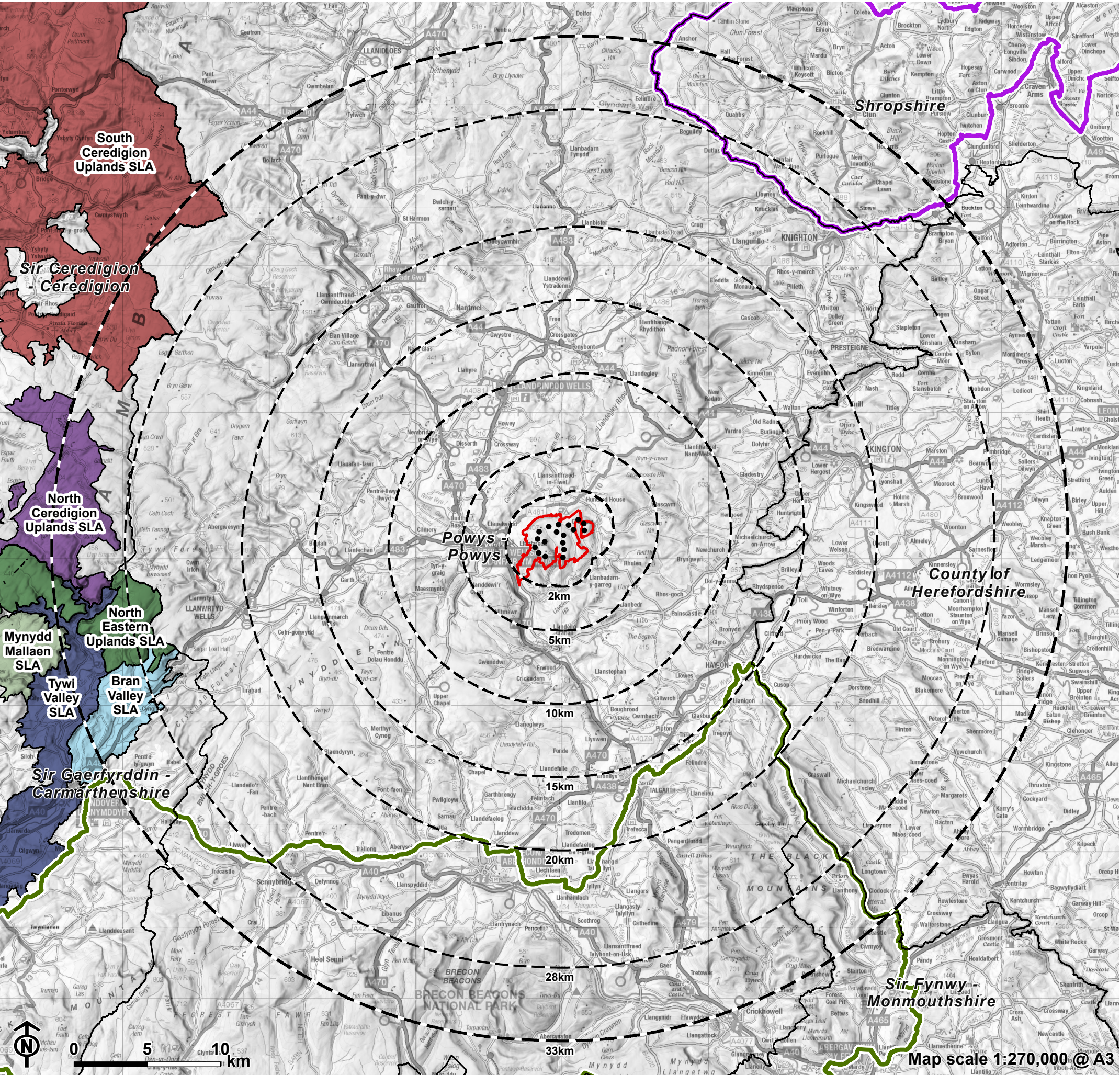


Figure 4.1: Search Area and Designated Landscapes



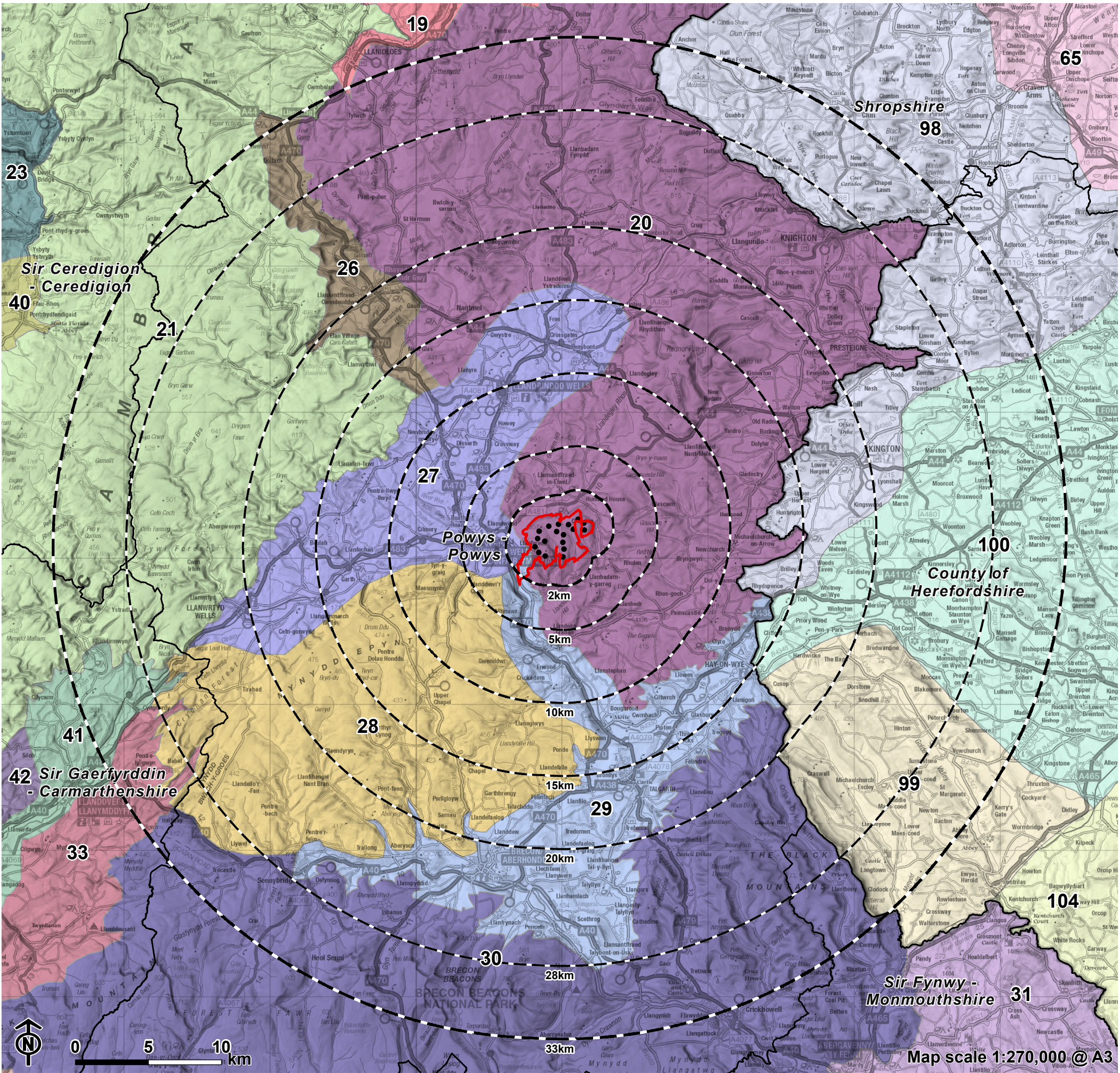
- Site boundary
- Turbine
- Buffer intervals from the turbine layout
- 33km from outermost turbine
- Local authority boundary
- Bannau Brycheiniog National Park and International Dark Sky Reserve
- Shropshire Hills National Landscape
- Special Landscape Area (SLA)**
 - Bran Valley SLA
 - Mynydd Mallaen SLA
 - Tywi Valley SLA
 - North Eastern Uplands SLA
 - South Ceredigion Uplands SLA
 - North Ceredigion Uplands SLA

Additional Attributes
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Figure 4.2: Scoping Turbine Layout



