

Mynydd Mawr Energy Park

GALILEO empower is pleased to present its plans for the proposed Mynydd Mawr Energy Park. Thank you for taking the time to visit today's event.

Leave your feedback

This is our first round of consultation events, giving you the chance to view our current plans for the site, meet the project team, and provide feedback.

We would very much value your feedback as we seek to review and refine our plans.

Please take a few minutes to share your views and comments on our proposal by completing our feedback form by:



**Visiting the project website at
mynyddmawr-energypark.co.uk**



Filling out a hard copy available at the event today.

- **Please return to the comments box at the event**
- **or to FREEPOST TC CONSULTATION**
(no stamp or further address required)

Keeping in touch

If you have any questions after today, please get in touch at any time by:



emailing **mynyddmawr@galileoenergy.uk**



calling **0800 6990081**



**Deadline for initial feedback:
18 December 2024**

How is GALILEO empower tackling the climate emergency

GALILEO empower was established to support the once in a lifetime global transition to low carbon renewable energy.



The Mynydd Mawr Energy Park will support Wales in its response to the climate emergency, which Welsh Government declared in April 2019. Mynydd Mawr Energy Park will also help in the transition to renewable energy sources and reduce greenhouse gas emissions in line with Welsh Government targets.

The development of domestic renewable energy production will play a significant role in boosting Wales's energy security by reducing its reliance on imported fossil fuels. We want to further address the risks of over-reliance on imported fossil fuels, with the rising cost of gas and oil driving the huge increase in energy bills.

Over the next decade, Wales needs to quadruple its wind power capacity – from both onshore and offshore sources. A clean energy future will:

- ✓ **safeguard our energy security**
- ✓ **provide lower-cost electricity to ease the cost of living for households**
- ✓ **boost the competitiveness of Welsh businesses and supply chains and support thousands of jobs nationwide.¹**

Renewable energy, particularly onshore wind and solar, is one of the cheapest sources of new-build electricity generation in the UK, and already makes an important contribution to Wales's energy mix.

¹ <https://www.renewableuk-cymru.com/wp-content/uploads/RUK-Cymru-Manifesto-2024.pdf>



About us

GALILEO empower is a fast-growing European, multi-technology, renewable energy developer, owner and operator with a mission to drive and expediate building a sustainable energy system for the next generation.

We aim to do this by developing smart, efficient, high quality and integrated green energy projects to support the global transition to low carbon renewable energy.

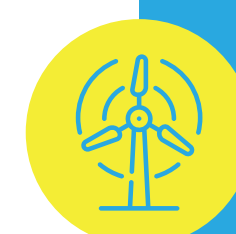
GALILEO empower has a number of projects in development in both Wales and Scotland. Our Cardiff-based project team is committed to developing projects which deliver substantial and tangible benefits locally and foster strong community relations. GALILEO empower's funders are long-term international infrastructure and pension funds.

More information about GALILEO empower is available at: galileoempower.com

Mynydd Mawr Energy Park

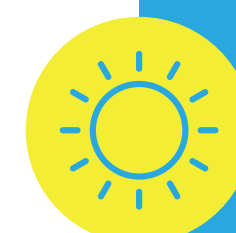


The Proposals



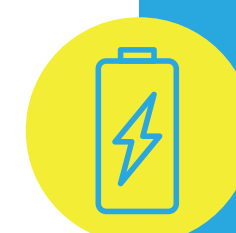
Wind

- Up to **21 turbines** with a maximum tip height of 230m.
- Up to **147 megawatts** (MW) of renewable energy generation.
- Enough to power over **122,000 homes** a year.²
- Offsetting some **173,000 tonnes** of carbon dioxide emissions a year.³



Solar

- Solar photovoltaic (PV) panels mounted on a frame.
- Set in rows maximising the opportunity to collect light and generate renewable energy from the sun throughout the year.



Battery Energy Storage System (BESS)

- Stores the excess energy that is produced during high winds or sunny days and then exports that stored energy back to the grid when generation is low and demand is high.
- Provides a vital 'balancing role', helping to ensure that the grid remains stable at all times.

Grid Connection

The connection from Mynydd Mawr Energy Park to the National Grid will form a separate planning application which would not be made by GALILEO empower.

² Based on DESNZ statistics for Annual GB average household consumption: <https://assets.publishing.service.gov.uk/media/65b12dfff2718c000dfb1c9b/subnational-electricity-and-gas-consumption-summary-report-2022.pdf>

³ Based on DESNZ's "all non-renewable fuels" emissions statistic of 437 tonnes of carbon dioxide per GWh of electricity supplied: <https://www.gov.uk/government/statistics/electricity-chapter-5-digest-of-united-kingdom-energy-statistics-dukes>

