North Wales Energy Strategy Our baseline energy Our vision for 2035 assessment "Delivering maximum local economic, We consume 23% of total social, ecological and wellbeing benefits energy consumed in Wales from transitioning to a net zero economy We host 37% of Wales' and becoming a net exporter of low

- renewable energy capacity
- 0.7% of our homes use a biomass boiler or heat pump
- We have 1.183 MW of renewable energy installed in the region, of which 8% is locally owned
- Our total energy consumption fell by 5% between 2005 and 2017 and the greenhouse gas emissions from our energy system fell by 28%
- Commercial and industrial electricity consumption constitutes 71% of all electricity consumption in the region
- Transport is dominated by private car use with 0.1% of cars pure electric
- 36% of our homes are EPC band E. F or G

Transport

30%

Our sectoral energy demand split:

Domestic 30,000 homes insulated

Energy vision

assumptions

EPC band D, C and B

ossil fuel to low carbon heating

No new gas

connections from

2025

Commercial

& industrial

• 16% energy demand

reduction

· Switch to alternative fuels

and electrification of

· Behind the meter

- 65,500 heat pumps installed • 35% of homes improved to • 67,000 homes moved from

Road transport

- 55% of vehicles electric by 2035
- 2,600 gas HGVs and 1,000 hydrogen vehicles

55%

 15% reduction in private vehicle mileage Increased public transport and active travel







north wales economic ambition board bwrdd uchelgais economaidd gogledd cymru



Domestic efficiency





Domestic heat





Achieving our energy vision

To be on track for net zero by 2050, we need to reduce emissions from our energy system by 55% by 2035. Energy modelling achieves this reduction split by sector as follows:

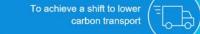


Our energy vision is also supportive of the ambitions of the Wellbeing of Future Generations (Wales) Act 2015.

£15 billion spend required to achieve our energy vision

Not all of the jobs will be held by North Wales residents; some jobs will be held by persons outside of the region

The additional jobs associated with this vision will require strengthening and building new skills within the region



the region's housing and

North Wales' building stock

carbon electricity through cross-border

the energy mix

To harness the abundance of local

low carbon resources to become a

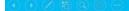
To improve the energy efficiency of

accelerate the decarbonisation of

green powerhouse and diversify

and regional cooperation"

Our priorities



^{*} all figures shown are approximate values