Figure 4.3: National Landscape Character Areas



Site boundary

Turbine

Buffer intervals from the turbine layout

33km from outermost turbine

Local authority boundary

National Landscape Character Areas

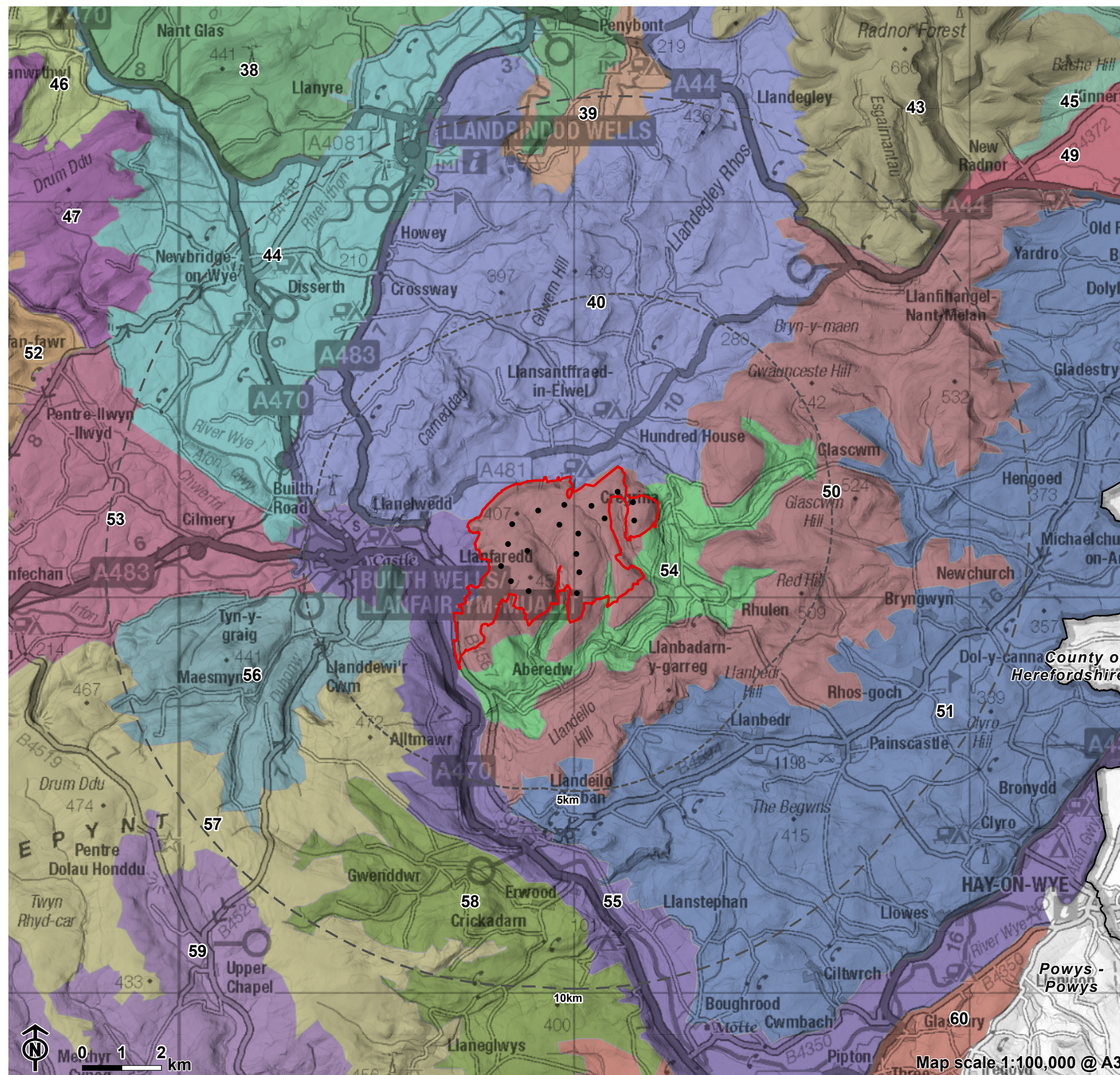
Wales

- 19: Dyffryn Hafren / Severn Valley
- 20: Bryniau Sir Faesyfed / Radnorshire Hills
- 21: Bryniau'r Canolbarth / Cambrian Mountains
- 23: Bryniau a dyffrynnoedd Rheidol ac Ystwyth / Rheidol and Ystwyth Hills and Valleys
- 26: Blaenau Gwy / Upper Wye Valley
- 27: Dyffrynnoedd Irfon ac Ieithon / The Vales of Irfon and Ithon
- 28: Epynt / Epynt
- 29: Dyffrynnoedd Gwy ac Wysg / Wye and Usk Vales
- 30: Bannau Brycheiniog a'r Mynyddoedd Du / Bannau Brycheiniog and Black Mountains
- 31: Canol Sir Fynwy / Central Monmouthshire
- 33: Cymoedd Gwendraeth / Gwendraeth Vales
- 37: Cymoedd y De / South Wales Valleys
- 40: Dyffryn Tefi / Teifi Valley
- 41: Dyffryn Tywi / Tywi Valley
- 42: Bryniau Dyfed / Pembroke and Carmarthen Foothills

England

- 65: Shropshire Hills
- 98: Clun and North West Herefordshire Hills
- 99: Black Mountains and Golden Valley
- 100: Herefordshire Lowlands
- 104: South Herefordshire and Over Severn

Figure 4.4: Local Landscape Character Areas (Powys) within 10km



- Site boundary
- Turbine
- 5km interval from outermost turbine
- 10km from outermost turbine
- Local authority boundary

Powys Landscape Character Assessment (2021)

- 38: Bryniau a Dyffrynnoedd Afon Dulas / River Dulas Hills & Valleys
- 39: Dyffryn Ieithon / Ithon Valley
- 40: Ucheldir Llanbister – Pen-y-bont / Llanbister - Penybont Uplands
- 43: Coedwig Maesyfed / Radnor Forest
- 44: Dyffryn Gwy (Rhaeadr i Lanfair-ym-Muallt) / Wye Valley (Rhayader to Builth Wells)
- 45: Llethrau Llanandras a Beggar's Bush / Presteigne & Beggar's Bush Hillsides
- 46: Dyffryn Dulas / Dulas Valley
- 47: Ucheldir Bryn Glas / Bryn Glas Uplands
- 49: Dyffryn Maesyfed / New Radnor Valley
- 50: Ucheldir Aberedw / Aberedw Uplands
- 51: Ucheldir Castell-paen / Painscastle Uplands
- 52: Cymoedd Deheuol Bryn Glas / Southern Bryn Glas Valleys
- 53: Dyffryn Irfon / Irfon Valley
- 54: Dyffryn Aberedw / Aberedw Valley
- 55: Dyffryn Gwy (Llanfair-ym-Muallt i'r Gelli Gandryll) / Wye Valley (Builth Wells to Hay-on-Wye)
- 56: Gogledd Mynydd Epynt / Northern Mynydd Epynt
- 57: Mynydd Epynt/SENTA / Mynydd Epynt/SENTA
- 58: Bryniau Dwyreiniol Mynydd Epynt / Eastern Mynydd Epynt Hills
- 59: Dyffrynnoedd Deheuol Mynydd Epynt / Southern Mynydd Epynt Valleys
- 60: Ffermdir Llanfilo/Bronllys / Llanfilo/Bronllys Farmlands

Map scale 1:100,000 @ A3

Figure 4.5: Bannau Brycheiniog National Park Landscape Character Areas within 28km

