

APSE Wales Renewable Energy & Climate Change Advisory Group

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Public Service Excellence**





Uchelgais Gogledd Cymru
Ambition North Wales

APSE Event

30th May 2023

Ambition North Wales Update

- 1. North Wales Growth Deal: Low Carbon Energy Programme**
- 2. Regional Energy Strategy**
- 3. Local Area Energy Planning in North Wales**



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 tonnelli
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



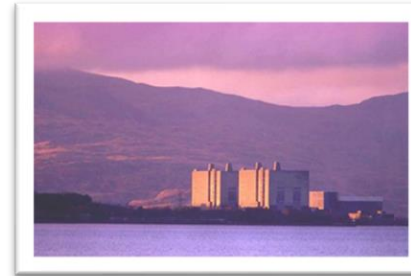
Egni

Cynllun Twf | Growth Deal: £4m



Hwb Hydrogen | Hydrogen Hub

Cynllun Twf | Growth Deal £11.4m



Trawsfynydd

Cynllun Twf | Growth Deal: £20m



Cydnherth (Morlais)

Cynllun Twf | Growth Deal: £9m



Ynni Lleol Blaengar | Smart Local Energy

Cynllun Twf | Growth Deal: £25m



£25m Smart Local Energy Fund

Launching early 2024

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:

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



Hydrogen Sponsor Challenge

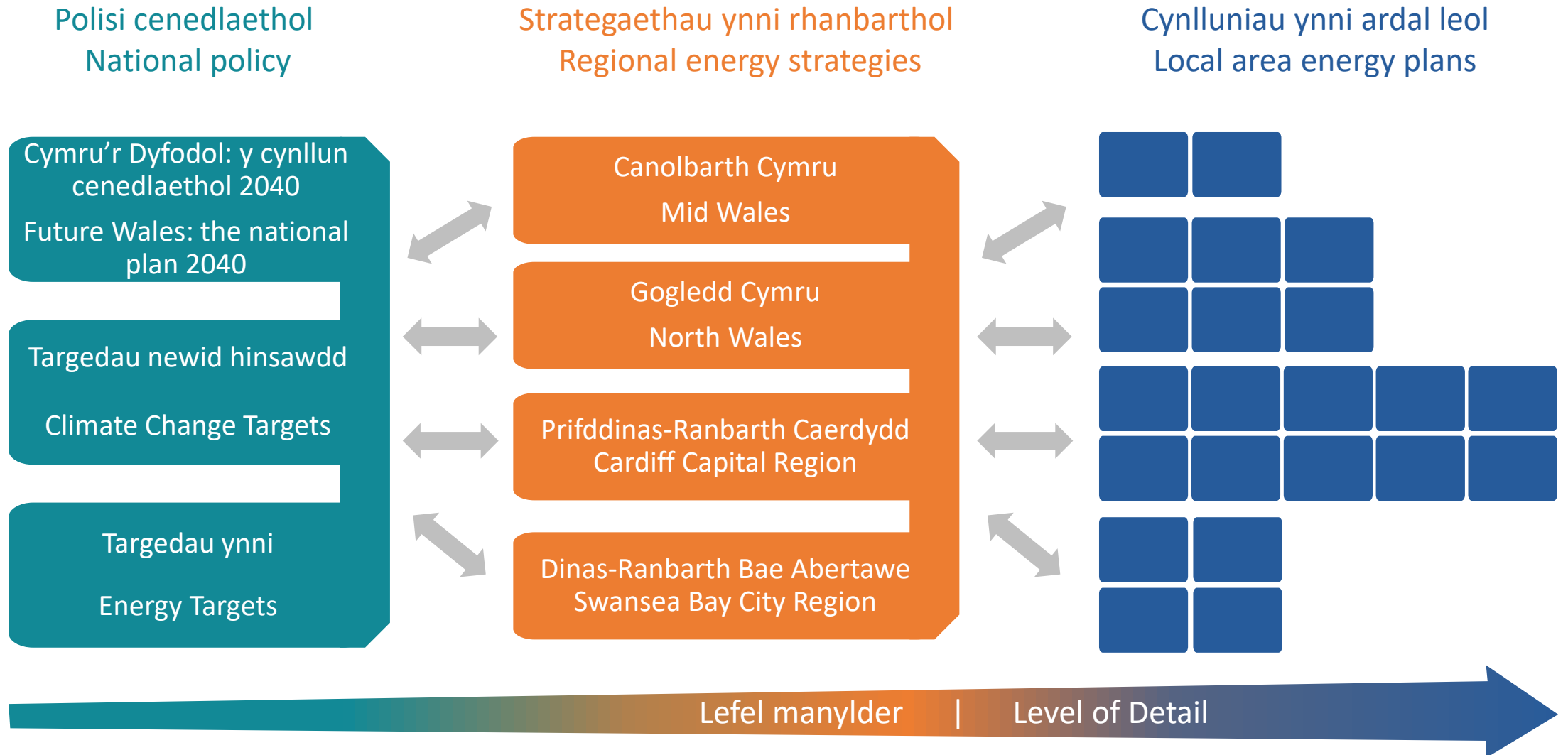
Launching Summer 2023

- 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
- £11.4m of capital towards enabling demand for hydrogen
- Convert today's fossil-fuelled organisations into hydrogen customers of tomorrow



