

Sero net yn ymarferol: sector cyhoeddus Cymru

Net zero in practice: Wales' public sector

Cardiff Metropolitan University
17 Mehefin / June 2026

Agenda

Time	Item
To 10:00	Arrival and Registration
10:00-10:10	Welcome and Introduction from Salix chair Ian Rodger – Salix
10:15 – 10:30	Service delivery for the public sector Salix
10:30 -10:55	Summary of WGES work Sam Wright-Green – Welsh Government Energy Service
11:00-11:30	Break
11:35 – 11:50	Cwm Taf Morgannwg University Health Board Christopher Lewis
11:55 – 12:10	Swansea Council Simon Aspland
12:15 – 12:25	Funding net zero Salix

Time	Item
12:30 – 13:30	Lunch
13:30 – 13:40	Who's your carbon hero? Kely Togba- Salix
13:40 - 13:55	Optimising your electric vehicles Jim Cardy – Welsh Government Energy Service
14:00 – 14:15	Cardiff Metropolitan University Graham Lewis
14:20-14:35	Rhondda Cynon Taf County Borough Council Katie Trembath and Ffion Edwards
14:40 – 15:20	Breakout – Challenges and constraints for project development Salix
15:20 – 15:30	Closing
15:30	End of day

Why are we here?

Pam rydyn ni yma?

Cofnodi diwrnod poethaf Mai erioed wrth gyrraedd 32.9C



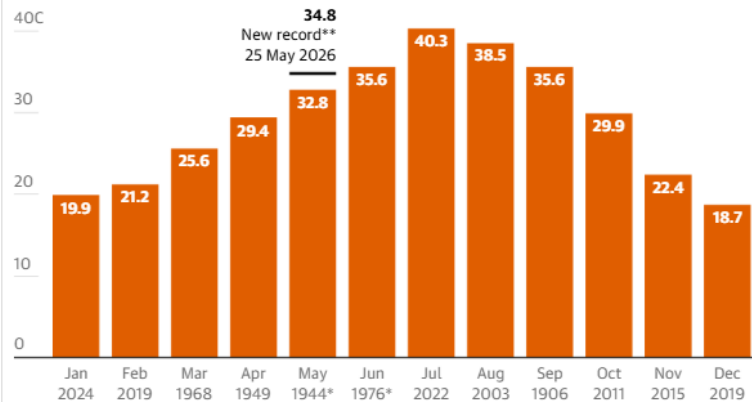
26 Mai 2026

Dydd Mawrth ydy'r diwrnod poethaf ar gofnod ar gyfer mis Mai, gyda record newydd am yr ail diwrnod yn olynol.

Cafodd tymheredd o 32.9C ei gofnodi ym Mharc Bute yng Nghaerdydd, y diwrnod cynhesaf hyd yma eleni.

Monthly record temperatures

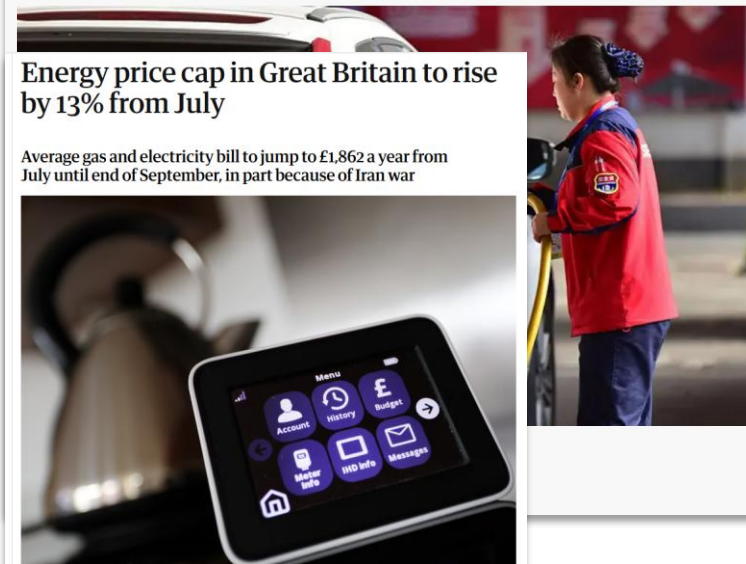
■ Highest temperature recorded in each month, prior to May 2026



Guardian graphic. Source: Met Office. * Most recent years. 32.8C was also recorded in May 1922 and 35.6C was also recorded in June 1957. ** Provisional.

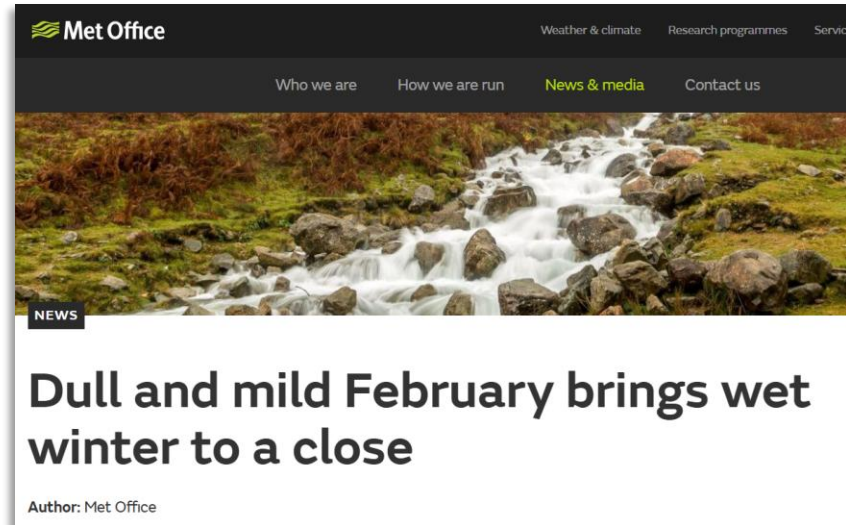
Records have
been broken /
Mae recordiau wedi
eu torri

Oil price hits highest since 2022 after report Trump to be briefed on new Iran options



Energy price cap in Great Britain to rise by 13% from July

Average gas and electricity bill to jump to £1,862 a year from July until end of September, in part because of Iran war



Cannoedd heb drydan wrth i Storm Amy daro Cymru



MATTHEW HORWOOD

Coeden wedi cwympo ar Romilly Road yng Nghaerdydd

4 Hydref 2025

salix

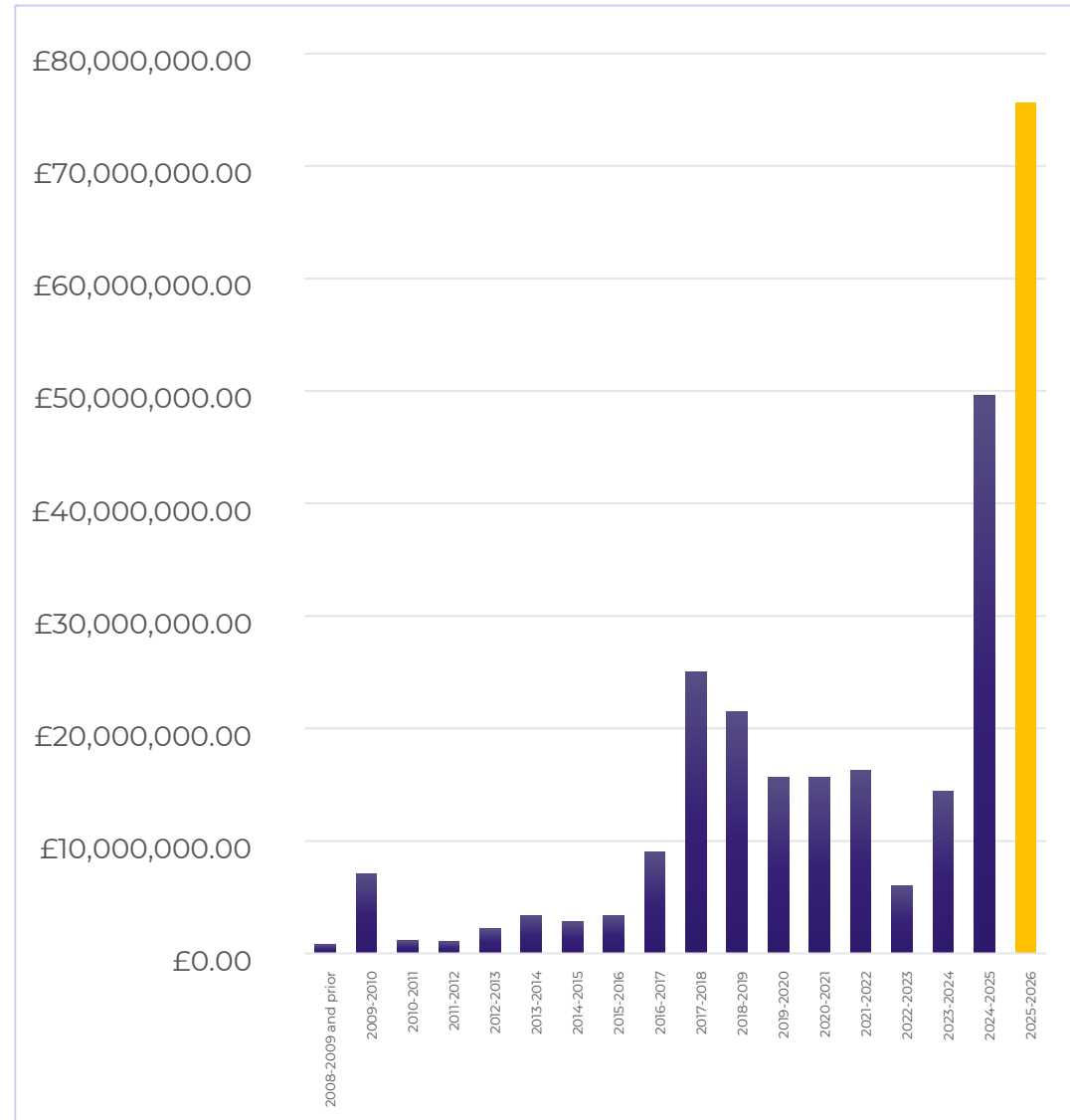
Why are we here?

Pam rydyn ni yma?

**A record-breaking
year for Salix in
Wales**

Blwyddyn hanesyddol
i Salix yng Nghymru

Scheme Cynllun	Value Gwerth
WFP	£6.6m
Invest 2 Save (NHS)	£27.1m
Digarbon 2	£42m
Total Cyfanswm	£75.7m



Why are we here?

Pam rydyn ni yma?

**Reduce energy
costs**

Lleihau costau
ynni

**Reduce carbon
emissions**

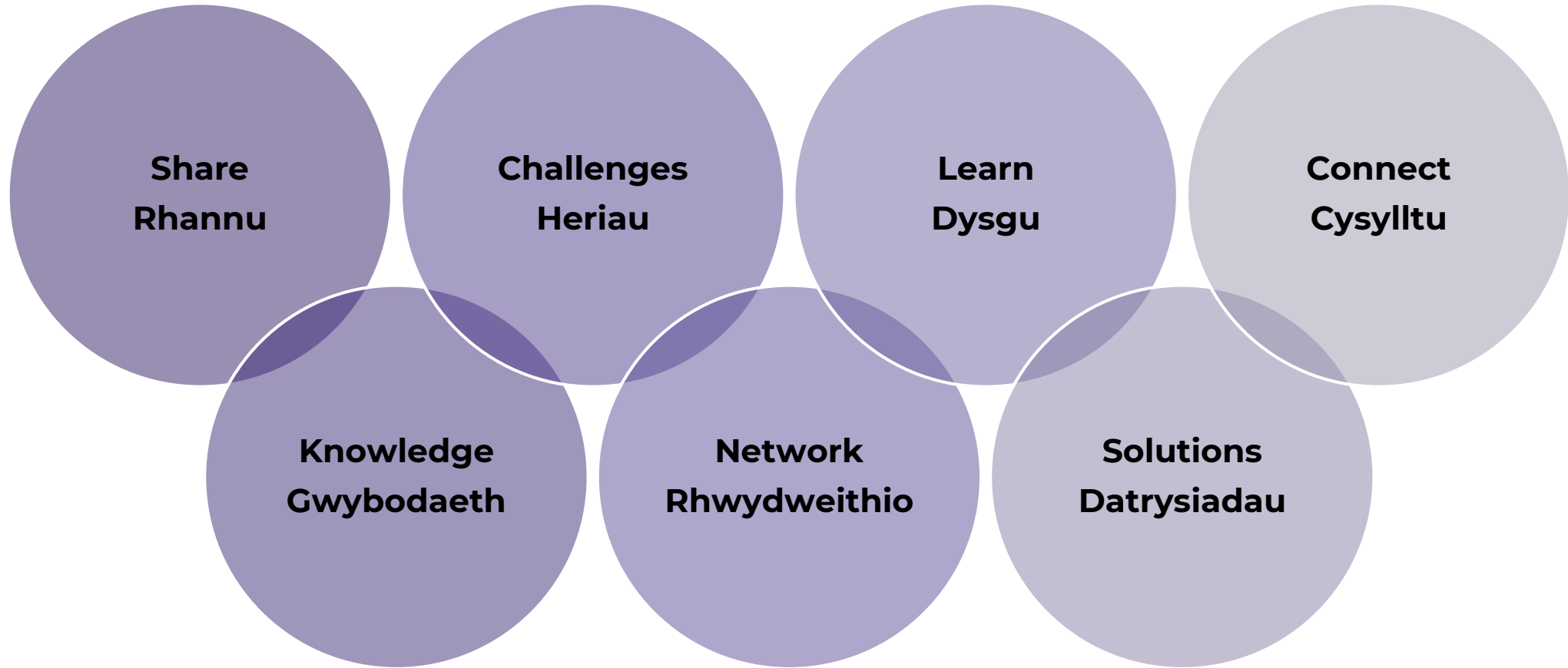
Lleihau
allyriadau
carbon

**Celebrate our
successes**

Dathlu ein
llwyddiannau

Purpose of today

Pwrpas heddiw



Bingo

- Event wide game of bingo
- Find an attendee who fits the criteria to cross off all the points
 - Make a note of their name
 - One person per point
- Let the chair know when you have a full house
- Prize for the winner

Bingo

- Gêm bingo i bawb yn y digwyddiad
- Dewch o hyd i rywun sy'n cyd-fynd â'r meini prawf i ddileu'r holl bwyntiau
 - Gwnewch nodyn o'i enw
 - Ond un person am pwynt
- Rhowch wybod i'r cadeirydd pan fydd gennych chi nhw i gyd
- Gwobr i'r enillydd

Meet your neighbour

Cwrdd â'ch cymydog



Introduce yourself
Cyflwynwch eich hun



What organisation do you work for?
Pa sefydliad ydych chi'n gweithio iddo?



What project or net zero initiative are you most proud of at your place of work?
Pa brosiect neu fenter sero net ydych chi'n fwyaf balch ohono yn eich gweithle?



Darparu gwasanaethau i'r sector cyhoeddus **Service delivery for the public sector**

Salix



Who we are

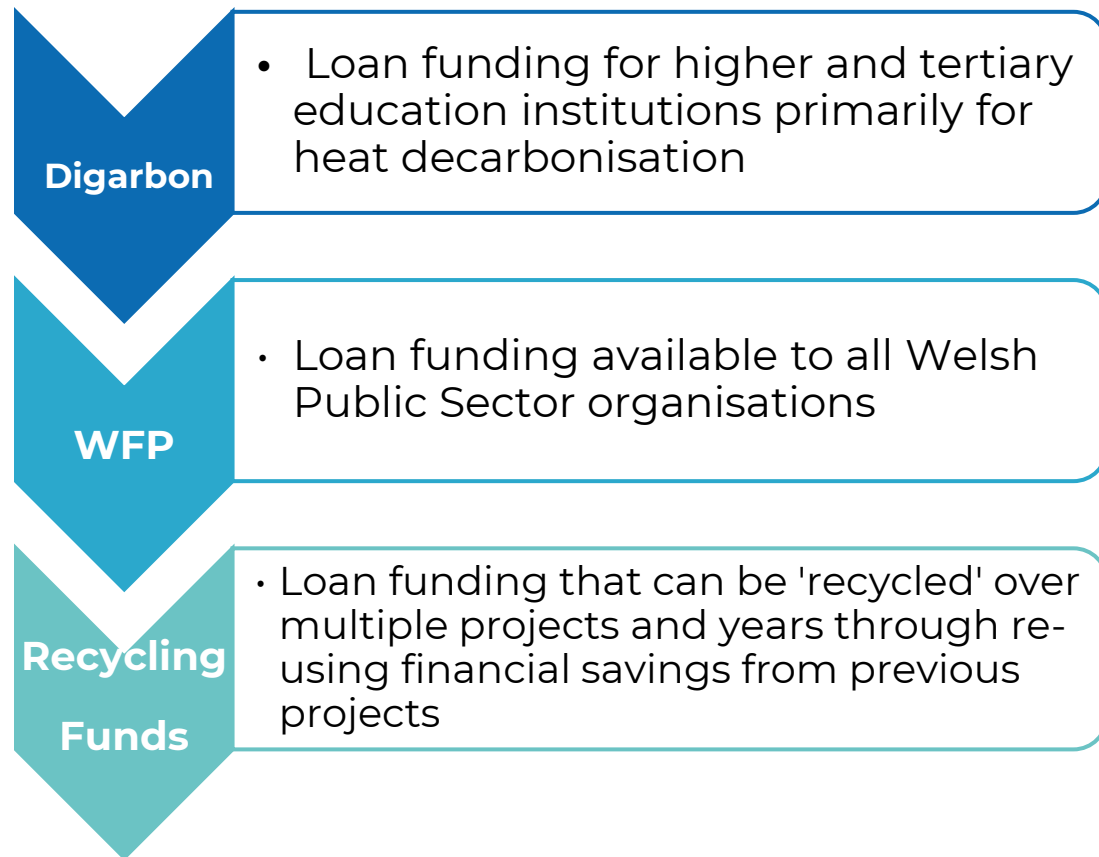
- At Salix, our aim is to deliver decarbonisation, create clean power and lower energy bills for consumers.
- We are a trusted delivery partner to the UK, Scottish and Welsh governments, regional combined authorities and public sector organisations across the country.
- Our mission is to support organisations to lower their energy costs, create warmer and healthier buildings and achieve their net zero ambitions.

Pwy ydym ni

- Yn Salix, ein nod yw cyflawni datgarboneiddio, creu pŵer glân a gostwng biliau ynni i ddefnyddwyr.
- Rydym yn bartner cyflawni dibynadwy i lywodraethau'r DU, yr Alban a Chymru, awdurdodau rhanbarthol cyfunol a sefydliadau'r sector cyhoeddus ledled y wlad.
- Ein cenhadaeth yw cefnogi sefydliadau i ostwng eu costau ynni, creu adeiladau cynhesach ac iachach a chyflawni eu huchelgeisiau sero net.

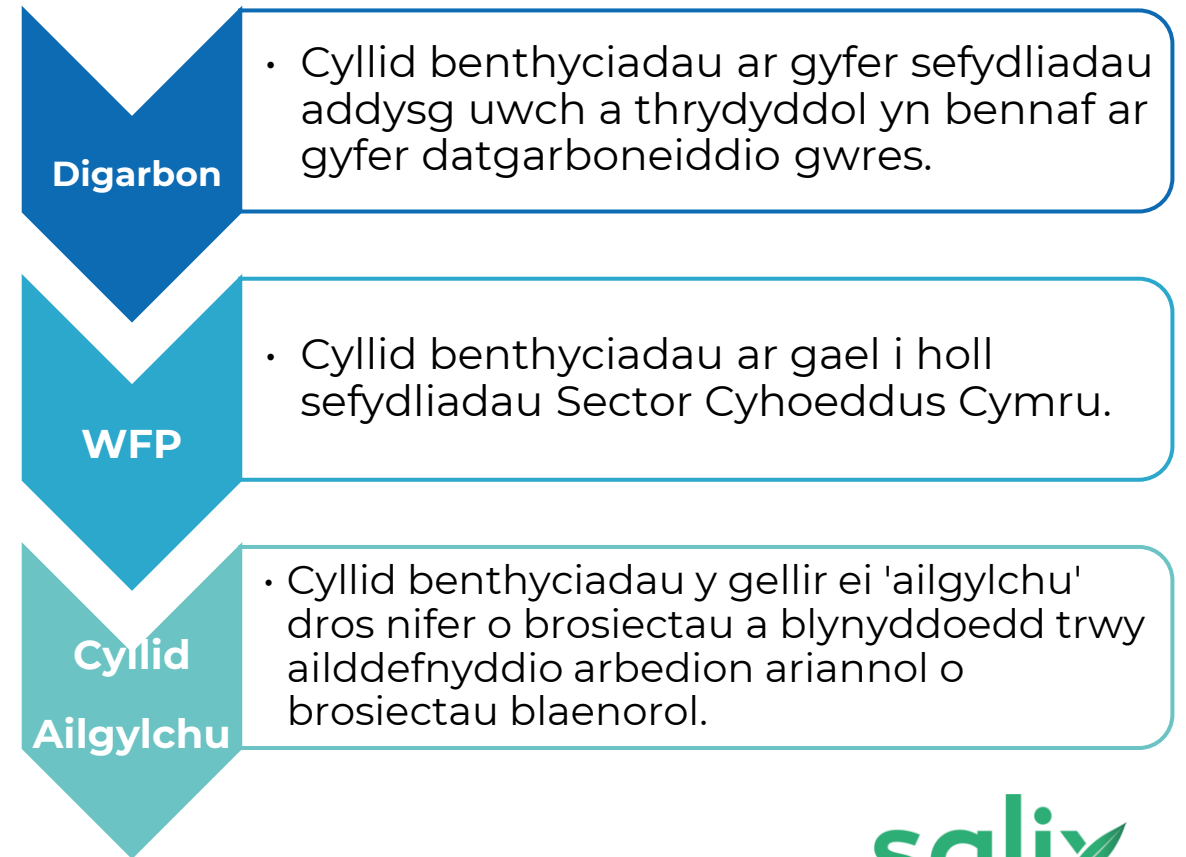
What we do

- Deliver three loan funding schemes available to public sector bodies in Wales:



Beth rydyn ni'n ei wneud

- Darparu tri chynllun cyllid benthyciadau sydd ar gael i gyrff sector cyhoeddus yng Nghymru:



Since 2009...
Ers 2009...

