - 3m Development Height
- Screened Zone of Theoretical Visibility

Screened ZTV Production Information -
- DTM data used in calculations is OS Terrain 5 that has been combined with OS Open Map Local data for woodland and buildings to create a Digital Surface Model (DSM).

- Indicative woodland and building heights are modelled at 15m and 8m respectively.
- Viewer height set at 2m (in accordance with para 6.11 of GLVIA Third Edition)
- Calculations include earth curvature and light refraction

N.B. This Zone of Theoretical Visibility (ZTV) image illustrates the theoretical extent of where the proposed development may be visible from, assuming 100% atmospheric visibility, and includes the screening effect from woodland and buildings, based on the assumptions stated above.

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

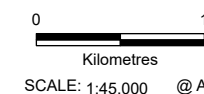


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00	18/11/2025	First Draft	AA	AA	AA

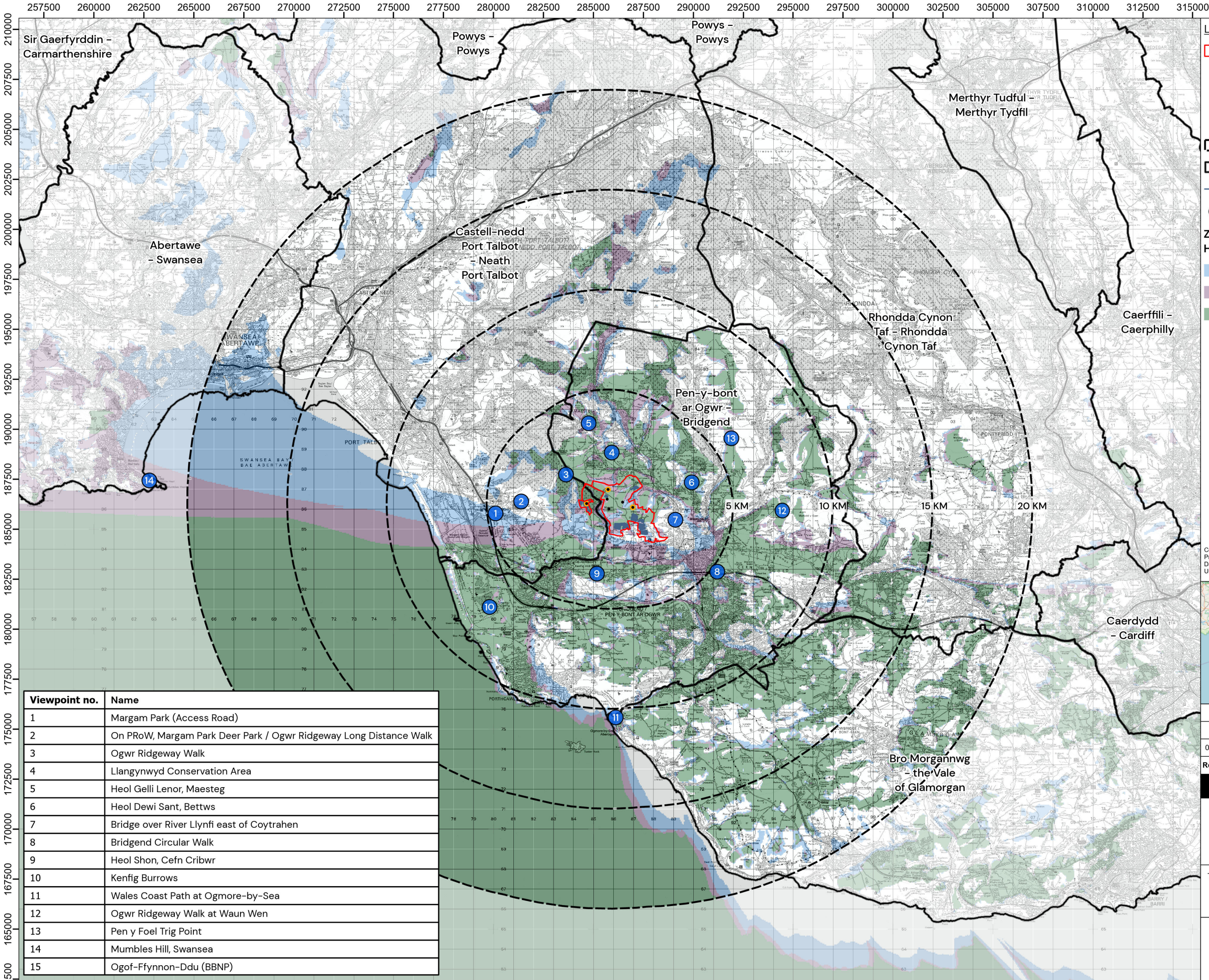
Mynydd Ty-talwyn Energy Park



TITLE:
