



Llywodraeth Cymru  
Welsh Government

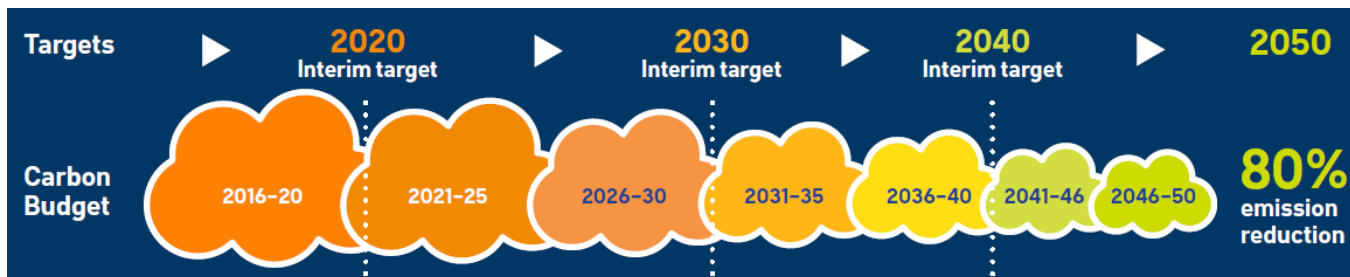
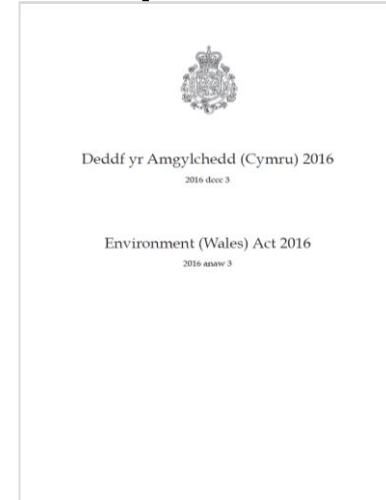
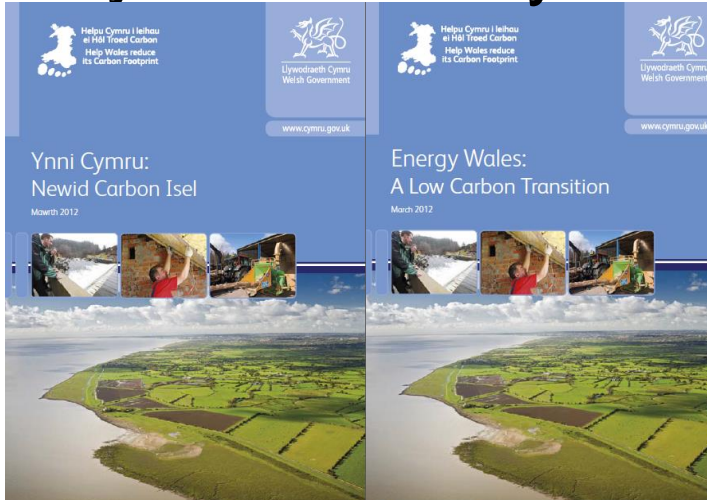
# **Jennifer Pride**

