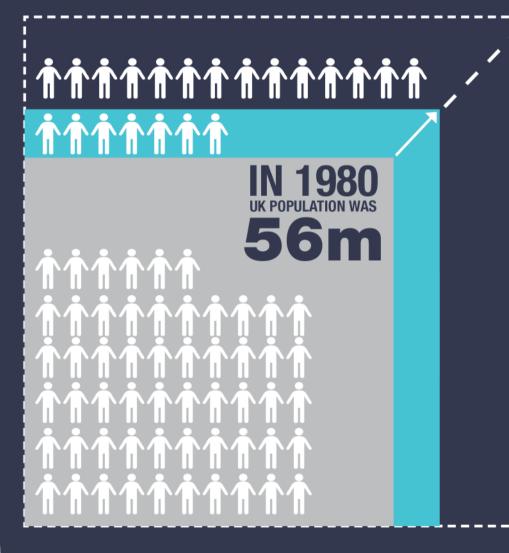


In 2050, our network has the potential to deliver new, environmentally friendly forms of energy to benefit customers across the UK.



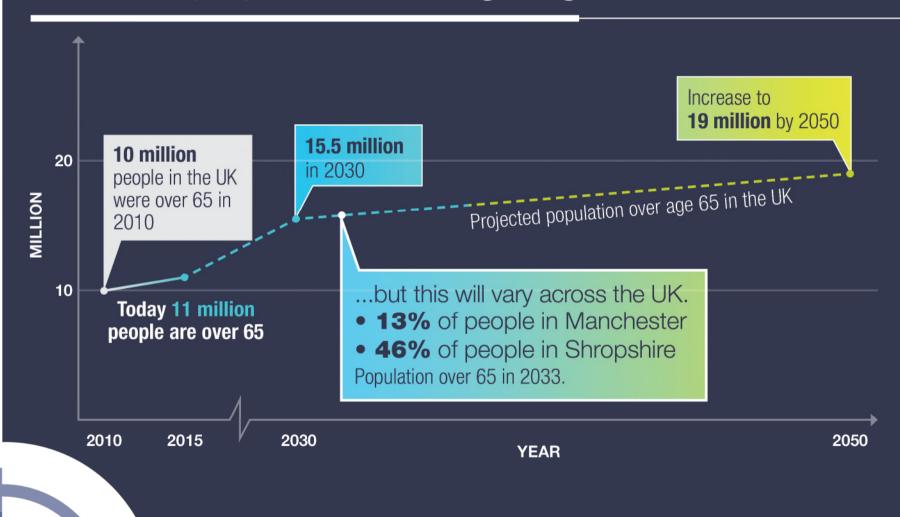
Population growth



77m 2050 63m 2015

The amillion UK POPULATION

The UK population is ageing



Our future homes – are our current homes