3 funding schemes
delivered
cynllun cyllido wedi
eu cyflawni

1.11m tCO₂e lifetime carbon
savings
arbedion carbon
gydol oes

67 Organisations
supported
sefydliad wedi
eu cefnogi

1,375 projects funded
o brosiectau wedi eu
hariannu

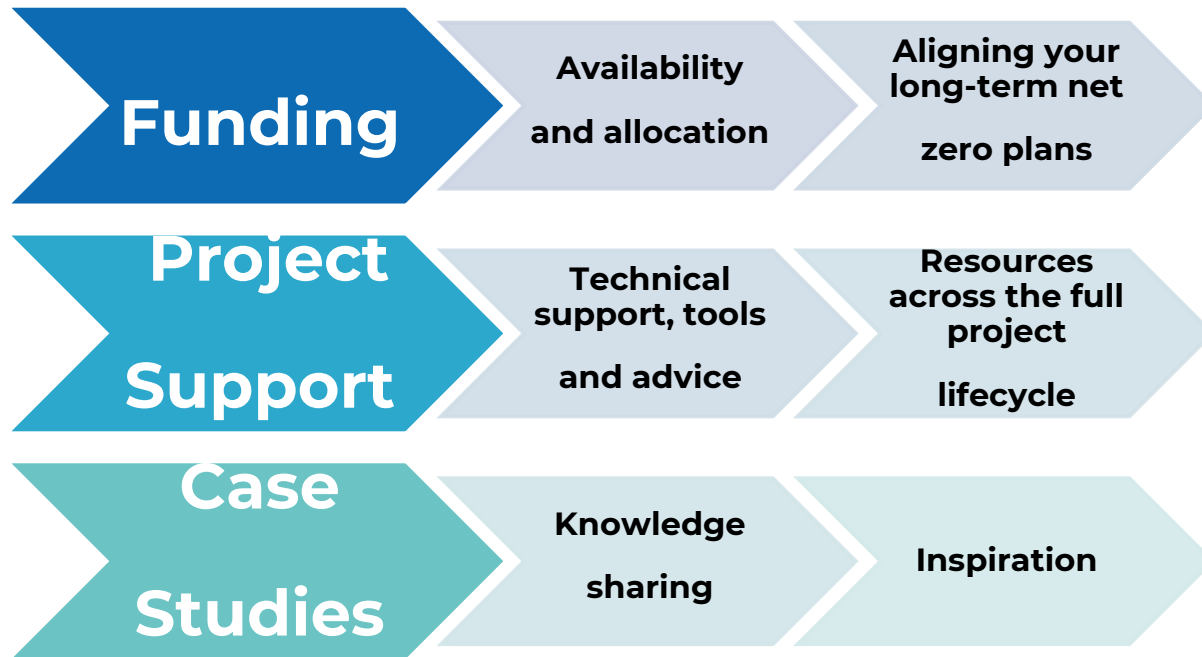
Projects totalling
Prosiectau gwerth cyfanswm o
£200m+

£22.45m

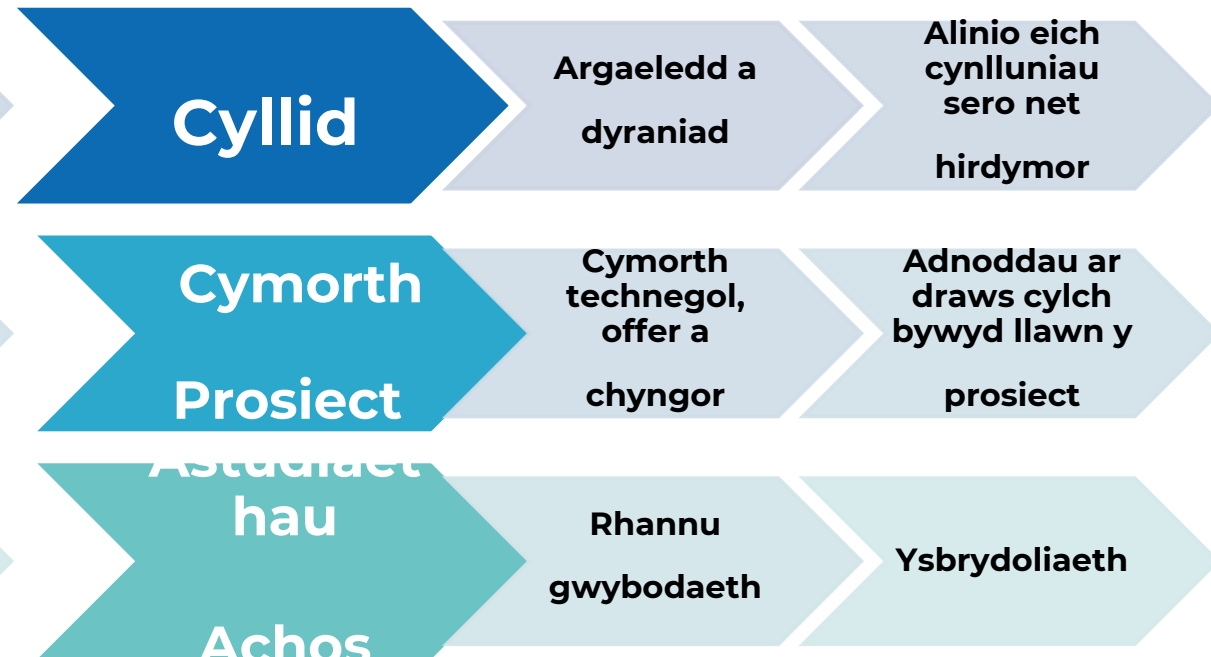
annual cost savings
arbedion cost
blynyddol



Salix – what we offer



Salix – Yr hyn rydyn ni'n ei gynnig



Today's Key Objectives

How we can support you?

- Funding available to you
- Services we offer across the full project lifecycle

Highlighting work across Wales

- Championing your work
- Insight into designing your projects to the multiple funding programmes available

Feedback and discussions

- Help us identify key pain points in project design, delivery, and funding
- Discuss work with your peers across

Wales

www.salixfinance.co.uk

Prif Amcanion Heddiw

Sut y gallwn eich cefnogi?

- Cyllid sydd ar gael i chi
- Gwasanaethau rydym yn eu cynnig ar draws cylch bywyd llawn y prosiect

Amlygu gwaith ledled Cymru

- Hyrwyddo eich gwaith
- Mewnwelediad i ddylunio eich prosiectau i'r nifer o raglenni cyllido sydd ar gael i chi

Adborth a thrafodaethau

- Helpwch ni i nodi'r prif bwyntiau anodd wrth ddylunio, cyflawni a chyllido prosiectau
- Trafod gwaith gyda'ch cymheiriaid

ledled Cymru
salix

Energy and Carbon team

What we do

- Lead on technical aspects of schemes
- Assess applications, change requests and conditions
- Ensure technical feasibility and deliverability
- Review performance plans and M&V

Tîm Ynni a Charbon

Beth rydyn ni'n ei wneud

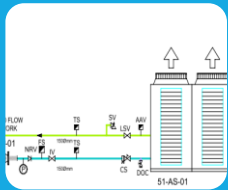
- Arwain ar agweddau technegol ar gynlluniau
- Asesu ceisiadau, ceisiadau am newid ac amodau
- Sicrhau dichonoldeb technegol a chyflawnadwyedd
- Adolygu cynlluniau perfformiad a monitro a gwerthuso

ECT involvement in scheme lifecycle



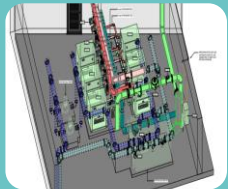
Scheme design & application

- Policy development
- Documentation
- Preparation



Assessment & allocation

- Technical due diligence
- Allocation of funds



Delivery support & technical assurance

- Change requests
- Conditions



Completion

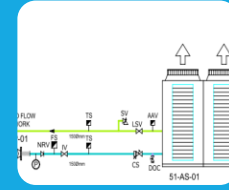
- Completion checks
- Measurement and verification

Cyfranogiad y tim yng nghylch bywyd y cynllun



Dylunio a chymhwyso'r cynllun

- Datblygu polisi
- Dogfennau
- Paratoi



Asesu a dyrannu

- Diwydrwydd dyladwy technegol
- Dyrannu cyllid



Cymorth cyflenwi a sicrwydd technegol

- Ceisiadau am newid
- Amodau



Cwblhau

- Gwiriadau cwblhau
- Mesur a dilysu

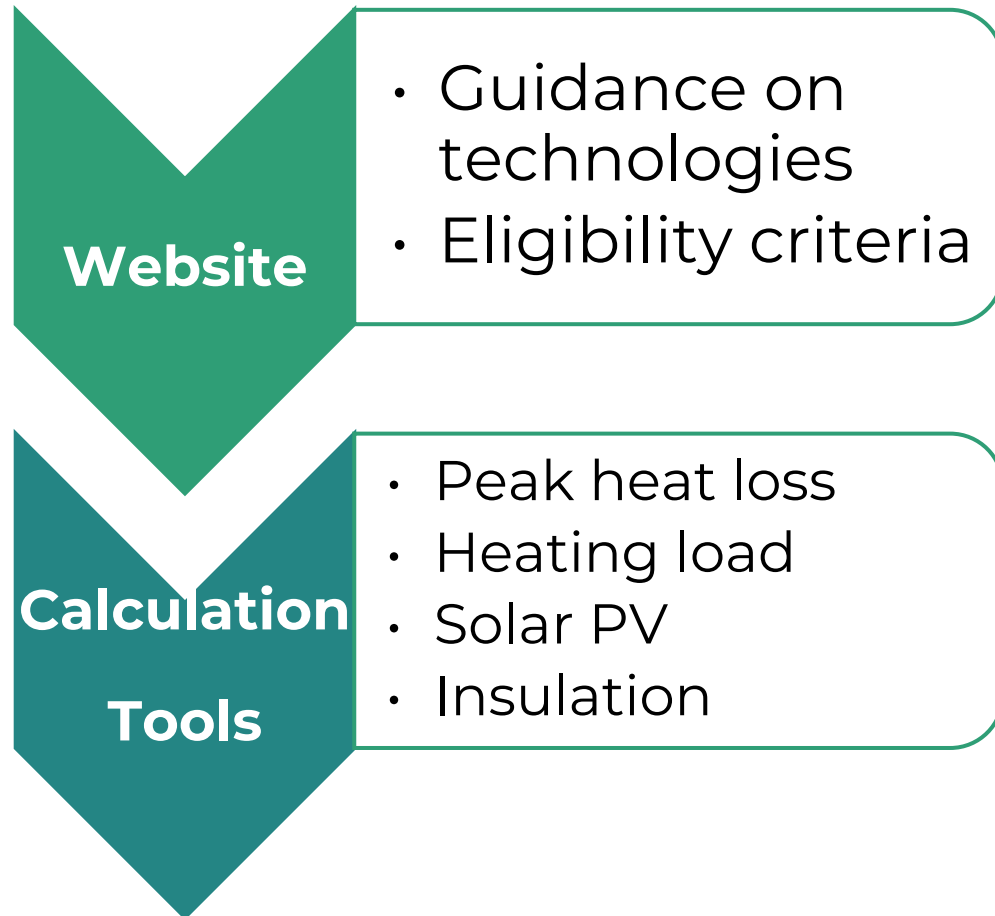
Measurement and Verification

- We measure the avoided energy resulting from heat decarbonisation projects
- This helps us to identify the impact of funding programmes as well as the efficiency of installed systems

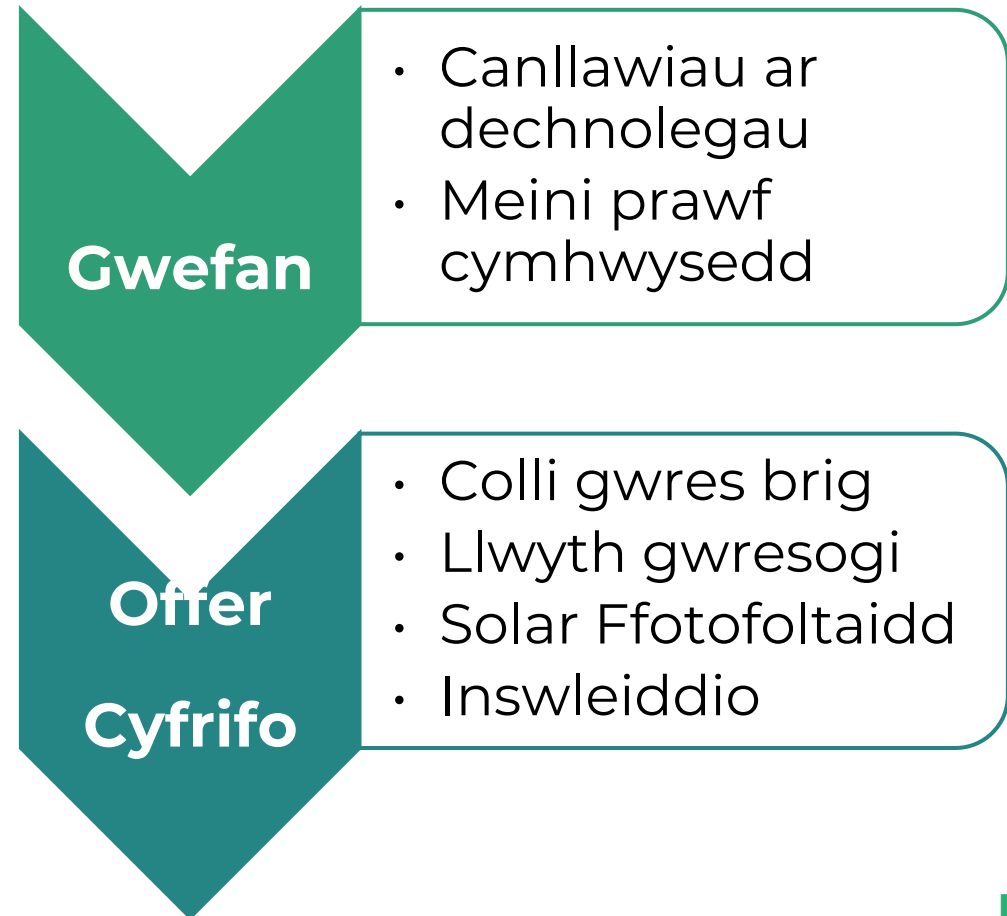
Mesur a Gwirio

- Rydym yn mesur yr ynni sy'n cael ei osgoi sy'n deillio o brosiectau datgarboneiddio gwres
- Mae hyn yn ein helpu i nodi effaith rhaglenni cyllido yn ogystal ag effeithlonrwydd systemau sydd wedi'u gosod

Tools and Resources



Offer ac Adnoddau



Tools and Resources Offer ac Adnoddau

Funding Guidance:

- Guidance notes for each scheme
- Application forms
- Contact details for queries and support

Case Studies

- Real-world examples of funded projects to support learning and best practice

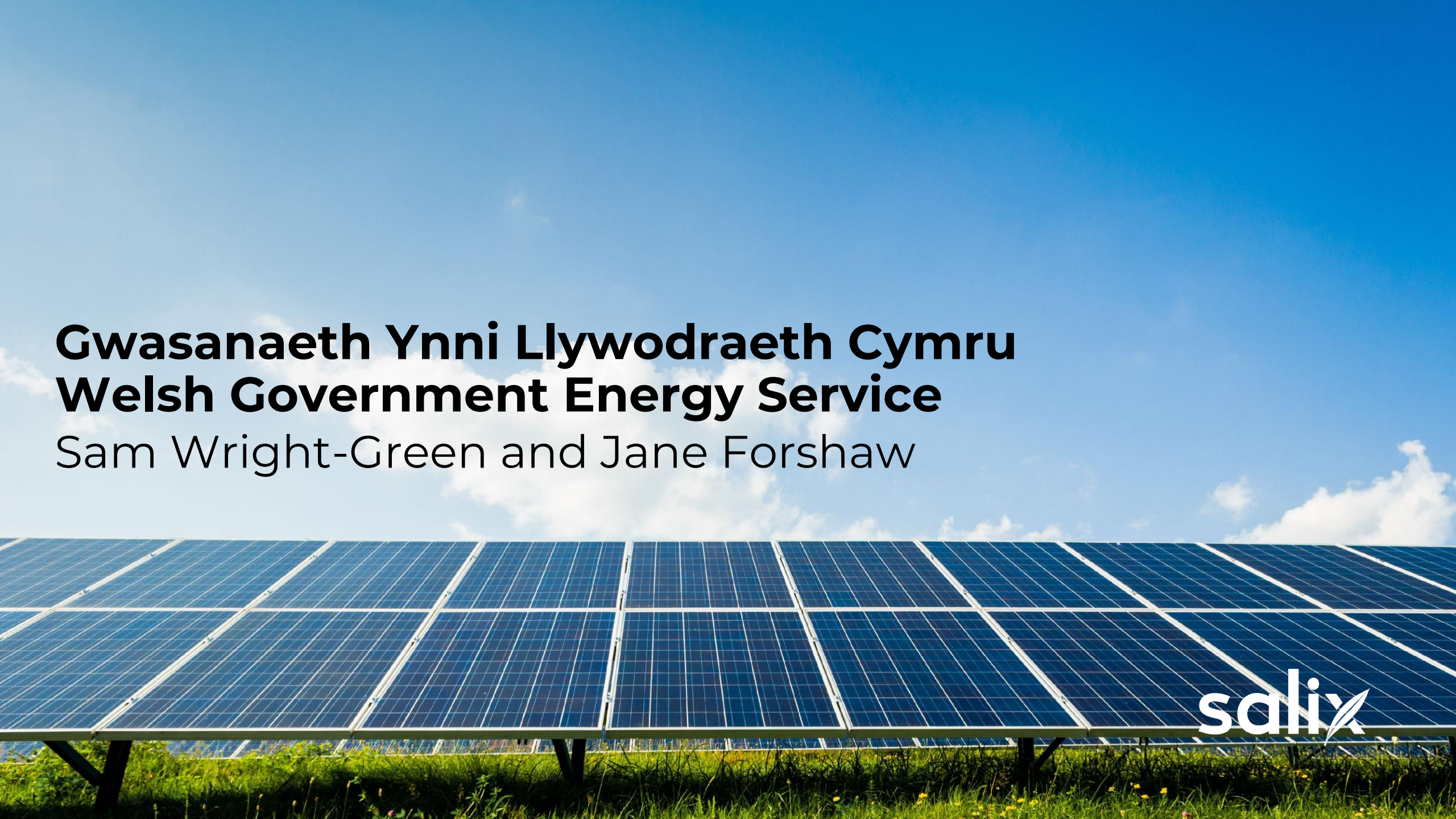
Canllawiau Cyllido:

- Canllawiau ar gyfer pob cynllun
- Ffurflenni cais
- Manylion cyswllt ar gyfer ymholiadau a chymorth

Astudiaethau Achos

- Enghreifftiau o brosiectau yn y byd go iawn a ariennir i gefnogi dysgu ac arfer gorau





Gwasanaeth Ynni Llywodraeth Cymru **Welsh Government Energy Service**

Sam Wright-Green and Jane Forshaw

salix



Gwasanaeth Ynni
Energy Service

Cefnogi ymdrech Cymru i greu economi sero net llwyddiannus
Supporting Wales' drive to a successful net zero economy

Gwasanaeth Ynni Energy Service

Sero Net yn Ymarferol- Digwyddiad Cymru 2026
Net Zero in Practice - Wales event 2026



Gwasanaeth Ynni Energy Service

Cefnogi ymdrech Cymru i greu economi sero net llwyddiannus
Supporting Wales' drive to a successful net zero economy

1. Cyd-destun argyfwng hinsawdd 1. Climate emergency context

New report suggests more global temperature records ahead

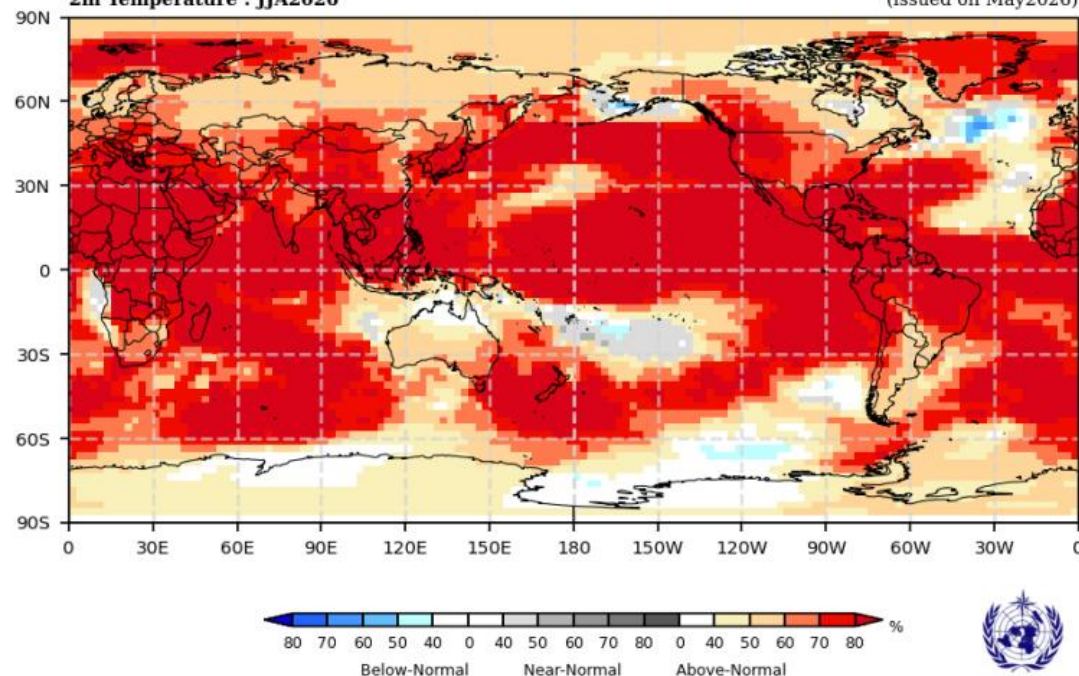
● PRESS RELEASE

Probabilistic Multi-Model Ensemble Forecast

CPTEC, ECMWF, Exeter, Melbourne, Montreal, Moscow, Offenbach, Seoul, Tokyo, Toulouse, Washington

2m Temperature : JJA2026

(issued on May2026)



World Meteorological Organisation, Report by UK Met Office (May 26)

2024 hottest year on Earth to date – 91% chance that it will be beaten in 2026-30

Is a 'Super El Niño' on the way and how will it affect the UK?



Sarah Keith-Lucas
Lead Weather Presenter

Ref: BBC

UN:
At 6°C above average, tropical Pacific Ocean temperature readings are fueling concerns that this El Niño could feed on this extra heat and devastate vulnerable and unprepared communities worldwide.

The billion-barrel Hormuz oil shock is about to crash demand

By Bloomberg • Last Updated: Apr 26, 2026, 12:16:00 AM IST

Ref: Economic Times / Bloomberg

Yn y newyddion.... | In the news....



Gwasanaeth Ynni
Energy Service

NEWS

Wales heatwave underscores urgent warning: UK built for a climate that no longer exists'

🕒 28 May 2026 ⌚ 3 minute read



Image: South Wales Fire and Rescue Service

Nation.Cymru – headline of the article referencing CCC and Climate Cymru comments

'Collapsing wildlife and polluted rivers now a life or death issue'



Only 40% of water bodies in Wales are classed as being in good condition

BBC – headline following NRW's State of Natural Resources 2025 report

"Parts of the country also have some of the worst air quality in Britain - causing up to 1,400 premature deaths a year"

'Disease-carrying mosquitoes and heat deaths if temperatures soar'



MATTHEW HORWOOD/GETTY IMAGES

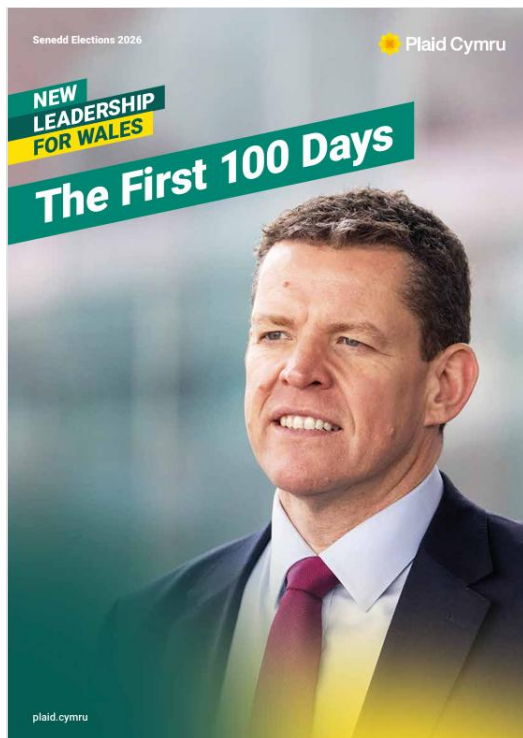
Wales' 10 hottest years on record have all happened since the early 2000s

BBC – headline referencing CCC. Future cooling measures needed in hospitals and care homes.

Yn y newyddion.... | In the news....