Is-adran Datgarboneiddio ac Ynni  
Llywodraeth Cymru

Decarbonisation and Energy Division  
Welsh Government

# Welsh Government policy context

## Llywodraeth Cymru cyd-destun polisi



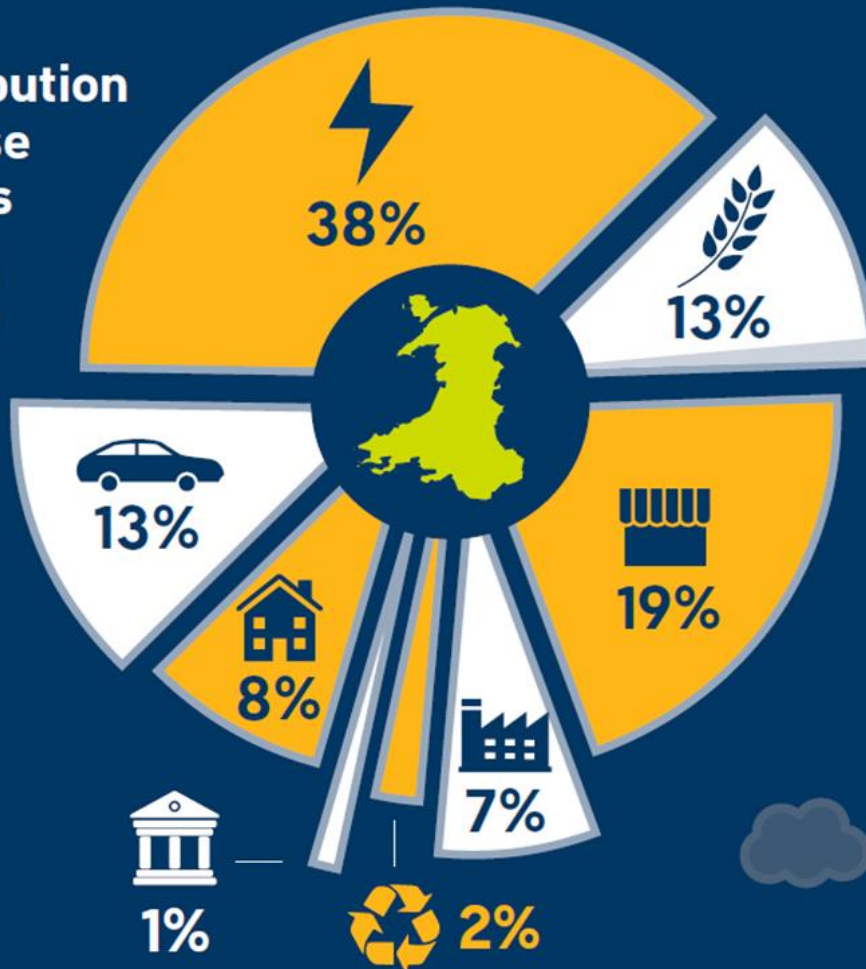


# Wales' commitment to tackling climate change

# Ymrwymiad Cymru i fynd i'r afael â'r newid yn yr hinsawdd

## Sector contribution of Green House Gas Emissions

## Cyfraniad y Sector o safbwynt Allyriadau Nwyon Tŷ Gwyr



Total Agriculture emissions in 2015 amounted to **13%**. Welsh sinks (e.g forestry) removed **1%** emissions, therefore, net Welsh emissions from Agriculture were **12%** for 2015.

Roedd cyfanswm allyriadau yn 2015 gyfwerth â **13%**. Roedd dalfeydd Cymreig (e.e. coedwigaeth) yn lleihau'r allyriadau **1%**. O'r herwydd allyriadau net Cymru ar gyfer 2015 oedd **12%**.

# Lesley Griffiths AC/AM

Ysgrifennydd y Cabinet dros Ynni,  
Cynllunio a Materion

Cabinet Secretary for Energy,  
Planning and Rural Affairs



Defnyddio ynni yn fwy effeithiol	To use energy more efficiently
Sicrhau ein bod yn llai dibynnol ar ynni sy'n dod o danwydd ffosil	To reduce our reliance on energy generated from fossil fuels
Rheoli'r newid i economi carbon isel	To actively manage the transition to a low carbon economy

## Targedau Ynni

Bydd Cymru yn cynhyrchu 70% o'r trydan mae'n ei ddefnyddio trwy ddefnyddio ynni adnewyddadwy erbyn 2030.

Bydd un gigawatt o gapasiti ynni adnewyddadwy o dan berchnogaeth leol erbyn 2030.

Bydd gan brosiectau ynni adnewyddadwy newydd o leiaf un elfen o berchnogaeth leol erbyn 2020

## Energy Targets

Generate 70% electricity consumption from renewable energy by 2030.