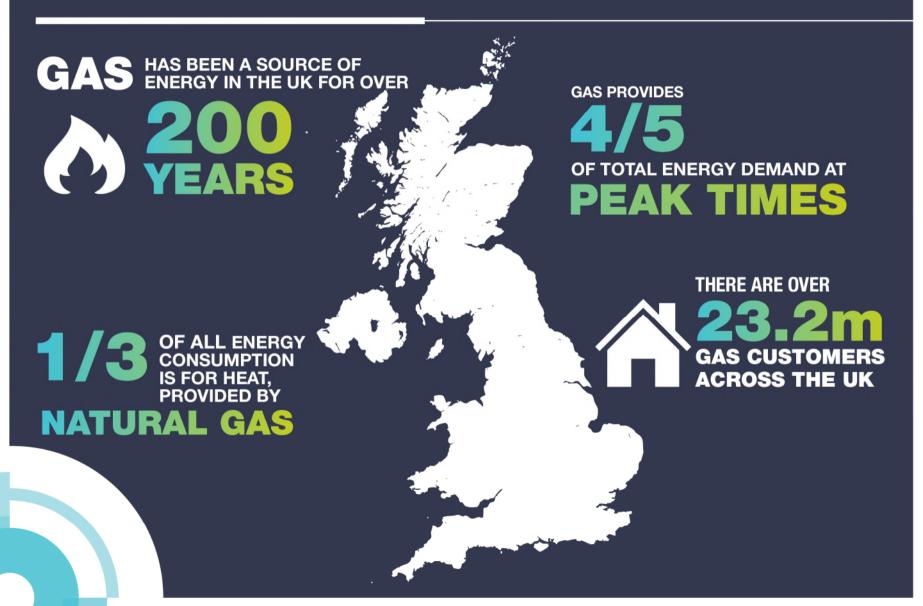








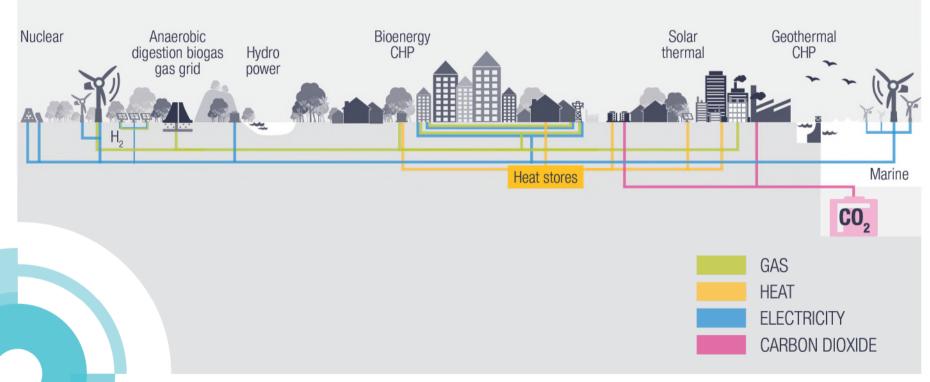
Where we are now



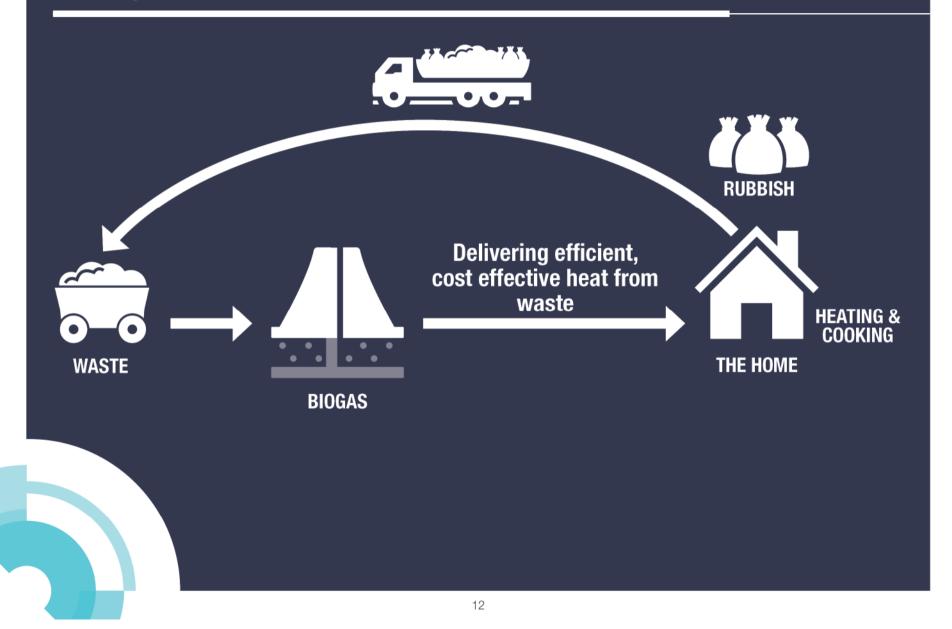
Looking forward: The energy mix in 2050

The networks of the future are the networks of today

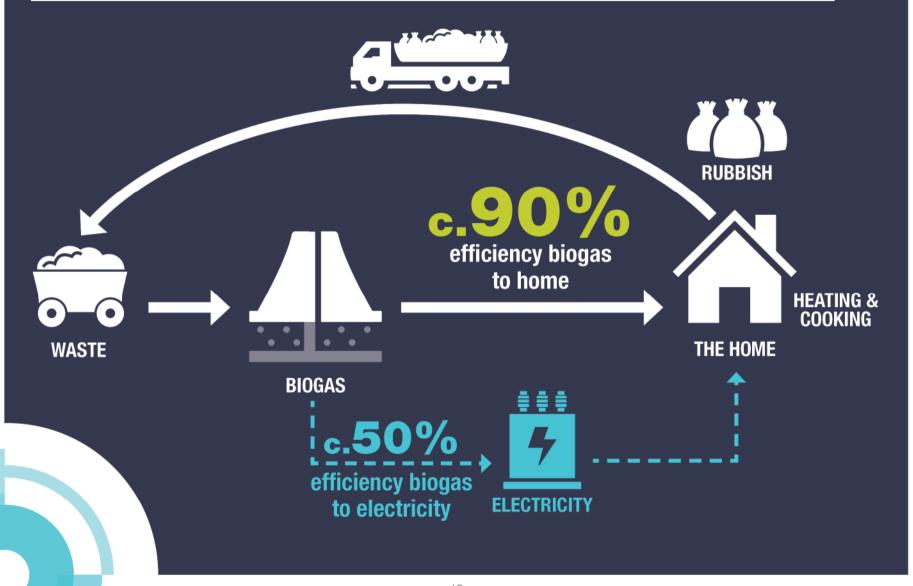




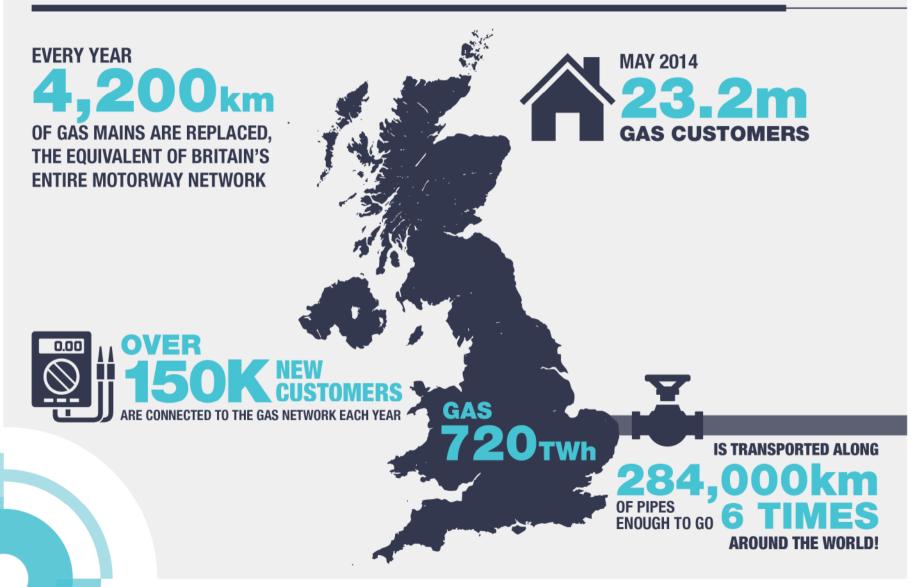
Biogas and the circular economy



