



Uchelgais Gogledd Cymru
Ambition North Wales

**Flintshire Environment & Economy Overview & Scrutiny
Committee**

Rhaglen Ynni Carbon Isel
Low Carbon Energy Programme

Uchelgais Gogledd Cymru – Ein Partneriaid Ambition North Wales – Our Partners



Amcanion | Objectives

➤ Creu Swyddi | Job Creation

Creu hyd at 4,200 swyddi ychwanegol net
Create up to 4,200 net additional jobs

➤ GVA

Cynhyrchu hyd at £2.4 biliwn GVA ychwanegol
Generate up to £2.4 billion additional GVA

Buddsoddiad | Investment

Targed buddsoddiad
Cynllun Twf
Growth Deal investment

£240m

Targed Cyfanswm
buddsoddiad
Total investment target

dros | over

£1bn

Ynni Carbon Isel Low Carbon Energy

Mae'r rhaglen hon yn datblygu prosiectau ynni carbon isel yn y rhanbarth, gan gryfhau safle Gogledd Cymru fel lleoliad blaengar ar gyfer y sector ynni carbon isel.

This programme develops low carbon energy projects within the region, positioning North Wales as a leading location for the low carbon energy sector.

Hyd at 980 o swyddi
Up to 980 jobs

Galluogi arbedion carbon o 2.7m tonnell
Enable carbon savings of at 2.7m tonnes

Targed Buddsoddiad o £668.5m
Target Investment of £668.5m

North Wales Growth Deal - Low Carbon Energy Programme

Cynllun Twf Gogledd Cymru – Rhaglen Ynni Carbon Isel



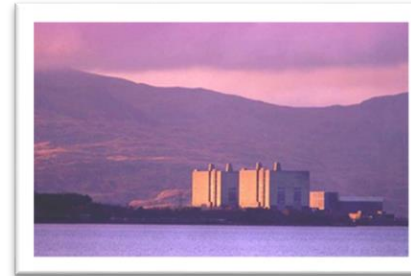
Ynni Lleol Blaengar | Smart Local Energy

Cynllun Twf | Growth Deal: £25m



Hwb Hydrogen | Hydrogen Hub

Cynllun Twf | Growth Deal £11.4m



Trawsfynydd

Cynllun Twf | Growth Deal: £20m



Cydnerth (Morlais)

Cynllun Twf | Growth Deal: £9m



Egni

Cynllun Twf | Growth Deal: £4m



£25m Cronfa Ynni Lleol Blaengar - **Lansio yn gynnar yn 2024**

£25m Smart Local Energy Fund - **Launching early 2024**

Nod: cefnogi prosiectau yng ngogledd Cymru dros gyfnod o 5 mlynedd sy'n ceisio datgarboneiddio systemau ynni a gwres a all ddarparu swyddi, buddsoddiad a buddion lleol.

Mathau o brosiectau:

- Datrysiadau i ddatgarboneiddio gwres ac ynni mewn adeiladau masnachol a phrosesu gweithgynhyrchu (e.e. Solar PV, Pympliau Gwres, gwefru ceir trydan, storio ynni a gwelliannau ffabrig i adeiladau)
- Systemau Ynni Lleol Clyfar (atebion arloesol i gynhyrchu, rheoli a masnachu ynni yn lleol)
- Prosiectau Ynni Cymunedol (e.e. Gwynt, Solar, Hydro, gwresogi)

I ddechrau, bydd y gronfa gyfalaf yn cynnwys 3 is-gronfa yn cael eu dosbarthu yn bennaf trwy benthyciadau a grant:

Third Sector Sub-Fund

Supporting third sector clean energy projects

Business Sub-Fund

Supporting SMEs decarbonise and deliver clean energy projects

Large Scheme Sub-Fund

Investing in larger energy-related projects based in North Wales to enable local ownership and address market failures

Aim: support projects in North Wales over a 5-year period looking to decarbonise energy and heat systems that can deliver jobs, investment and local benefits.

