

electricity
north west

Bringing energy to your door



Energy Challenges in the pathway to Net Zero

ENWL and Cadent

Stay connected...



www.enwl.co.uk

Pathways - Established by the providers to inform the region's energy infrastructure plans.

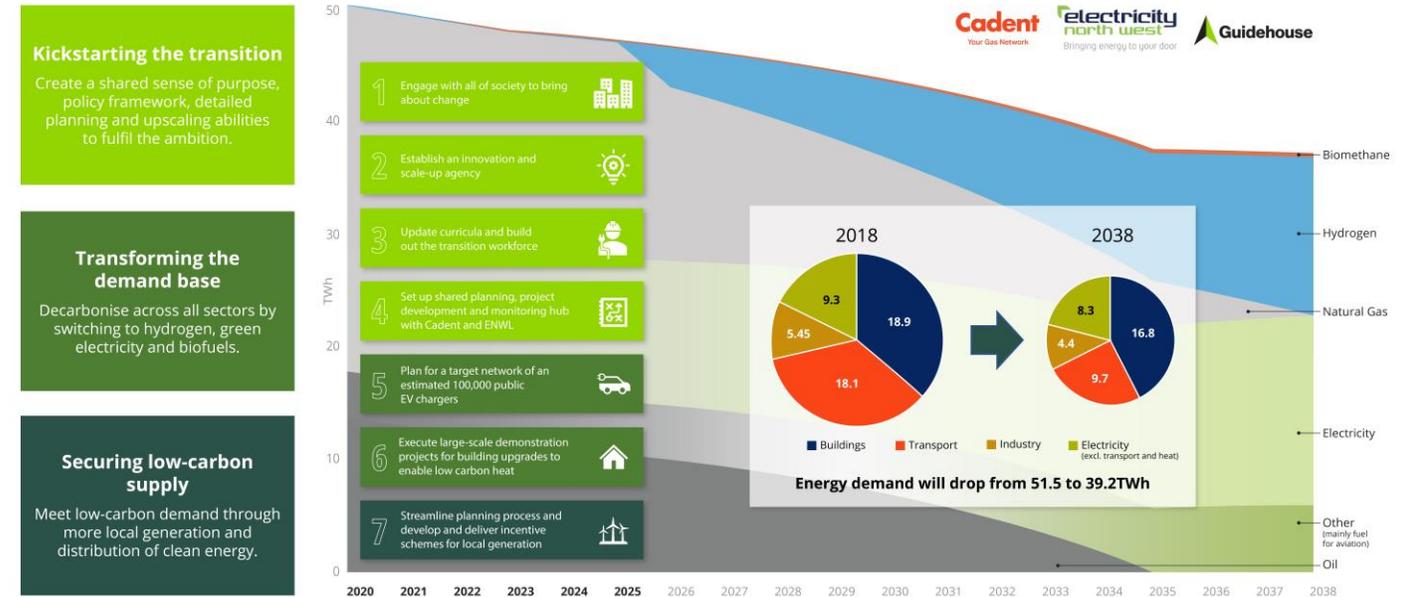


Key messages

1. There are tactical economically viable, no regrets actions that can be taken at huge scale in the next 5 years.
2. There are strategic medium - long term national strategy discussions that will over time revise the options available in other areas.
3. 2 must not be allowed to stifle action on 1 recognising NetZero is a multi step journey.
4. Uncertainty about the complete picture is used by some stakeholders (especially businesses) as a reason to defer any investment decisions.
5. Messaging to mass markets of business and residential purchasers must focus exclusively on actions we can confidently support now.

GREATER MANCHESTER DECARBONISATION PATHWAY TO 2038

Three tracks fuelled by seven priority actions for the Greater Manchester Combined Authority to start transforming the energy demand and supply now