Gwasanaeth Ynni
Energy Service



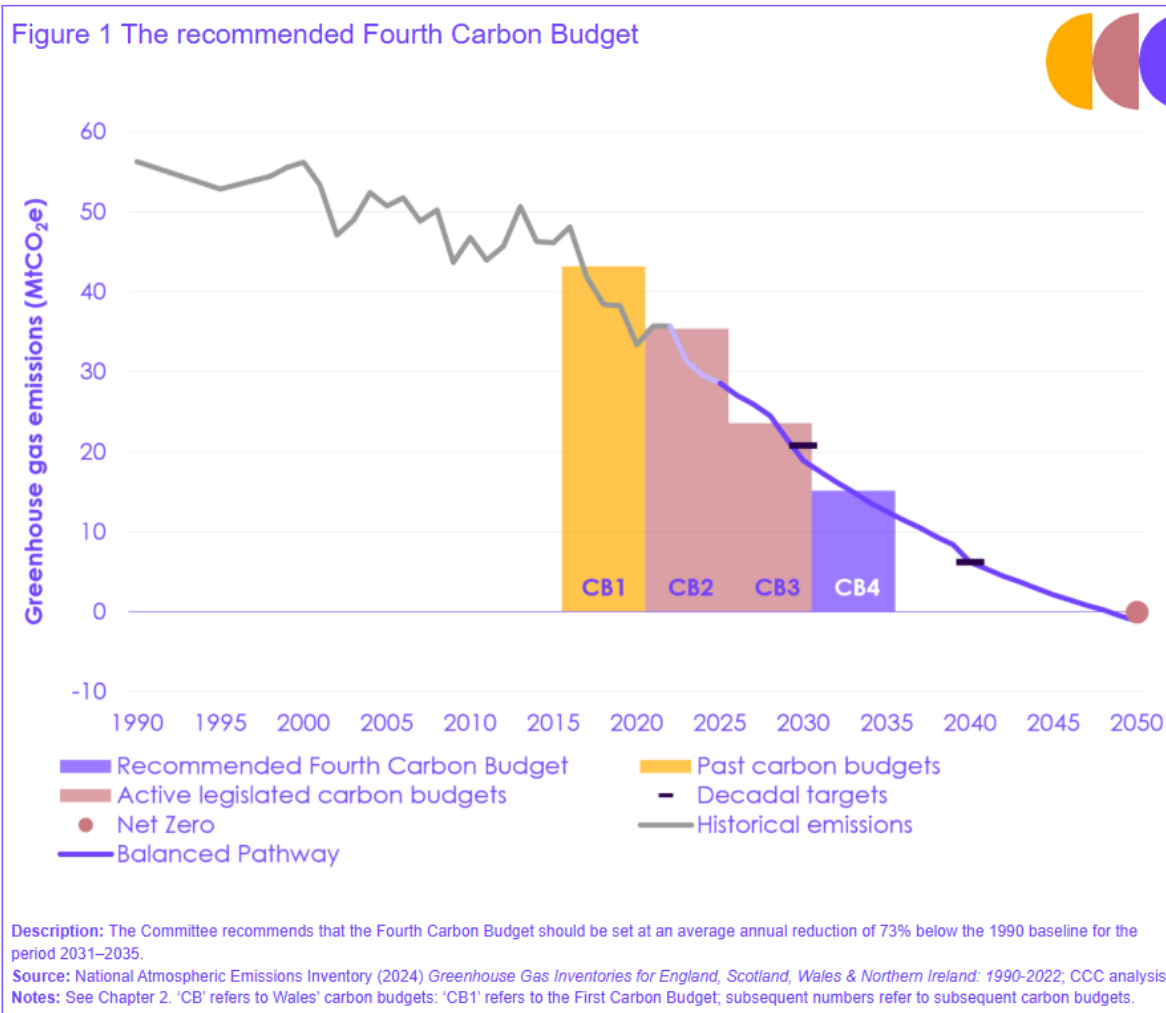
Plaid Cymru – new government

First 100 days – bold new steps to address the climate and nature emergencies

Nature Action Plan for Wales - pathway to net zero by 2040 and substantive nature recovery by 2050

Renewable Energy Sector Deal, strengthen Trydan Gwyrdd Cymru, and promote community-owned renewables

Figure 1 The recommended Fourth Carbon Budget



Ref: CCC - ~Wales 4th Carbon Budget advice to WG (2025)

Now at the end of CB2 – 2021-25 – budget is just met!? WG now progressing plan for CB3 26-30



Gwasanaeth Ynni Energy Service

Cefnogi ymdrech Cymru i greu economi sero net llwyddiannus
Supporting Wales' drive to a successful net zero economy

2. Adrodd Sero Net 2. Net Zero Reporting

Beth rydyn ni'n ei wneud | What we do



Gwasanaeth Ynni
Energy Service

Adrodd ar draws y sector cyhoeddus

- Casglu data canolog
- Adroddiadau blynyddol ar allyriadau ar gyfer sector cyhoeddus Cymru a sefydliadau cyfansoddol.
- Datblygu cynllun ar gyfer ardaloedd her.

Public-sector wide reporting

- Centralised data collection
- Annual emissions reporting for the Welsh public sector and constituent organisations
- Scheme development for challenge areas

Ymgysylltu a chefnogaeth

- Ymgysylltu ag arferion a phrosesau adrodd sy'n benodol i sefydliad
- Mynychu gweithgorau a sesiynau
- Ymateb i ymholiadau a darparu cefnogaeth, trwy mewnlwch Adrodd Sero Net a Teams

Engagement and support

- Engagement with organisational-specific reporting practices and processes
- Attending working groups and sessions
- Responding to queries and providing support, via Net Zero Reporting inbox and Teams site

Penawdau Adrodd 2024/25 | Reporting Headlines 2024/25



Gwasanaeth Ynni
Energy Service

3,958 ktCO₂e

+12%

52.1 GWh

Ynni adnewyddadwy
Renewables

+8%

82

#sefydliadau
organisations

+6%

7,900,000 km

Pellter a deithiwyd gan fflyd
o gerbydau trydan
EV fleet distance travelled

+348%

4,200

Data ar lefel safle
site level data

New

0.248 kgCO₂e/£

Dwysedd y gadwyn
gyflenwi
Supply chain intensity

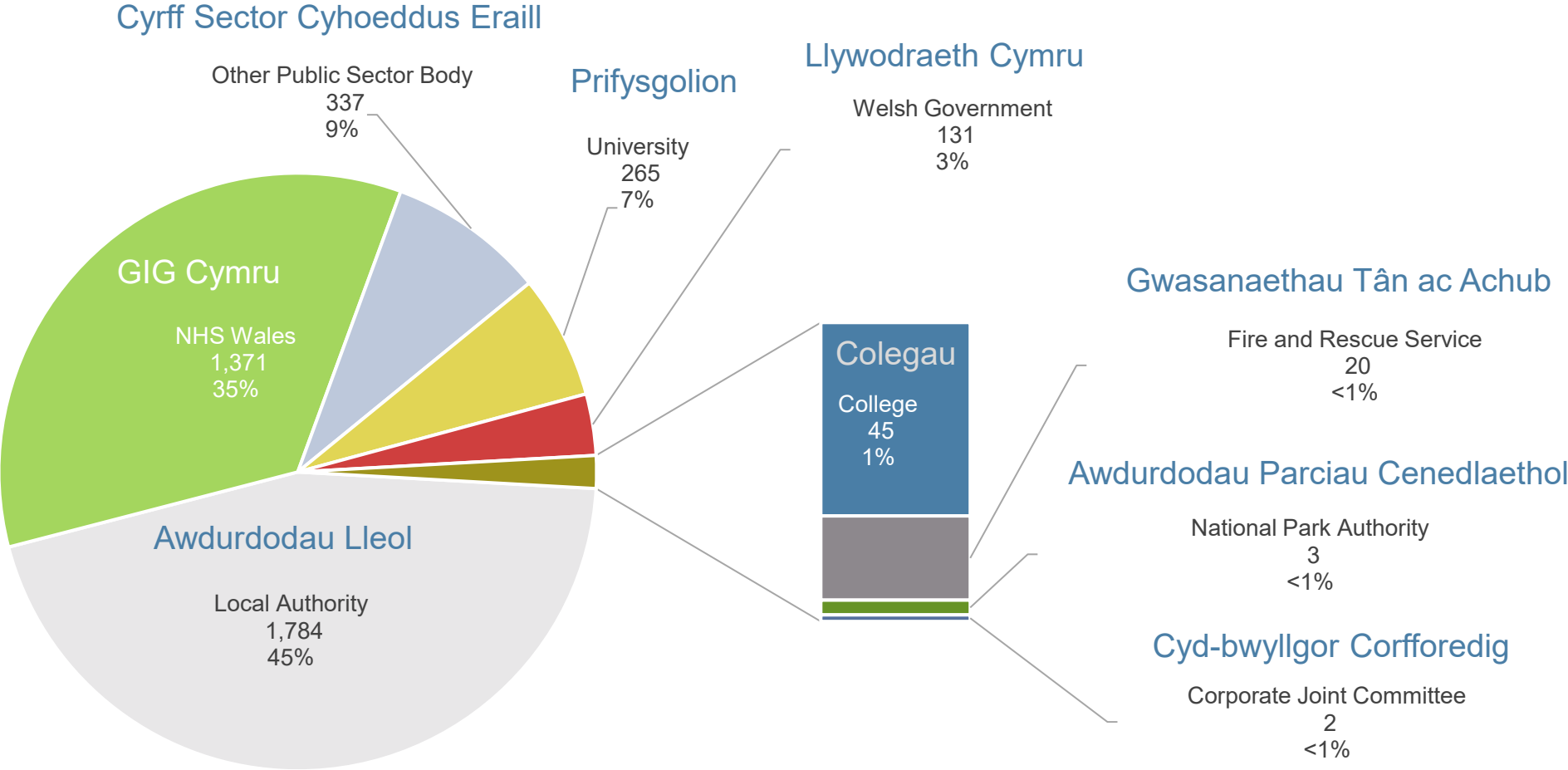
+15%

Allyriadau (ktCO₂e) 2024/25 | Emissions (ktCO₂e) 2024/25

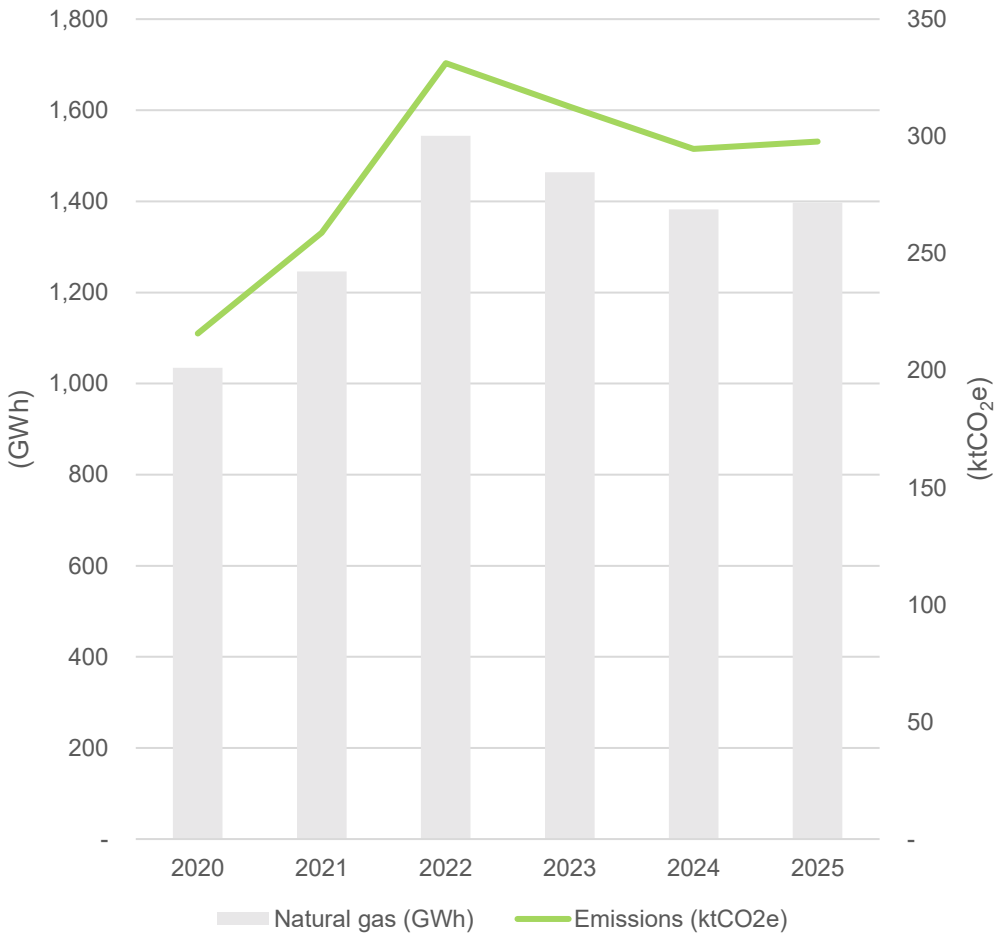


Gwasanaeth Ynni
Energy Service

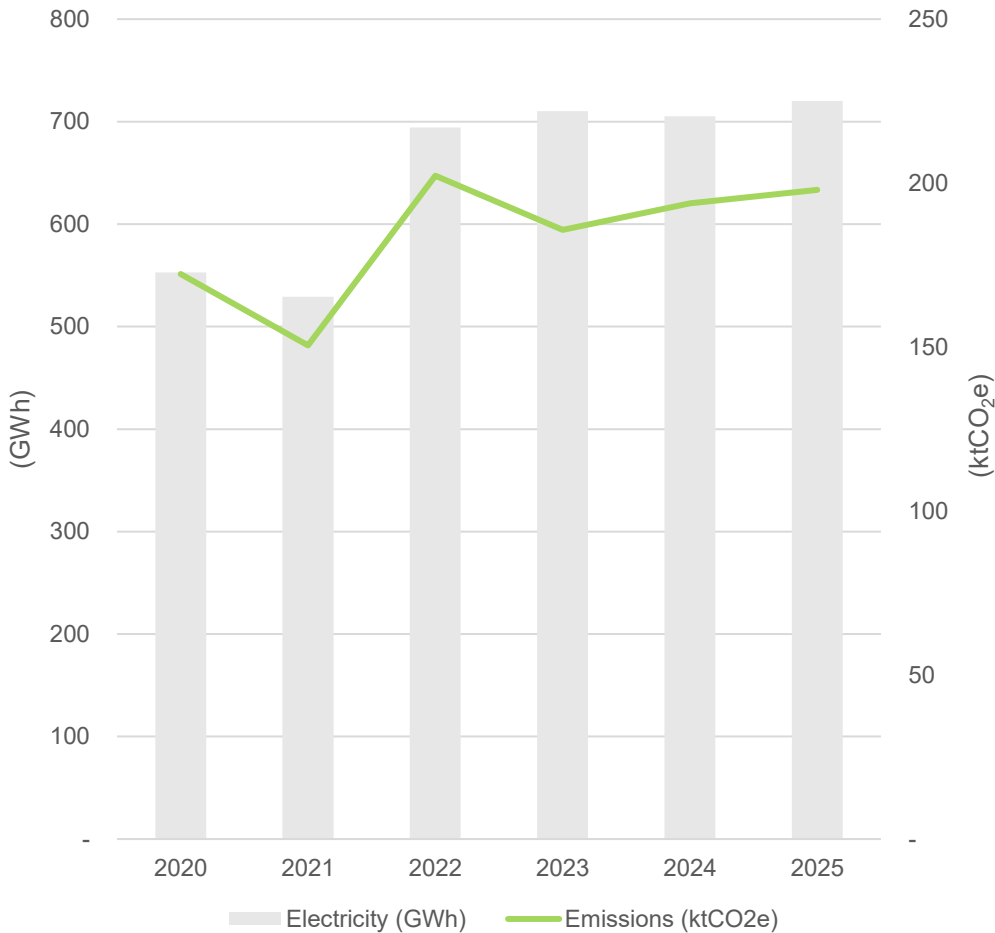
3,958
ktCO₂e



Nwy Naturiol
Natural Gas



Trydan
Electricity



Cynnydd: yr hyn rydyn ni wedi'i gyflawni |

Progress: what we have delivered



Gwasanaeth Ynni
Energy Service

61.8MW

Cynhyrchiant adnewyddadwy
Renewable generation

19.7MW

Gwres carbon isel
Low carbon heat

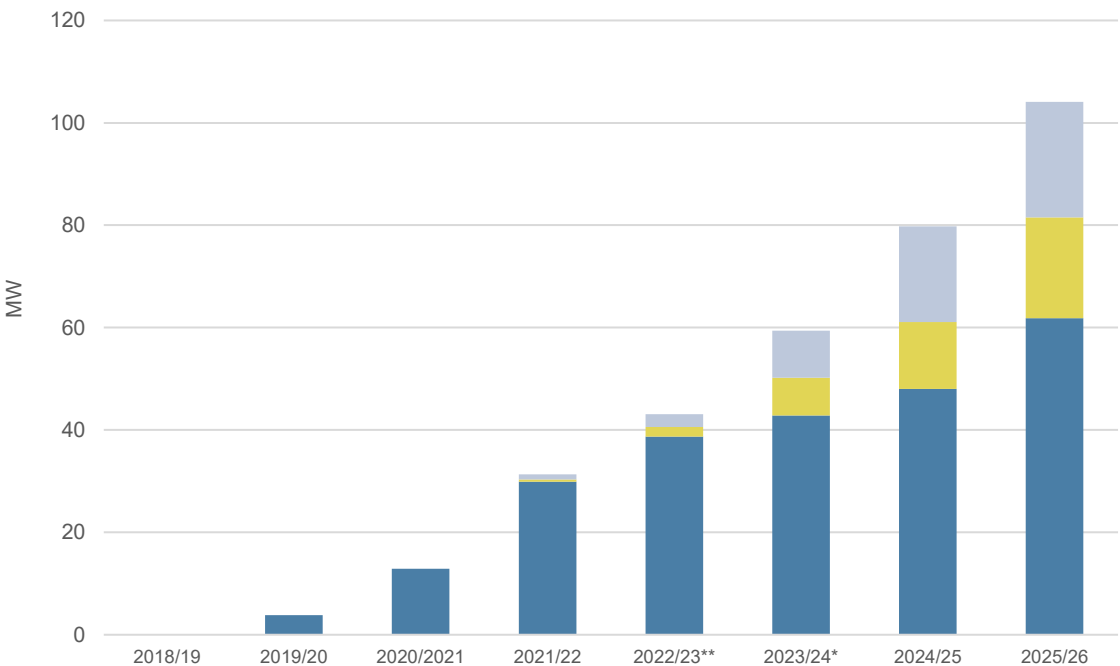
22.6MW

Seilwaith gwefru cerbydau trydan
EV charging infrastructure

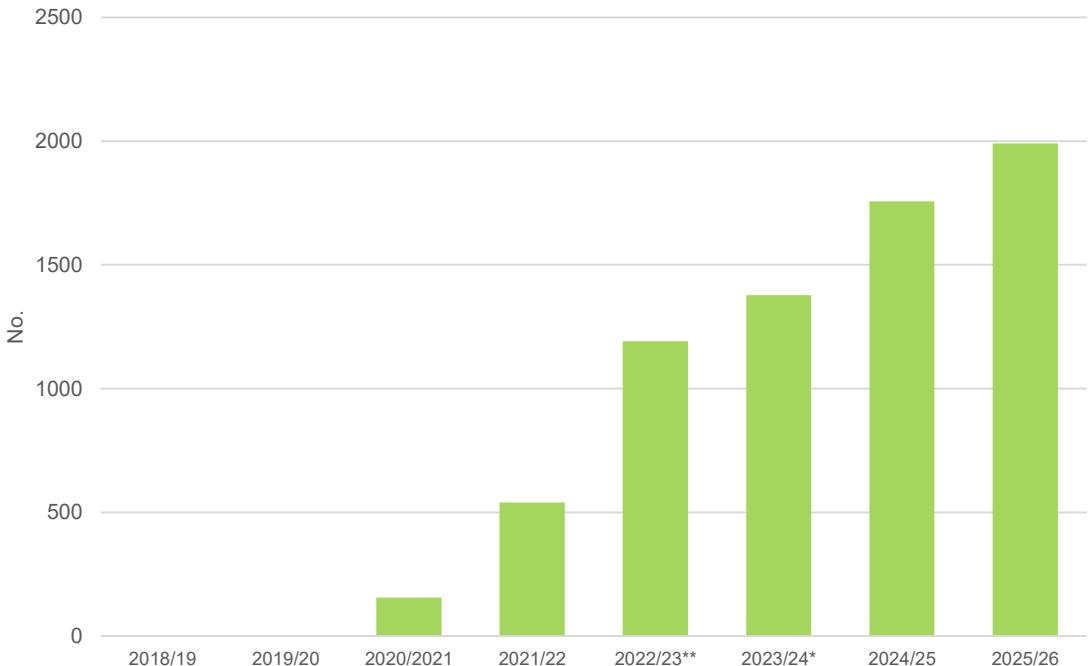
1,991

Cerbydau di-allyriadau
Zero emission vehicles

Capasiti wedi'i osod yn tyfu o flwyddyn i flwyddyn (MW) Installed capacity growing year on year (MW)



Cerbydau allyriadau sero a gefnogir hyd yma
Zero emission vehicles supported to date



Cynnydd: cyfalaf wedi'i ddefnyddio | Progress: capital deployed



Gwasanaeth Ynni
Energy Service

5x

Cynnydd mewn cyfalaf blyneddol a ddefnyddiwyd ers 2018/19

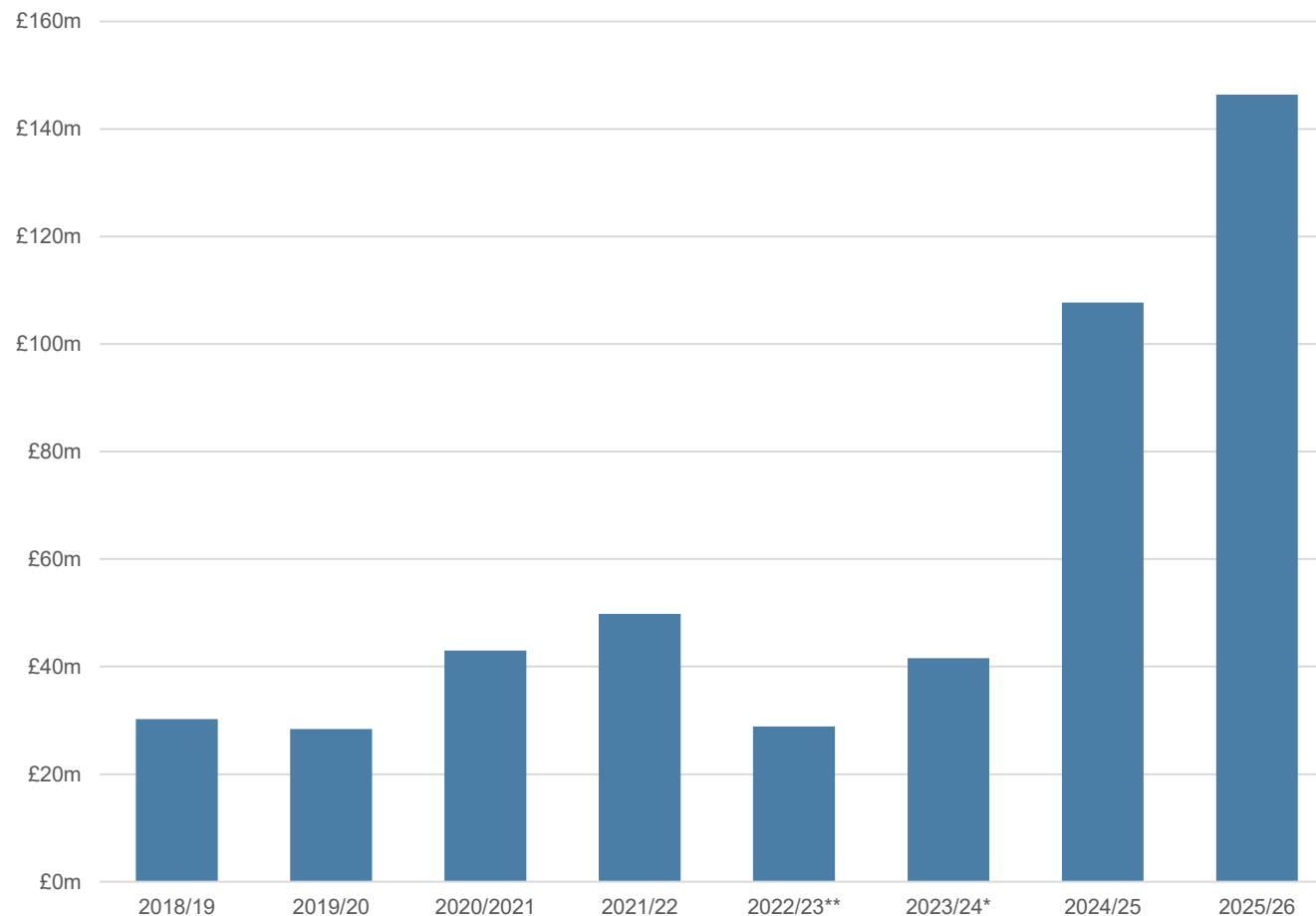
Increase in annual capital deployed since 2018/19