Site Location

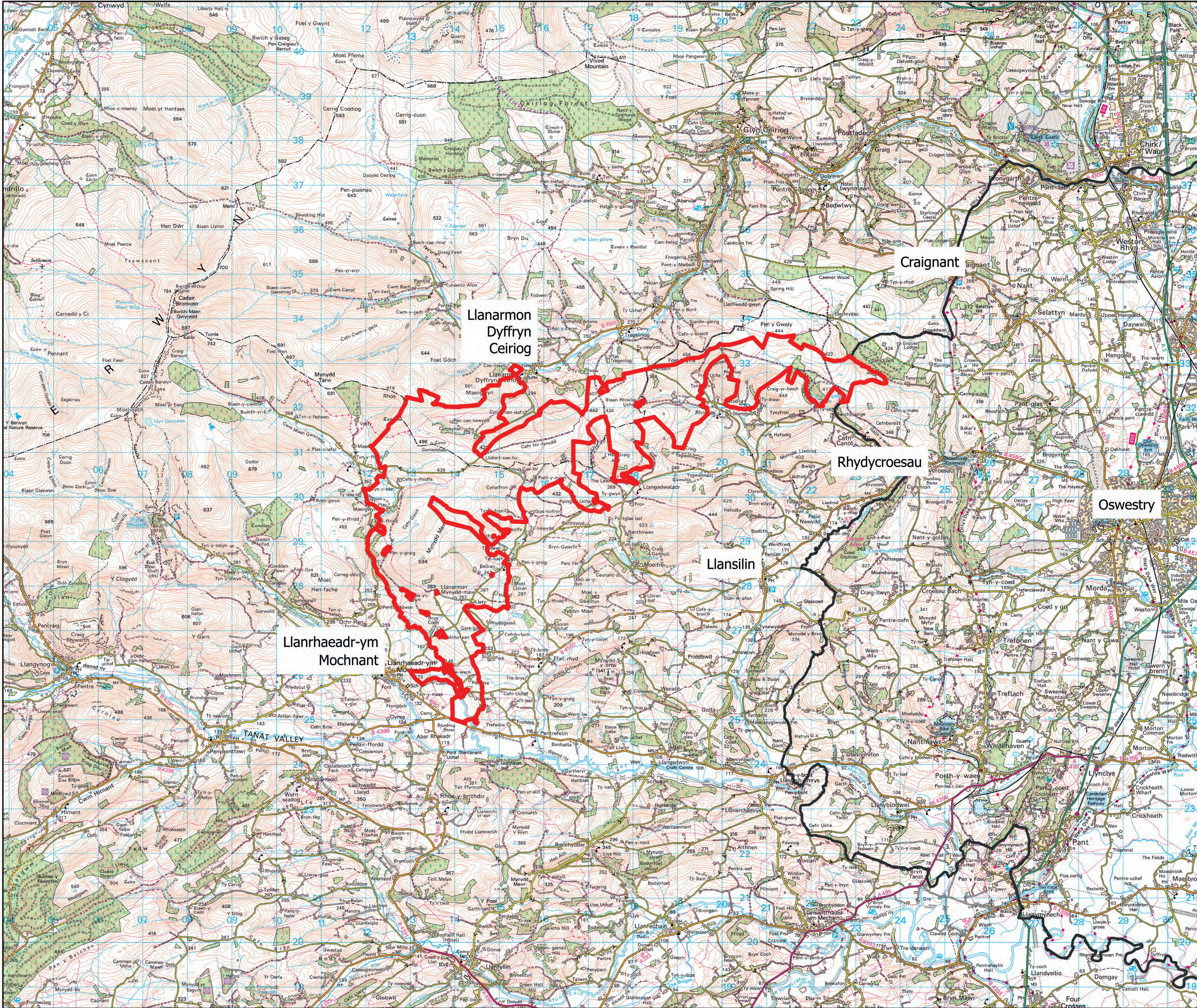
Mynydd Mawr Energy Park is situated on land between the Ceiriog and Tanat valleys in north eastern Powys and the southern part of Wrexham County Borough Council, adjacent to the Shropshire border and approximately 8km west of Oswestry.

The focus area of the site for the renewable energy development is situated:

- 5km to the north of Llansilin
- 4km to the south west of Craignant
- 2.5km north west of Rhydycroesau
- 3km east of Llanrhaeadr-ym-Mochnant
- 1.5km south of Llanarmon Dyffryn Ceiriog.

The site benefits from excellent wind resource and has suitable ground conditions for solar. It is an ideal location for a new renewable energy park to provide clean, carbon-free electricity.

The Mynydd Mawr Energy Park site is currently used for upland grazing.



Project:
Mynydd Mawr Energy Park

Title:
**Lleoliad y safle
Site Location**

Key:
**Lleoliad y safle / Site
Location**

Scale: 1:80,000

0 2 4 km

Date: 12/11/2024 Prepared By: RU Checked By: LW

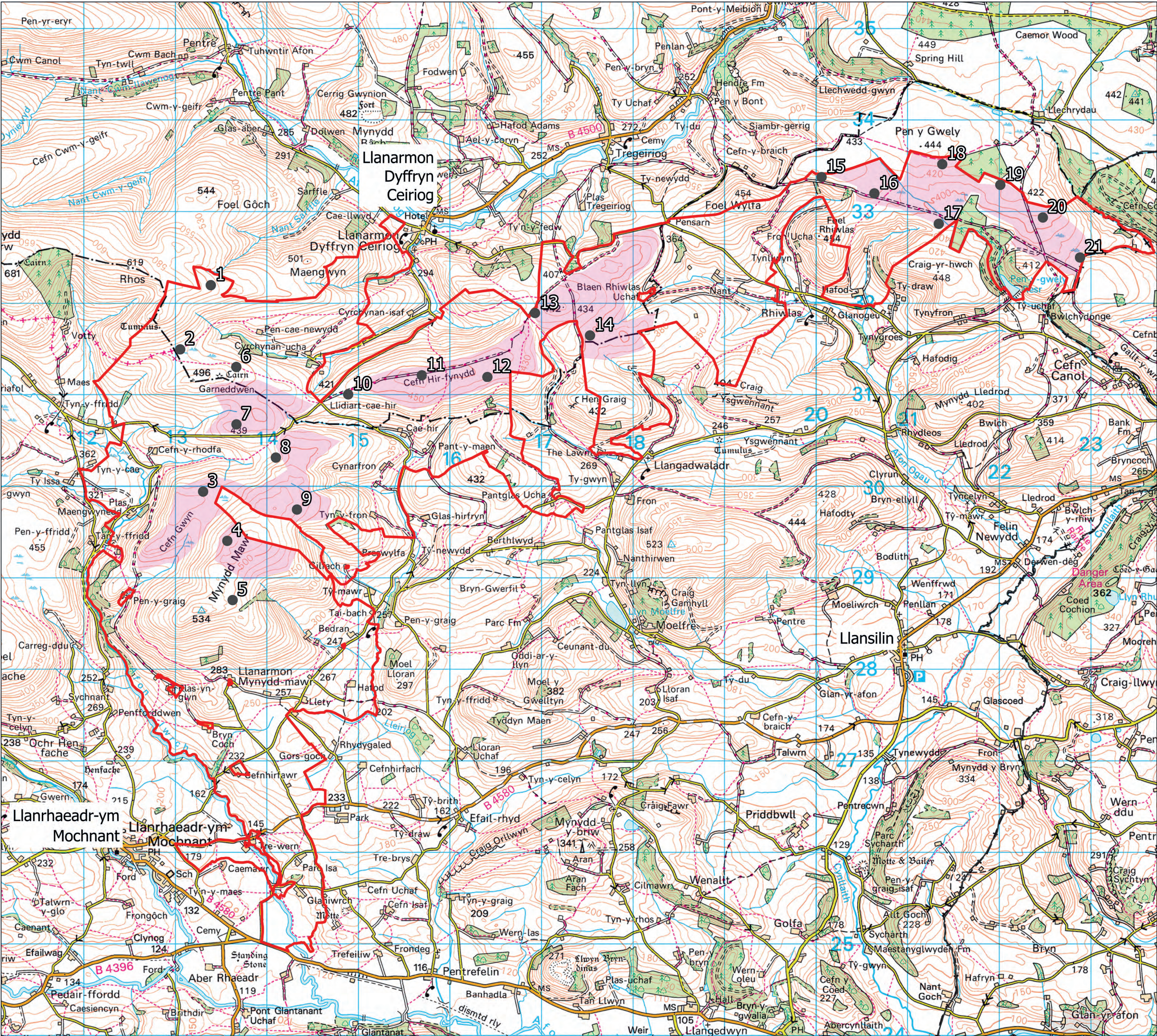
Llanrhadr-ym Mochnant

Oswestry

A483

GALILEO empower

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Project:
Mynydd Mawr Energy Park

Title:
**Map o'r Safle
Site Map**

Key:

- Indicative Turbine Layout
- ▬ Lleoliad y safle / Site Location
- ▭ Ardal Chwilio Solar Ddangosol / Indicative Solar Search Area

Scale: 1:20,000

0 1 2 km

Date: 19/11/2024 Prepared By: RU Checked By: EG

Llanrhadr-y-m Mochnant

Oswestry

GALILEO empower

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Environmental Considerations

We've got a team of expert environmental and technical consultants helping us develop our proposals.