Keeping it simple – keeping gas as gas



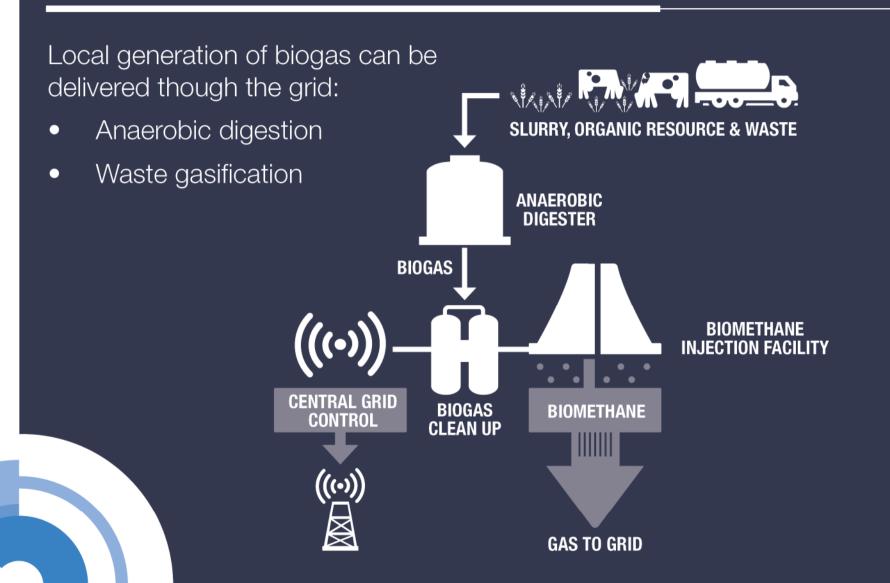
Maximising use of existing assets



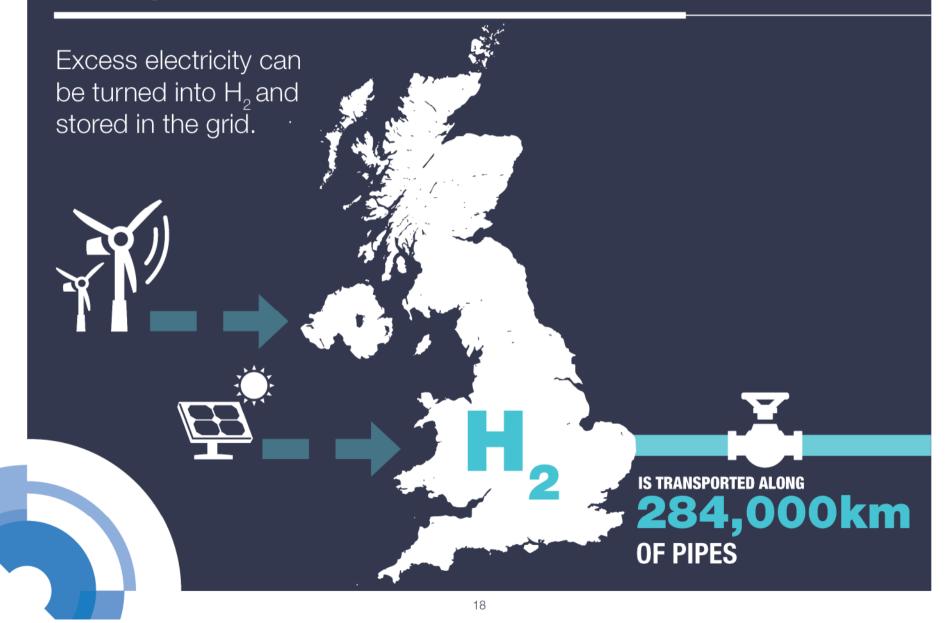




Generation: local and national



Using the network as a battery



Using the network as a battery



← 16GWh

Pump storage electric capacity

2%

of the capacity of the gas network