Figure 8.36d: Screened ZTV Solar - Parcel Area 4



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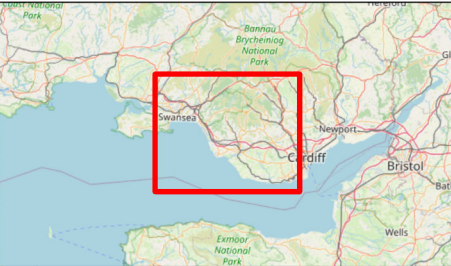
Legend:

- Site Boundary
- Proposed Turbine fitted with steady red aviation light
- Proposed Turbines (no aviation light)
- 20km Study Area
- Local Authority Boundary
- Proposed Solar Development
- LVIA Viewpoint

Zone of Theoretical Visibility - Hub Height (122.5m)

- 1 Turbine Visible
- 2 Turbine Visible
- 3 Turbine Visible

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



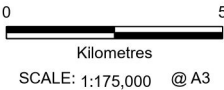
Viewpoint no.	Name
1	Margam Park (Access Road)
2	On PRoW, Margam Park Deer Park / Ogwr Ridgeway Long Distance Walk
3	Ogwr Ridgeway Walk
4	Llangynwyd Conservation Area
5	Heol Gelli Lenor, Maesteg
6	Heol Dewi Sant, Bettws
7	Bridge over River Llynfi east of Coytrahen
8	Bridgend Circular Walk
9	Heol Shon, Cefn Cribwr
10	Kenfig Burrows
11	Wales Coast Path at Ogmere-by-Sea
12	Ogwr Ridgeway Walk at Waun Wen
13	Pen y Foel Trig Point
14	Mumbles Hill, Swansea
15	Ogof-Ffynnon-Ddu (BBNP)