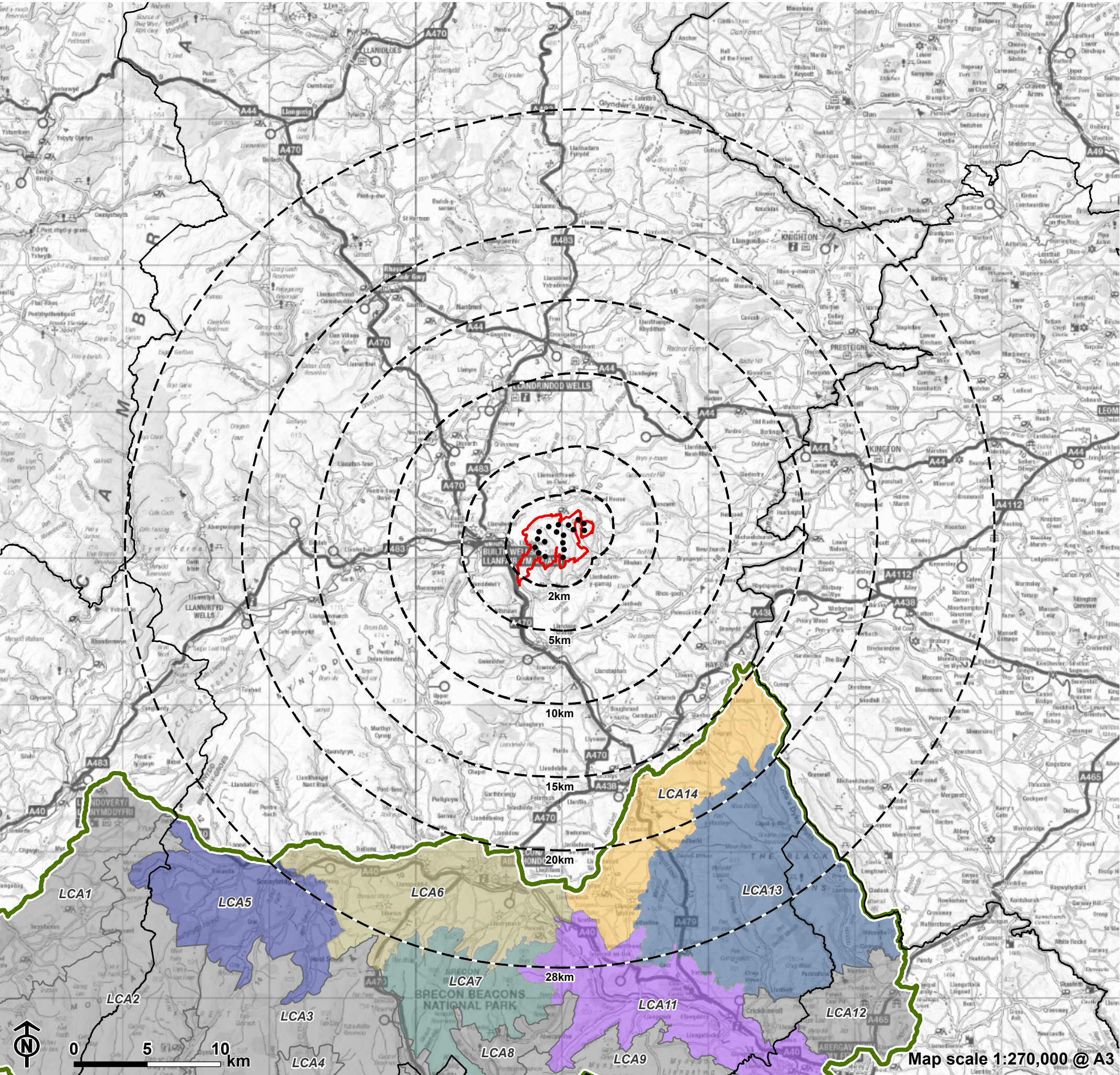
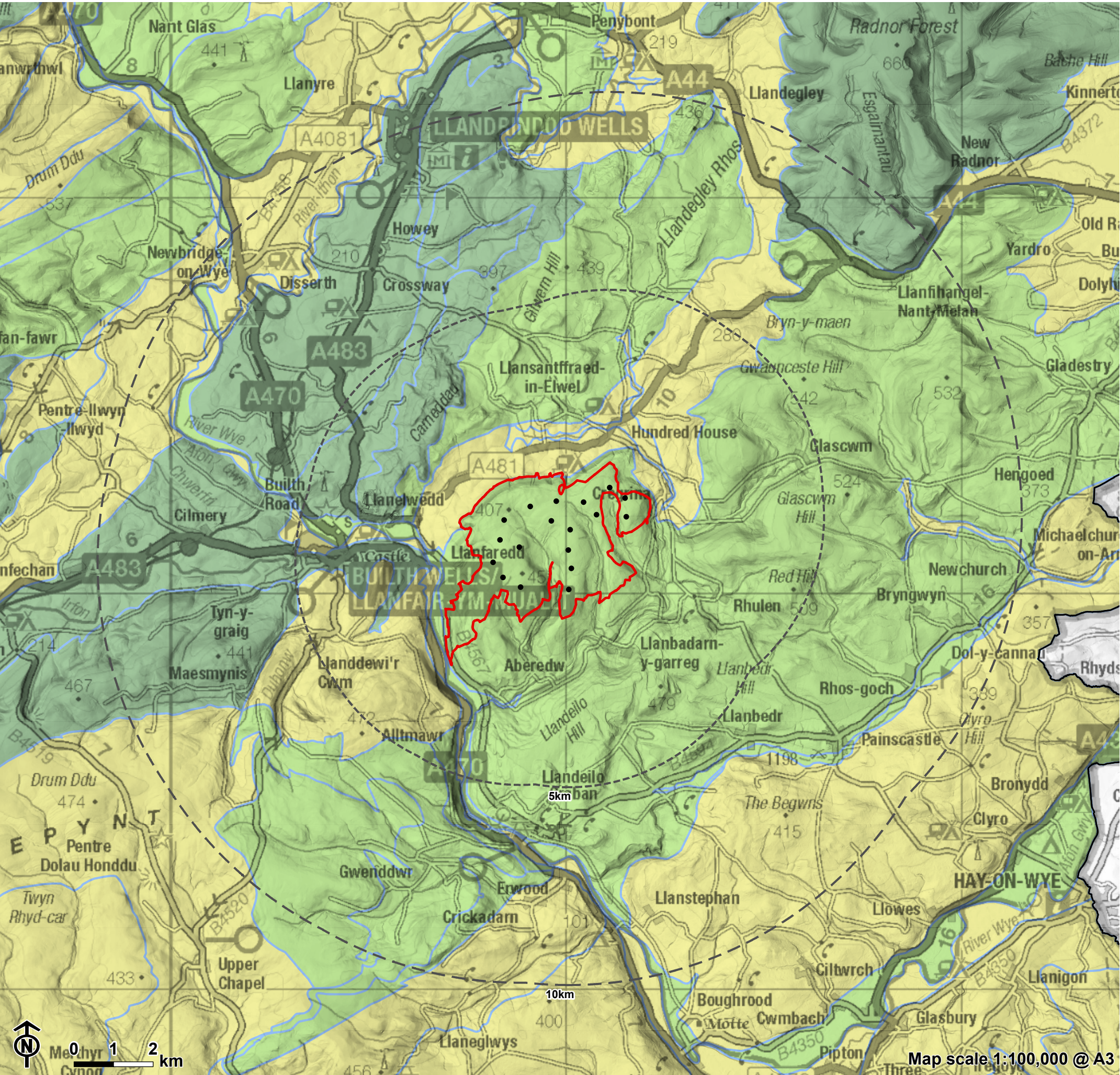


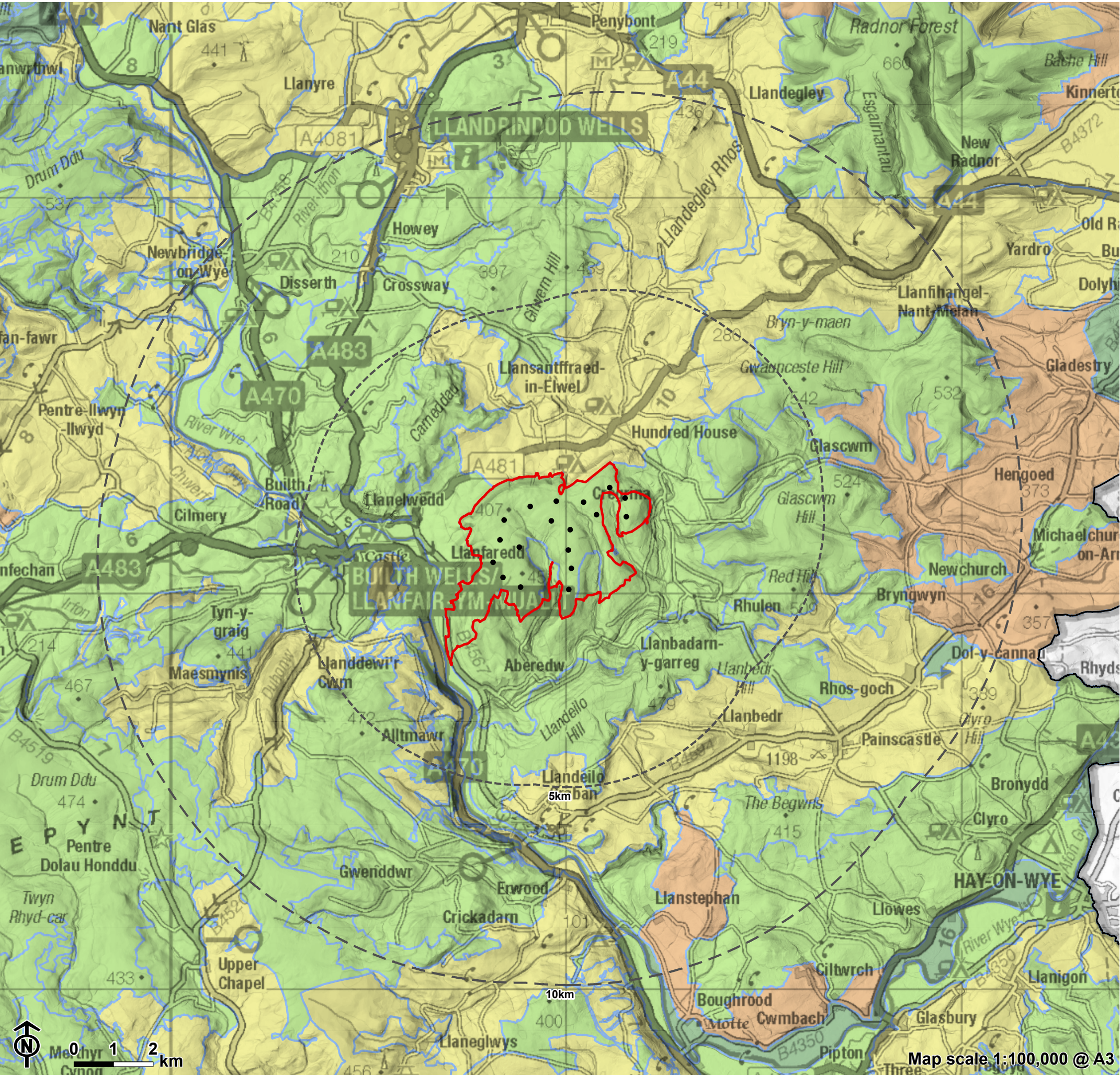
Figure 4.6: LANDMAP Aspect Areas - Geological Landscape to 10km