Cynllunio ar gyfer system ynni carbon isel sy'n fwy integredig

Planning for a more integrated low carbon energy system

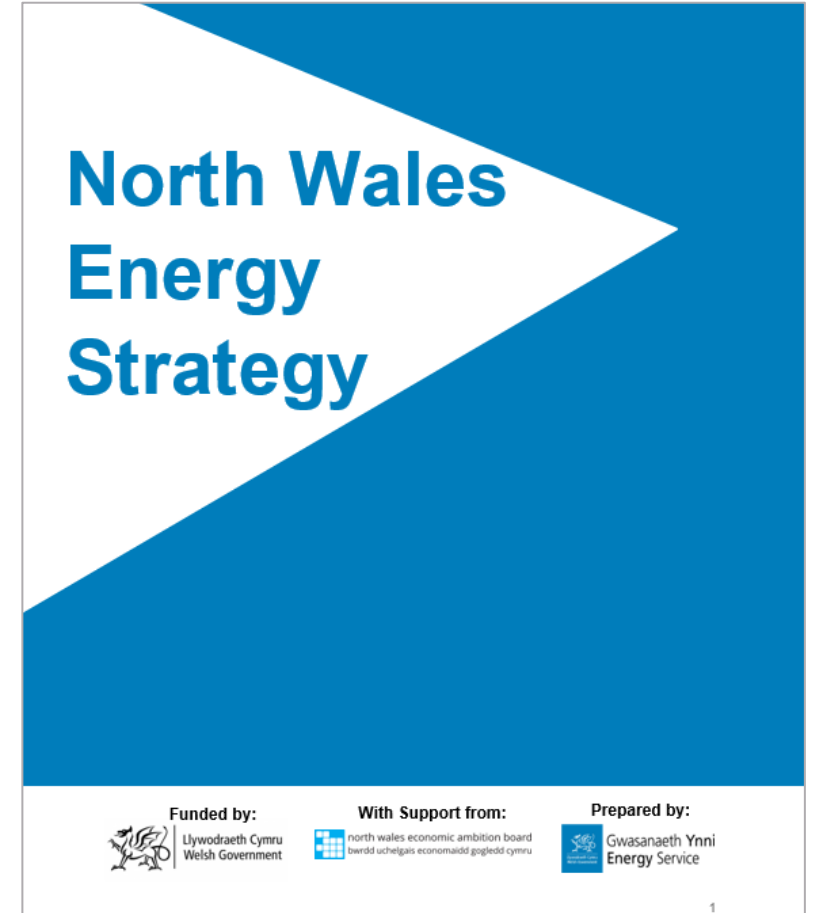


North Wales Energy Strategy

Vision: Delivering maximum local economic, social, ecological and wellbeing benefits from transitioning to a net zero economy

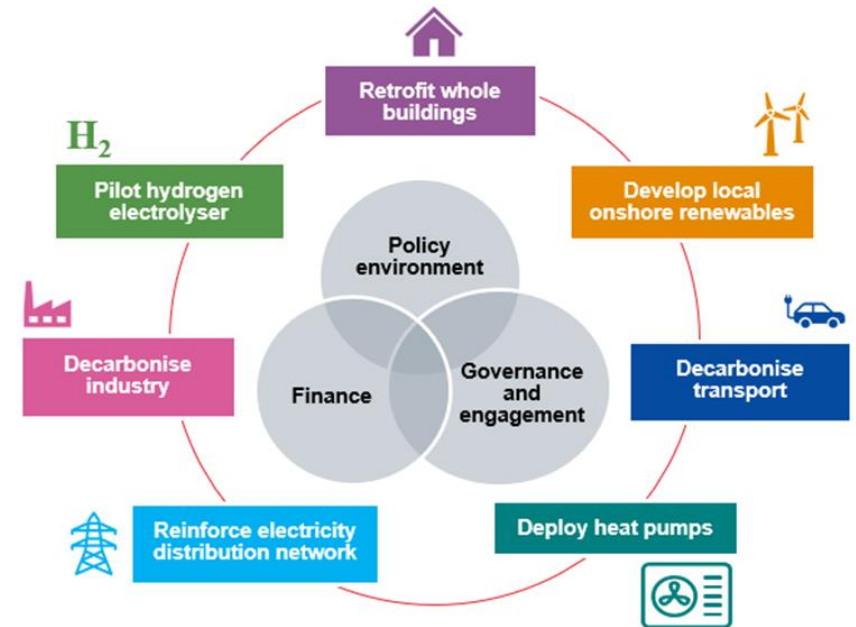
Achieving our net zero energy vision for North Wales: need to reduce emissions from its energy system by 55% by 2035, split by sector in the pathway modelled as follows:

1. 57% reduction in domestic heat and power emissions
2. 54% reduction in commercial and industrial emissions
3. 55% reduction in road transport emissions.



Local Area Energy Planning in North Wales

- **Local Area Energy Planning (LAEP)** is a *data driven and whole energy system, evidence-based* approach that sets out to *identify the most effective route* for the local area to contribute towards meeting *net zero targets*
- LAEPs outline what is required from key stakeholders such as the energy sector, local and national government, and the local community, but also what finance, governance and policies are required to ensure success
- LAEPs for each local authority area, coordinated by Ambition North Wales, funded by Welsh Government & delivered by Arup & Carbon Trust



Priority intervention areas (simplified Pembrokeshire example)

Diolch yn fawr
Thank you

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