00	30/10/2025	First Draft	AA	AA	AA
Rev	Date	Description	Drn	Chk	App

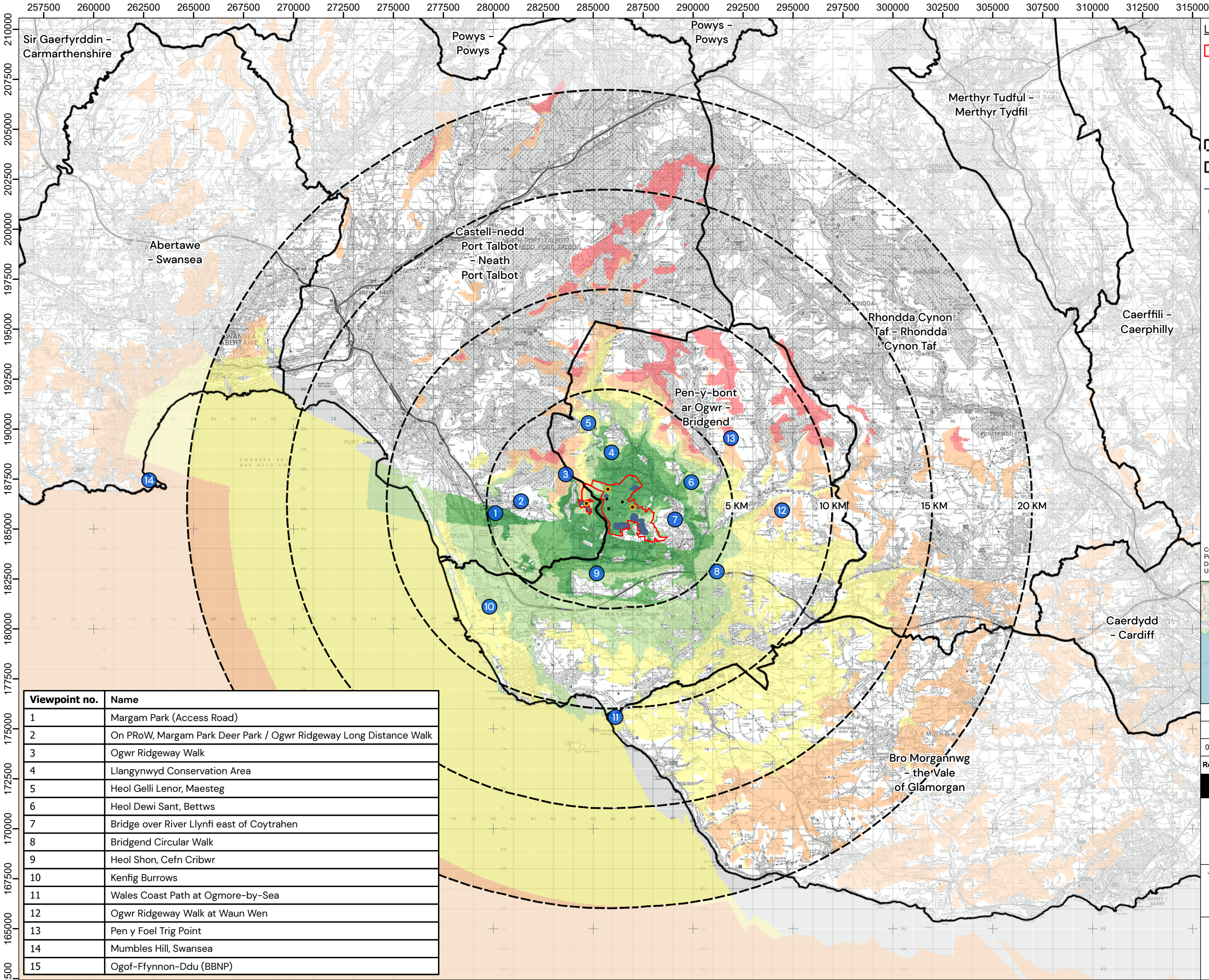
Mynydd Ty-talwyn Energy Park



TITLE:
Figure 8.37: Hub Height ZTV for Lit
Turbines T1, T5 and T6 to 20 km with
Viewpoints



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Legend:

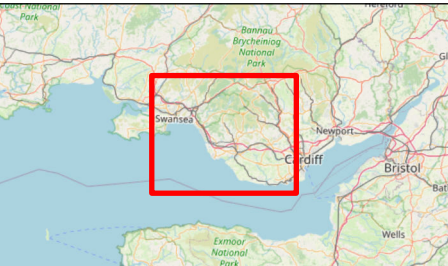
- Site Boundary
- Proposed Turbine fitted with steady red aviation light
- Proposed Turbines (no aviation light)
- 20km Study Area
- Local Authority Boundary
- Proposed Solar Development
- LVIA Viewpoint

Turbines T1, T5, T6 to be fitted with visible medium intensity steady state red aviation light

**INTENSITY OF TURBINE LIGHT
SHOWN IN CANDELA (CD)**

VERTICAL ANGLE	2000 CD LIGHT	200 CD LIGHT
3° TO 0°	UP TO 2500 CD	UP TO 250 CD
0° TO -1°	2185 CD TO 982 CD	218 CD TO 98 CD
-1° TO -2°	982 CD TO 413 CD	98 CD TO 41 CD
-2° TO -3°	413 CD TO 217 CD	41 CD TO 21 CD
-3° TO -4°	217 CD TO 172 CD	21 CD TO 17 CD
BELOW -4°	BELOW 172 CD	BELOW 17 CD

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



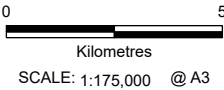
Viewpoint no.	Name
1	Margam Park (Access Road)
2	On PRoW, Margam Park Deer Park / Ogwr Ridgeway Long Distance Walk
3	Ogwr Ridgeway Walk
4	Llangynwyd Conservation Area
5	Heol Gelli Lenor, Maesteg
6	Heol Dewi Sant, Bettws
7	Bridge over River Llynfi east of Coytrahen
8	Bridgend Circular Walk
9	Heol Shon, Cefn Cribwr
10	Kenfig Burrows
11	Wales Coast Path at Ogmore-by-Sea
12	Ogwr Ridgeway Walk at Waun Wen
13	Pen y Foel Trig Point
14	Mumbles Hill, Swansea
15	Ogof-Ffynnon-Ddu (BBNP)