£340m

o gyfalaf wedi'i fuddsoddi yng Nghymru hyd yma

of capital invested in Wales to date

Buddsoddiad Cyfalaf ar Gwblhau'r Agweddau Ariannol Capital Investment at Financial Close





Gwasanaeth Ynni Energy Service

Cefnogi ymdrech Cymru i greu economi sero net llwyddiannus
Supporting Wales' drive to a successful net zero economy

3. Cyllid 3. Finance

Cronfeydd rydyn ni'n eu gweinyddu | Funds we administer



Gwasanaeth Ynni
Energy Service



Gwres Carbon Isel ALI a SG
LA and PS Low Carbon Heat

90%



Grant cerbyd di-allyriadau a seilwaith gwefru cerbydau trydan
ZEV & EVCI Grant

90%



Grant SLES Ynni Cymru
Ynni Cymru SLES Grant

75%



Ymestyn
Ymestyn

Top up



Grant Datblygu
Development Grant

50%

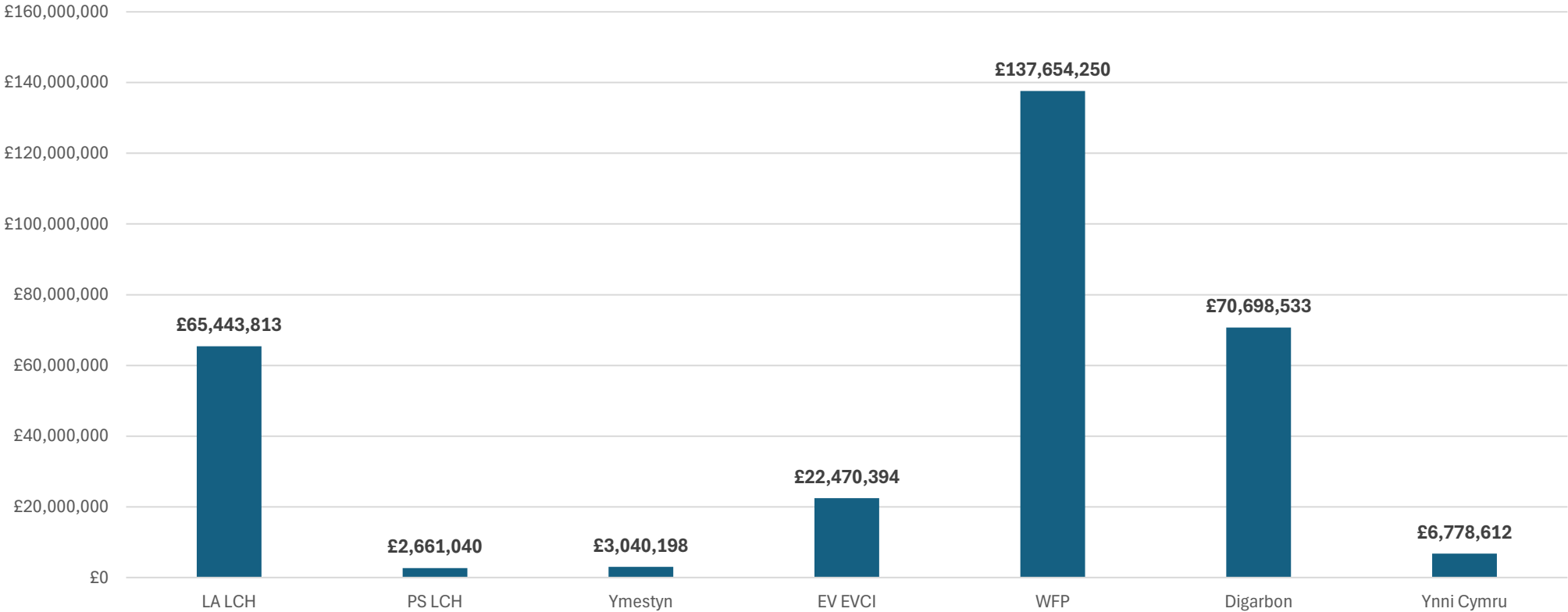


Arloesi Hinsawdd – Cronfa Atebion Newydd
Climate Innovation – New Solutions Fund

New

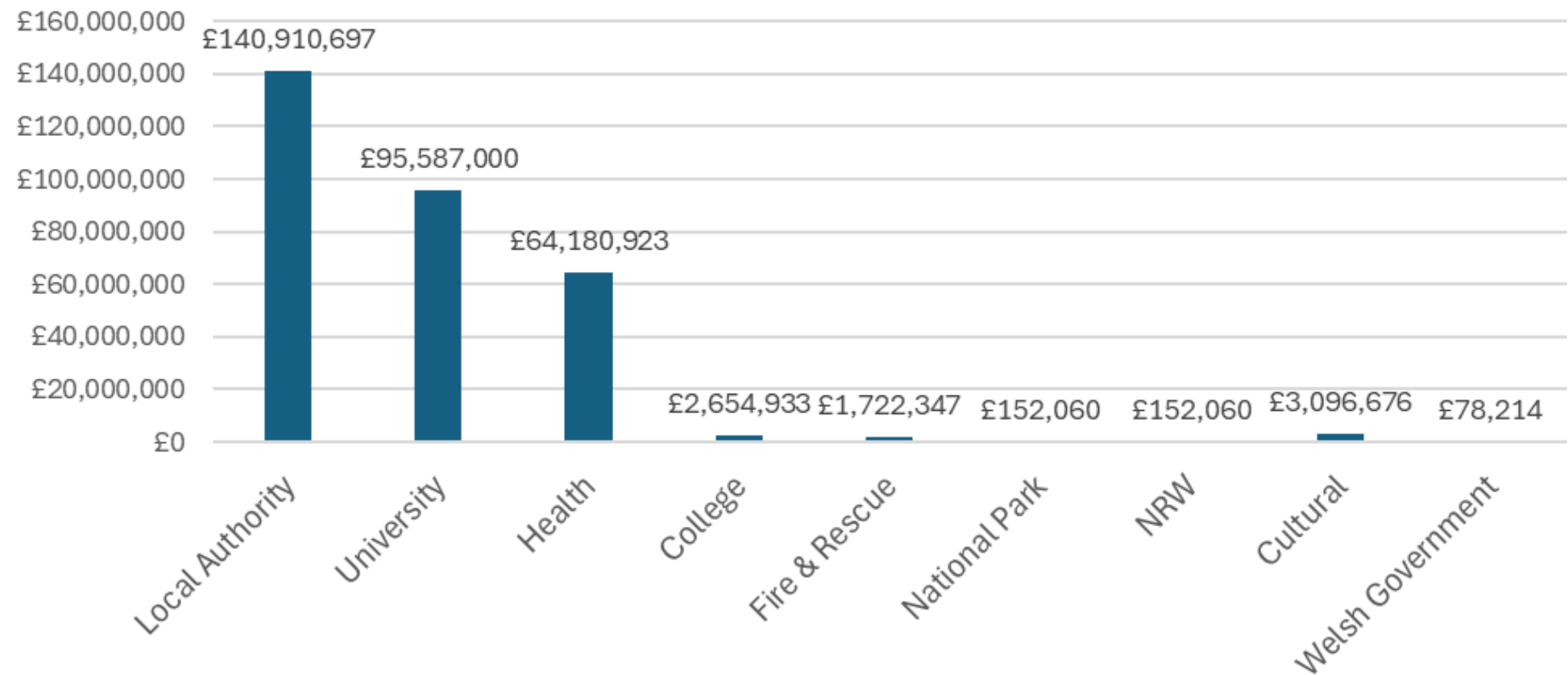
£308,746,840

Adrannau Hinsawdd ac Ynni Llywodraeth Cymru ar gyfer y sector cyhoeddus
WG Climate & Energy divisions for the public sector



£308,746,840

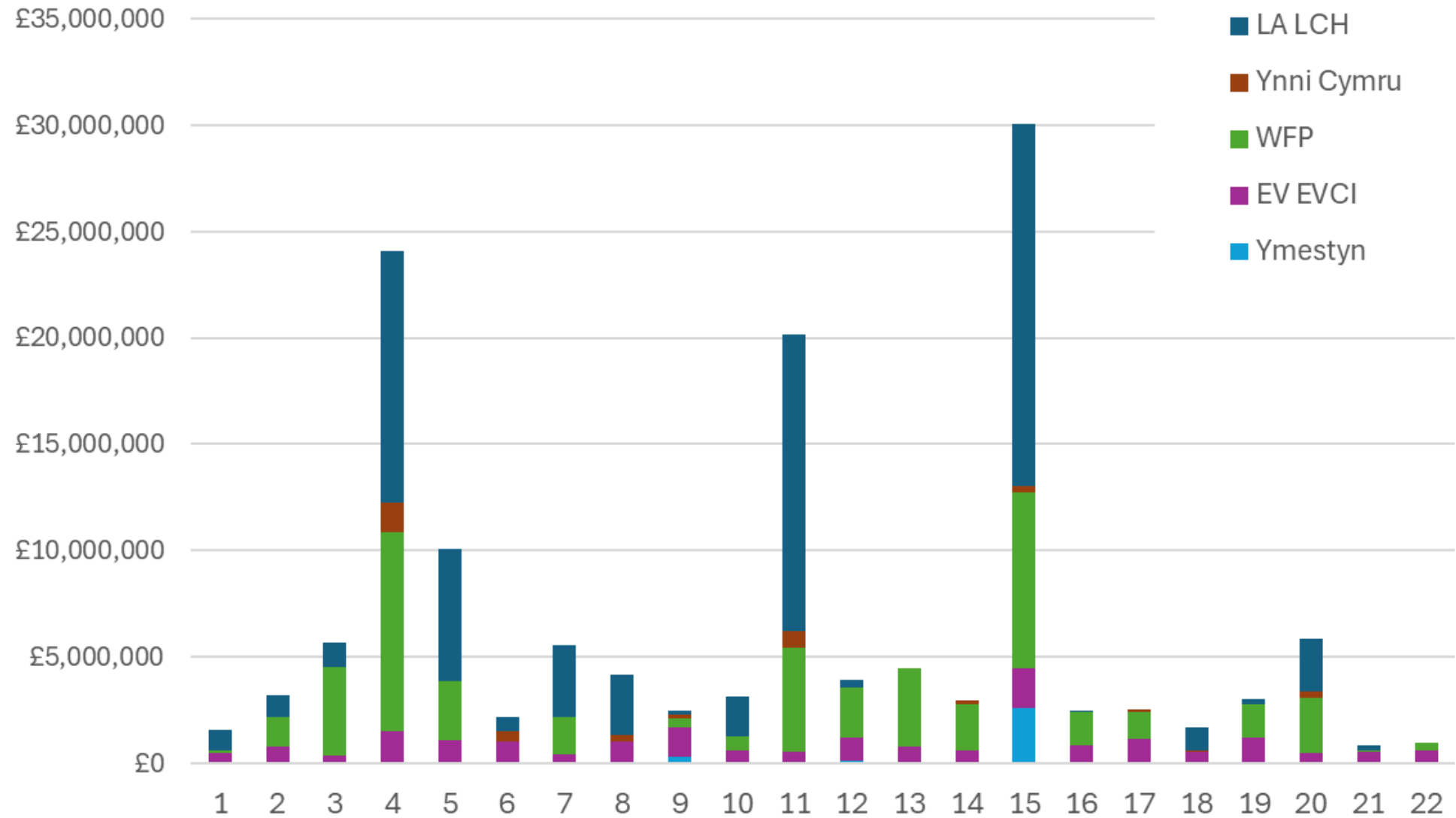
Cyllid yn ôl Sector
Funding by Sector

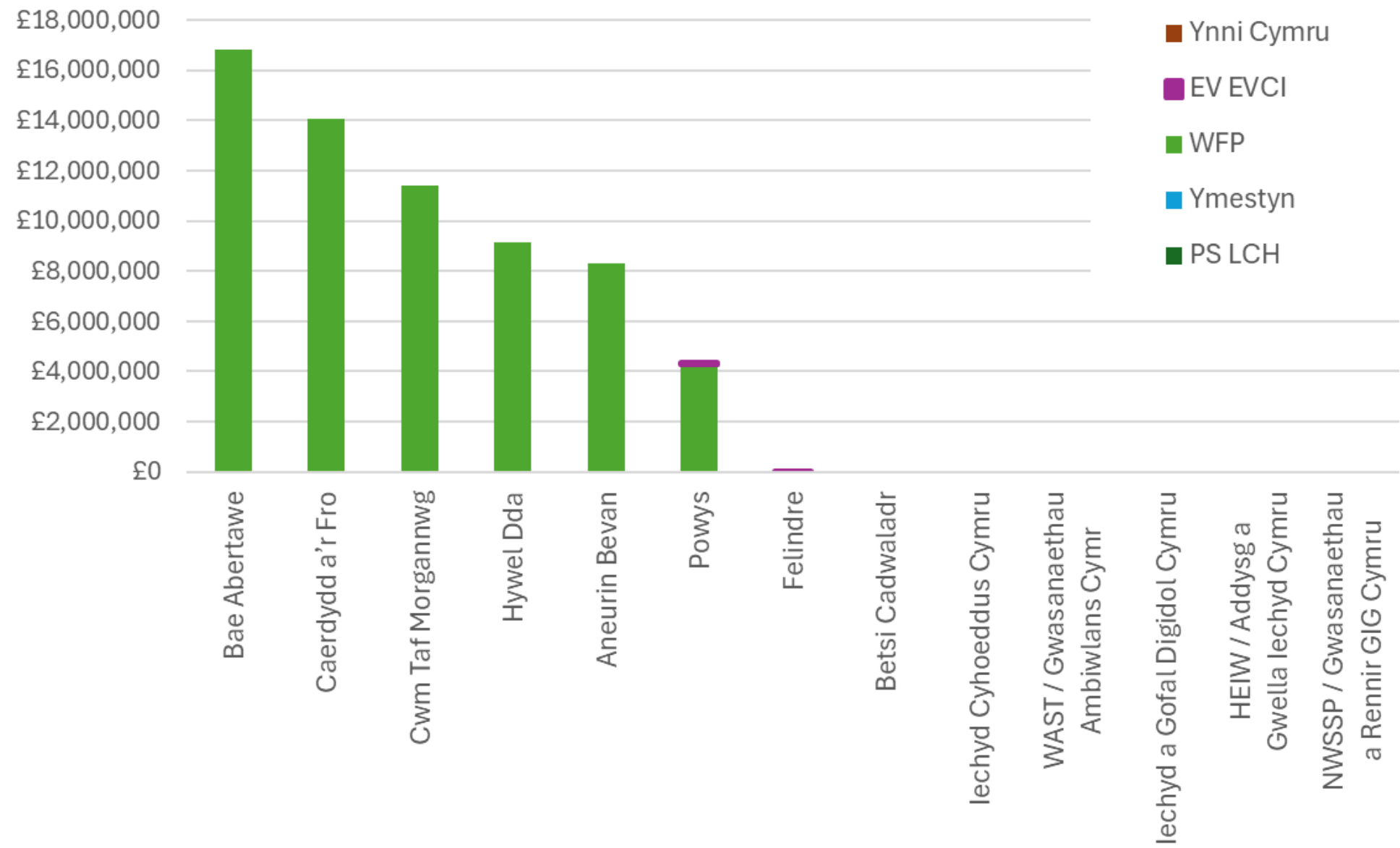


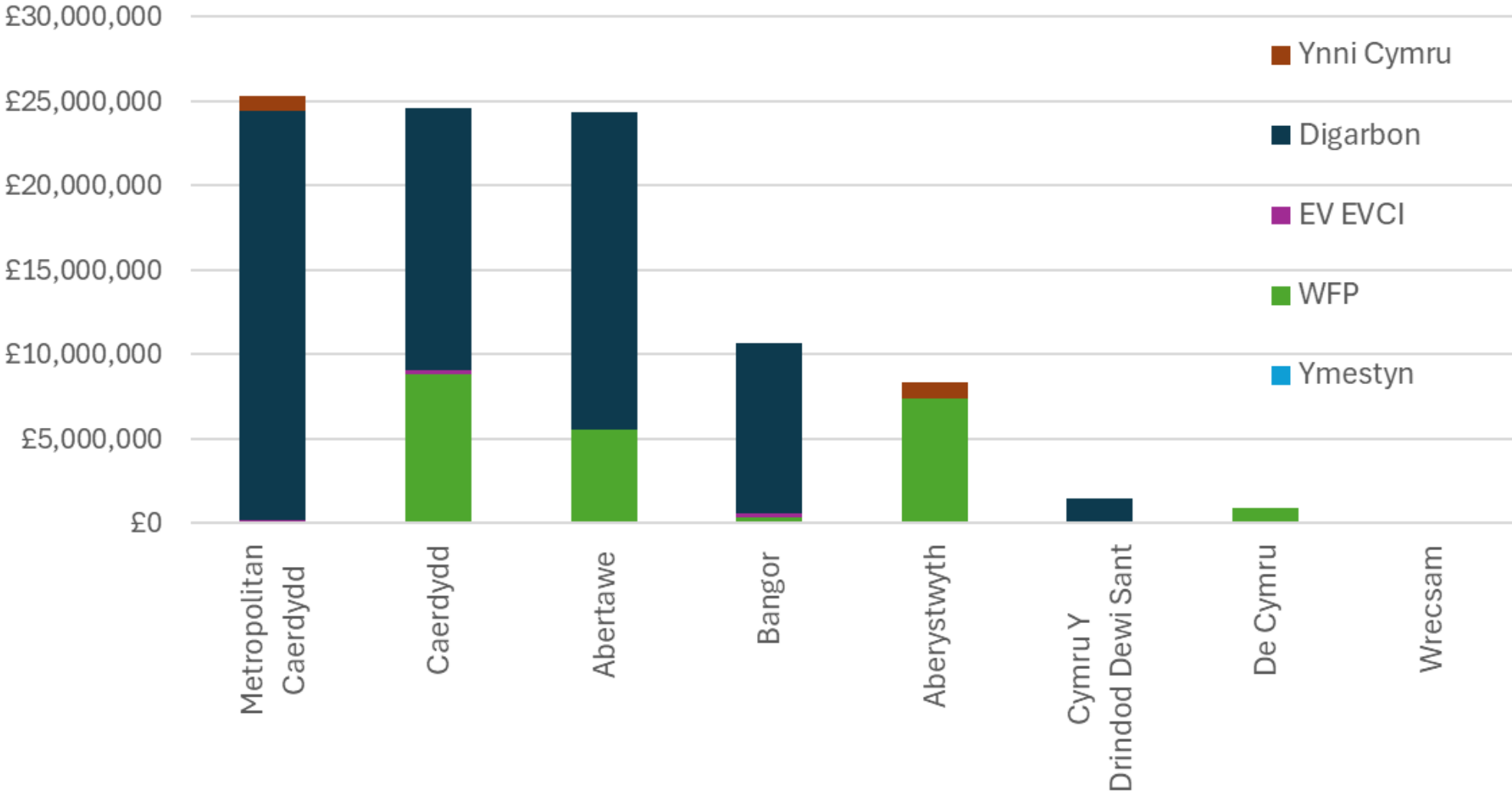
The following slides are sector-by-sector organisational breakdowns based on the WG PS Decarbonisation, Ynni Cymru (WG Energy Division) funding only, and LA Low Carbon Heat (WG Local Government Division).

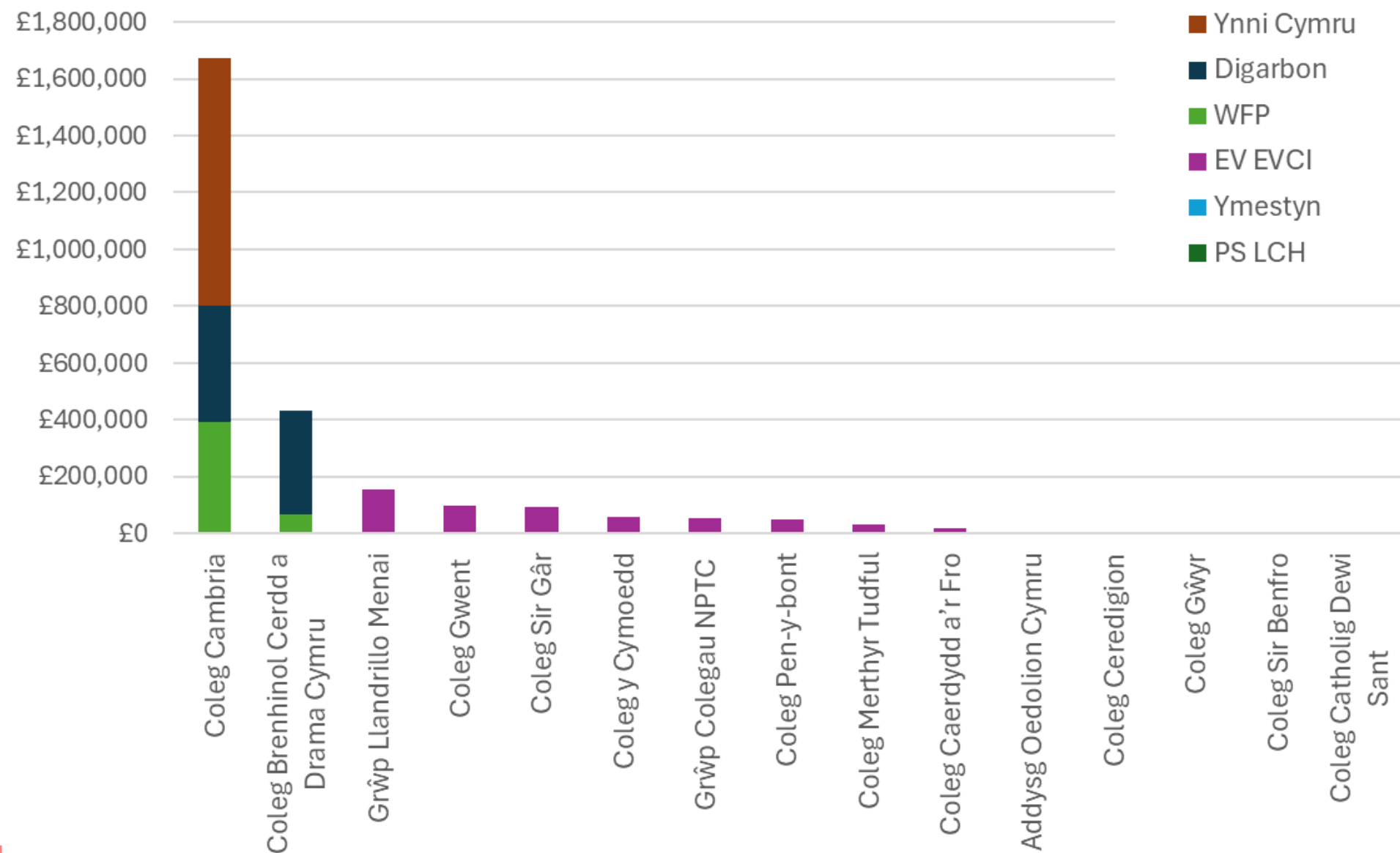
This does not consider dedicated decarbonisation funding from other departments or discretionary funding for decarbonisation – for example, the NWSSP administered fund for health decarbonisation.