Types of projects:

- Solutions to decarbonise heat and energy in commercial premises and manufacturing processes (e.g. Solar PV, Heat Pumps, EV charging, battery storage and fabric improvements to buildings)
- Smart Local Energy Systems (innovative solutions to generate, manage and trade energy locally)
- Community Energy Projects (e.g. Wind, Solar, Hydro, district heating)

The capital fund will initially consist of 3 sub-funds predominantly issued through debt and grant:



Her Ariannu Hydrogen - **Lansio Hâf 2023**

Hydrogen Sponsor Challenge - **Launching Summer 2023**

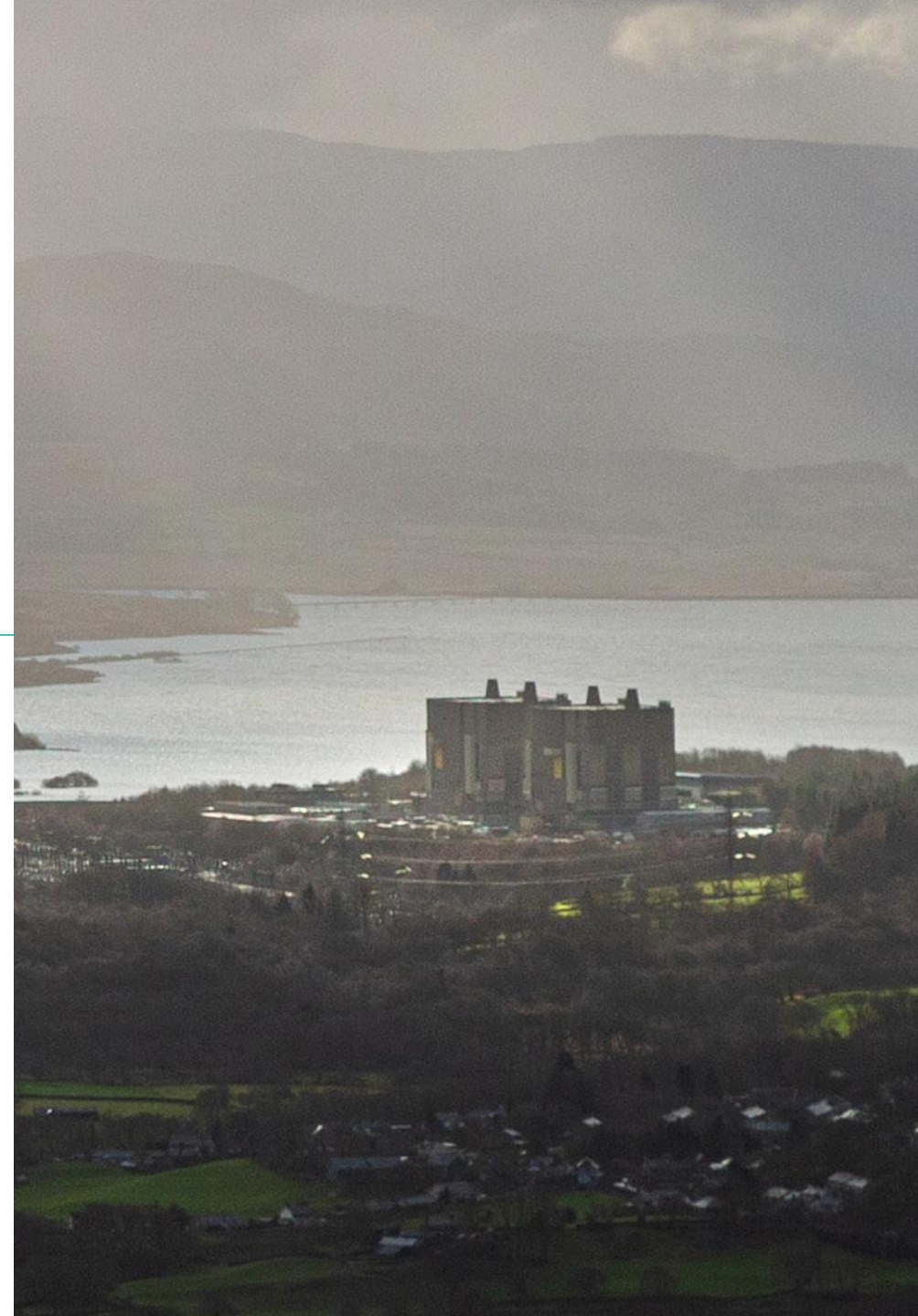
- Nod: Cychwyn yr economi hydrogen yng Ngogledd Cymru drwy ddatblygu hwb hydrogen
 - Cam nesaf: penodi noddwr i ddatblygu a darparu canolfan hydrogen yn y rhanbarth
 - £11.2m o gyfalaf tuag at alluogi'r galw am hydrogen
 - Troi sefydliadau sy'n defnyddio tanwydd ffosil heddiw yn gwsmeriaid hydrogen yfory
-
- Aim: Kick-start the hydrogen economy in North Wales through developing a hydrogen hub
 - Next step: appoint a sponsor to develop and deliver a hydrogen hub in the region
 - £11.2m of capital towards enabling demand for hydrogen
 - Convert today's fossil-fuelled organisations into hydrogen customers of tomorrow