As part of our planning application, we will complete an Environmental Impact Assessment (EIA) to assess the potential environmental effects of the project. We have started in-depth studies which will help us refine our proposals to avoid, reduce and mitigate any potential environmental impacts. The findings will be presented as an Environmental Statement (ES).

We will assess the following:

Wildlife

Surveys will be conducted to determine the project's potential impact on local wildlife and habitats, including bird surveys. The key species which will be considered include Hen Harrier, Peregrine, Red Kite, Goshawk, Kestrel, Curlew and Lapwing. Habitat and specialist wildlife surveys (bats, otter, water vole and badger) will be undertaken. Potential impacts on the nearby statutory sites designated for nature conservation including the Berwyn Special Protection Area will also be considered.

Opportunities will be explored for biodiversity enhancement to achieve an overall Net Benefit for Biodiversity on the site.



Heritage

The assessment will consider designated and non-designated historic assets within the site boundary and the settings of designated assets within the wider surrounding area, including listed buildings and scheduled monuments.



Water, soils and peat

Surveys will be undertaken to gather information about watercourses, groundwater, soil and peat conditions.

Noise

A comprehensive assessment on predicted noise levels from the proposed turbines will be completed. The noise from turbines would meet the strict requirements of national guidance and be within the appropriate limits set. Planning conditions will be imposed on any consent that will adequately control noise levels generated to an acceptable level at the nearby properties.

Transport and Access

Different route options for delivery of plant and equipment are being considered, as well as construction access to the site.

Aviation and radar

Potential impacts on aviation and radar will be assessed and consultation will be carried out with the Ministry of Defence and NATS En Route plc (NERL) to ensure that we address any potential issues.

Landscape and Visual

The site boundary stretches between the Ceiriog and Tanat valleys in north eastern Powys and the southern part of Wrexham County Borough Council. The site stretches across the Berwyn foothills.

A landscape and visual impact assessment (LVIA) will be undertaken, allowing us to consider the potential effect of the proposal on key views from the surrounding area and on the character of the landscape. Key landscape designations will be considered alongside the impact on visual amenity for residential property owners, as well as users of recreational areas, public footpaths and roads within the local area.

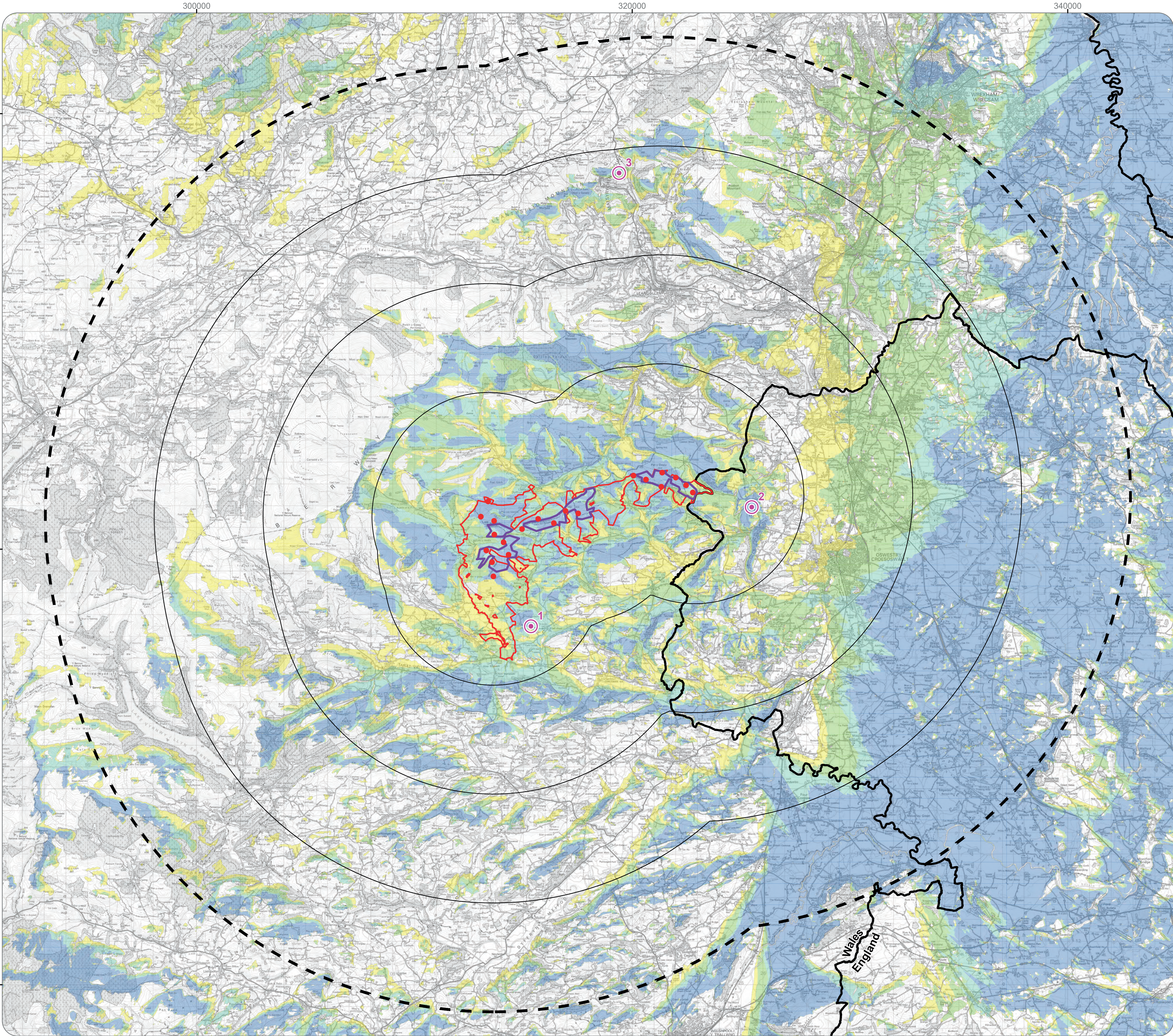
The LVIA will also assess how the energy park will look and fit in the surrounding landscape as well as illustrating this visually with the production of wirelines and photomontages.