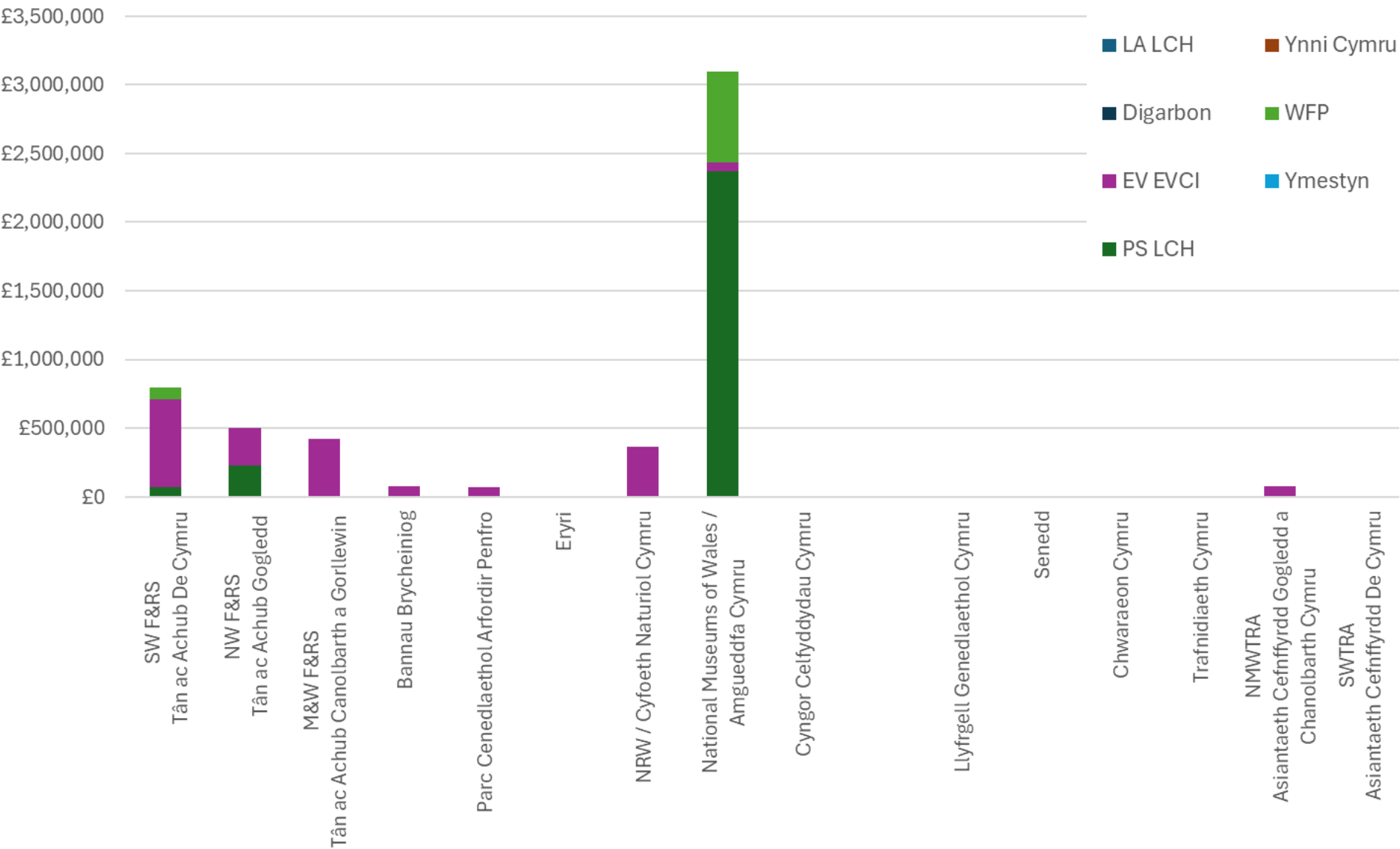
The data does not reflect internal capital, other borrowing, or revenue investment.







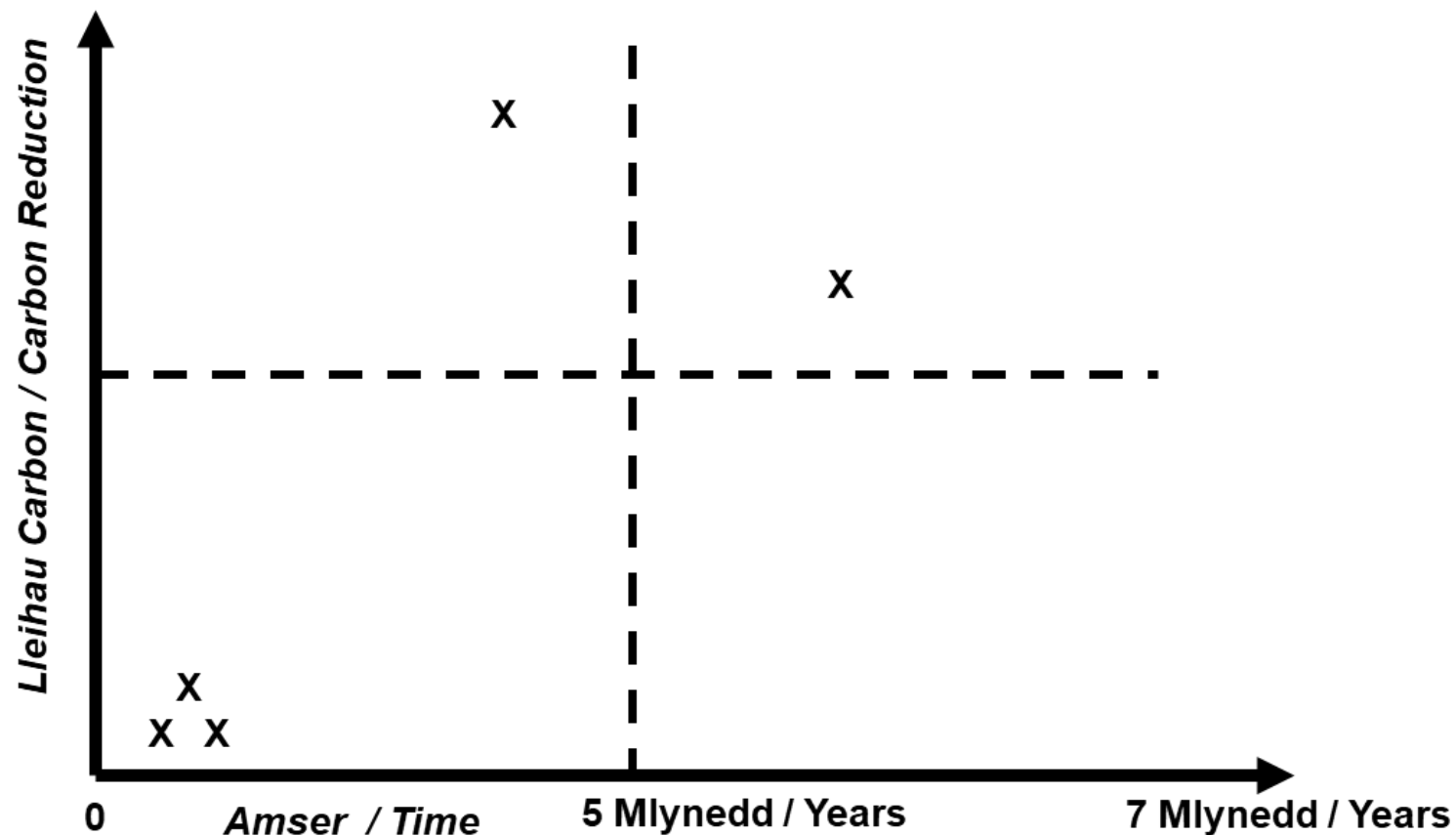




Hunan asesiad | Self assessment

Pa mor effeithiol yw eich rhaglenni a'ch prosiectau?

How impactful are your programmes & projects?



What are the barriers preventing your organisation from pursuing a more ambitious decarbonisation programme.

Resource 11

Funds 6

DNO 5

Capacity 4

Grant funding 4

Organisation 4

Short delivery 3

Dno timescales a huge barrier in fitting in with grant timescales

Estates strategy

No political buy in for decarb projects which increase energy costs

Aging estate

Reliance on grant funding Difficulty in developing a pipinr

Overall cost saving priorities outweighing carbon reduction ambitions

Short window of being able to spend money over multi year projects

Single year grant timescale

Conflicting prioritise

Huge infrastructure costs to improve insulation

Low gas / High electricity prices

Lack of strategic level direction or decision making

A clear management plan, identifying areas for improveme

Short term funding windows

Staff expertise and capacity

Pre grant work for viability of project

Low gas / High electricity prices

Currently working through the process but need to understand the fine detail of how the revenue payback works.

Financial risk

Supply DNO issues

Short delivery times

Unrealistic investment vs output expectations

Policy uncertainty.

Payback too long

Risk Aversion from partner organisations

What are the barriers preventing your organisation from pursuing a more ambitious decarbonisation programme.

Resource 11

Funds 6

DNO 5

Capacity 4

Grant funding 4

Organisation 4

Short delivery 3

Budget cuts

Short delivery times

Resource, governance,

Grant funding timescales

Other priorities taking resources

Staff resource

Poor quality support

Electrical sub station capacity limitations

Lack of granular local monitoring

Time

Technical knowledge

Budget cuts

Resources

Decision making / delays at an Executive Level

Funding priorities

Grant funding timescales

Overly Bureaucratic processes within organisation

Competing funding challenges

Lack of leadership

Resource availability

Fear of change

DNO

Procurement

Internal decision making processes



What are the barriers preventing your organisation from pursuing a more ambitious decarbonisation programme.

Cyswllt | Contact

Ar-lein | Online:

llyw.cymru/y-gwasanaeth-ynni-ar-gyfer-grwpiaur-sector-cyhoeddus-grwpiau-cymunedol
gov.wales/energy-service-public-sector-and-community-groups

X: [@_gwasanaethynni](#) | [@_energyservice](#)

E-bost | Email:

- ymholiadau@gwasanaethynni.cymru | enquiries@energyservice.wales
- **Gogledd a'r Canolbarth | North & Mid** : carwyn.davies@energyservice.wales
- **De a'r Dwyrain | South & East** : jane.forshaw@energyservice.wales
- **De-orllewin | South west** carwyn.davies@energyservice.wales or jane.forshaw@energyservice.wales



Fframwaith Caffael | Procurement Framework



Gwasanaeth Ynni
Energy Service

- **Fframwaith caffael** – y gallu i gyfarwyddo cymorth ychwanegol yn ôl y gofyn
- **2 Lot** – Gwasanaeth Ynni (Lot 1), ac Adrodd Sero Net (Lot 2)
- **Consortium y Gwasanaeth Ynni** – Mae'r Ymddiriedolaeth Garbon a'r Ymddiriedolaeth Arbed Ynni yn cyd-arwain consortium o 14 o bartneriaid, gan weithio gyda Partneriaethau Lleol (Local Partnerships) fel arweinwyr strategol
- **Templedi dogfennau contract yn ôl y gofyn** – dogfennau contract i gyd-fynd â chontract fframwaith y Gwasanaeth Ynni
- **Rheolwr Fframwaith Llywodraeth Cymru** – cyswllt Buddug.Turner@llyw.cymru
- **Procurement framework** – ability to direct call-off additional support
- **2x Lots** – Energy Service (Lot 1), and Net Zero Reporting (Lot 2)
- **Energy Service consortium** – Carbon Trust & Energy Saving Trust co-lead a consortium of 14 partners, working with LP as strategic leads
- **Template call-off documents** – contract documents to align with the Energy Service framework contract
- **Welsh Government Framework Manager** – contacts Buddug.Turner@gov.wales



Gwasanaeth Ynni Energy Service

The Welsh Government Energy Service (“**WGES**”) is funded by the Welsh Government with the aim of developing energy efficiency and renewable energy projects that contribute to public sector decarbonisation and national energy targets. The WGES is delivered by the Carbon Trust, Energy Saving Trust and Local Partnerships (the “**Delivery Partners**”). This report (the “**Report**”) has been produced by the Delivery Partners and, whilst the views expressed in it are given in good faith based on information available at the date of this Report:- (i) these views do not necessarily reflect the views of the Welsh Government, which accepts no liability for any statement or opinion expressed in the Report; (ii) the Report is intended to provide general guidance only, rather than financial, legal or technical advice for the purposes of any particular project or other matter, and no-one in receipt of the Report should place any reliance on it in substitution for obtaining their own advice from an appropriate third party advisor; and (iii) any person in receipt of this Report should therefore obtain their own financial, legal, technical and/or other relevant professional advice insofar as they require specific guidance on what action (if any) to take, or refrain from taking, in respect of any project, initiative, proposal, involvement with any partnership or other matter to which information contained in the Report may be relevant; and (iv) the Delivery Partners accept no liability in respect of the Report, or for any statement in the Report and/or any error or omission relating to the Report.

Website gwasanaethynni.llyw.cymru | energyservice.gov.wales

Twitter [@_gwasanaethynni](https://twitter.com/_gwasanaethynni) | [@_energyservice](https://twitter.com/_energyservice)

Email ymholiadau@gwasanaethynni.cymru | enquiries@energyservice.wales

Linkedin [Welsh Government Energy Service](#) | [Welsh Government Energy Service](#)

Amser egwyl Time for a break

11:00-11:30

Peidiwch ag anghofio'ch taflen bingo!
Don't forget your bingo sheet!

www.salixfinance.co.uk



salix 

Bwrdd Iechyd Prifysgol Cwm Taf Morgannwg
Cwm Taf Morgannwg University Health Board
Christopher Lewis

salix

Cwm Taf Morgannwg University Health Board

Re:Fit Phase One programme journey so far

Christopher Lewis
A Net Zero Wales Conference
Cardiff
Jun 18th 2026



Cwm Taf Morgannwg Health Board in context



- Size of Estate – 301,000m² (GIA)
- Approx 11,800 WTE staff in 2024-25
- 3 Acute hospitals, 5 non-acute hospitals, 2 health parks, over 60 facilities in total
- Total utilities CO₂ emissions –24,400 tonnes (*Building energy emissions 2024-25 EFPMS*)
- Total energy consumption 120,000 MWh MegaWatt hours (*2024-25 EFPMS*)
- Less than 2% of our electricity from renewables in 2024-25. But increasing!
- The Health Board consumes the same amount of energy as approximately 7,500 homes





What is Re:Fit?



- Re:Fit is a Welsh Government backed procurement framework designed to help public sector organisations implement energy efficiency and retrofitting projects.*

Re:Fit stages:



- Funding from Wales Funding Programme / Invest To Save
- Support from Local Partnerships and WGES



The CTM Re:Fit programme



- Awarded to Veolia Energy & Utilities April 2024
- A vehicle for serious investment and leveraging industry expertise to deliver real improvement
- Focus on tackling key aims of the NHS Wales Decarb Strategy
- Phase 1 IGP finally agreed in March 2026.
- Suite of schemes worth £11.5million funded through Wales Funding Programme Invest to Save and NHS Targeted Estates Fund (TEF)
- 2 year programme of delivery





Observations on the process



- From ITT to selection and then HLA to IGP, the programme is complex, lengthy and detailed at each stage
- Not to be under-estimated
- The client needs to be fully engaged at each stage and to involve the whole Capital & Estates function
- Support is out there – use it!
- Funding options – Wales Funding Programme, TEF, in-house discretionary, other grants and alternative finance?





On-Site Renewable Generation Solar PV Installations

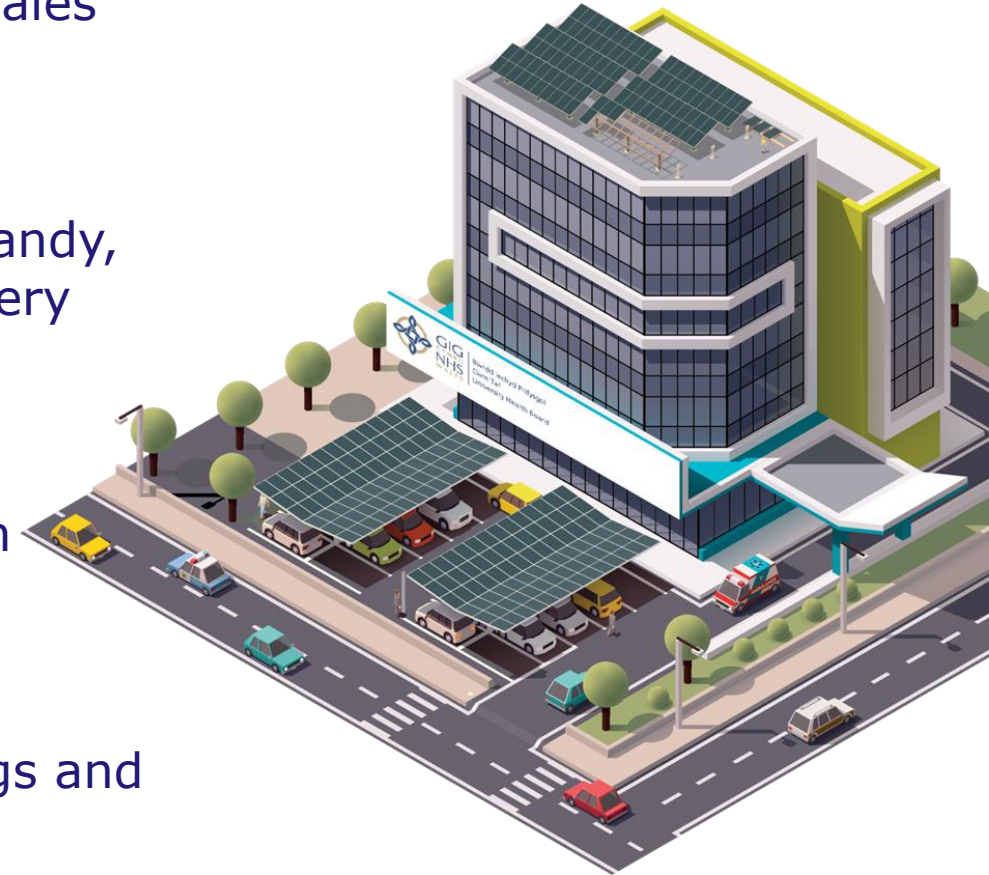


Acute Hospitals: (Car Park canopies) - Princess of Wales
Hospital, Ysbyty Cwm Cyron

Community Sites: (Roof Mounted) Dewi Sant, Tonypandy,
Aberdare, Maritime Resource Centre, Trealaw, New Surgery
Pencoed

Benefits: Reduced grid electricity demand, lower carbon
emissions, long-term energy savings

Impact: ~1,850 MWh/year renewable generation savings and
~417 tCO₂e/year reduction





LED Lighting Upgrades

Sites: Royal Glamorgan Hospital, Ysbyty Cwm Cynon, Ysbyty Cwm Rhondda, Keir Hardie Health Park, Williamstown Medical Records

BMS Optimisation

Sites: 3 main acute hospitals, RGH, POW, PCH

Benefits: High efficiency LED's, improved controls, occupancy-based operation, reduced maintenance and improved resilience and backlog maintenance

Impact: >2,000 MWh/year electricity savings





Williamstown Medical Records

- Air Source Heat Pump installation
- Battery Energy Storage System (BESS)

Benefits: Supports NHS decarbonisation objectives,
Reduced fossil fuel consumption and improved
flexibility

Utilises an existing solar PV installation with
significant excess generation

A non-clinical facility as a “demonstrator”

Impact: 62% reduction in site carbon emissions





Phase 1- Programme Outcomes



£11.5m
Investment

£1.06m Annual
Savings

1,133 tCO2e
Saved

4.9 GWh Energy
Saved

13 ECMs
Delivered

10 Year
Payback

Already starting discussions on phase 2!





Thank you

Any questions?





Cyngor Abertawe **Swansea Council**

Simon Aspland

salix 

Swansea Councils Retrofit Programme



Salix June 2026

Simon Aspland – Project
Manager Carbon
Reduction



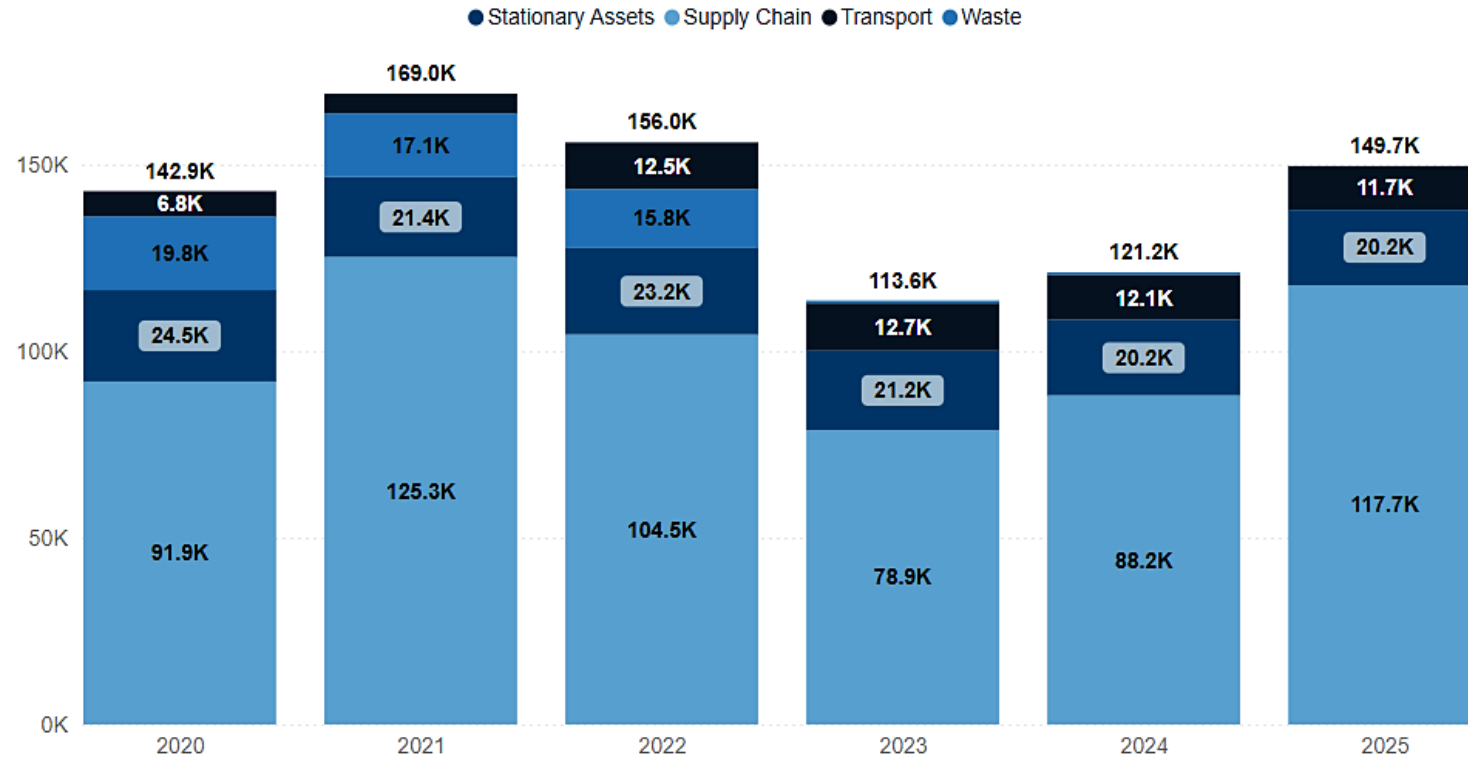
Hyrwyddwyr yr
Hinsawdd a Natur
Climate and
Nature Champions



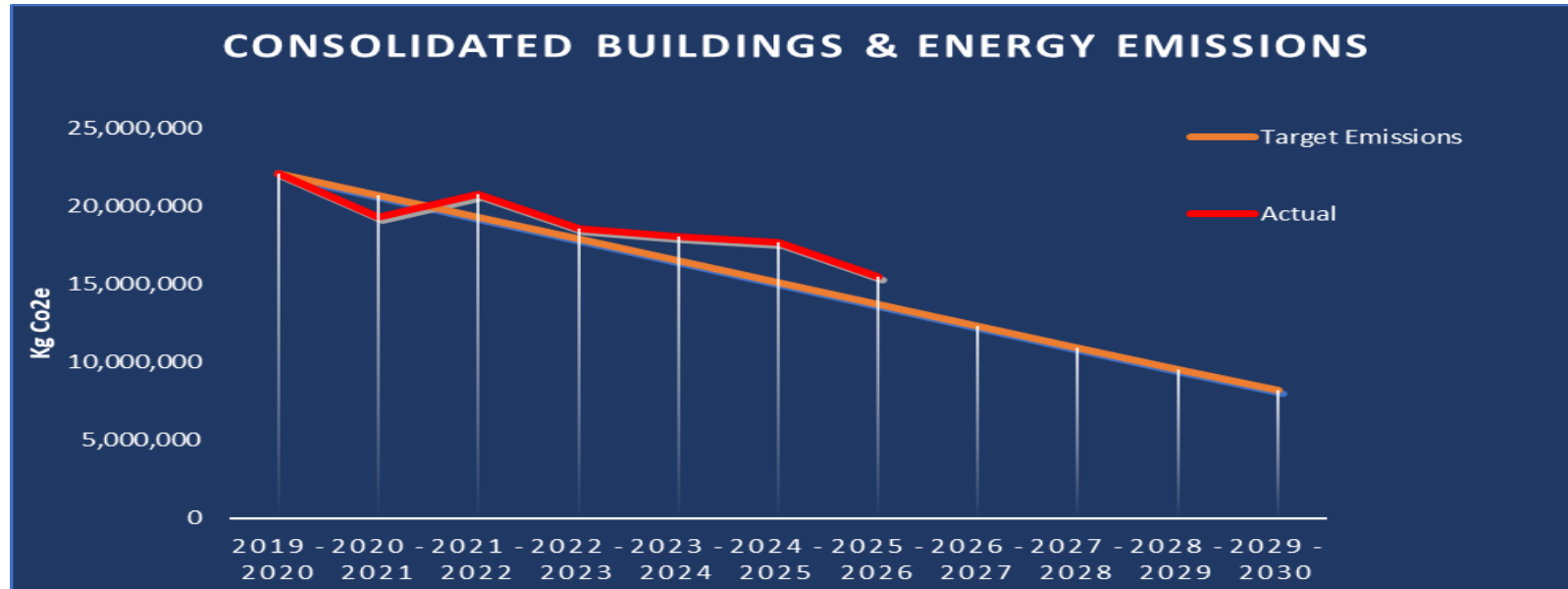
Cyngor **Abertawe**
Swansea Council

The Journey so far

Figure 4: Total emissions by emission category (tCO₂e), 2024/25



The Journey so far



- **17.8%** Reduction in Electricity Emissions.
- **16.5%** Reduction in Fossil Fuels Emissions.