- Site boundary
 - Turbine
 - 5km interval from outermost turbine
 - 10km from outermost turbine
 - Local authority boundary
- LANDMAP - Geological Landscape**
- Overall Evaluation**
- Outstanding
 - High
 - Moderate

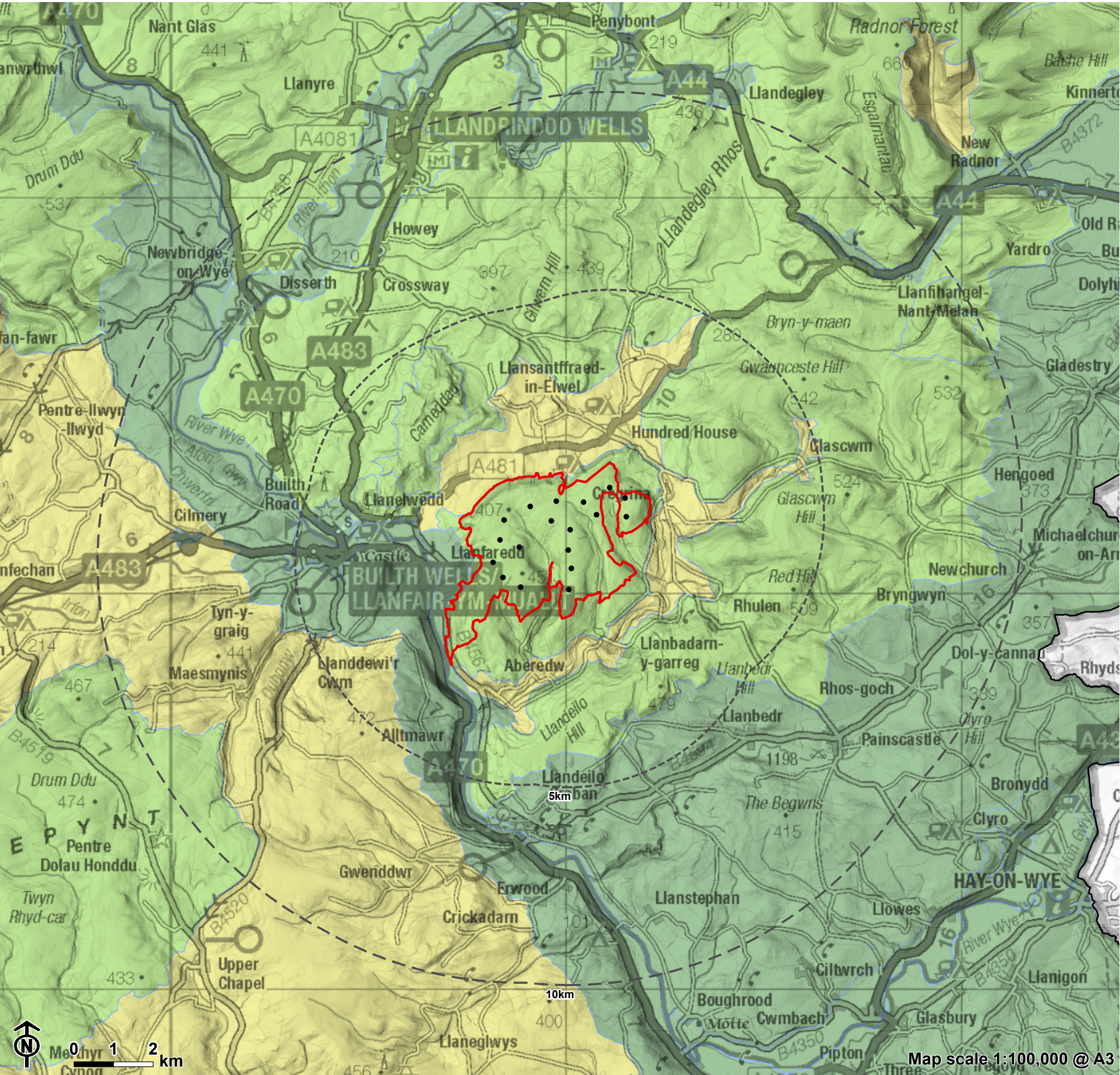


Figure 4.7: LANDMAP Aspect Areas -
Landscape Habitat to 10km



- Site boundary
 - Turbine
 - 5km interval from outermost turbine
 - 10km from outermost turbine
 - Local authority boundary
- LANDMAP - Landscape Habitats**
- Overall Evaluation**
- Outstanding
 - High
 - Moderate
 - Low

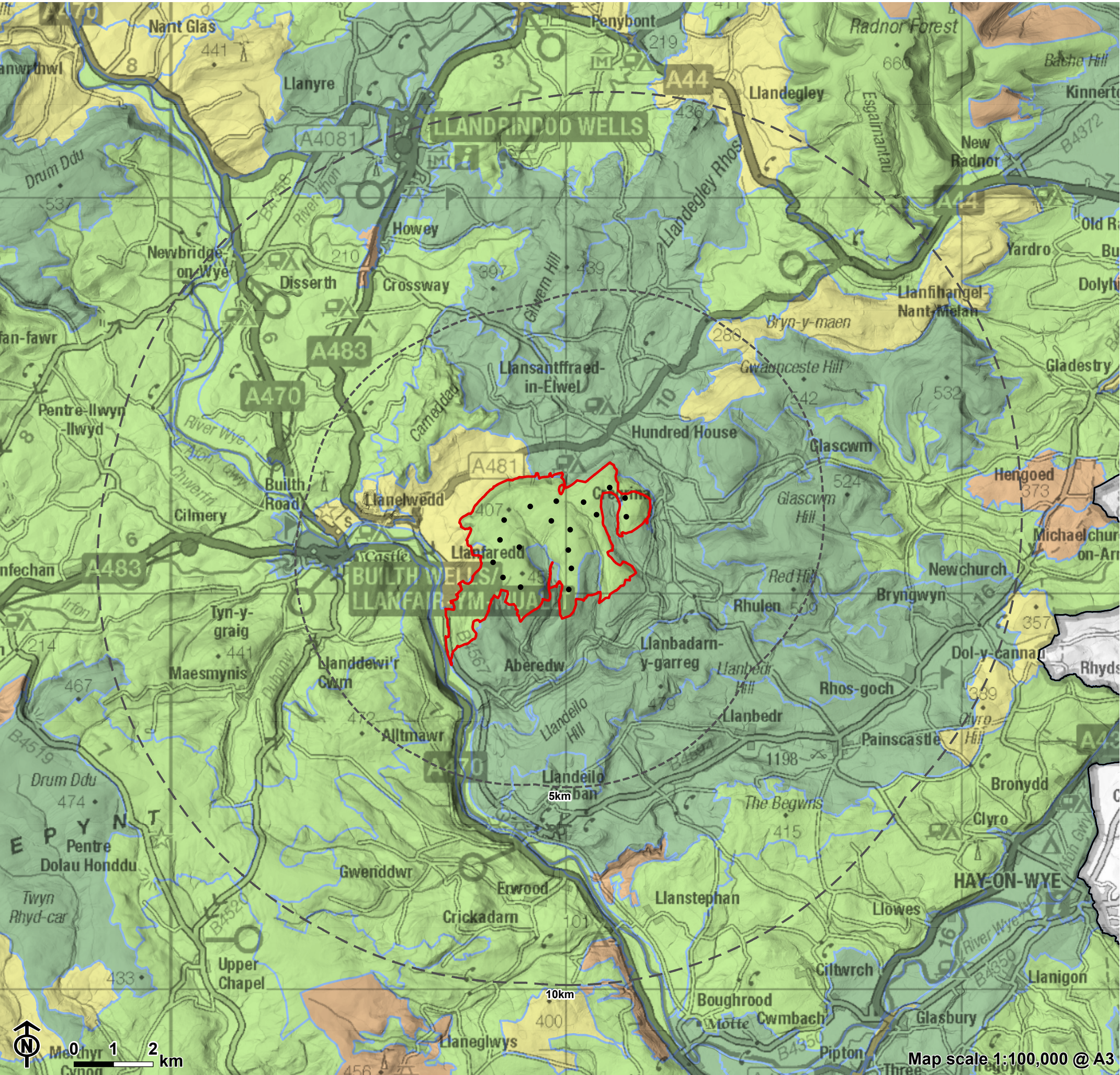
Figure 4.8: LANDMAP Aspect Areas -
Cultural Landscape to 10km