Zones of Theoretical Visibility (ZTV)

The ZTV indicates where the turbines could be theoretically visible. The ZTV does not take into account existing buildings, trees or anything else 'above' ground which would further restrict visibility of the proposed development.

For the purposes of this exhibition we have selected the viewpoints shown to illustrate how the Mynydd Mawr Energy Park, based on the indicative layout, may appear in the surrounding area.





Legend / Chwedli

- Proposed Turbine / Tyrbin Arfaethedig
- Exhibition Viewpoint / Safbwynt yr Arddangosfa
- Site Boundary / Ffin y Safle
- Solar Area / Ardal Solar
- 5km Radii / 5km Radiysau
- 20km Buffer / 20km Clustog
- Country Border / Ffin y Wlad

Blade Tip ZTV / Blaen llafn ZTV

No of Blade Tips Theoretically Visible / Nifer blaenau'r llafn sy'n weladwy yn ddamcaniaethol

- 1-5
- 6-10
- 11-15
- 16-21

Exhibition Viewpoint / Safbwynt yr Arddangosfa:

- B4580, near Cefnhirfach
- Offa's Dyke Path, Baker's Hill
- A542, Horseshoe Pass_AONB

Blade tip / Blaen llafn:	230m	Observer height / Uchder y sylwedydd:	2m
DTM:	OS Terrain 5	Surface features / Nodweddion wyneb:	Excluded / Eithriedig
DTM resolution / Cydraniad DTM:	5m	Earth curvature / crymmedd y ddaear:	Included / Yn gynnwysedig

0 2.5 5 10 km



MYNYDD MAWR

Blade Tip ZTV with Viewpoints / Blaen llafn ZTV gyda Safbwyns

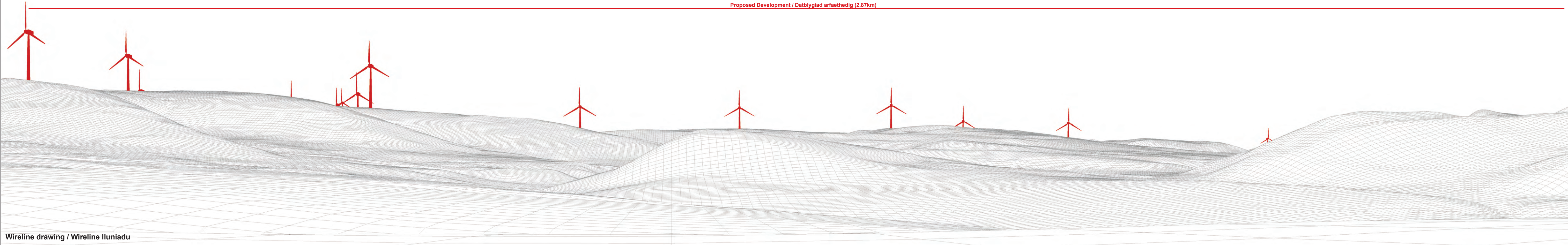
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Scale / Graddfa:	1:90,000	Drawing Size / Maint lluniadu:	A1	Date/ Dyddiad:	07/11/2024
Coordinate System / Cydlyn System:	BNG OS GB 1936 Datum				





Baseline photograph / Ffotograff gwaelodlin

This image provides landscape and visual context only / Mae'r ddelwedd hon yn darparu tirwedd a chyd-destun gwledol yn unig



Wireline drawing / Wireline lluniadu

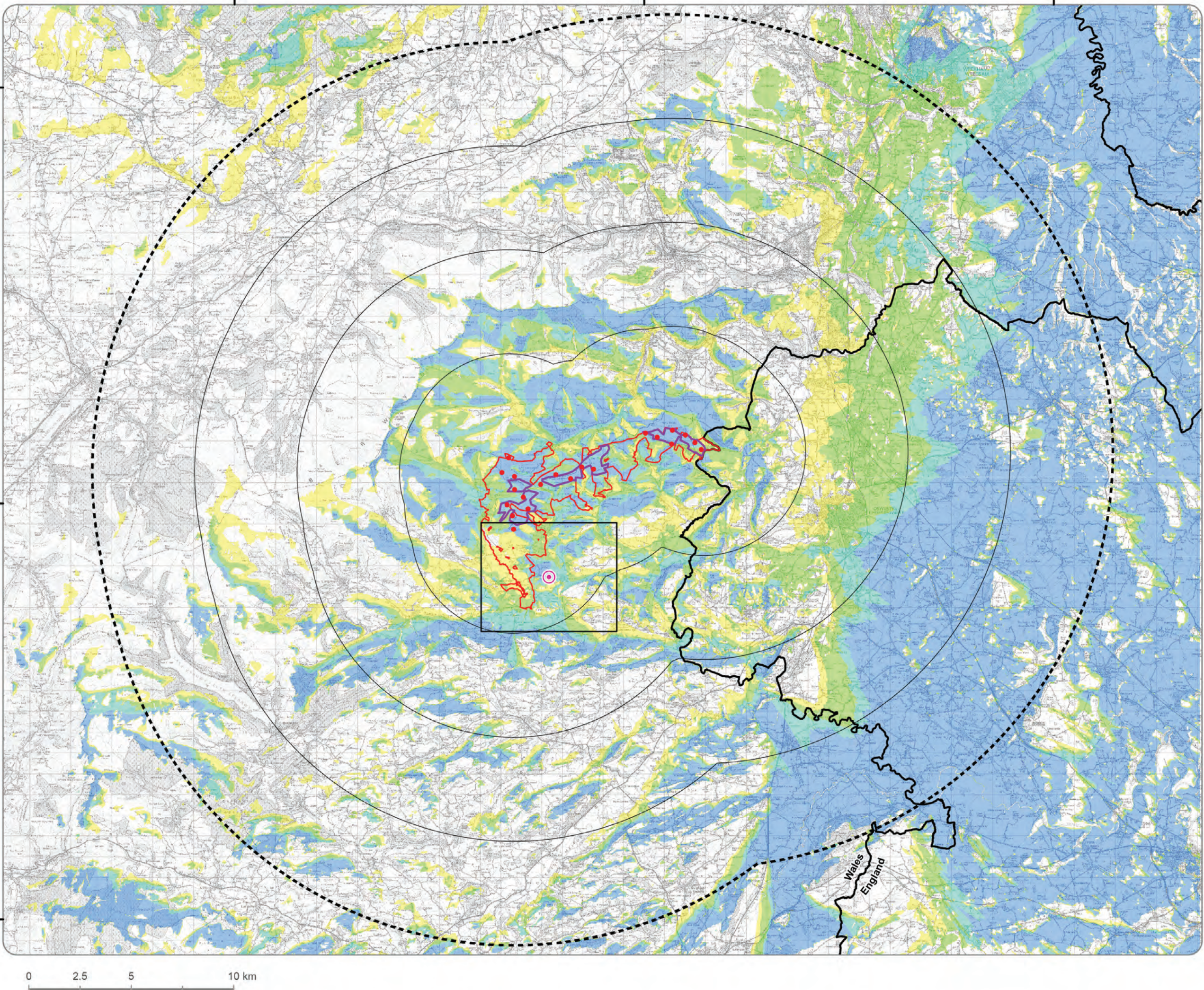
OS reference / Cyfeirnod OS: 315350 E 326461 N
Eye level / Lefel llygaid : 224.0 m AOD
Direction of view / Cyfeiriad yr olygfa: 6.5°
Nearest turbine / Tyrbin agosaf: 2.87 km