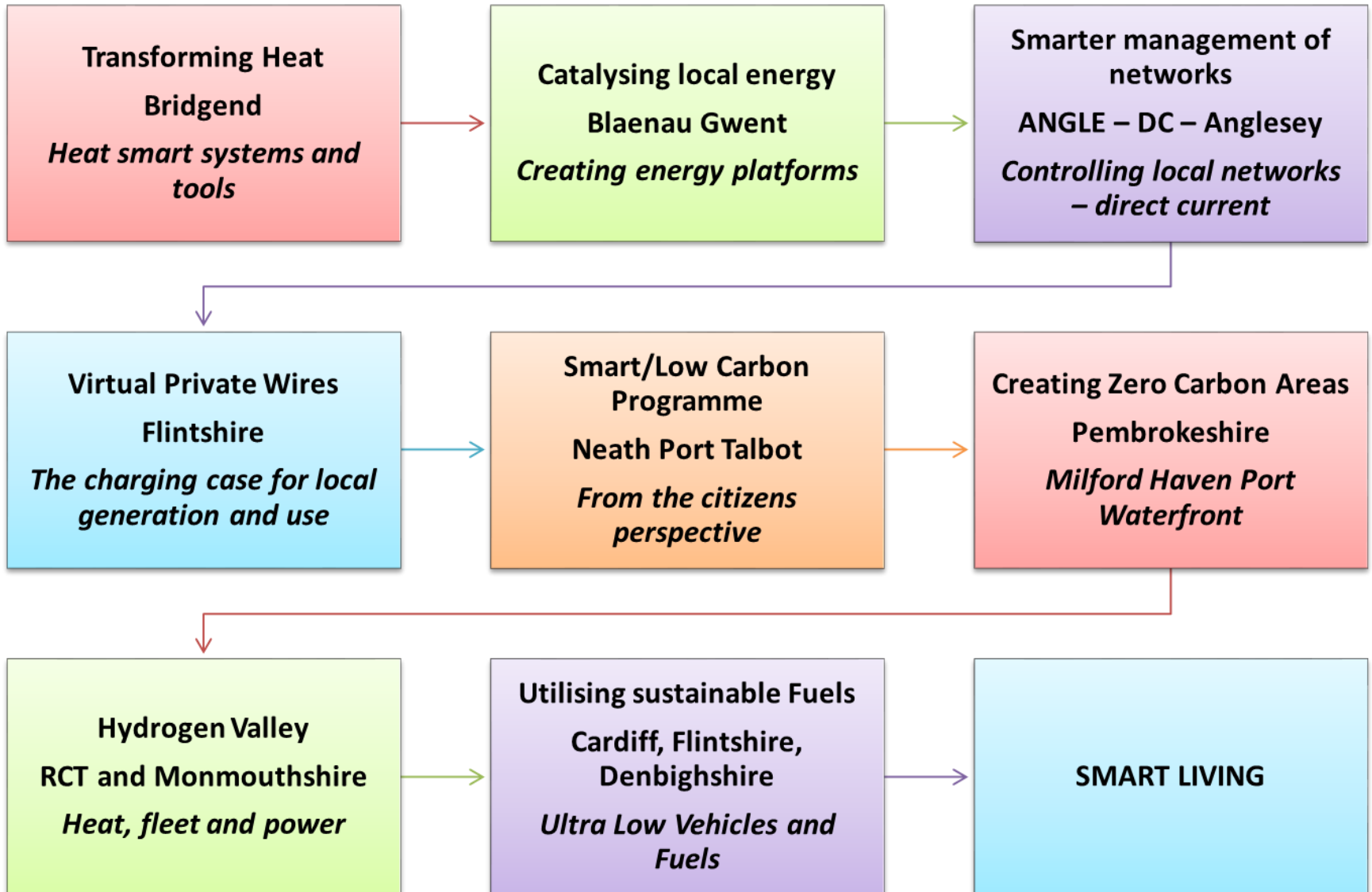
1 GW renewable electricity capacity locally owned by 2030.

New renewable energy projects to have at least an element of local ownership by 2020.

# Edrych Ymlaen / Looking Forward

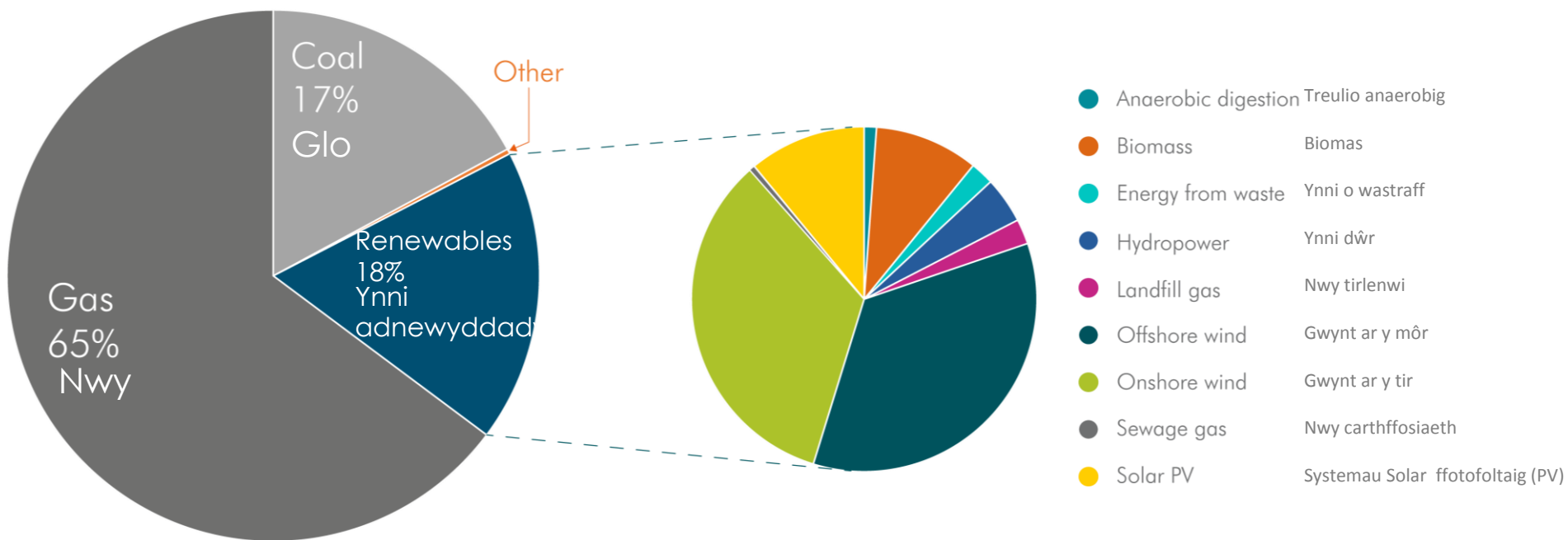
- Pherchenogaeth o ddatblygiadau
- Grid a seilwaith
- Gwres
- Defnydd tir a mapio adnoddau
- Cynhyrchu ynni o danwydd ffosil
- Ownership of developments
- Grid and infrastructure
- Heat
- Land use and resource mapping
- Generation of energy from fossil fuels