Current 5 Year Period

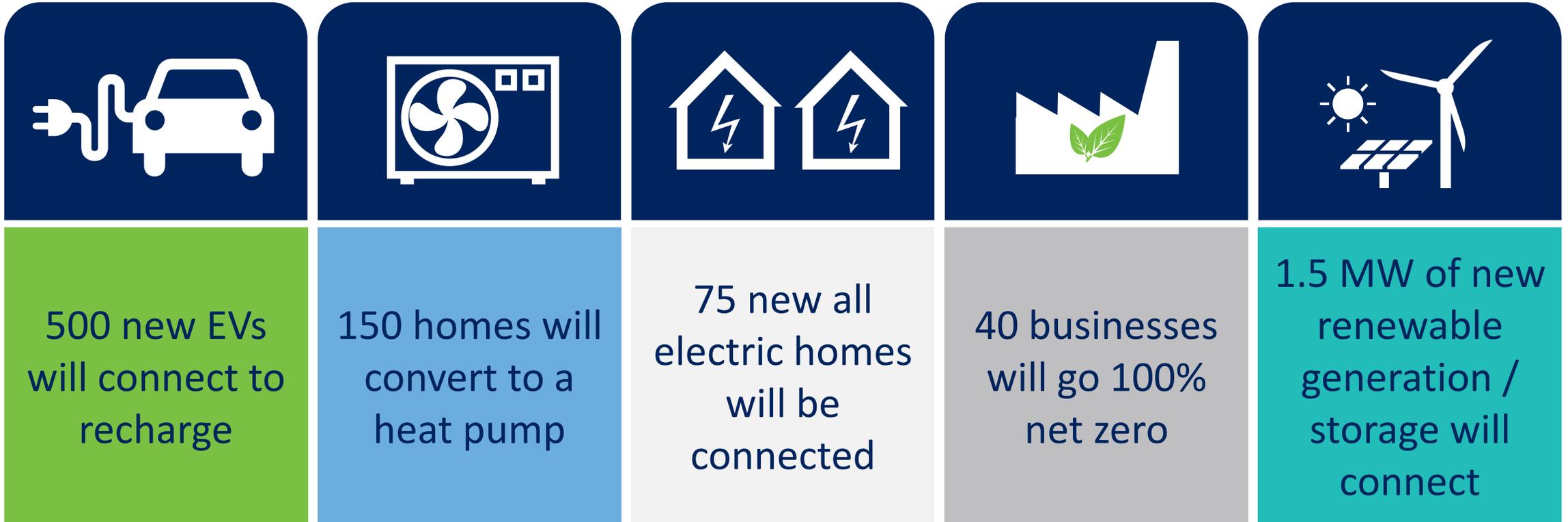
Mass transport
EV enablement
Efficiency including heat
Local Area Energy Plans
Renewable generation