Horizontal field of view / Maes golygfa llorweddol: 90° (cylindrical projection / tafluniad silindrog)
Principal distance / Peltter prif: 522 mm
Paper size / Maint papur: 841 x 297 mm (half A1/ hanner A1)
Correct printed image size / Maint delwedd printiedig cywir: 820 x 130 mm

Camera: Nikon D610
Lens: 50mm f/1.8
Camera height / Uchder camera: 1.5 m
Date and time / Dyddiad ac amser: 13/09/2024 13:18

Viewpoint / Safbwynt 1 : B4580, near Cefnhrifach
Mynydd Mawr

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Legend / Chwedi

- Proposed Turbine / Tyrbin Arfaethedig
- Site Boundary / Ffin y Safle
- Solar Area / Ardal Solar
- 5km Radii / 5km Radiysau
- 20km Buffer / 20km Clustog
- Exhibition Viewpoint / Safbwynt yr Arddangosfa
- Panorama with Wireline / Panorama gyda Wireline (90°HFOV)
- Country Border / Ffin y Wlad

Blade Tip ZTV / Blaen llafn ZTV

No of Blade Tips Theoretically Visible / Nifer blaenau'r llafn sy'n weladwy yn ddamcaniaethol

1-5
6-10
11-15
16-21

Blade tip / Blaen llafn	230m	Observer height / Uchder y sylwedydd	2m
DTM	OS Terrain 5	Surface features / Nodweddion ymyr	Excluded / Eiddedig
DTM resolution / Cyfnewid DTM	5m	Earth contours / Cymwysd ymyr	Included / Yn gynnwys

Mynydd Mawr

Viewpoint Plan / Cynllun Safbwynt - VP:1
B4580, near Cefnhrifach

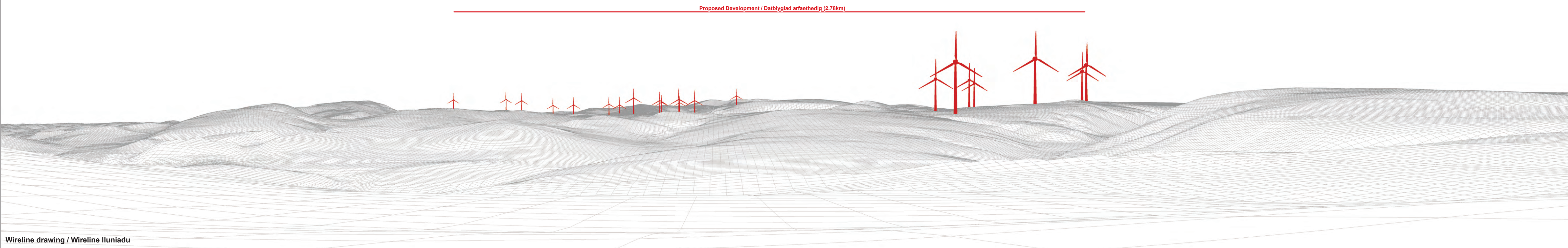
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Scale / Graddfa:	1:175,000	Drawing Size / Maint lluniadu:	A3	Date / Dyddiad:	06/11/2024
Coordinate System / Cydlyn System:	BNG OS GB 1936 Datum				

open
optimised environments
PART OF SLR



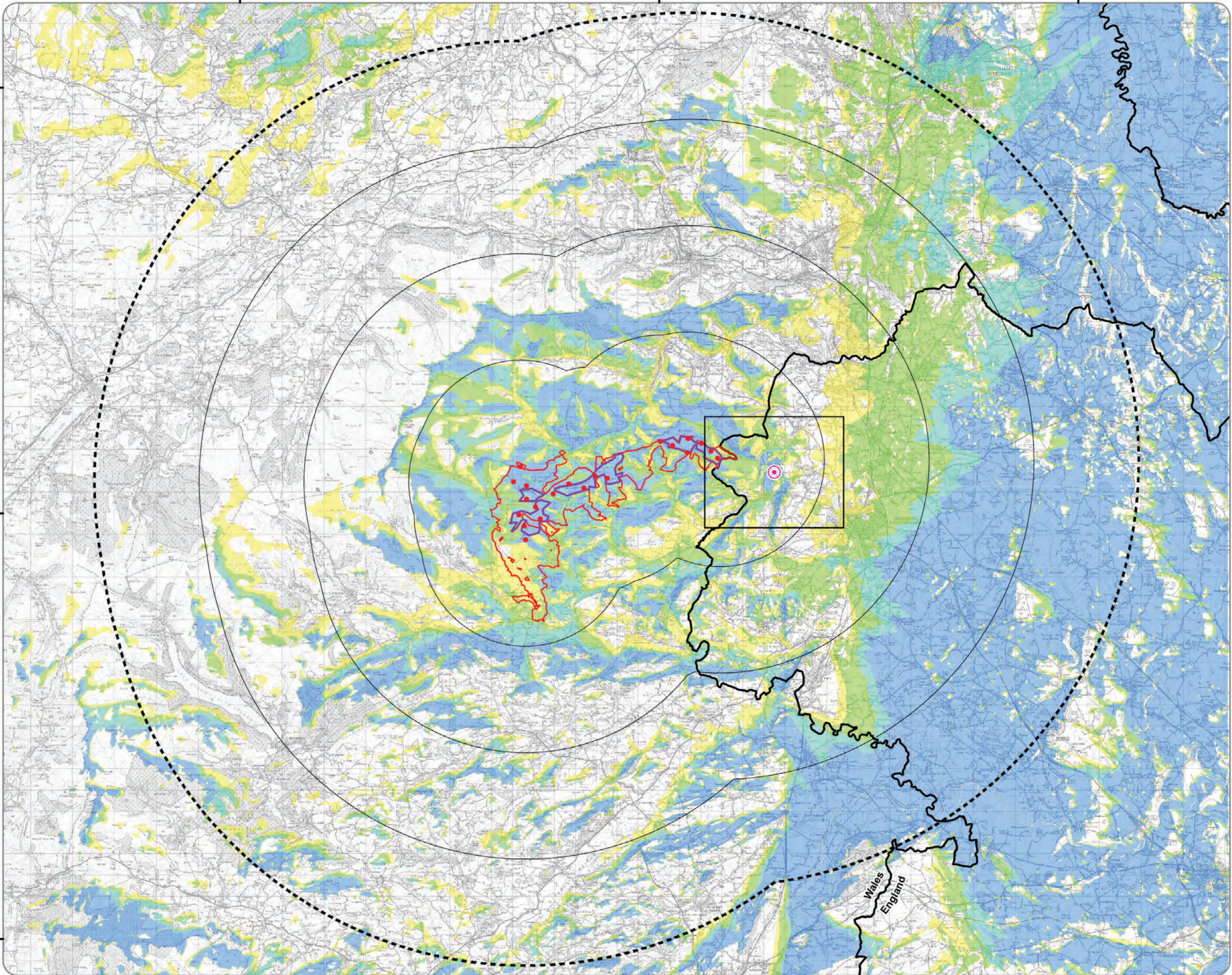
Baseline photograph / Ffotograff gwaelodlin