# Byw yn Ddoeth/Smart Living



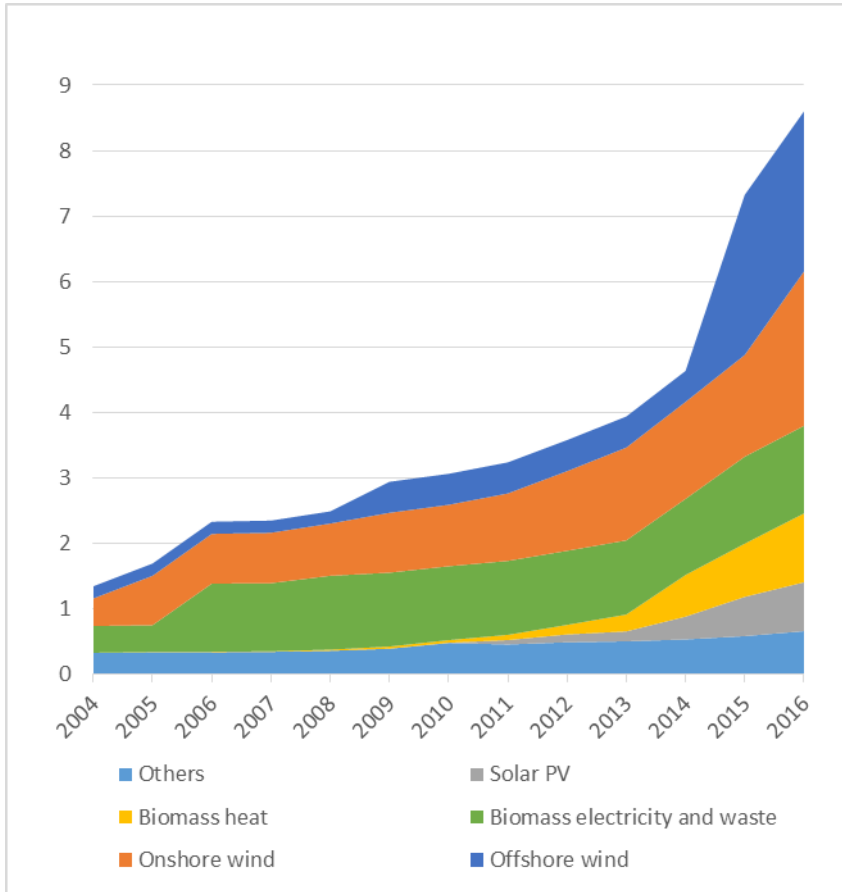
# Cyfanswm y trydan gaiff ei gynhyrchu yng Nghymru

## Total electricity generation in Wales





# Renewable Energy Generation Cynhyrchu Ynni Adnewyddadwy



Yn 2016, amcangyfrifir bod 43% o'r trydan a ddefnyddir yng Nghymru yn dod o ynni adnewyddadwy