- Site boundary
- Turbine
- 5km interval from outermost turbine
- 10km from outermost turbine
- Local authority boundary
- LANDMAP - Cultural Landscape**
- Overall Evaluation**
- Outstanding
- High
- Moderate

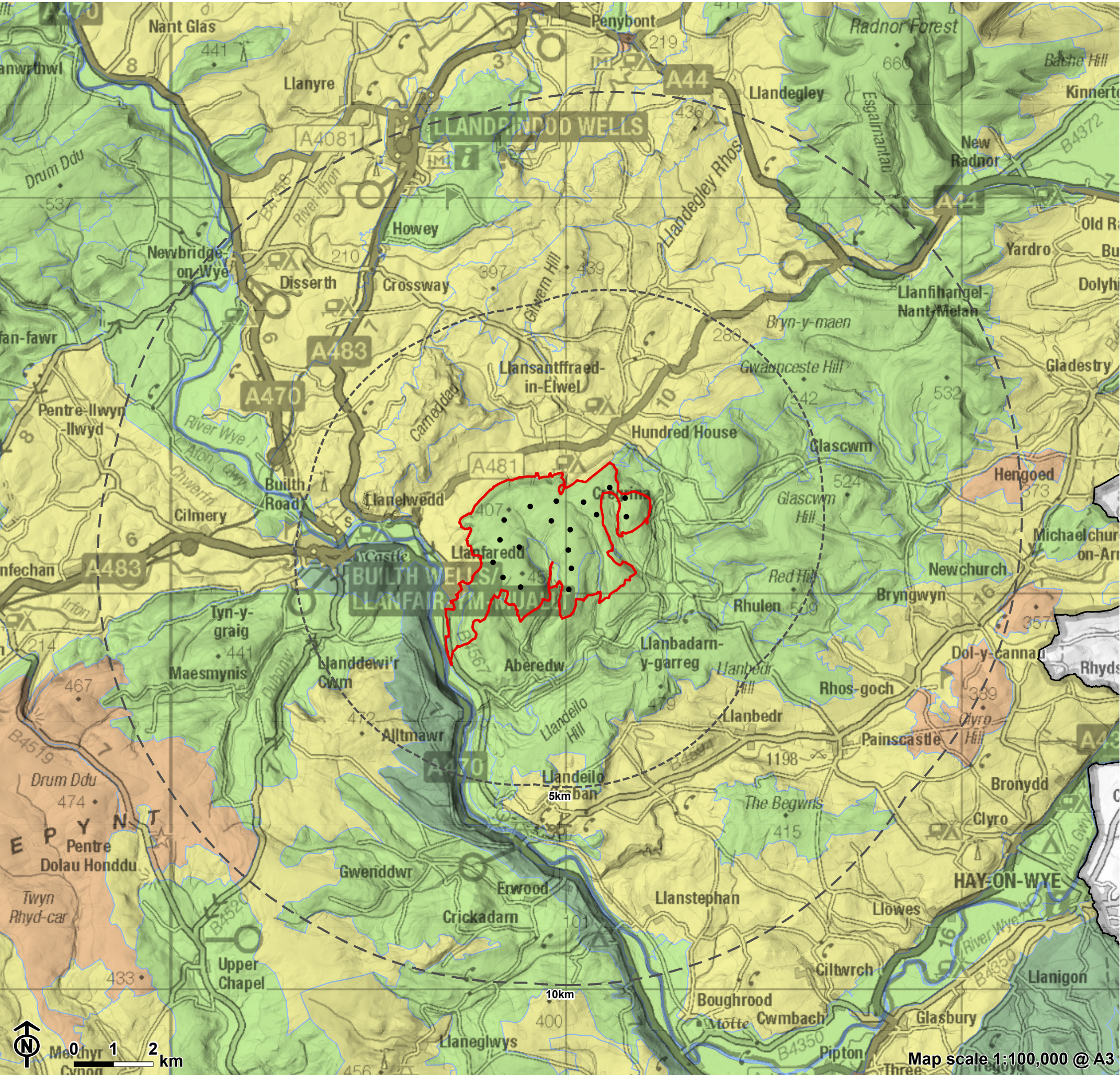


Figure 4.9: LANDMAP Aspect Areas -
Historic Landscape to 10km



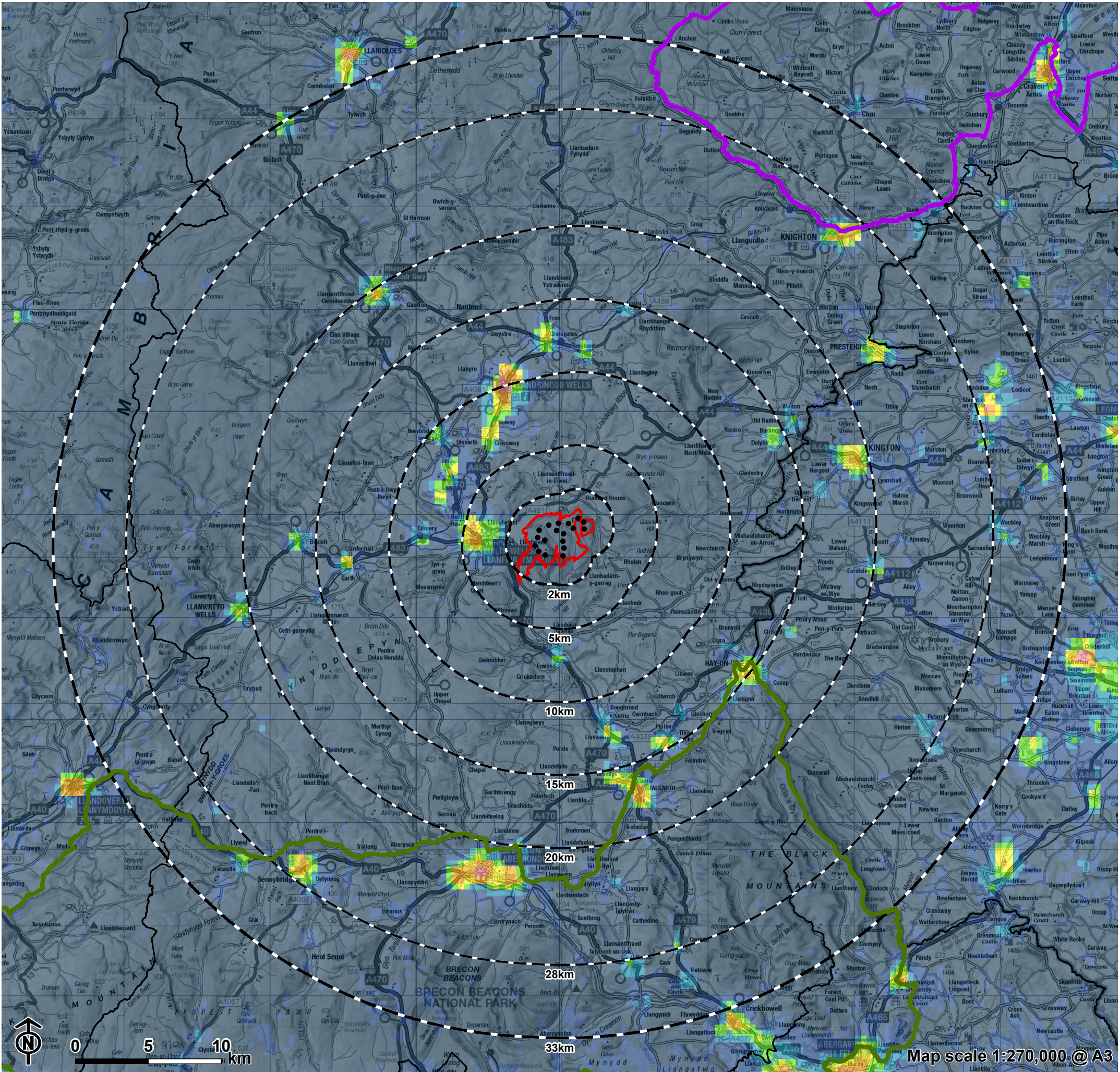
- Site boundary
 - Turbine
 - 5km interval from outermost turbine
 - 10km from outermost turbine
 - Local authority boundary
- LANDMAP - Historic Landscape**
- Overall Evaluation**
- Outstanding
 - High
 - Moderate
 - Low

Figure 4.10: LANDMAP Aspect Areas - Visual And Sensory to 10km



- Site boundary
 - Turbine
 - 5km interval from outermost turbine
 - 10km from outermost turbine
 - Local authority boundary
- LANDMAP - Visual Sensory**
- Overall Evaluation**
- Outstanding
 - High
 - Moderate
 - Low