00	30/10/2025	First Draft	AA	AA	AA
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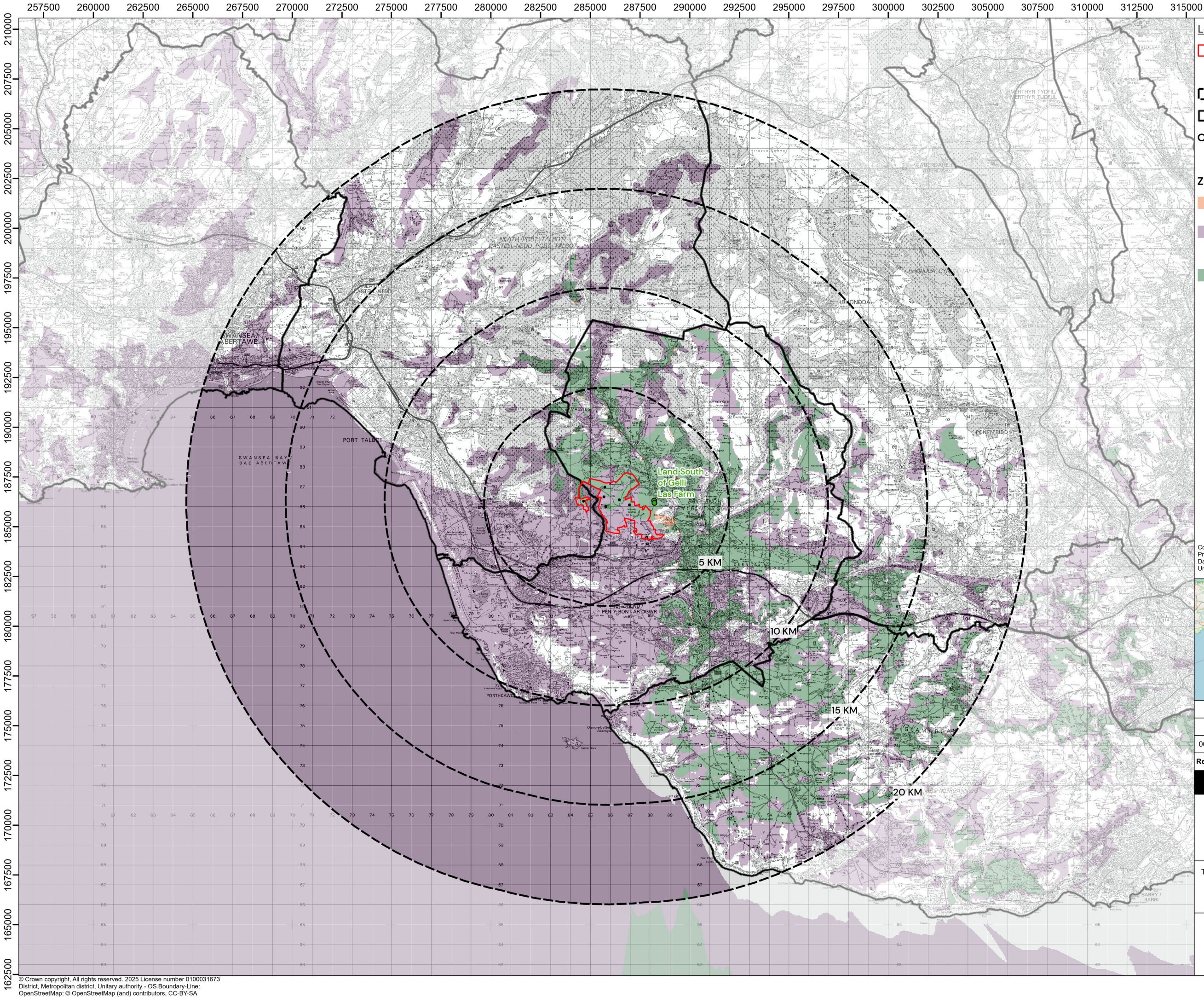
Mynydd Ty-talwyn Energy Park



TITLE:
Figure 8.38: Lighting Intensity ZTV for Lit Turbines T1, T5 and T6 to 20km with Viewpoints



REV 01



Legend:

- Site Boundary
- Proposed Turbines
- 20km Study Area
- Local Authority Boundary

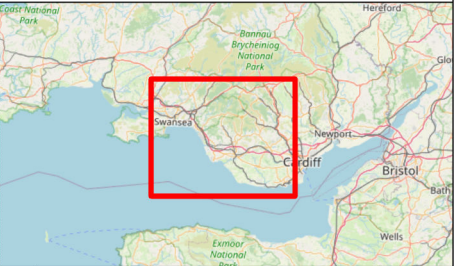
Other Wind Farms (Status)

- Operational

Zone of Theoretical Visibility

- Gelli Las Farm Visible Only
- Mynydd Ty-talwyn Energy Park Visible Only
- Combined Visibility of Gelli Las Farm and Mynydd Ty-talwyn Energy Park

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

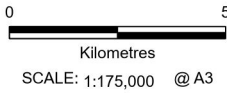


00	18/11/2025	First Draft	AA	AA	AA
Rev	Date	Description	Drn	Chk	App

Mynydd Ty-talwyn Energy Park



TITLE:
Figure 8.39: Cumulative ZTV with operational Gelli Las Farm



REV 01