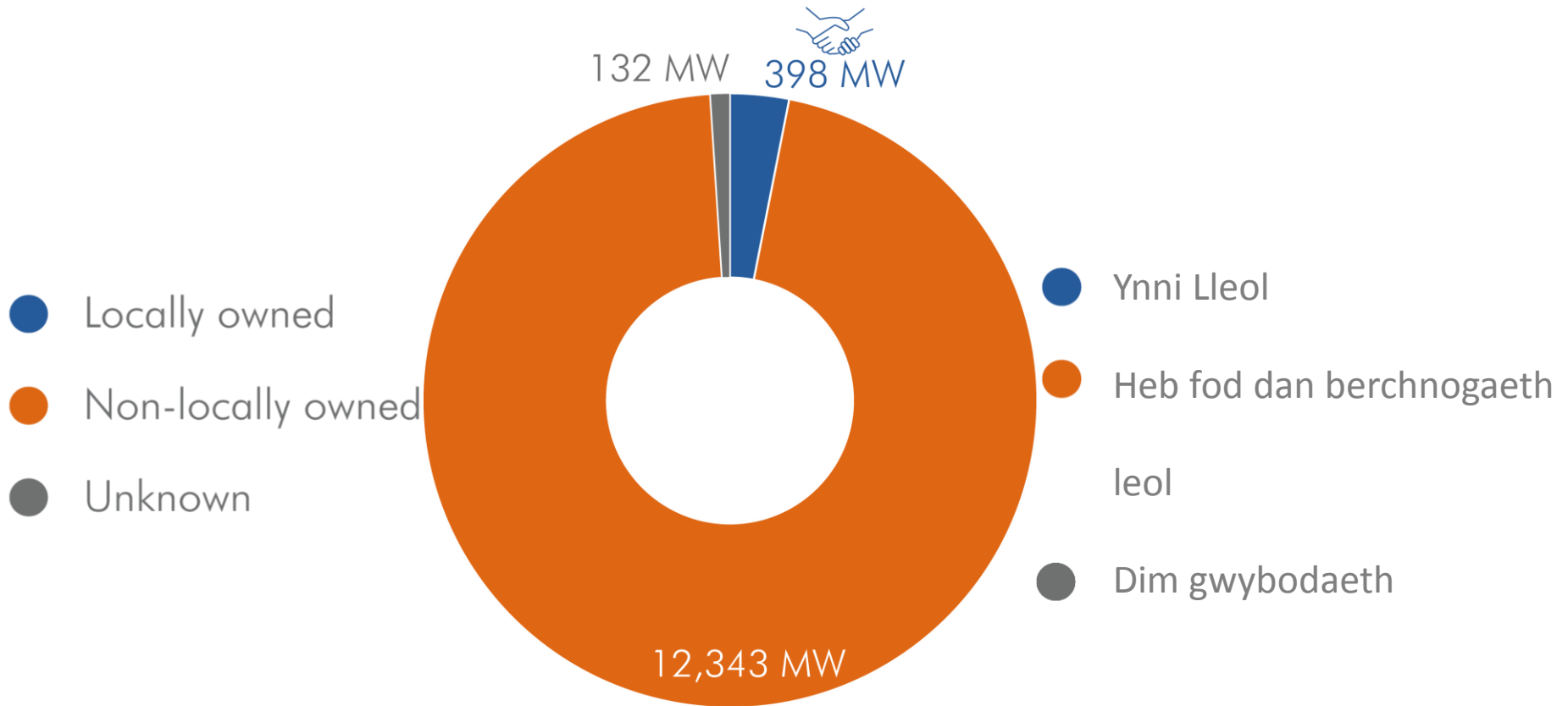
In 2016, it is estimated 43% of **electricity** consumption in Wales was met by renewable generation.

# Capasiti Trydan

Dan berchnogaeth leol a heb fod yn lleol

## Electricity Capacity

Locally and non-local owned





Llywodraeth Cymru  
Welsh Government

# Ynni Adnewyddadwy o dan Berchnogaeth Leol Cais am Dystiolaeth

Locally owned renewable energy  
A call for evidence

## Ein nod

- Casglu tystiolaeth ynghylch sut y gall cynhyrchu ynni adnewyddadwy sicrhau buddion ar gyfer Cymru a rhannu'r buddion hyn mewn modd mwy cyfiawn.
- Ein nod yw defnyddio'r cais am dystiolaeth i helpu i nodi'r heriau y bydd n rhaid i ni gyd eu trechu er mwyn llwyddo i gynhyrchu rhagor o ynni adnewyddadwy o dan berchnogaeth leol a chydberchnogaeth.

## Our aim

- Secure benefits for Wales and spread this benefit in a more equitable way.
- Use the call for evidence to help identify the challenges we all will need to overcome to deliver more renewable generation in local and shared ownership.