Figure 4.11: Dark Skies Mapping



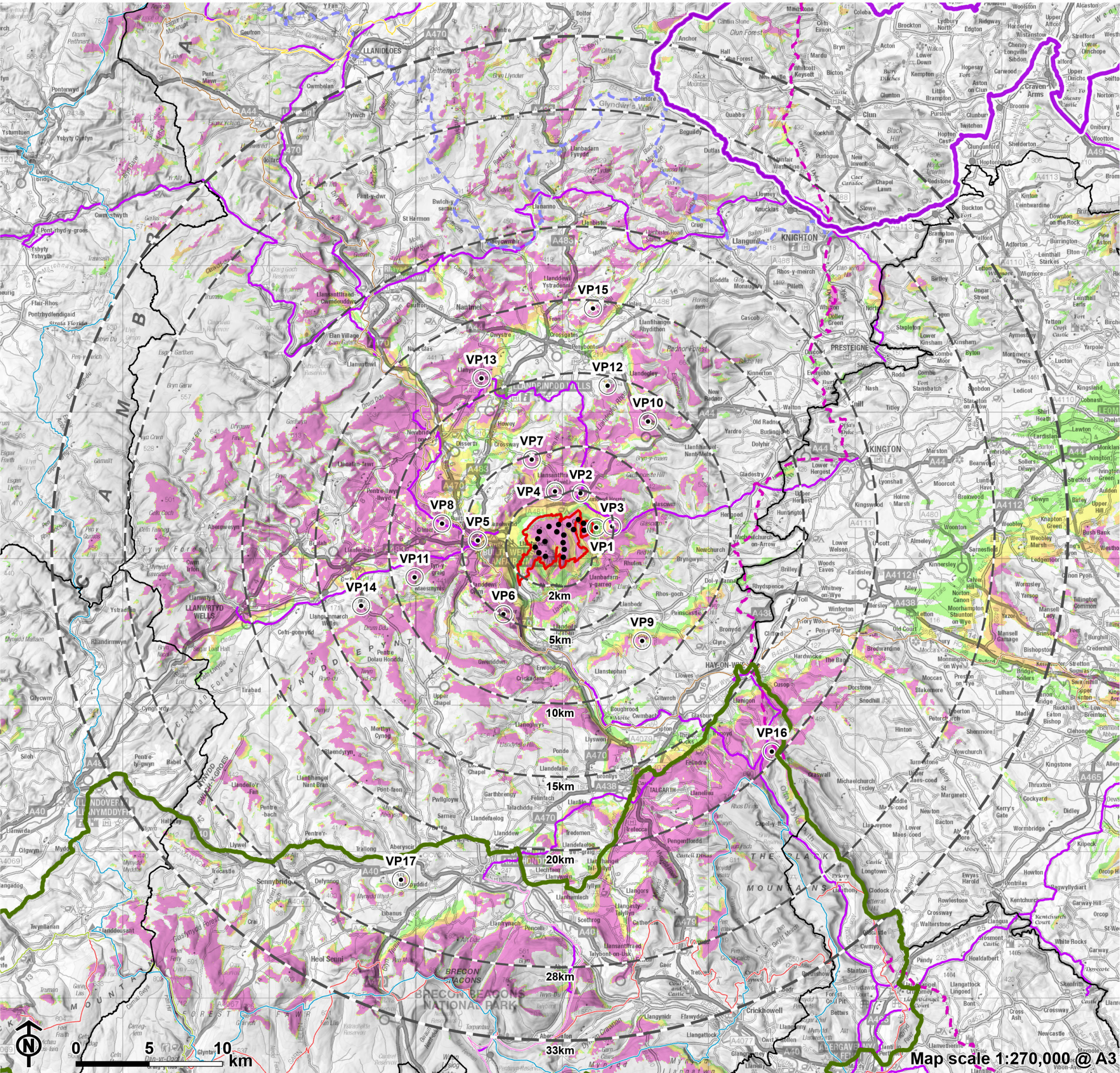
- Site boundary
- Turbine
- Buffer intervals from the turbine layout
- 33km from outermost turbine
- Local authority boundary
- Bannau Brycheiniog National Park and International Dark Sky Reserve
- Shropshire Hills National Landscape

Night lights
(NanoWatts / cm²/sr)

- < 0.25
- 0.25 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 4
- 4 - 8
- 8 - 16
- 16 - 32
- >32



Figure 4.12: Bareground ZTV to Turbine Blade Tip Height (200m) with Scoping Viewpoints (to 33km)

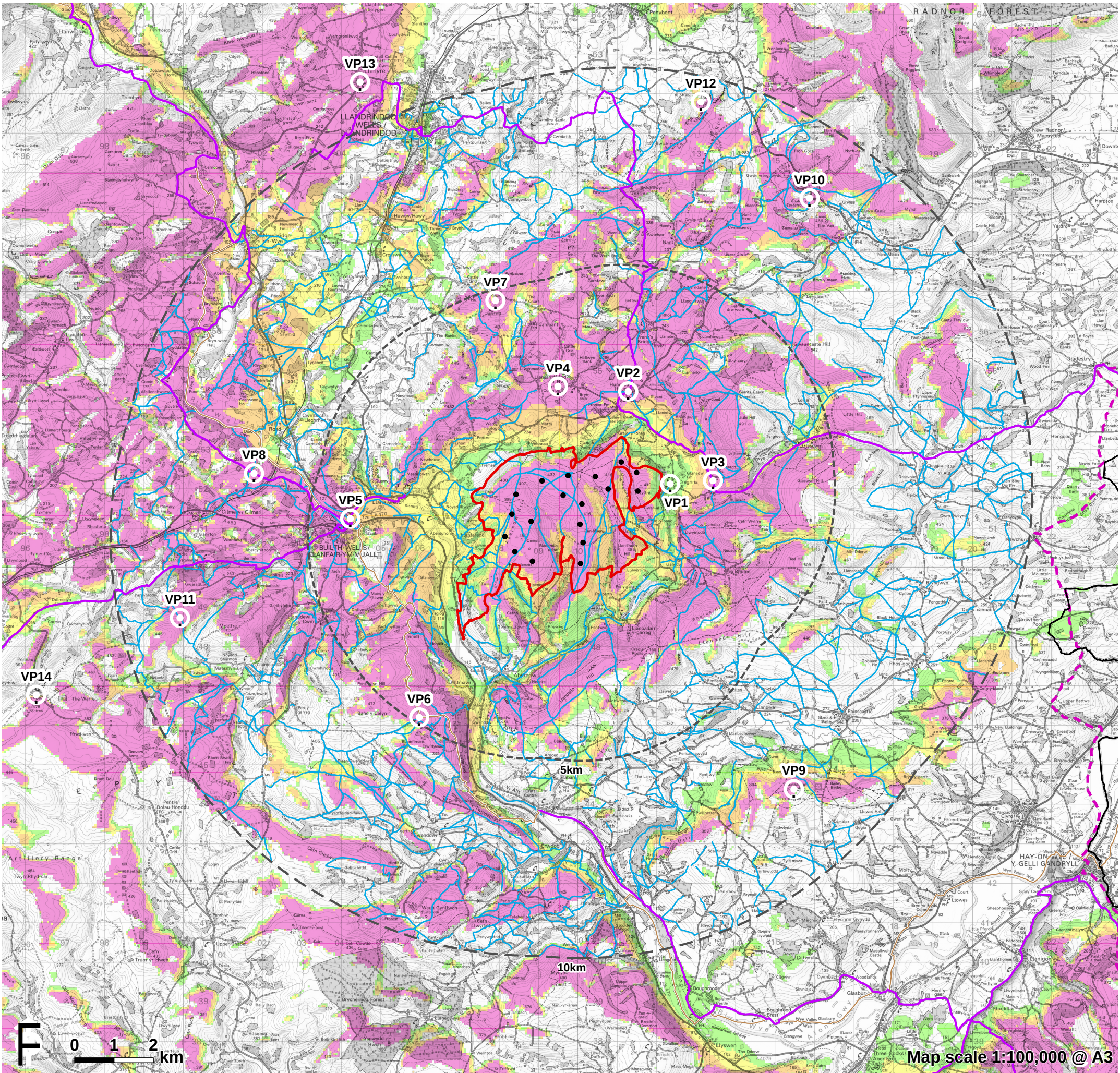


- Site boundary
- Turbine
- Buffer intervals from the turbine layout
- 33km from outermost turbine
- Bannau Brycheiniog National Park and International Dark Sky Reserve
- Shropshire Hills National Landscape
- National Cycle Network
- National Trails
 - Glyndwr's Way
 - Offa's Dyke
- Long Distance Walk
 - Brecon Beacons Way
 - Cambrian Way
 - Celtic Way
 - Severn Way
 - Taff Trail
 - Wye Valley Walk
- Bareground ZTV to tip height (200m)
 - 1 - 4 Turbines visible
 - 5 - 8 Turbines visible
 - 9 - 12 Turbines visible
 - 13 - 18 Turbines visible
- Viewpoint
 - VP1: St. David's Church, Cregrina
 - VP2: A481 at Hundred House
 - VP3: NCN 825 near Cregrina
 - VP4: Perthi Common
 - VP5: Wye Bridge, Builth Wells
 - VP6: Wye Valley Walk near Banc y Celyn
 - VP7: Gilwern Hills Common Land
 - VP8: NCN 8 near Cilmerly
 - VP9: The Begwns Roundabout
 - VP10: Bridleway off A44 near Castell Crugerydd
 - VP11: Heart of Wales Line Trail at Moelfre
 - VP12: Llandegley Rocks
 - VP13: A4081 at Llanyre
 - VP14: Promoted viewpoint south of Cwm Graig-ddu
 - VP15: Elan Valley Way near Cwmwrach
 - VP16: Path to Hay Bluff, Bannau Brycheiniog National Park
 - VP17: Twyn y Gaer

Notes
The ZTV indicates the theoretical visibility of the turbine blade tip height (200m) with a viewing height 2m above ground level. The terrain model is based on OS Terrain 50 (DTM) data obtained from Emapsite in 2023. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.0.3 software.