This image provides landscape and visual context only / Mae'r ddelwedd hon yn darparu tirwedd a chyd-destun gwledol yn unig



Wireline drawing / Wireline lluniadu

OS reference / Cyfeirnod OS:	325489 E 331933 N	Horizontal field of view / Maes golygfa llorweddol:	90° (cylindrical projection / taftuniad silindrog)	Camera:	Nikon D610	Viewpoint / Safbwynt 2: Offa's Dyke path, Bakers Hill
Eye level / Lefel llygaid :	342.5 m AOD	Principal distance / Pellter prif:	522 mm	Lens:	50mm f/1.8	Mynydd Mawr
Direction of view / Cyfeiriad yr olygfa:	274°	Paper size / Maint papur:	841 x 297 mm (half A1/ hanner A1)	Camera height / Uchder camera:	1.5 m	
Nearest turbine / Tyrbin agosaf:	2.78 km	Correct printed image size / Maint delwedd printiedig cywir:	820 x 130 mm	Date and time / Dyddiad ac amser:	13/09/2024 08:07	



Legend / Chwedi

- Proposed Turbine / Tyrbin Arfaethedig
- Site Boundary / Ffin y Safle
- Solar Area / Ardal Solar
- 5km Radii / 5km Radiysau
- 20km Buffer / 20km Clustog
- Exhibition Viewpoint / Safbwynt yr Arddangosfa
- Panorama with Wireline / Panorama gyda Wireline (90°HFOV)
- Country Border / Ffin y Wlad

Blade Tip ZTV / Blaen llafn ZTV

No of Blade Tips Theoretically Visible / Nifer blaenau'r llafn sy'n weladwy yn ddamcaniaethol

1-5	6-10	11-15	16-21
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Blade tip / Blaen llafn	230m	Observer height / Uchder y sylwedydd	2m	Excluded / Eiddwedd	
DTM	OS Terrain 5	Surface features / Ffeithiau arwynebedd	Included / Yn gynnwys		
DTM resolution / Cyfnewid DTM	5m	Earth contours / Cwylodau y ddaear	Included / Yn gynnwys		

Mynydd Mawr

Viewpoint Plan / Cynllun Safbwynt - VP:2
Offa's Dyke Path, Baker's Hill

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Scale / Graddfa:	1:175,000	Drawing Size / Maint lluniadu:	A3	Date / Dyddiad:	06/11/2024
Coordinate System / Cydlyn System:	BNG OS GB 1936 Datum				

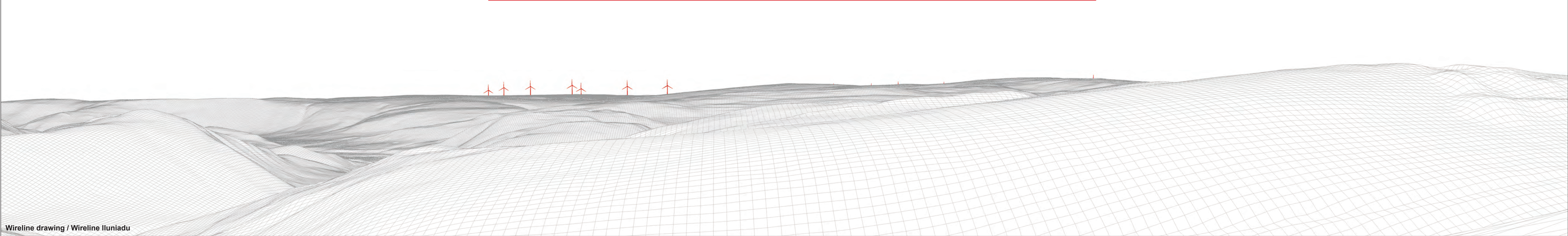
open
optimised environments
PART OF SLR



Baseline photograph / Ffotograff gwaelodlin

This image provides landscape and visual context only / Mae'r ddelwedd hon yn darparu tirwedd a chyd-destun gwledol yn unig

Proposed Development / Datblygiad arfaethedig (13.90km)