Swansea Council Challenges

- Building Decarbonisation and Heat replacement forms part of the Authority's strategic actions for supporting Net Zero Wales.
- Limited resource – Small team, Limited technical capacity.
- Budget Constraints & Funding Scale - £7m+ initial need, £100m+ long-term.
- Complex Estate - Large asset portfolio of 860 plus buildings that account for over 60% of our scope 1 & 2 Emissions.
- Delivery Challenges – Education premises account for 50% of buildings emissions.
- Rising Energy costs – Need to reduce demand and increase resilience and energy security.
- Inherited a reduced scope retrofit framework - New tender that now includes all buildings and land.

Why Retrofit & Salix?

Demonstrates **measurable carbon and cost savings** at project level

Establishes **scalable pipeline for wider estate decarbonisation**

Supports:

- Decarbonisation journey
- Energy cost reduction
- Removal of fossil fuels (e.g. heating oil phase-out)

Provides:

- Evidence base for future investment bids
- Blueprint for wider rollout across authority

Why Retrofit & Salix?

Salix Funding is a Primary Enabler removing the capital barrier;

- Blend of funding sources:
 - Internal capital
 - Welsh Government grants
 - Low carbon funding programmes
- Key principles:
 - Targets energy efficiencies and carbon reduction
 - Investment in revenue-generating energy savings with clear payback
 - Ability to recycle savings into future phases
 - Enable pipeline progression (HLA → IGP → delivery)
 - Mitigates risk against long term energy prices & supports energy security

Achievements so far

- £1.4m Investment in Retrofit

		Target Energy Savings kwh/year	Target Cost Savings £/year	Target CO2 Savings Tonnes/year
Investment Grade Proposal	Total Guaranteed Energy Savings (TGES)	1,244,190	£153,122	286.27
		Measured Avoided Energy Use kWh/yr	Measured Savings £/Yr	Measured Savings CO2
Measurement and Verification - 01/01/2024 and 31/12/2024	Total Avoided Energy Use (TAEC)	1,334,655	£164,525	304.31
Measurement and Verification - 01/01/2025 and 31/12/2025	Total Avoided Energy Use (TAEC)	1,345,626	£166,346	310.28

- ASHP install at our building services depot
- 2147 kWp solar arrays
- 97% of street Lanterns converted to LED reducing the kWh by over 61% as a standalone project.
- 116 EV Charge points with BOH software including Rapid chargers
- 14% Fleet Transition to EV including 3 ERCV's (Fleet size 1005)

Forward Look

- Phase 2 retrofit June 26 – March 27.
- Development and implementation of further retrofit schemes.
- Replace oil heated sites with Low Carb Heat.
- Exploration of Solar Car ports.
- Guildhall – Strategic 5-year plan for decarbonisation.
- Drive Renewable Energy to support Energy resilience and security.
- Exploration into Centralising the estates BMS Systems.
- Continued Fleet Transition



Any Questions ?



Hyrwyddwyr yr
Hinsawdd a Natur
Climate and
Nature Champions



Cyngor **Abertawe**
Swansea Council

Ariannu Sero Net Funding Net Zero

Salix and WGES



Funding schemes

Cynlluniau cyllido

- Digarbon round 3
- Wales Funding Programme

- Rownd 3 Digarbon
- Rhaglen Cyllido Cymru

Digarbon round 3

- **Delivered by:** Salix
- **Funding available:** £10.2m
- **Eligible organisations:** Further and Higher education sector
- **Type:** loan (2.45% interest)
- **Eligible technologies:** low-carbon, building fabric, energy efficiency, renewables, electric vehicles
 - Low carbon heating system project type
 - Fabric first project type
- **Closing date:** 25 June 2026 (2pm)
- **How to apply:** Application portal

Rownd 3 Digarbon

- **Darperir gan:** Salix
- **Cyllid ar gael:** £10.2m
- **Sefydliadau cymwys:** Y sector addysg bellach ac uwch
- **Math:** benthyciad (llog o 2.45%)
- **Technolegau cymwys:** carbon isel, deunydd adeiladu, effeithlonrwydd ynni, ynni adnewyddadwy, cerbydau trydan
 - Math o brosiect system wresogi carbon isel
 - Math o brosiect gwneuthuriad yn gyntaf
- **Dyddiad cau:** 25 Mehefin 2026 (2pm)
- **Sut i wneud cais:** Porth Ceisiadau

The impact of Digarbon so far

- **£70m** allocated
 - Driving large-scale decarbonisation across the public sector
- **3,300+ tonnes** of expected annual carbon savings
 - Supporting the path to Net Zero by 2030
- Average annual financial savings of **£47,000**
 - Helping organisations reduce operational costs

Effaith Digarbon mor belled

- Dyrannwyd dros **£70m**
 - Ysgogi datgarboneiddio ar raddfa fawr ar draws y sector cyhoeddus
- Disgwylir arbedion carbon blynyddol o dros **3,300 tonnell**
 - Cefnogi'r llwybr i sero net erbyn 2030
- Arbedion ariannol blynyddol cyfartalog o **£47,000**
 - Helpu sefydliadau i leihau costau gweithredol

Wales Funding Programme

- **Delivered by:** Salix
- **Eligible organisations:** all public sector bodies
- **Type:** loan (with 2.45% interest)
- **Eligible technologies:** energy efficiency and decarbonisation
- **When to apply:** Open for applications, funding paused
- **How to apply:** send application form and supporting documents to wales@salixfinance.co.uk
- Supporting document guidance on Salix website, incl. PMP

Rhaglen Cyllido Cymru

- **Darperir gan:** Salix
- **Sefydliadau cymwys:** holl gyrff sector cyhoeddus
- **Math:** benthyciad (gyda llog o 2.45%)
- **Technolegau cymwys:** effeithlonrwydd ynni a datgarboneiddio
- **Pryd i wneud cais:** Ar agor ar hyn o brydcyllid wedi'i oedi
- **Sut i wneud cais:** anfon ffurflen gais a dogfennau ategol at wales@salixfinance.co.uk
- Canllawiau dogfennau ategol ar wefan Salix, gan gynnwys PMP

Amser cinio Lunch time

12:30-13:30

Peidiwch ag anghofio'ch taflen bingo!
Don't forget your bingo sheet!

www.salixfinance.co.uk



salix 

Who's your carbon hero?

- Based on discussions with your neighbour this morning
- Share a colleague's proudest achievement linked to net zero

Pwy yw eich arw carbwn?

- Yn seiliedig ar drafodaethau gyda'ch cymydog y bore yma
- Rhannwch gyflawniad mwyaf balch cydweithiwr sy'n gysylltiedig â sero net

Optimeiddio eich Cerbydau Trydan Optimising your Electric Vehicles

Jim Cardy



The Welsh Government Energy Service

The public sector fleet transition: progress so far, where it stalls, and what would move it faster.



Gwasanaeth Ynni
Energy Service



The ambition is shared



Gwasanaeth Ynni
Energy Service

Audit Wales' independent read across Wales' 48 largest bodies:

Progress underway

Audit Wales found genuine commitment and considerable activity across the public sector

Pace is vital

Their central recommendation was to increase the pace of delivery, a challenge within the sector's control

No doubt about the destination, but a question of delivery – and fleet is where progress can be demonstrated now

Targets and deliverables currently under review

Fleet is already moving



Gwasanaeth Ynni
Energy Service

The part of net zero that's already underway in every organisation – so it's worth getting right



Already in motion

Fleets renew on a rolling cycle, so procurement decisions are already being made every year. No new capital programme needed.



Proven & fundable

For cars and vans the tech is mature and the whole-life case increasingly stacks up. Even HCVs are now moving into the mainstream.



Measurable and reportable

Fleet emissions are among the easiest to quantify, and they feed directly into your statutory carbon reporting.

Progress



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Energy Service

From a standing start to one in seven

<1%

2020



14%

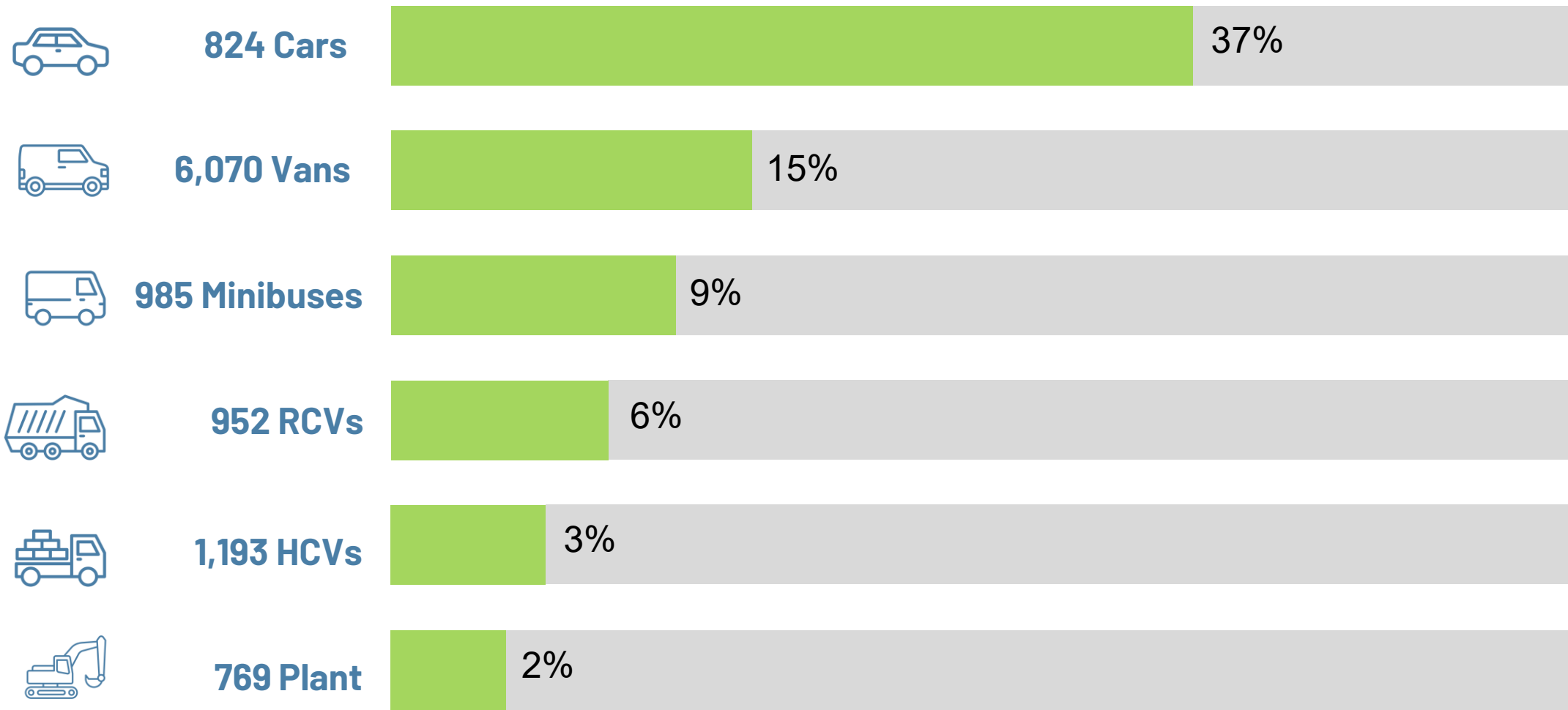
of the public sector fleet is now
zero-emission

x7

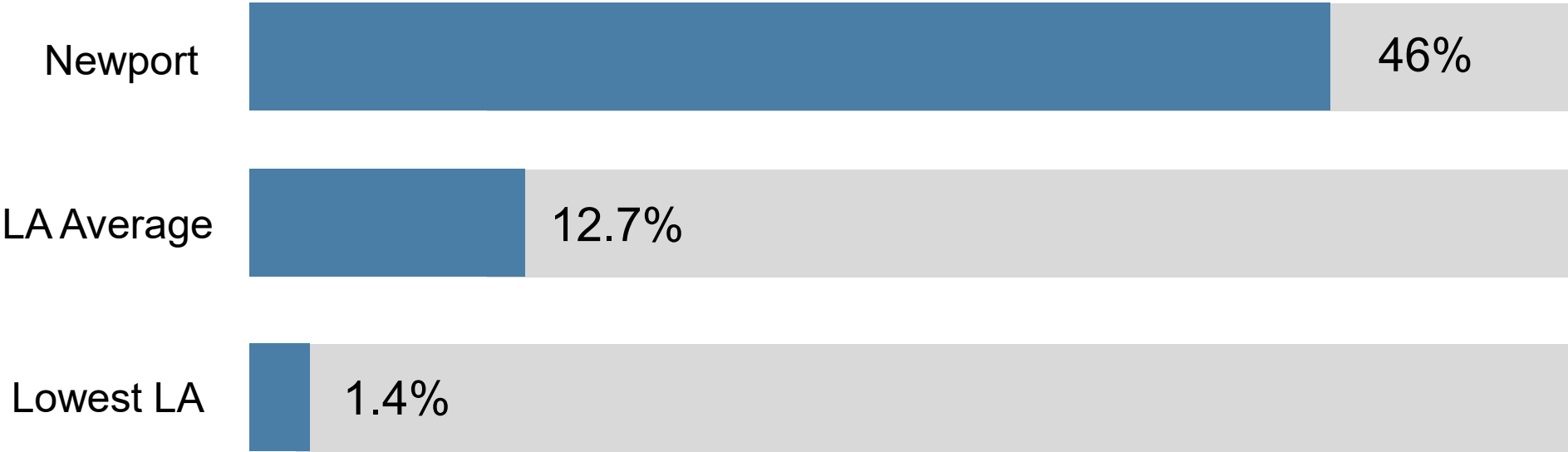
In ~5 years

These are operational vehicles on everyday public sector
duty cycles

Uptake across vehicle types – 9,653 in total, 1,223 ZEV’s on the road



Same vehicle and same targets. A 33-fold difference in outcome



 Newport Urban

 Merthyr Tydfil Valleys

 Denbighshire Rural

 Neath Port Talbot Mixed

Not just easy wins



Gwasanaeth Ynni
Energy Service

45.9%

of Newport's road fleet is
now zero-emission

Transition across a wide range of vehicle
types – not a fleet of small cars/vans

Cars

Vans

Specialist / operational

Heavier duty cycles

How they delivered – and how we helped

1

ZEV by default – the exec board agreed the rule – zero emission first procurement; diesel only where demonstrable case (usually nothing suitable on the market).

2

Ahead of the market – working with specialist suppliers on the framework to spot new vehicles early and run trials – staying at the front of the pack

3

Backed by Energy Service – grant funding, technical support and flexibility – keeping vehicle rollout and charging in step

Where progress stalls



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Energy Service

590 vehicles new to fleet in 25/26 were not zero emission

“New to fleet” – 2025-26 = owned, long-term lease & long-term lease hire (not short-term hire)

344

58% - genuine constraints

246

42% - avoidable

Some of the 344 may be explained

3.5t vans, 3.5t tippers, 4x4 LCVs – where a capable ZEV equivalent isn't always available.

The 246 that should have been ZEV

106 cars + 140 vans – where a viable ZEV equivalent exists, but diesel was purchased

Decision making

246

106 cars + 140 vans

Each has viable ZEV equivalent

A default set the wrong way at the moment of purchase.

Every diesel purchased today locks in 7-15 yrs of emissions, oil imports, and high maintenance costs.

Replacement cycle forecasting is vital.

Financial support



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Energy Service

The support is open to all. Take up is uneven.

10x

**difference in applications to our grant
programme between authorities**

Open to all public bodies

Yet applications vary hugely
across Wales – uneven
applications track uneven progress
closely

How the Energy Service can help



For the hard 344

Whole-life costing on emerging models, trials and grid-aware depot planning – so you're ready for when the vehicles arrive



For the 246

Data-led fleet reviews that robustly test ZEV viability for decision makers



For the funding gap

The grant programme is open to all – get in touch to discuss bids*

One ask: before you agree vehicle replacement – talk to us first

transport@energyservice.wales

*26/27 funding still to be confirmed



Prifysgol Metropolitan Caerdydd **Cardiff Metropolitan University**

Graham Lewis

salix 



Cardiff
Metropolitan
University

Prifysgol
Metropolitan
Caerdydd

Optimise first

Halve the Half™

Graham Lewis
Chief Officer University Environments



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The CMU Digarbon 2A Scheme

'S Block' - The Why



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2,800 children in CMU junior sport programme

2,250 Children in CMU Swimming lessons (2024-25)

Nofio Ysgol Framework

School Swimming Participation in Cardiff 57%
to 74%

Teaching, student use and community
inclusion – family, disability, women &
girls



1,000+ CMU students delivering Open Campus
sport and health interventions

Swimming, Welsh Rowing, indoor cricket,
netball, volleyball, futsal, badminton,
basketball, holiday camps, seminar rooms,
academic offices.

Digarbon Round 2a – S Block



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- Replacing asbestos roofing, walls
- Replacing gas heating, ventilation and legacy systems
- Solar PV (possible part substitution for solar thermal tbc)



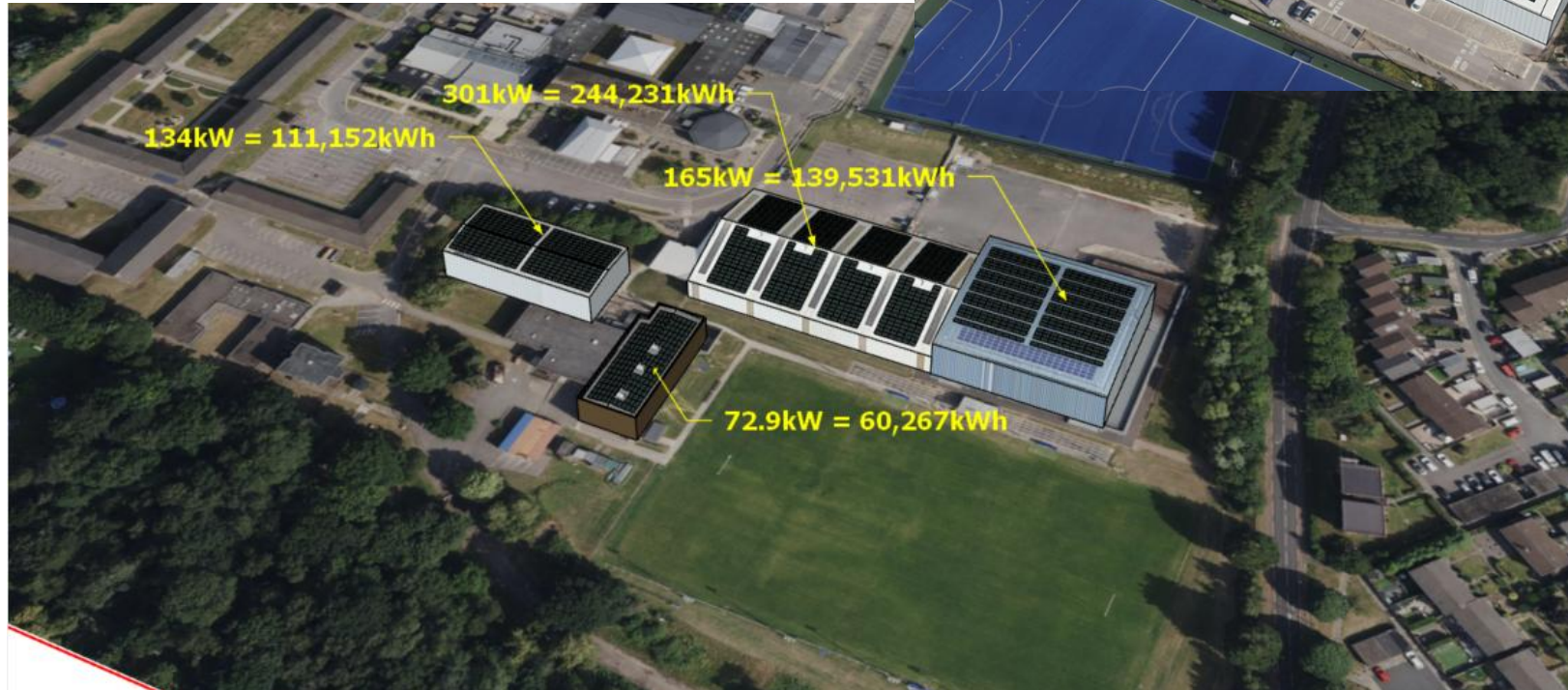
Renewable Generation with Battery Storage



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- 1.99 MWp Solar PV ~1.56 GWh per annum
(Total CMU consumption 2024/25 = 5.5GWh)
- 4,900%+ increase in generation with Digarbon & Ynni Cymru
- 5.1 MWh Battery Energy Storage System
- Electrical grid reconfiguration
- Future Heat electrification capacity created





Accelerated improvement to a key community-facing facility by March 2029



Cyncoed campus grid consumption reduced by 49%



Breakeven with energy inflation at 2% (excluding arbitrage income potential)



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Caerdydd

The CMU Digarbon 2B Schemes

Decarbonisation vs Infrastructure Replacement



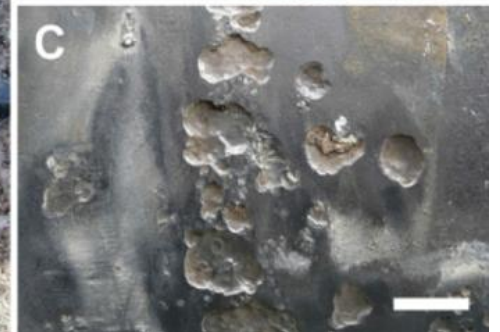
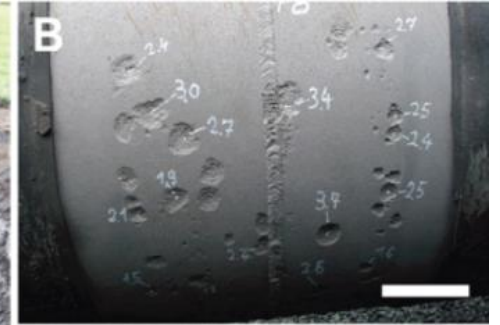
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Does the electrical grid need upgrading?