Figure 4.13: Bareground ZTV to Turbine Blade Tip Height (200m) with Scoping Viewpoints (to 10km)

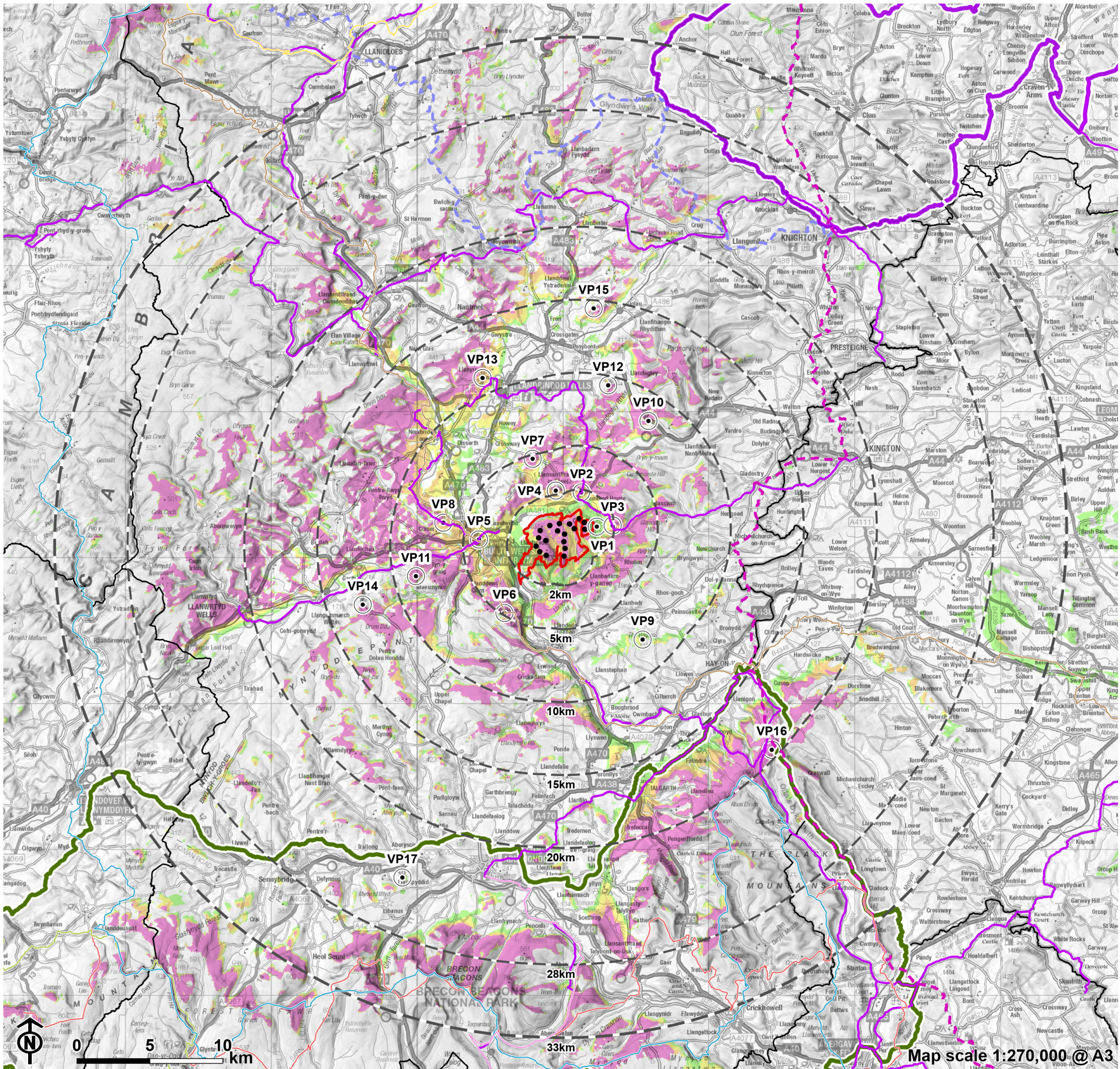


- Site boundary
- Turbine
- 5km interval from outermost turbine
- 10km from outermost turbine
- Local authority boundary
- National Cycle Network
- National Trails
 - Offa's Dyke
 - Wye Valley Walk
 - Public Right of Way
- Bareground ZTV to tip height (200m)
 - 1 - 4 Turbines visible
 - 5 - 8 Turbines visible
 - 9 - 12 Turbines visible
 - 13 - 18 Turbines visible

- Viewpoint
- | | |
|--|---|
| VP1: St. David's Church, Cregrina | VP8: NCN 8 near Cilmerly |
| VP2: A481 at Hundred House | VP9: The Begwns Roundabout |
| VP3: NCN 825 near Cregrina | VP10: Bridleway off A44 near Castell Crugerydd |
| VP4: Perthi Common | VP11: Heart of Wales Line Trail at Moelfre |
| VP5: Wye Bridge, Buith Wells | VP12: Llandegley Rocks |
| VP6: Wye Valley Walk near Banc y Celyn | VP13: A4081 at Llanyre |
| VP7: Gilwern Hills Common | VP14: Promoted viewpoint south of Cwm Graig-ddu |

Notes
The ZTV indicates the theoretical visibility of the turbine blade tip height (200m) with a viewing height 2m above ground level. The terrain model is based on OS Terrain 50 (DTM) data obtained from Emapsite in 2023. Earth curvature and atmospheric refraction have been taken into account.
The ZTV was calculated using ArcGIS Pro 3.0.3 software.

Figure 4.14: Bareground ZTV to Turbine Hub Height (122.5m) with Scoping Viewpoints (to 33km)



- Site boundary
- Turbine
- Local authority boundary
- Buffer intervals from the turbine layout
- 33km from outermost turbine
- Bannau Brycheiniog National Park and International Dark Sky Reserve
- Shropshire Hills National Landscape
- National Cycle Network

National Trails

- Glyndwr's Way
- Offa's Dyke

Long Distance Walk

- Brecon Beacons Way
- Cambrian Way
- Celtic Way
- Severn Way
- Taff Trail
- Wye Valley Walk

Bareground ZTV to hub height (122.5m)

- 1 - 4 Turbines visible
- 5 - 8 Turbines visible
- 9 - 12 Turbines visible
- 13 - 18 Turbines visible