Wireline drawing / Wireline lluniadu

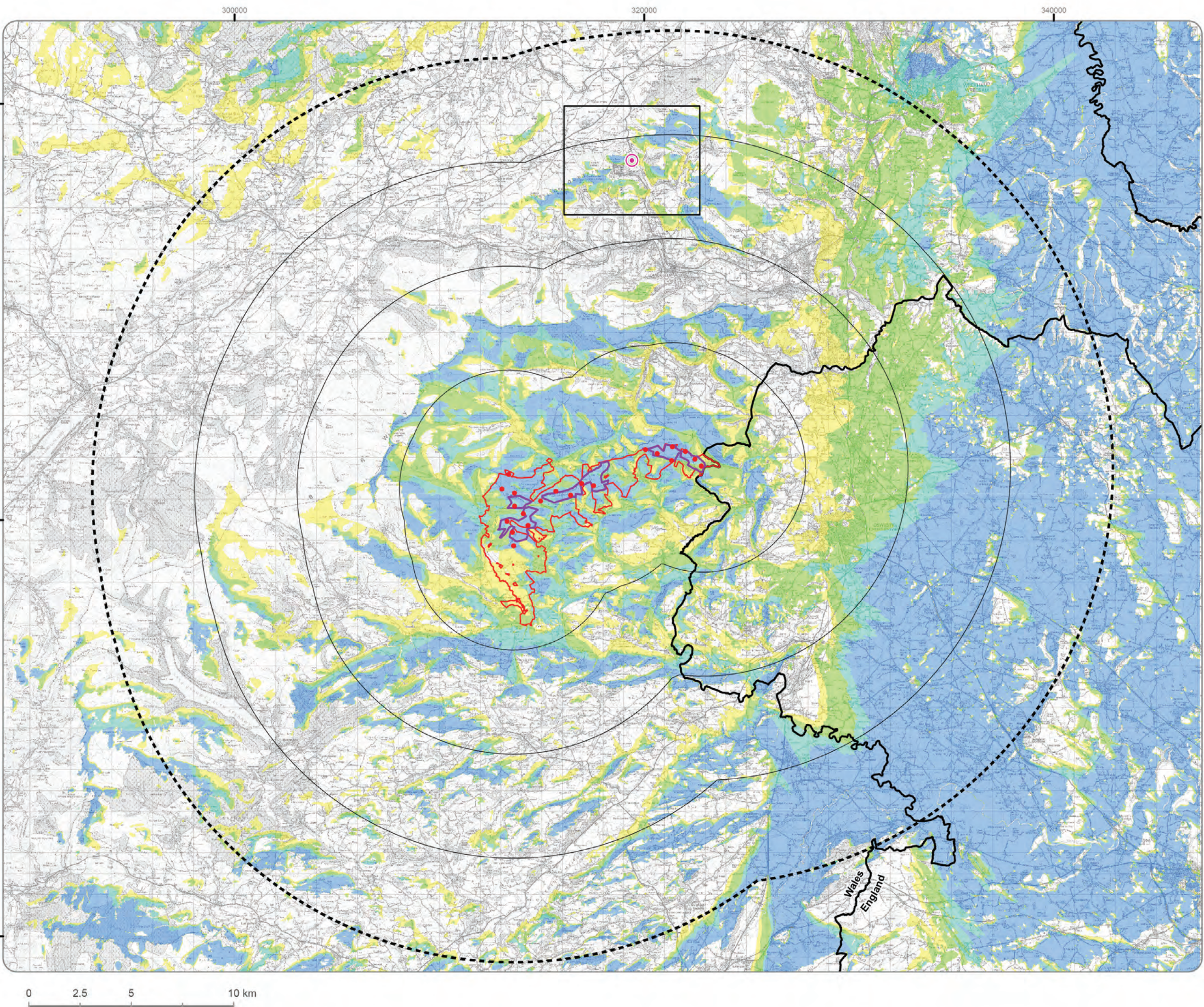
OS reference/ Cyfeirnod OS: 319399 E 347276 N
Eye level/ Lefel llygaid : 410.5 m AOD
Direction of view/ Cyfeiriad yr olygfa: 184°
Nearest turbine/ Tyrbin agosaf: 13.90 km

Horizontal field of view / Maes golygfa llorweddol: 90° (cylindrical projection / tafuniad silindrog)
Principal distance / Peltter prif: 522 mm
Paper size / Maint papur: 841 x 297 mm (half A1/ hanner A1)
Correct printed image size / Maint delwedd printiedig cywir: 820 x 130 mm

Camera: Nikon D610
Lens: 50mm f/1.8
Camera height / Uchder camera: 1.5 m
Date and time / Dyddiad ac amser: 13/09/2024 10:12

Viewpoint / Safbwynt 3: A542_Horseshoe Pass
Mynydd Mawr

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- Legend / Chwedi**
- Proposed Turbine / Tyrbin Arfaethedig
 - Site Boundary / Ffin y Safle
 - Solar Area / Ardal Solar
 - 5km Radii / 5km Radiysau
 - 20km Buffer / 20km Clustog
 - Exhibition Viewpoint / Safbwynt yr Arddangosfa
 - Panorama with Wireline / Panorama gyda Wireline (90°HFOV)
 - Country Border / Ffin y Wlad
- Blade Tip ZTV / Blaen llafn ZTV
- No of Blade Tips Theoretically Visible / Nifer blaenau'r llafn sy'n weladwy yn ddamcaniaethol
- 1-5
 - 6-10
 - 11-15
 - 16-21

Blade tip / Blaen llafn	230m	Observer height / Uchder y sylwddwr	2m
DTM	OS Terrain 5	Surface features / Datblygiadau arwynebol	Excluded / Ddiwyglo
DTM resolution / Cyfnewid DTM	5m	Background noise / Cymysgu cymysgu	Included / Yn gynnwys

Mynydd Mawr

Viewpoint Plan / Cynllun Safbwynt - VP:3
A542, Horseshoe Pass_AONB

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Coordinate System / Cydlyn System:	BNG OS GB 1936 Datum				



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GALILEO empower Community Offering



GALILEO empower is committed to developing projects that deliver substantial and tangible benefits locally and foster strong community relations.

Our responsible approach towards project development will ensure that Mynydd Mawr Energy Park is delivered in a way that's good for our neighbours, the surrounding environment, and the local community.



Examples of these can be found here:

Community Wealth Fund

If consented the project will offer £5,000 per installed MW (index linked) each year for the lifetime of the energy park.

We will work with local community groups and potential local delivery partners to explore how this fund could be set up and delivered.

Shared Ownership

Welsh Government has a target for 1.5 GW of renewable energy generation to have local and shared ownership by 2035.

We will support the Welsh Government's target by offering ownership options in Mynydd Mawr Energy Park of up to 10% – where the profits generated by an ownership stake can be used to benefit the community.

Renewable Energy Discount Scheme

Local electricity discount schemes can be designed to provide an annual discount on the electricity bills of consumers living near renewable energy projects. We are keen to explore the potential for discounting energy bills for those properties in communities closest to the energy park and welcome any initial thoughts on this.

Construction Community Fund

A fund will be available to local groups and organisations to help offset any inconvenience caused during the construction period.

Local Supply Chain

We are keen to work with the local supply chain wherever possible to deliver the services, components and materials we need for this project. If you are a local business interested in being a potential supplier to us, please get in touch.

Indicative Timeline

As Mynydd Mawr Energy Park will have a capacity between 10 and 350MW, it is classed as a Development of National Significance (DNS) under the Planning (Wales) Act 2015.

The planning application will be made to Planning and Environment Decisions Wales (PEDW). PEDW will examine the application and make a recommendation to Welsh Ministers, who will then take the final decision.

Although Powys County Council and Wrexham County Borough Council will not determine the planning application, they are key statutory consultees and will prepare a Local Impact Report. Galileo aim to work closely with both local authorities to maximise local benefits and minimise impact for local communities.



Autumn 2024
Informal Consultation

Community consultation on early-stage indicative plans from 13 November 2024 to 18 December 2024.

Spring/Summer 2025

Review feedback, undertake further surveys and assessments and refine initial site design.