# Beth yw perchnogaeth leol? What is local ownership?



## **Perchnogaeth gymunedol**

Ein diffiniad ni o osodiad cymunedol yw datblygiad ynni a leolir yng Nghymru sydd yn hollol o dan berchnogaeth menter gymdeithasol ac y mae ei enillion yn ymrwymedig mewn cyfraith i gyflawni amcanion cymdeithasol a/neu amgylcheddol yng Nghymru.

## **Cydberchnogaeth**

Diffiniad cydberchnogaeth yw prosiect sydd o dan berchnogaeth mwy nag un endid cyfreithiol.

## **Community Ownership**

We define a community installation as an energy development located in Wales which is wholly owned by a social enterprise whose assets and profits are legally committed to the delivery of social and/or environmental objectives in Wales.

## **Shared ownership**

Shared ownership is a project owned by more than one legal entity.

# Current position on ownership

Local ownership in Wales

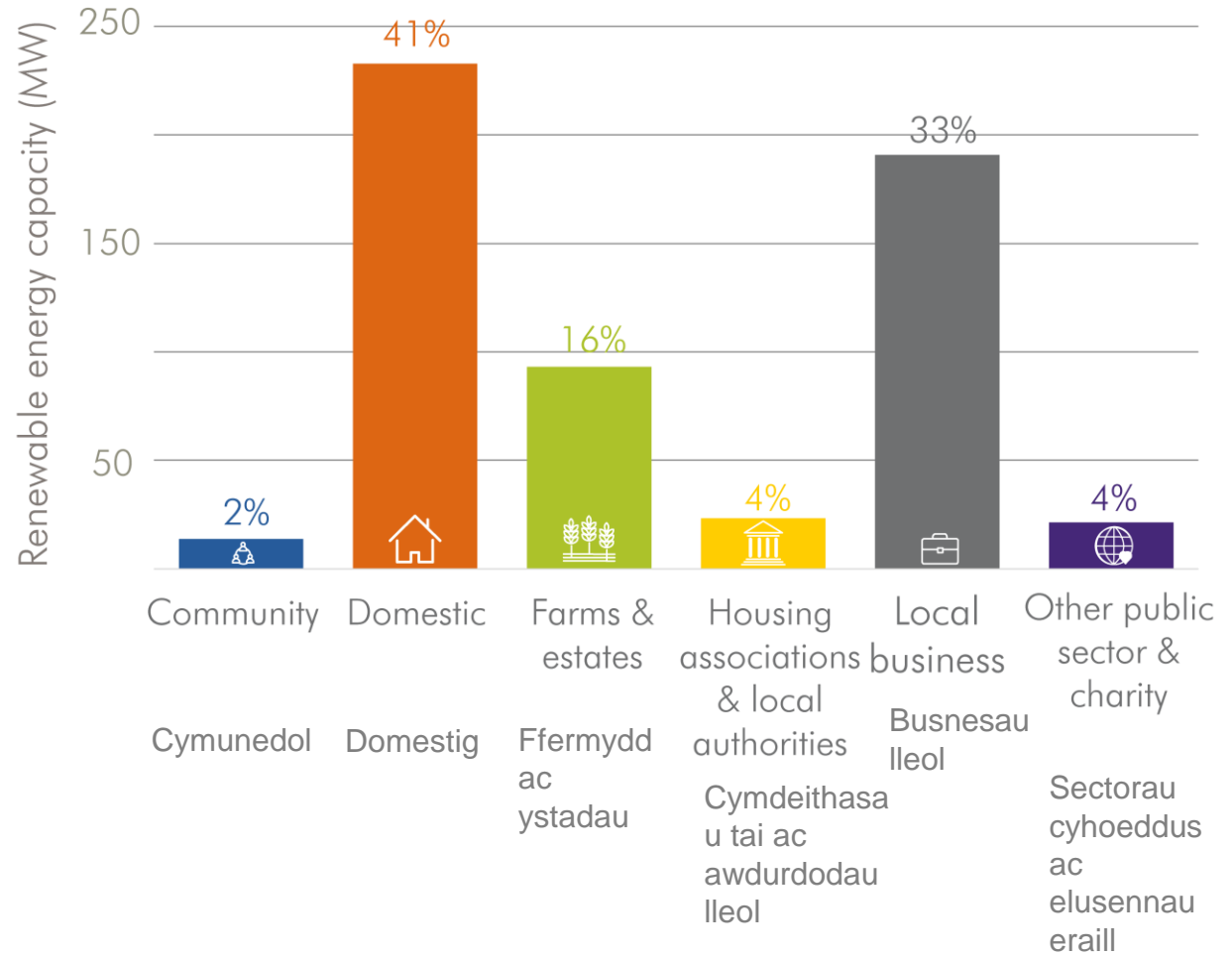
62,421 projects

Y sefyllfa bresennol mewn perthynas â pherchnogaeth

Perchnogaeth leol yng Nghymru

62,421 o brosiectau

# Energy Capacity Capasiti Ynni



Energy Generation in Wales

# Cynhyrchu ynni Energy Generation

Perchnogaeth leol  
yng Nghymru

62,421 o  
brosiectau

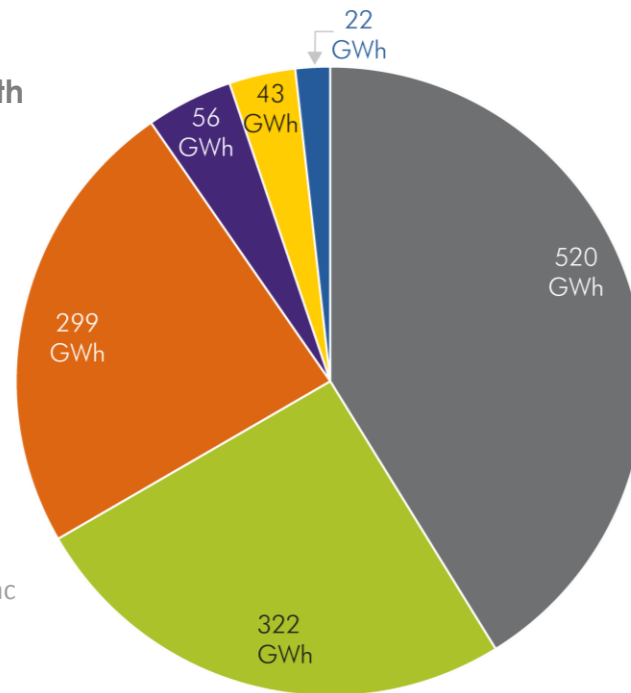
Local ownership in  
Wales

62,421 projects

Cynhyrchu yn ôl y  
math o berchnogaeth



Generation by  
ownership type



Energy Generation in Wales



Cynhyrchu

Trydan

Dan

berchnogaeth

leol gan ardal

awdurdod lleol

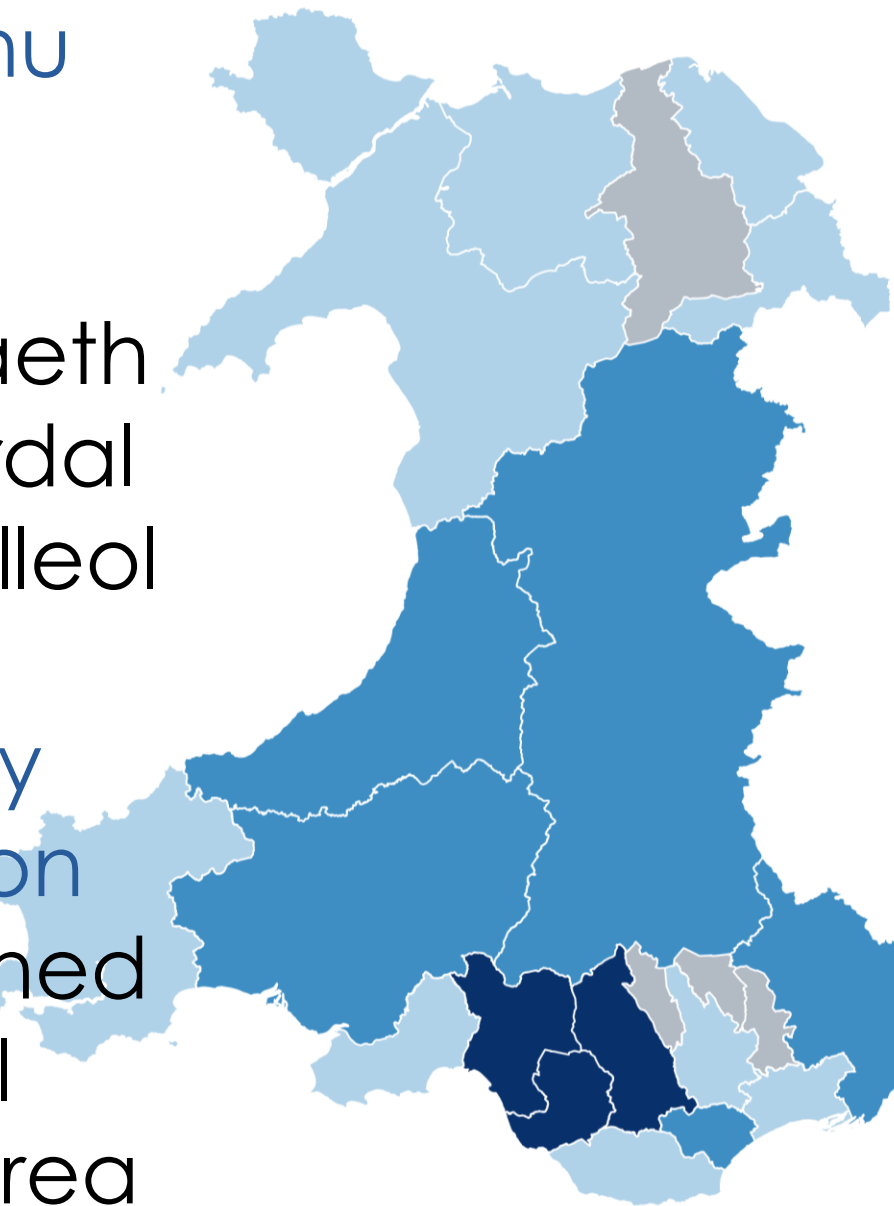