Next period and beyond

Private Residential heat
Business heat
HGV transport
Role of H2

The challenge – a typical working day 2023 - 2028



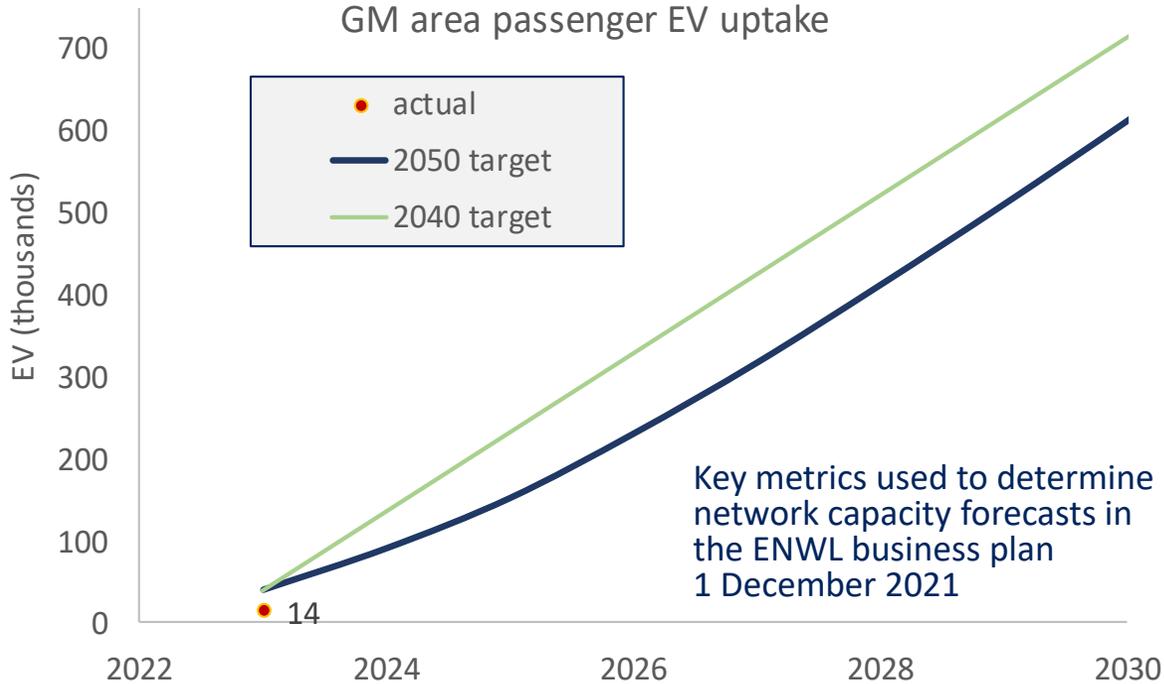
£ 650,000 invested in our network

Key metrics used to determine network capacity forecasts in the ENWL business plan – 1 December 2021

Greater Manchester 2050 Net Zero minimum requirement

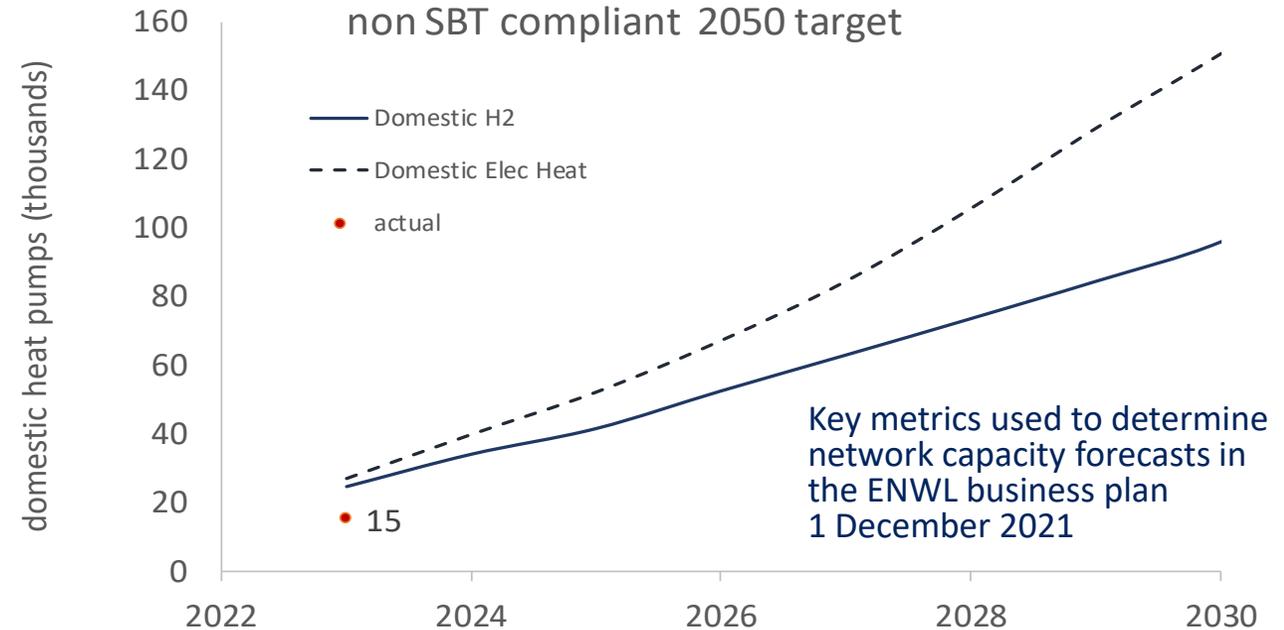


GM area passenger EV uptake



- TFGM has a consistent and detailed plan covering mass transport and alternate travel means.
- LA EV charging is an important but relatively small component in the charging solution landscape
- Trunk roads, MSA, destination charging including work, retail, recreation are very important factors.
- Home charging viable for ~ 30%
- GB regional strategies to enable and simplify EV adoption differ considerably and GM strategy review needed.

GM Area, Residential Heat non SBT compliant 2050 target



- Social housing heat has a well defined strategy and action plans.
- Private residential heat ~ 90% has little direction or means of visible impetus pending government policy decision. RetrofitGM plans to start to address the able to pay market.
- Political leadership on energy efficiency may be needed.
- The role of Hydrogen is being developed nationally based on North West regional work and will inform policy.



