North Wales Energy Strategy

Our vision for 2035

"Delivering maximum local economic, social, ecological and wellbeing benefits from transitioning to a net zero economy and becoming a net exporter of low carbon electricity through cross-border and regional cooperation"

Our priorities



To harness the abundance of local low carbon resources to become a green powerhouse and diversify the energy mix



To improve the energy efficiency of the region's housing and accelerate the decarbonisation of North Wales' building stock

To achieve a shift to lower carbon transport



Our baseline energy assessment

- We consume 23% of total energy consumed in Wales
- We host 37% of Wales' 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

65,500 heat pumps installed • 35% of homes improved to EPC band D, C and B

• 67,000 homes moved from ossil fuel to low carbon heating

& industrial

 No new gas connections from

> 2025 **Energy vision** Commercial

assumptions

- 16% energy demand reduction
- · Switch to alternative fuels and electrification of
 - · Behind the meter

Road transport

- 55% of vehicles electric by 2035
- 2,600 gas HGVs and 1,000 hydrogen vehicles 15% reduction in private
- vehicle mileage Increased public transport and active travel

55%

Road

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Estimated economic impacts of achieving our energy vision:

Electricity generation





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

* all figures shown are approximate values