Electricity

Generation

Locally owned

by local

authority area



Cynhyrchu  
trydan  
adnewyddadwy  
dan

berchnogaeth  
leol (GWh)

>10 - 25

>25 - 50

>50 - 140

Locally owned  
renewable  
electricity  
generation  
(GWh)

# Targed Perchnogaeth Leol Local Ownership Target

1GW

o gapasiti  
cynhyrchu ynni  
adnewyddadwy  
o dan  
berchnogaeth  
leol erbyn 2030  
targed 2030

1GW

of renewable  
electricity  
capacity in  
Wales to be  
locally owned

2014



21%

2016



40%

targed  
2030 |  
target |

200

400

600

800

1,000

Locally owned renewable electricity capacity (MW)  
Capasiti trydan adnewyddadwy o dan  
berchnogaeth leol (MW)



- Benefits
- Challenges
- Ownership models
- Finance & role of investment mechanisms and energy company

- Manteision
- Heriau
- Modelau perchnogaeth
- Cyllid & rôl dulliau buddsoddi a chwmni ynni



# Manteision/Benefits



# Heriau/Challenges

**Lleol Energy**  
Gwasanaeth Cefnogi Ynni Adnewyddadwy Llywodraeth Cymru

English Chwilio

Pecyn Cymorth Ynni Lleol Porth Partneriaeth Adnoddau a Cymorth Newyddion Amdanom

Local Energy Toolkit Partnership Portal Reso

Home > Partnership Portal

## Partnership Portal

**The Partnership Portal is designed to enable organisations and groups to work together to progress renewable energy projects.**

The Partnership Portal aims to support community owners of renewable energy projects. The Portal can be used by community groups to post information about their project, by potential partners or investors who would like to support a project in their area, and by existing community-scale renewable energy schemes who are willing to share their experiences and offer peer support.