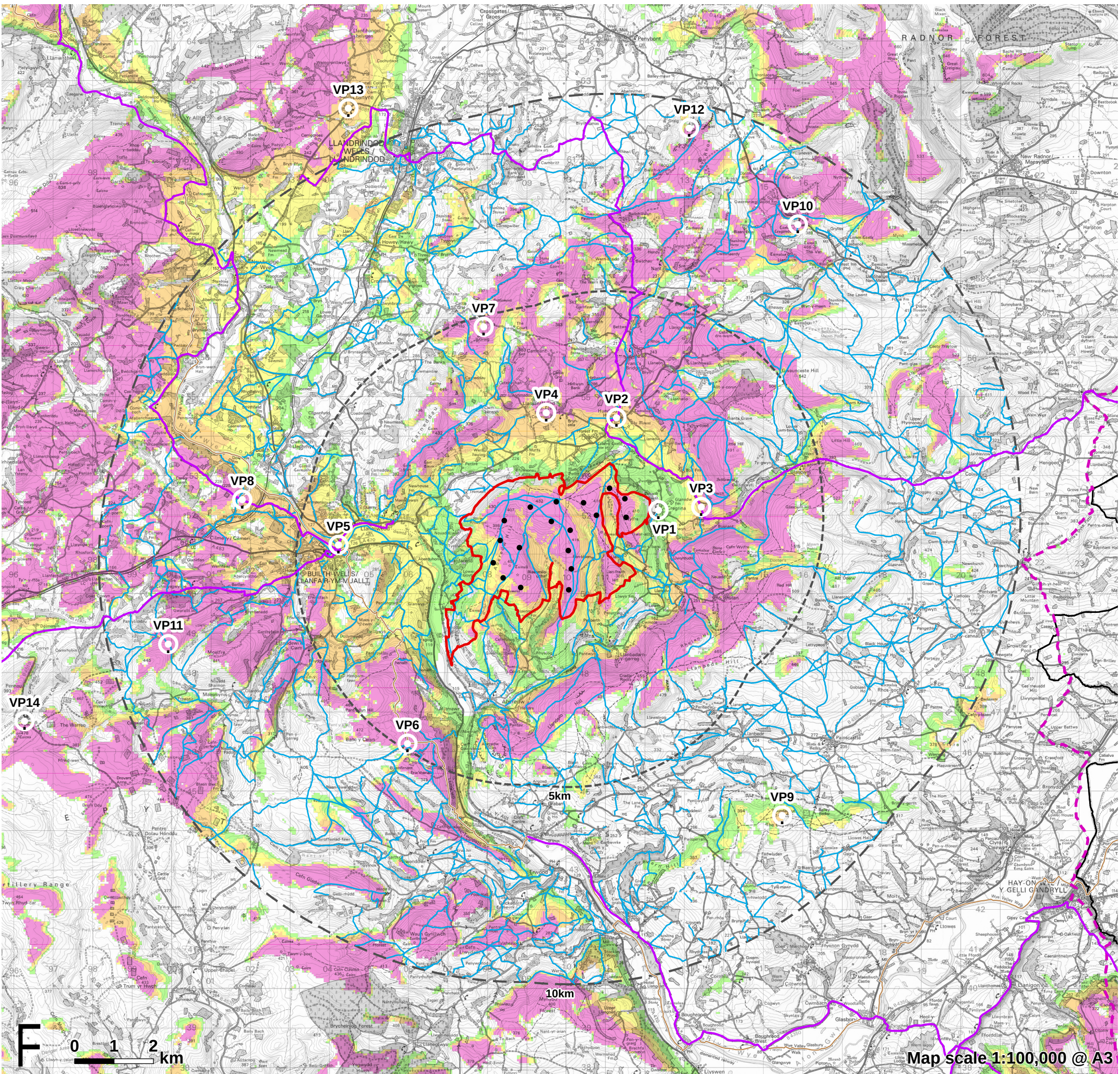
Viewpoint

- VP1: St. David's Church, Cregrina
- VP2: A481 at Hundred House
- VP3: NCN 825 near Cregrina
- VP4: Perthi Common
- VP5: Wye Bridge, Builth Wells
- VP6: Wye Valley Walk near Banc y Celyn
- VP7: Gilwern Hills Common Land
- VP8: NCN 8 near Cilmeri
- VP9: The Begwns Roundabout
- VP10: Bridleway off A44 near Castell Crugerydd
- VP11: Heart of Wales Line Trail at Moelfre
- VP12: Llandegley Rocks
- VP13: A4081 at Llanyre
- VP14: Promoted viewpoint south of Cwm Graig-ddu
- VP15: Elan Valley Way near Cwmwrach
- VP16: Path to Hay Bluff, Bannau Brycheiniog National Park
- VP17: Twyn y Gaer

Notes

The ZTV indicates the theoretical visibility of the turbine blade hub height (122.5m) with a viewing height 2m above ground level. The terrain model is based on OS Terrain 50 (DTM) data obtained from Emapsite in 2023. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.0.3 software.

Figure 4.15: Bareground ZTV to Turbine Hub Height (122.5m) with Scoping Viewpoints (to 10km)



- Site boundary
- Turbine
- 5km interval from outermost turbine
- 10km from outermost turbine
- Local authority boundary
- National Cycle Network
- National Trails
 - Offa's Dyke
- Long Distance Walk
 - Wye Valley Walk
 - Public Right of Way

Bareground ZTV to hub height (122.5m)

- 1 - 4 Turbines visible
- 5 - 8 Turbines visible
- 9 - 12 Turbines visible
- 13 - 18 Turbines visible

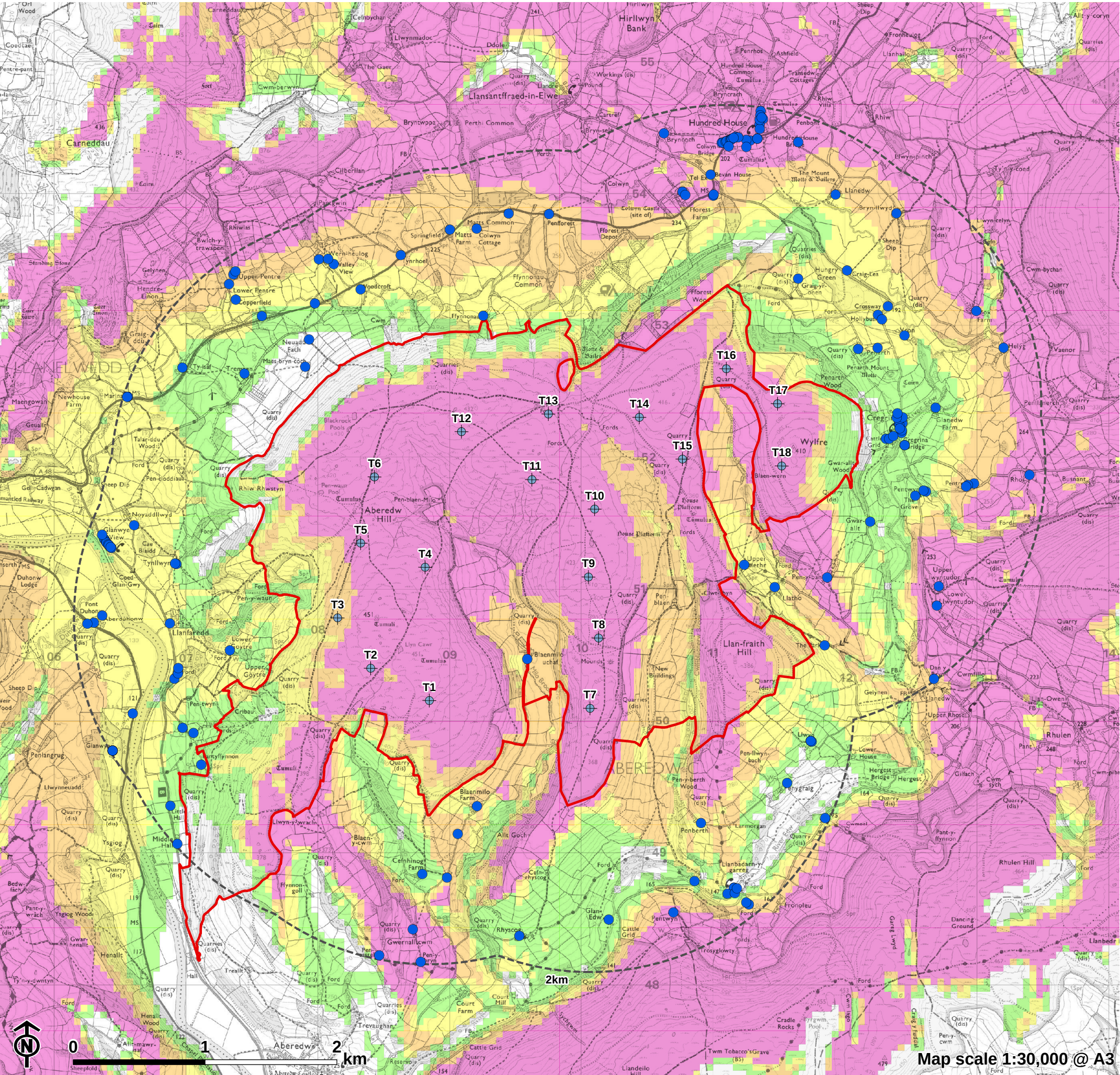
Viewpoint

- | | |
|--|---|
| VP1: St. David's Church, Cregrina | VP8: NCN 8 near Cilmerly |
| VP2: A481 at Hundred House | VP9: The Begwns Roundabout |
| VP3: NCN 825 near Cregrina | VP10: Bridleway off A44 near Castell Crugerydd |
| VP4: Perthi Common | VP11: Heart of Wales Line Trail at Moelfre |
| VP5: Wye Bridge, Builth Wells | VP12: Llandeigley Rocks |
| VP6: Wye Valley Walk near Banc y Celyn | VP13: A4081 at Llanyre |
| VP7: Gilwern Hills Common | VP14: Promoted viewpoint south of Cwm Graig-ddu |

Notes

The ZTV indicates the theoretical visibility of the turbine hub height (122.5m) with a viewing height 2m above ground level. The terrain model is based on OS Terrain 50 (DTM) data obtained from Emapsite in 2023. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.0.3 software.

Figure 4.16: Residential Properties within 2km of Proposed Turbines on ZTV



- Site boundary
 - Turbine
 - 2km from outermost turbine
 - Residential property
- Bareground ZTV to tip height (200m)
- 1 - 4 Turbines visible
 - 5 - 8 Turbines visible
 - 9 - 12 Turbines visible
 - 13 - 18 Turbines visible

Notes
The ZTV indicates the theoretical visibility of the turbine blade tip height (200m) with a viewing height 2m above ground level. The terrain model is based on OS Terrain 50 (DTM) data obtained from Emapsite in 2023. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.0.3 software.