Existing below ground gas pipes may also need replacement.

Electrify... half the work.



Stock Photos for context:
not CMU specific

Gas boiler replacement

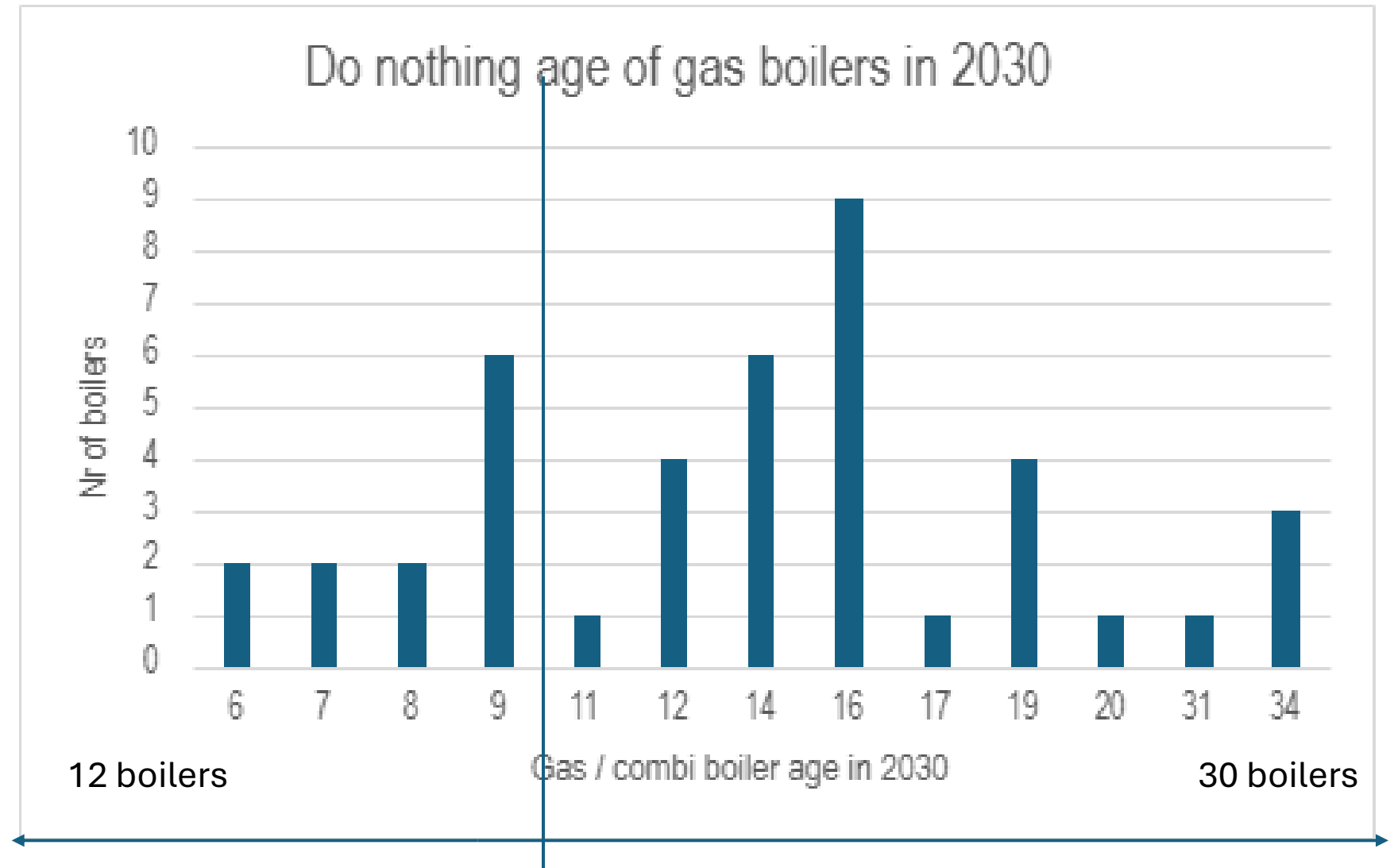


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By 2030, four boilers will be over 30 years old if not replaced with many more beyond their design life.

Decarb = Planned replacement with purpose



3 Campuses

Buildings by priority and potential

- +~1.6 MWh Solar PV; designed for future BESS.
- Electrification of heat – heat pumps and direct electric
- Roof replacements including thermal upgrade
- Single glazing replacement
- LED Lighting upgrades
- Controls

Delivery by March 2030

The Principles



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	Gas Boiler Replacements	Energy Generation	LED Upgrades	Roof Replacements	Single Glazing Replacement
Carbon Reduction	✓	✓	✓	✓	✓
Energy Cost Reduction	✓	✓	✓	✓	✓
Energy Security	✓	✓	✓	✓	✓
Condition and Compliance	✓		✓	✓	✓
Infrastructure Age/ Condition Mitigation	✓	✓	✓	✓	✓
Business Continuity Risk Mitigation	✓	✓		✓	
Internal Environment Improvement	✓	✓	✓	✓	✓
Payback <10yrs		✓	✓		

Solar potential and Roof Thermal Upgrades

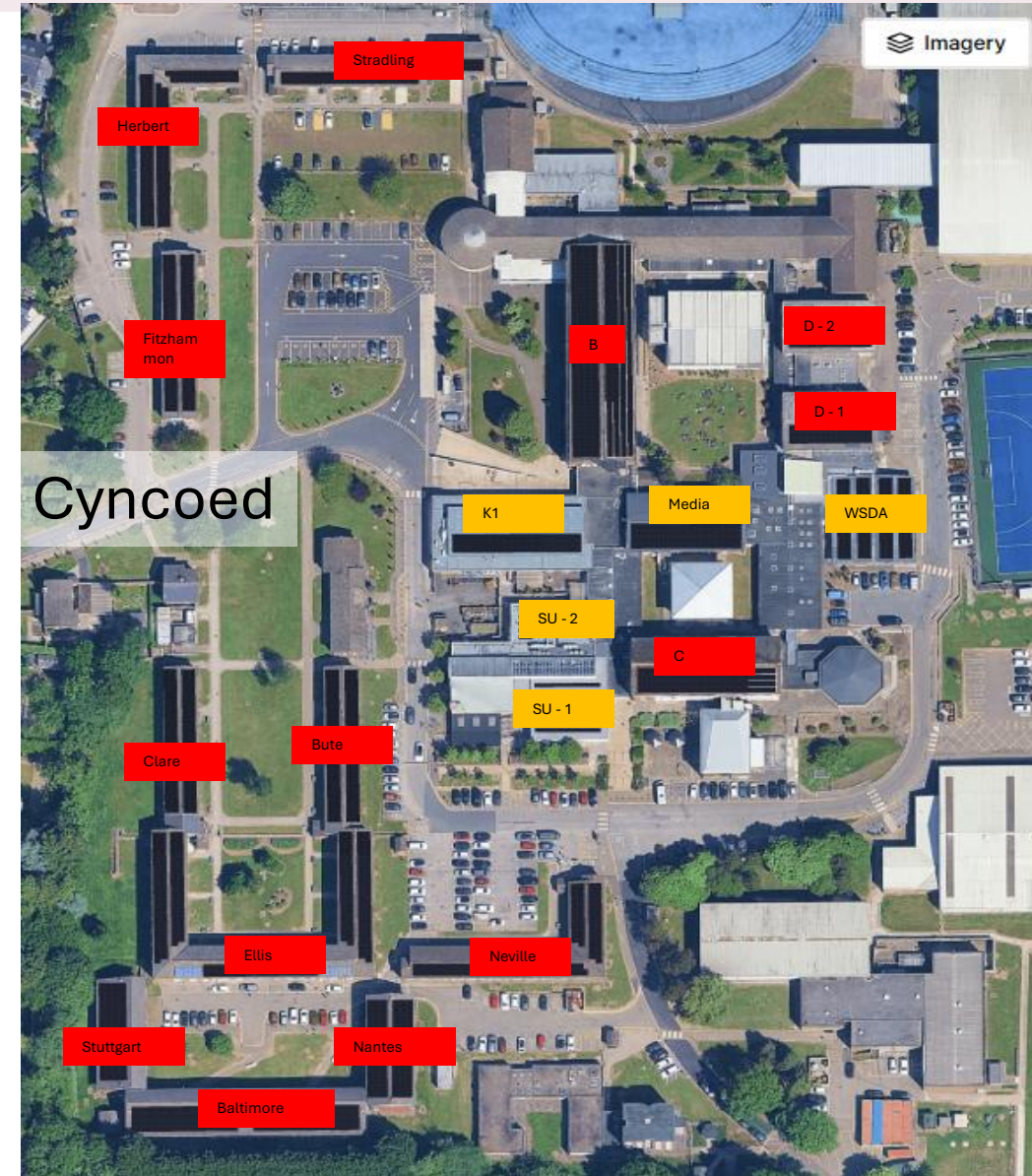


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Combined
generation ~60%
of current
electrical load





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Caerdydd

Halve the Half – Saving Cost and Carbon without Capital Funding

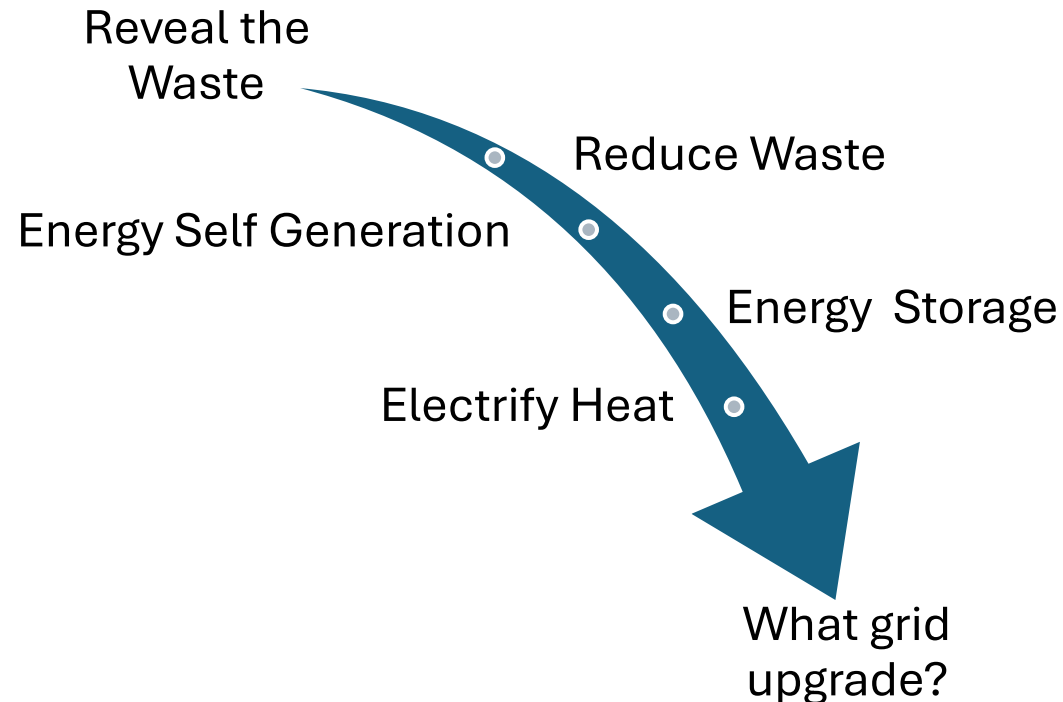
The Principles



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1. Optimise first, everything else later
2. Mitigate the spark gap
3. Behind the meter electrification

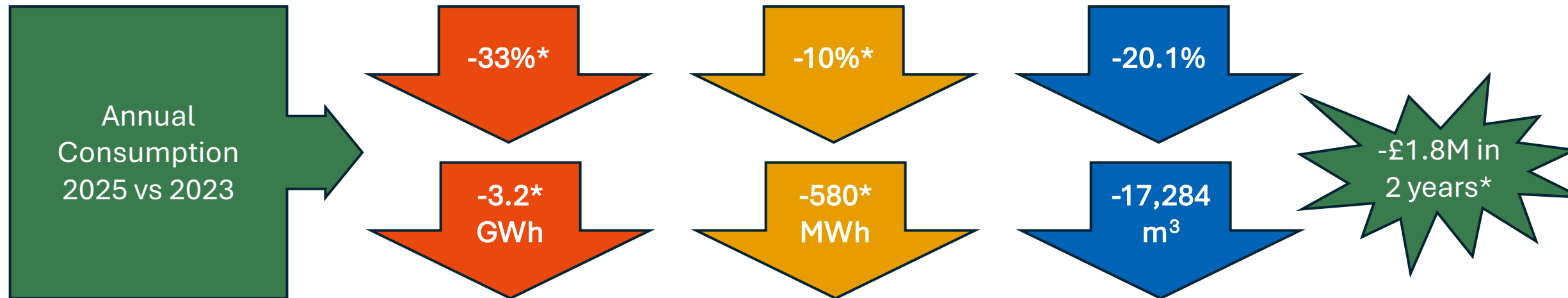


Consumption Reduction to December 2025



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Metropolitan
Caerdydd



Energy savings delivered within existing maintenance budgets

Excludes EV charging and fit payments

No Capital.

No grid upgrades.

No planning permission.

Informed by existing half hourly data

Buildings don't need energy, people do...



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55.3 %

University Electrical
use outside M-F 7-7

TEC: 70% UK Universities

1650 Fiscal Meters

56.1 %

University Gas use
outside M-F 7-7

60 %

Schools Out-of-
Hours Energy

Energy Sparks | Inspired
Efficiency | Barkers: 1700
Schools



**HALVE
THE HALF**

£750M+

Annual savings in
Education if we
Halve the Half

25% of DFE Budget 2024/25 +

25% of Energy Spend based on
Hesa spend 22/23



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Affordability Or Mitigating risk

Mitigating energy volatility

Global crude oil price (monthly average, nominal USD/bbl) 1978–2026

World Bank Commodities Price Data (The Pink Sheet) — "Crude oil, average" (\$/bbl) | worldbank.org/en/research/commodity-markets | Equally-weighted avg of Brent, Dubai Fateh & WTI (1984+); Arabian Light/Ras Tanura (pre-1984)

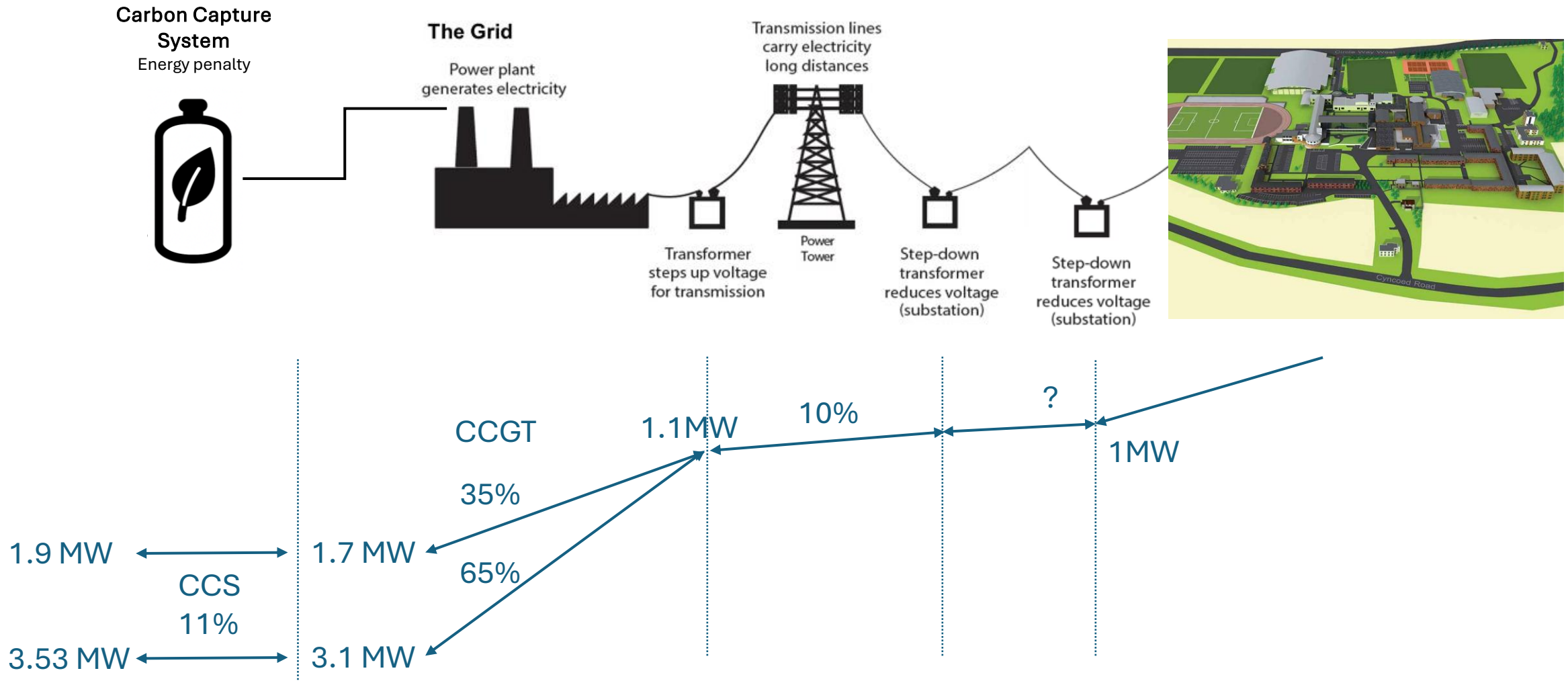


Net Zero – Upstream Grid Savings



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Rethinking MEP: Plant Replacement Criteria

Challenging the standards...



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Air Handling and Chillers:

Sized to achieve design parameters based on

- 100% occupancy
- on the maximum external temperature
- at the beginning and duration of the day.



Heating plant:

Sized to achieve design parameters based on

- 0% occupancy
- On the lowest external temperature
- From a cold start
- For the beginning and duration of the day

Challenge the standards...



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It's all oversized!

The opportunity:

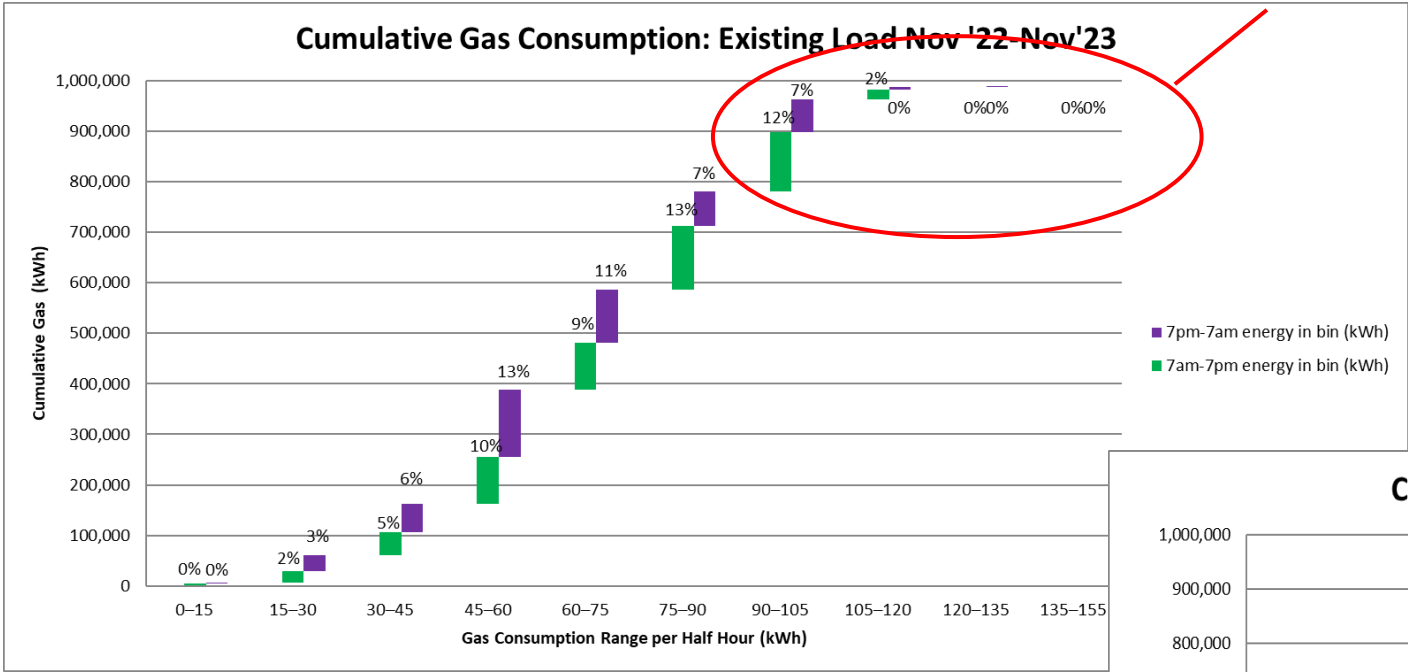
- Reduce plant and distribution sizing

- Reduce plant floor area

- Reducing peak loads therefore reducing grid impact, capital cost and reserved capacity cost

- Optimise plant efficiency curves for actual use

Replacement plant – “how big?”



Replacement boiler – 160kW?