**You are welcome to post information in Welsh or English. Your post will then appear on the Welsh or English website depending on your language choice. To appear on both websites, you are welcome to submit your post**

Cartref > Porth Partneriaeth

## Porth Partneriaeth

Dyluniwyd y Porth Partneriaeth er mwyn galluogi sefydliadau a grwpiau cymunedol i gydweithio i ddatblygu prosiectau ynni adnewyddadwy.

Nod y Porth Partneriaeth yw cynorthwyo perchenogaeth gymunedol o brosiectau ynni adnewyddadwy. Gall grwpiau cymunedol ddefnyddio'r Porth i bostio gwybodaeth ynglŷn â'u prosiect, a gall gael ei ddefnyddio gan ddarpar bartneriaid neu fuddsoddwyr sy'n awyddus i gefnogi prosiect yn eu hardal, a gan gynlluniau ynni adnewyddadwy cymunedol presennol sy'n fodlon rhannu eu profiadau a chynnig cymorth cyfoedion.

Select type of post to add:

- YCHWANEGWCH PROSIECT
- YCHWANEGWCH FUDDSODDWR
- ADD A PROJECT
- ADD AN INVESTOR
- ADD PEER SUPPORT

# Modelau Perchnogaeth Ownership Models



**Energy Local**

**Ynni Lleol**

gwneud i ynni weithio i chi



**Dŵr Cymru**  
**Welsh Water**



# Cyllid / Finance



# Y camau nesaf

Ymatebion erbyn  
30 Mawrth 2018!

Diolch!

## Next Steps

Responses by 30  
March 2018!

Thanks!



Credit: Carmarthenshire Energy