- **Mayor announces plans to secure a green future for London**

A new report – commissioned by the Mayor of London – outlining the action needed to tackle the climate emergency, cut congestion in the capital to create a greener city, and decrease air pollution, was released on Tuesday 18 January. The report finds that car traffic must decrease by at least 27% in London by the end of the decade to meet the climate change targets and sets out that to achieve a 27% reduction in car vehicle kilometres, London will need a new kind of road user charging system implemented by the end of the decade.

- Business is a major infrastructure provider and consumes over 60% of all energy.
- Business has the financial means to adopt NPV beneficial solutions. ENW is planning a comprehensive business engagement program to inform and influence business on the **benefits of EV and PV adoption**. Co-ordination across all agencies in GM is needed.
- **Leadership messaging across GM will be crucial to support both business engagement and a focus on immediate actions.**
- ENW and Cadent will regularly refresh the Pathways work producing a clear set of short term (0 – 5 year) actions feeding into Local Area Energy Plans.

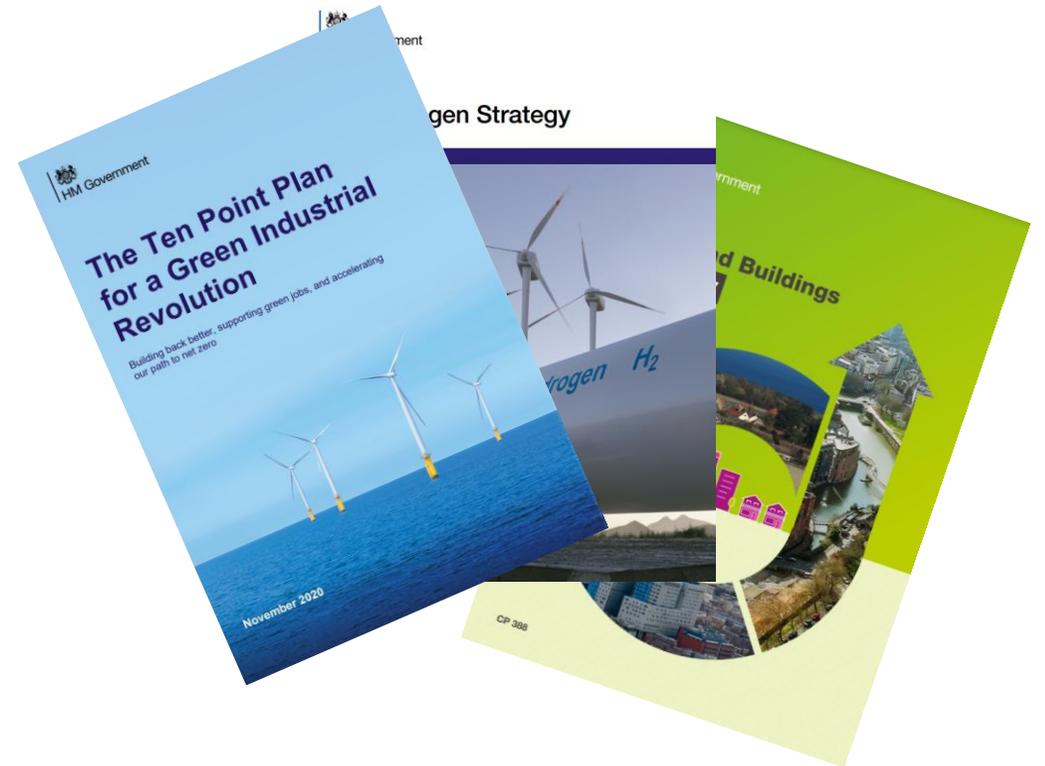
A woman with her hair in a bun, wearing a denim jacket and sunglasses, stands in a field of tall, golden grass. She is pointing her right hand towards a bright sun on the horizon. The sky is filled with soft, wispy clouds. The overall mood is hopeful and forward-looking.

Shaping the future of hydrogen

Delivering national strategy

Government commitment to grow the low carbon hydrogen economy is significant:

Ten Point Plan	Evidence for hydrogen blending – 2023
	Hydrogen village trial – 2025
	5GW of hydrogen production – by 2030
	Hydrogen town trial – 2030
Hydrogen Strategy	Hydrogen could represent upto 35% of the future energy mix
	Attract £4bn of private investment
	Consultations on low carbon hydrogen standard and vital economic models
Heat and Buildings Strategy	Heat Policy Decision – 2026



Delivering the government's 10 Point Plan

Cadent's hydrogen projects