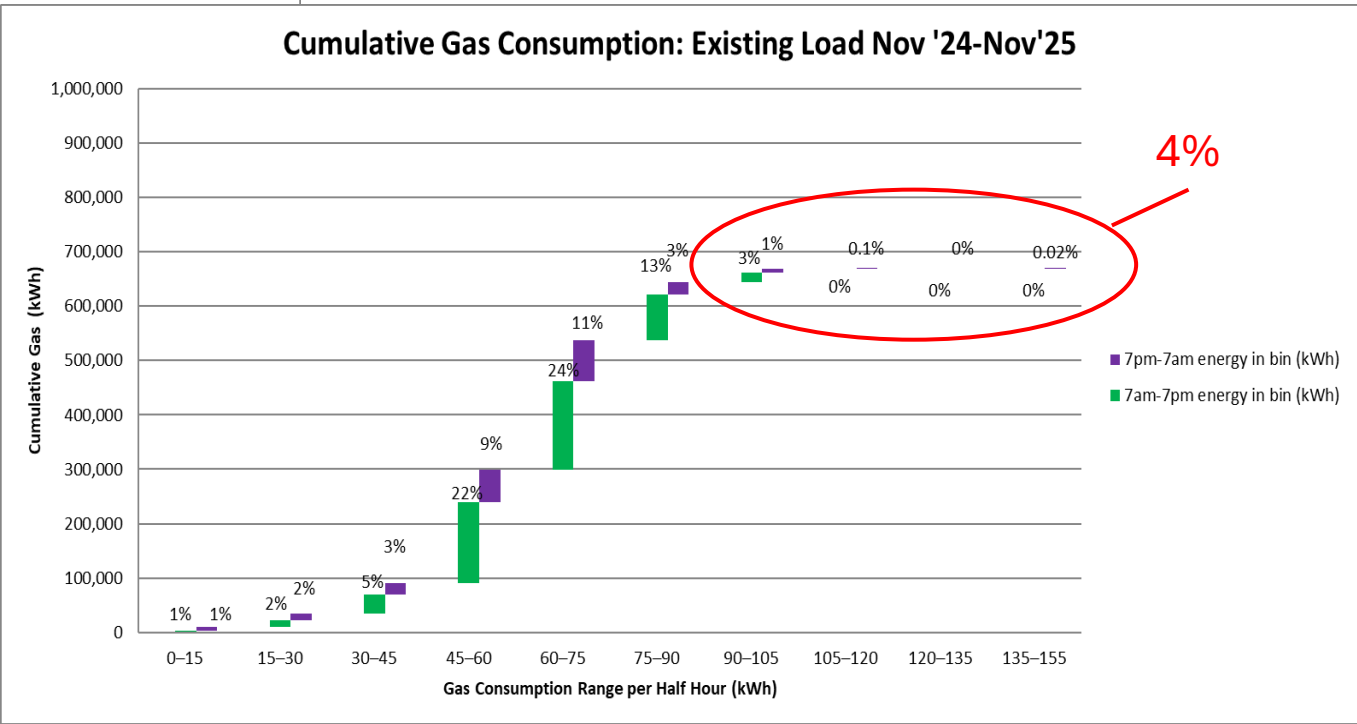
Peak load – 2 Consecutive Readings
2023

117kWh

2025

102kWh

(36% reduction)





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Halve the Half™ Phase 2:

Collaborating towards a Building Benchmark

Halve the Half: Phase 2 Pilot



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UNIVERSITY

Prifysgol Wrexham
Wrexham University

University of
South Wales
Prifysgol
De Cymru



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David



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Gwasanaeth Ynni
Energy Service



CIOB

The Chartered
Institute of Building



1872 PRIFYSGOL
ABERYSTWYTH
UNIVERSITY



University
of Glasgow



QUEEN MARY
UNIVERSITY OF LONDON

OXFORD
BROOKES
UNIVERSITY



East London
NHS Foundation Trust



Energy Sparks

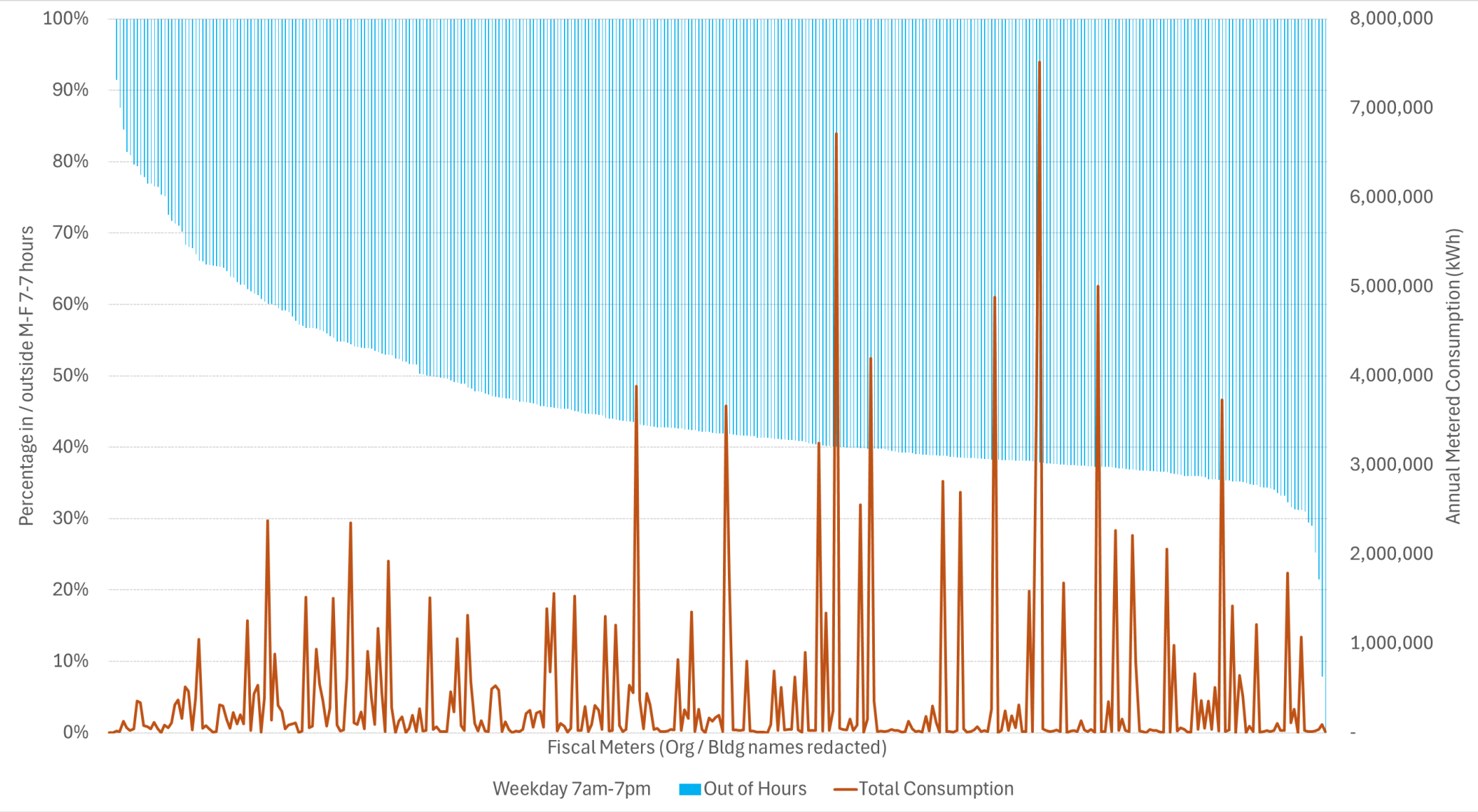
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UNIVERSITY OF
WESTMINSTER

THE
ROMAN
BATHS
BATH

Gas Sample: Non-core hours and volume



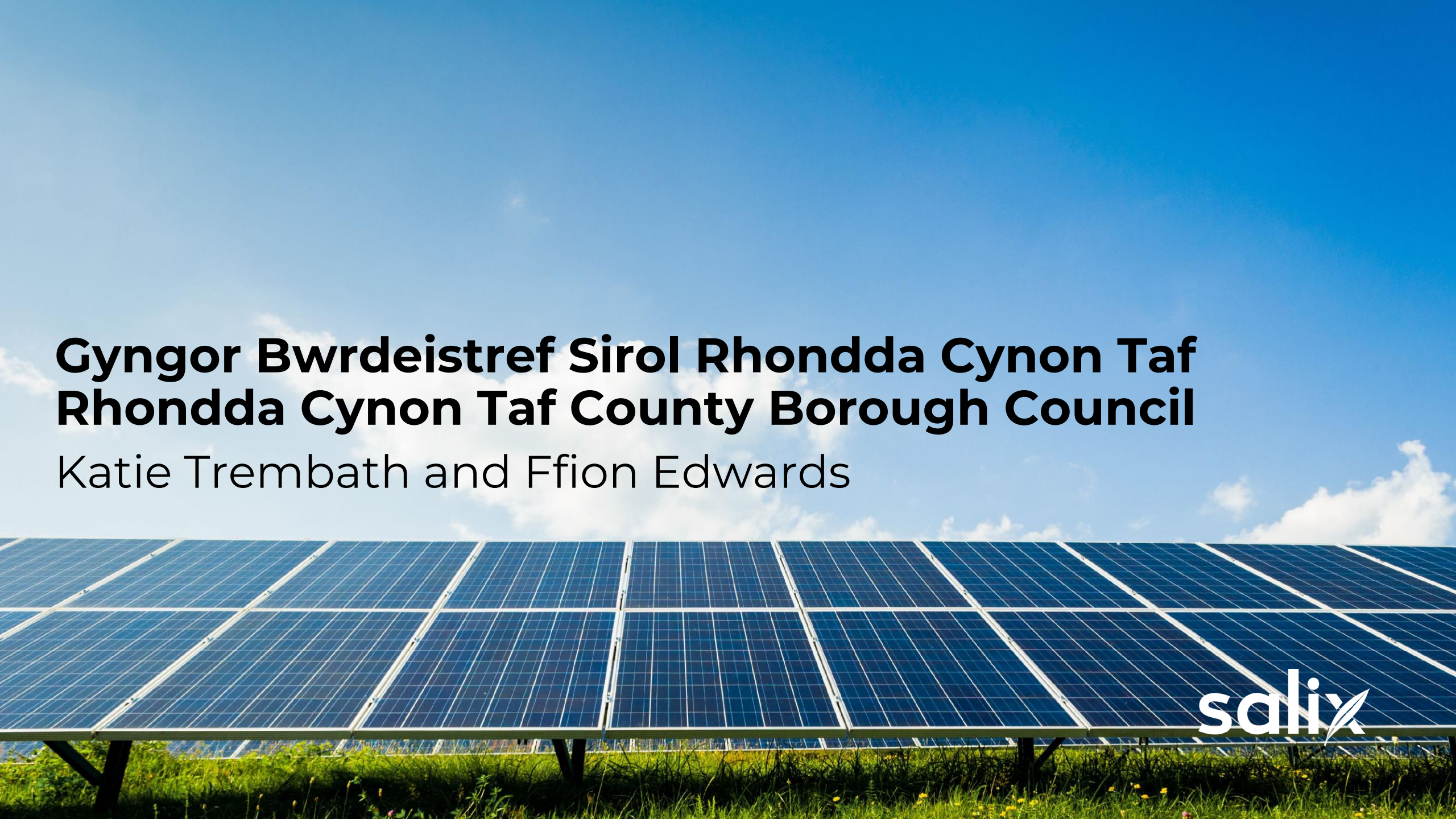


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Halve the Half™

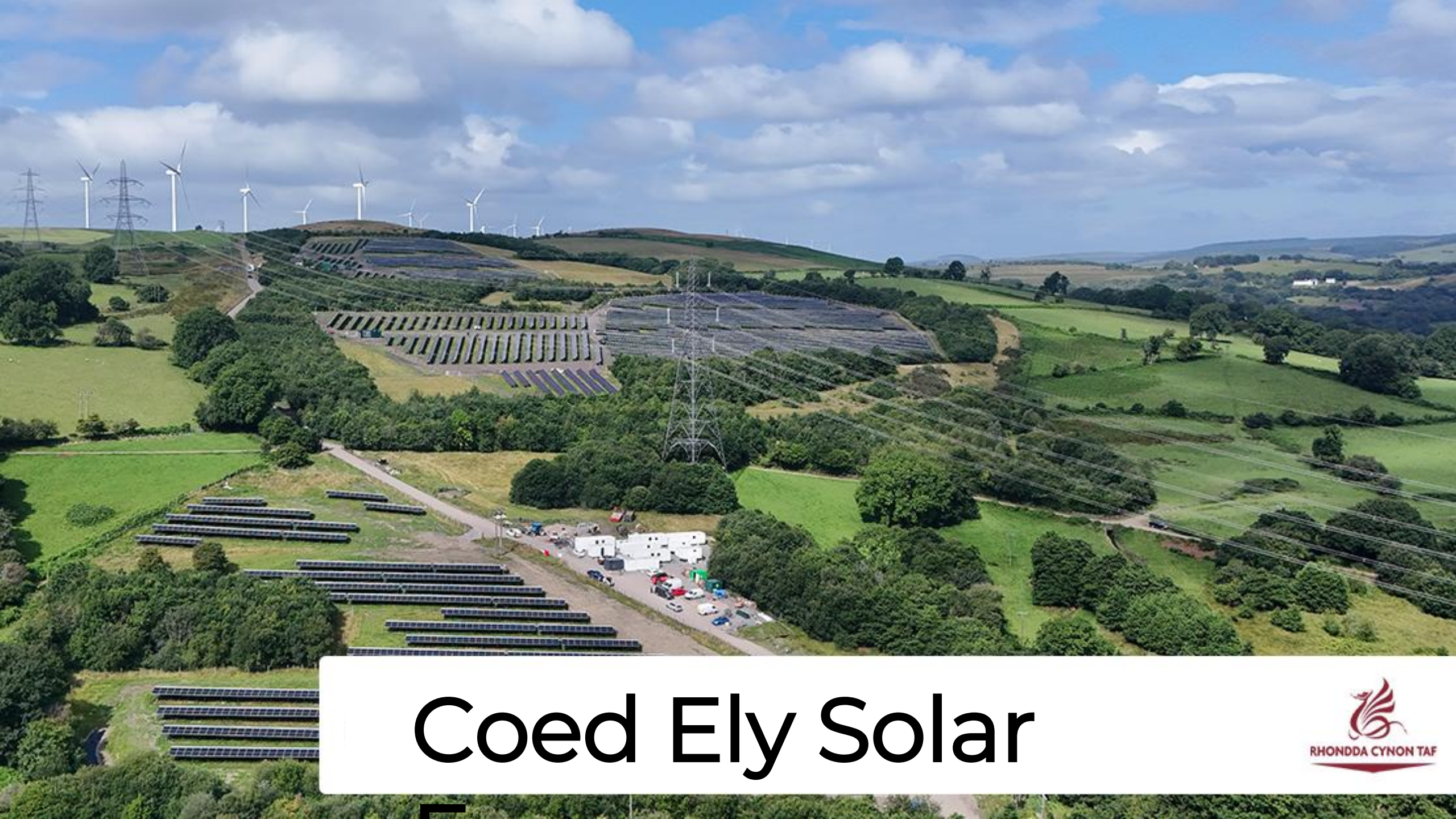
You have the power to make a difference



Gyngor Bwrdeistref Sirol Rhondda Cynon Taf Rhondda Cynon Taf County Borough Council

Katie Trembath and Ffion Edwards





Coed Ely Solar

Strategic Ambition and Policy Alignment



Climate Change RCT

Welcome to Rhondda Cynon Taf Council's climate change webpages. Here you can see how the Council is playing its part in helping to tackle climate change and further information on how you can too. It's time to 'Think Climate RCT'.



Long-Term Decarbonisation Commitment

The Council targets carbon neutrality by 2030 whilst contributing to Welsh Government's Welsh Public Sector Net Zero ambition.

Corporate Decarbonisation Strategy

Strategy for 2023-2025 sets priority actions, governance, and delivery for operational carbon reduction. 2025 - 20230 strategy under development.

Local Area Energy Plan

LAEP provides a framework for the local area to transition to a net zero local energy system by 2050 through coordinated partnerships.

Integrated Policy and Investment

Decarbonisation is embedded in policy, investment, and partnership decisions for lasting impact.

([Link](#) to the Council's Climate Change webpage).



Strategic Delivery, Monitoring and Funding

Strategic Delivery

Increase renewable energy generated from Council land or buildings from 2021/22 baseline (2MW) to 15MW by 2030

Carbon Monitoring and Reporting

Annual reporting under the Welsh Public Sector Net Zero Reporting Framework embeds decarbonisation into Council decision-making.

Funding and Investment

Delivery of decarbonisation projects remains heavily reliant on external grant funding to support large-scale schemes, including renewable energy projects such as Coed Ely Solar Farm.



Concept



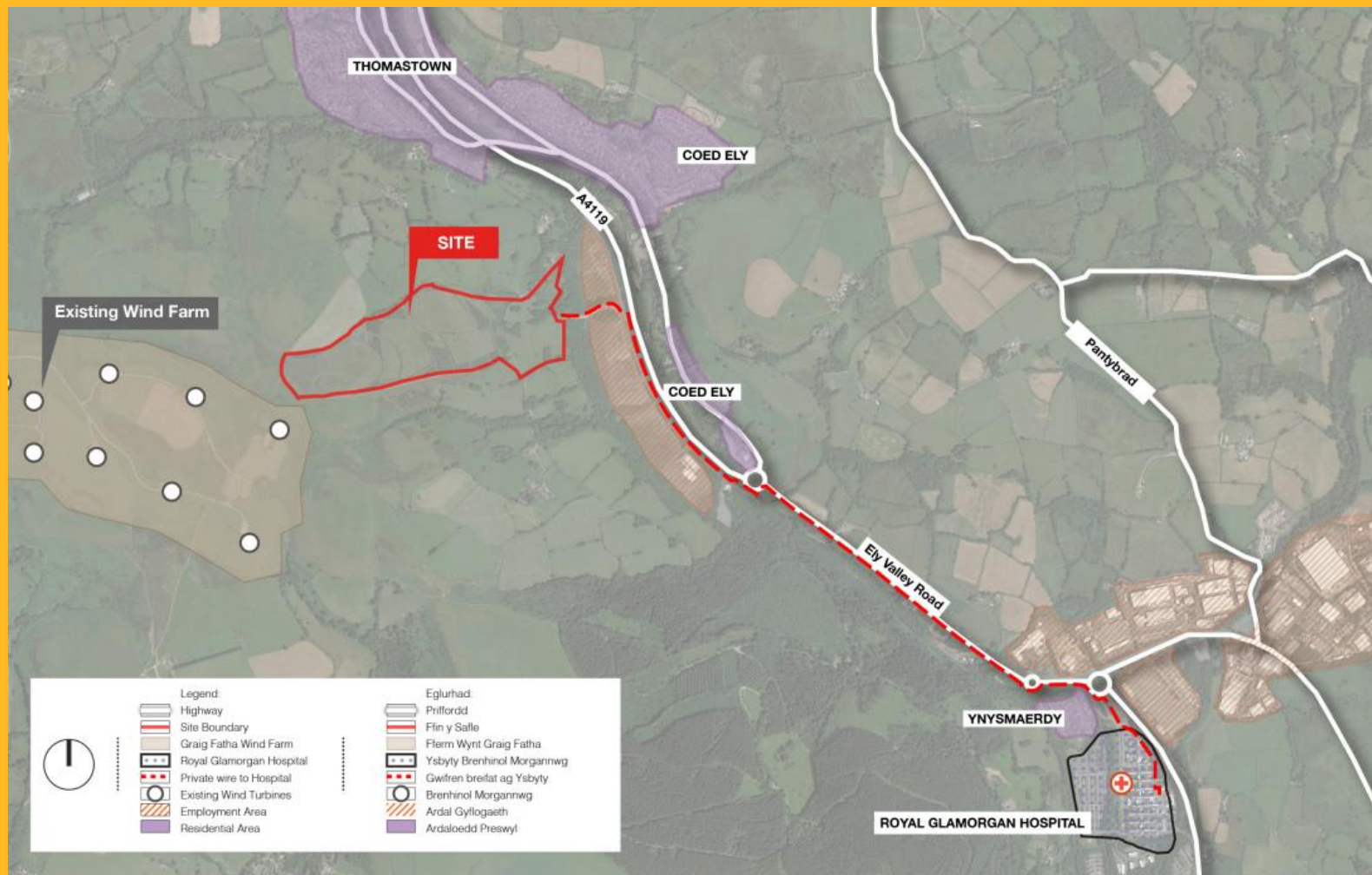
Grid Connection

- 5MW Export Only Grid Connection

nationalgrid



Private Wire



- 1MW Private Wire Connection to Royal Glamorgan Hospital

Private Wire





The Team



Llywodraeth Cymru
Welsh Government



Funded by
UK Government

Wedi ei ariannu gan
Llywodraeth y DU



GIG
CYMRU
NHS
WALES

Bwrdd Iechyd Prifysgol
Cwm Taf Morgannwg
University Health Board



Gwasanaeth Ynni
Energy Service



Stantec



DAVID CLEMENTS
ECOLOGY LTD



- SLACK MOUNTAINS ARCHAEOLOGY -
- ARCHAEOLOG Mynydd Du -



PART OF SLR

VITAL
ENERGI



Overview



- 9,408 solar PV panels have been installed and can generate 6MWh/year of electricity.
- This will save approximately 7,355 tonnes of carbon emissions over the project's lifetime.

Overview



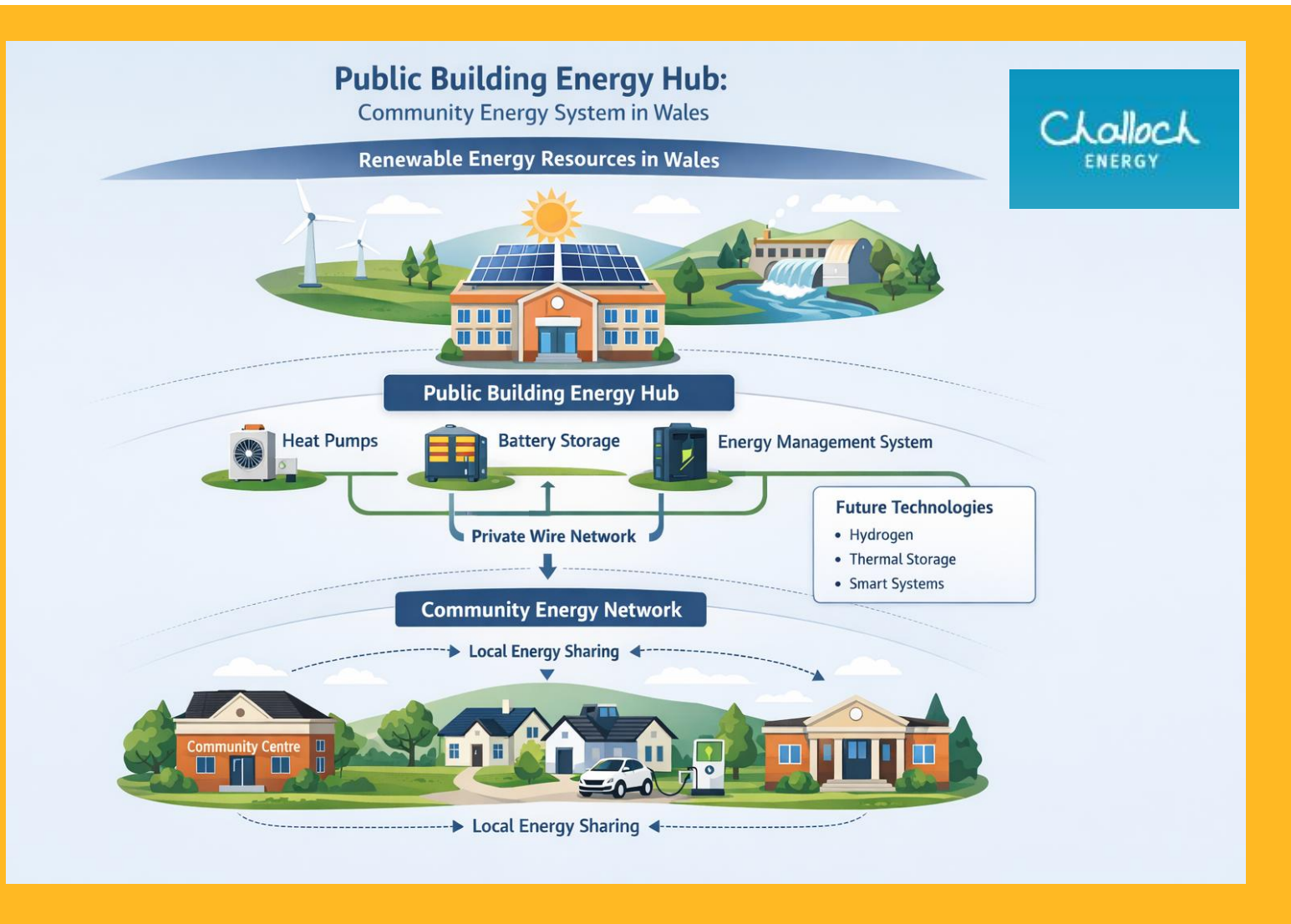
Challenges





Coed Ely Solar Farm

Local Energy Market



- Creation of a 'How to Guide' ready to be published late June 2026
- **PUBLIC BUILDING ENERGY HUB**
- Working together to decarbonise Wales' public buildings

Heriau a chyfyngiadau o datblygu prosiect **Challenges and constraints for project** **development**

Sesiwn Grŵp

Breakout session



Overview

- Explore the challenges and constraints faced during project development
- Work in groups, assigned a sector
 - Local Authority
 - Education
 - Health board
- Worksheet to support discussions
- Rank challenges on Slido
- Finish session with a whole group discussion

Trosolwg

- Archwilio'r heriau a chyfyngiadau a wynebir wrth ddatblygu prosiect
- Gweithio mewn grwpiau, neilltuo sector
 - Awdurdod Lleol
 - Addysg
 - Bwrdd Iechyd
- Taflen waith i gefnogi trafodaethau
- Rhestrwch y heriau ar slido
- Gorffen y sesiwn gyda thrafodaeth grŵp cyfan

Assigned sector:

Barrier mapping for project development



Project description	Barrier <i>Detail the obstacle</i>	Solution <i>Action(s) to overcome barrier</i>	Lessons learnt <i>Learnings to take forward</i>

Points to discuss

- 15 minutes to discuss
- Discussion points
 - What was difficult when developing the project?
 - Was sourcing funding difficult?
 - How did you overcome the challenge?



Pwyntiau i'w trafod

- 15 munud i drafod
- Pwyntiau trafod
 - Beth oedd yn anodd wrth ddatblygu'r prosiect?
 - A oedd dod o hyd i gyllid yn anodd?
 - Sut wnaethoch chi oresgyn y heriau?

Slido code:
2686711



Diolch am ymuno heddiw!

Thank you for joining today!

Mae croeso i chi ddefnyddio'r amser hwn i ofyn cwestiynau
Feel free to use this time to ask questions

www.salixfinance.co.uk