Spring 2026

Submit planning application to PEDW.

Spring 2023 – ongoing

Environmental surveys underway

Winter 2024

Environmental Impact Assessment (EIA) Scoping Request submission to Planning and Environment Decision Wales (PEDW)*.

Autumn/Winter 2025

Statutory pre-application consultation on the draft planning application and Environmental Statement.

2027

Decision expected by Welsh Ministers.

Please note: These dates may be subject to change.

A Scoping Request will be submitted to PEDW in early 2025. The response from this, together with the feedback collected during this consultation, will inform how the proposal evolves.

There will be a second consultation event in 2025 to update you on the project before we submit a planning application. The Draft Environmental

Statement will be presented at the next consultation. This will contain the results of all the surveys and studies carried out as part of the Environmental Impact Assessment and will outline our plans to mitigate potential impacts. There will be an opportunity for the public to submit comments to Welsh Ministers once the application has been submitted.

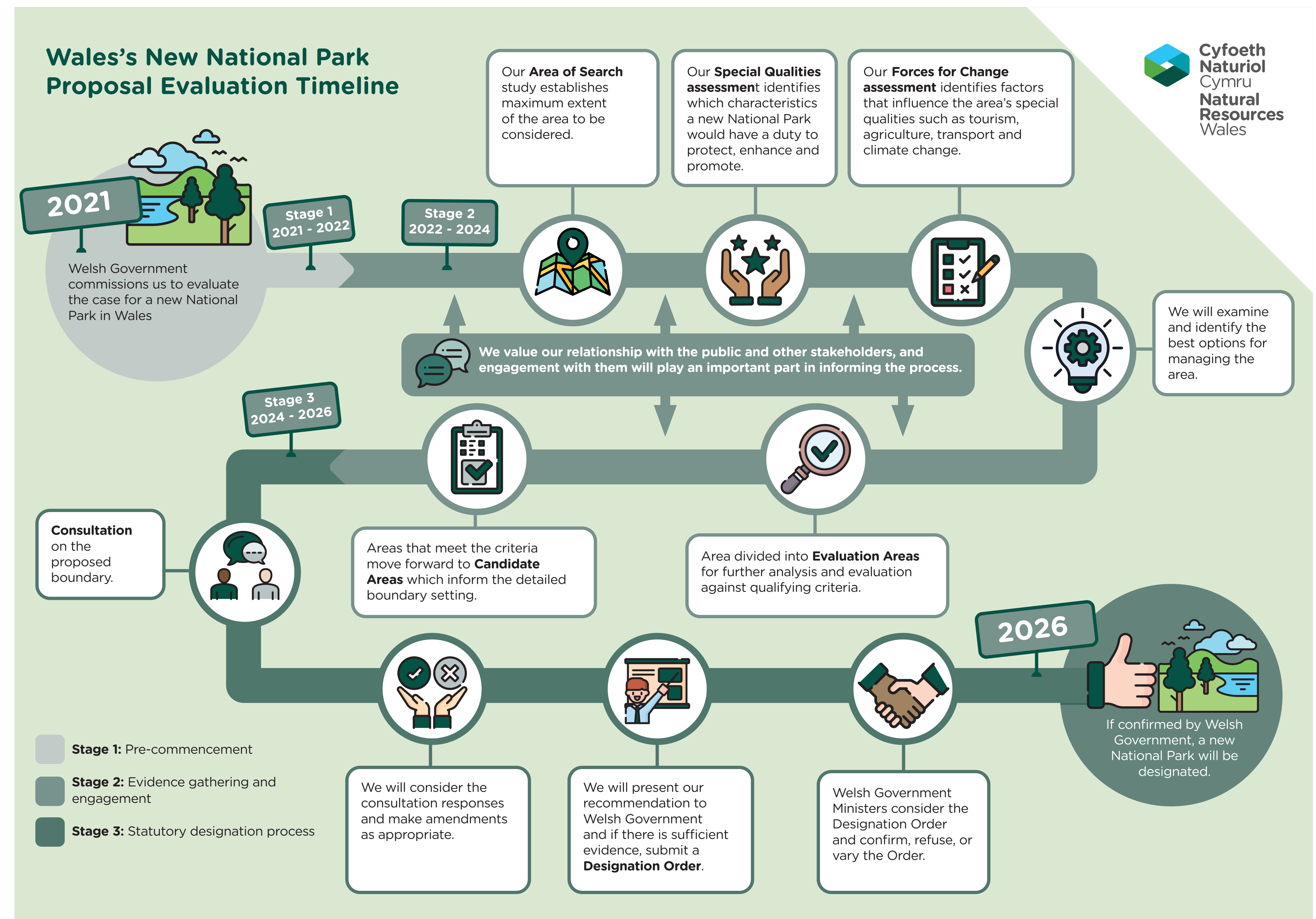
* A Scoping Request seeks to obtain from PEDW the scope and level of detail of information that needs to be provided in the Environmental Statement.

Proposed New National Park

The Mynydd Mawr Energy Park is not located in a National Park.

Natural Resources Wales (NRW) are proposing a new National Park. The Mynydd Mawr site is located within the draft boundary (within the area shown on the Candidate Area Map). NRW are consulting the public and stakeholders on their proposals, this includes consulting on the area shown on their Candidate Area Map.

GALILEO empower is aware of the new National Park proposals and the project team will be engaging with the consultation process in the coming months. The process (see New National Park Proposal Evaluation Timeline) is still at early stages and the site is not at this time within a National Park.



Infographic sourced from Wales 2019s New National Park Proposal - 2023 Engagement.

https://ymgyngori.cyfoethnaturiol.cymru/north-east-gogledd-ddwyrain/new-national-park-proposal-information-page-wales/supporting_documents/Wales%20New%20National%20Park%20Proposal%202023%20Engagement%20Period%20Report%20Natural%20Resources%20Wales.pdf

Thank you for taking your time to visit and read the information at this exhibition for Mynydd Mawr Energy Park.

Leave your feedback

The project is at its early stages, and we want to hear from you. We would very much value your feedback as we seek to review and refine our plans.



**Deadline for feedback:
18 December 2024**

All feedback will be reviewed and considered by GALILEO empower. Your comments may be published in a consultation report. All comments will be anonymised and data handled in accordance with UK-GDPR.

If you want to make comments on the proposal, please fill in the feedback form and leave it in the box provided, or



go online and submit feedback through our website
mynyddmawr-energypark.co.uk



or by post to
FREEPOST TC CONSULTATION

Keeping in Touch

If you have any questions, want more information on the plans or if you would like to discuss the project with the Mynydd Mawr Energy Park team, please get in touch:



mynyddmawr-energypark.co.uk



mynyddmawr@galileoenergy.uk



0800 6990081



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