Trawsfynydd

- **Sponsor:** Cwmni Eginio
- **Growth Deal funding:** £20m
- **Aim:** support the deployment of Small Modular Reactors at the Trawsfynydd site to generate low carbon energy. The Growth Deal will contribute towards project development costs and infrastructure, helping to create jobs as well as position North Wales as a leading location for a technology that has significant potential for deployment across the UK and internationally
- **Next steps:** develop the business case for how Growth Deal funding can support the project's progress to final investment decision

- **Noddwr:** Cwmni Eginio
- **Cyllid y Cynllun Twf:** £20m
- **Nod:** cefnogi'r defnydd o Adweithyddion Modiwlwr Bach ar safle Trawsfynydd i gynhyrchu ynni carbon isel. Bydd y Cynllun Twf yn cyfrannu at gostau datblygu prosiectau a seilwaith, gan helpu i greu swyddi yn ogystal â gosod Gogledd Cymru fel lleoliad blaenllaw ar gyfer technoleg sydd â photensial sylweddol i'w defnyddio ledled y DU ac yn rhyngwladol.
- **Camau Nesaf:** datblygu yr achos fusnes ar gyfer sut fydd cyllid y Cynllun Twf yn cefnogi cynnydd y prosiect tuag at benderfyniad buddsoddi terfynol.



Cydnerth (Morlais)

- **Sponsor:** Menter Môn Morlais
- **Growth Deal funding:** £9m
- **Aim:** Increase the connection between the Morlais tidal demonstration zone with the electricity grid system, enabling developers of tidal stream technology to deploy their devices in the zone. Once the infrastructure is in place, it will use some of the best tidal resources in Europe.
- **Next steps:** submit the outline business case in October 2023 ahead of construction in 2024/2025

- **Noddwr:** Menter Môn Morlais
- **Cyllid y Cynllun Twf:** £9m
- **Nod:** Cynyddu'r cysylltiad rhwng parth arddangos llanw Morlais â'r system grid trydan, gan alluogi datblygwyr technoleg llif llanw i osod eu dyfeisiau yn y parth. Unwaith y bydd y seilwaith yn ei le, bydd yn defnyddio rhai o'r adnoddau llanw gorau yn Ewrop.
- **Camau nesaf:** cyflwyno yr achos fusnes amlinellol yn Hydref 2023 cyn adeiladu yn 2024/25.



Egni

- **Sponsor:** Bangor University
- **Growth Deal funding:** £4m
- **Aim:** invest in developing a Low Carbon Energy Centre of Excellence at M-SParc, enhancing the region's capabilities for research, design and innovation in low carbon energy. It will provide opportunities for further research, supply chain development and attract inward investment
- **Next steps:** submit the outline business case in October 2023 ahead of construction in early 2025

- **Noddwr:** Prifysgol Bangor
- **Cyllid y Cynllun Twf:** £4m
- **Nod:** buddsoddi mewn datblygu Canolfan Ragoriaeth Ynni Carbon Isel yn M-SParc, gan wella galluoedd y rhanbarth ar gyfer ymchwil, dylunio ac arloesi ym maes ynni carbon isel. Bydd yn darparu cyfleoedd ar gyfer ymchwil pellach, datblygu cadwyn gyflenwi a denu mewnfuddsoddiad.
- **Camau nesaf:** cyflwyno yr achos fusnes amlinellol yn Hydref 2023 cyn adeladu yn 2025



Diolch yn fawr
Thank you

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