650GWh

Storage capacity in the gas network

5%
If all UK wind power stored as H₂



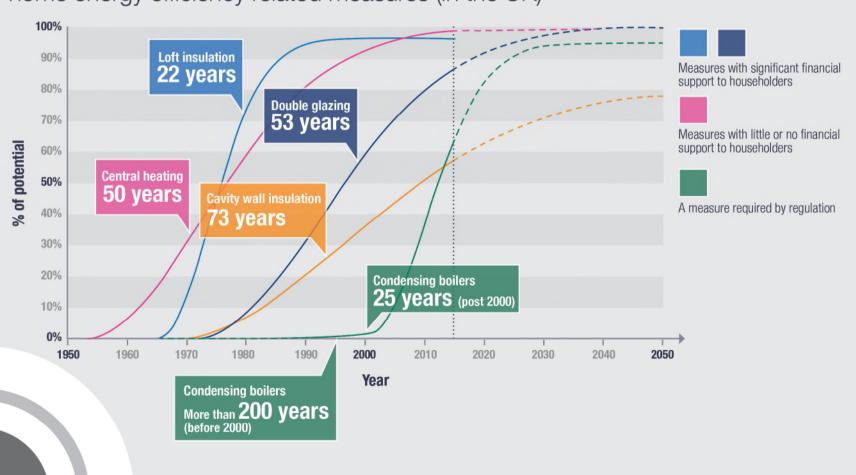
Using CNG – to power HGV's





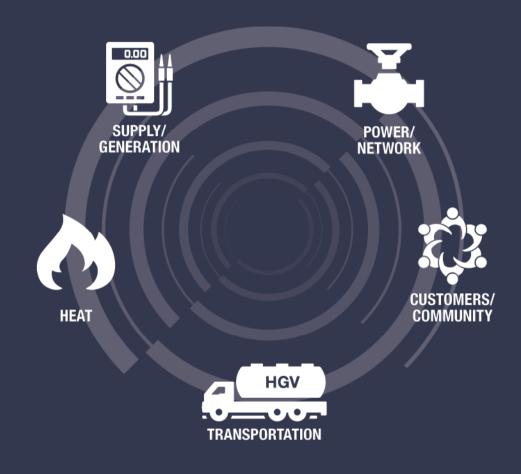
It will take time – so we need to act now

Time for change – Market penetration data and s-curves for home energy efficiency related measures (in the UK)



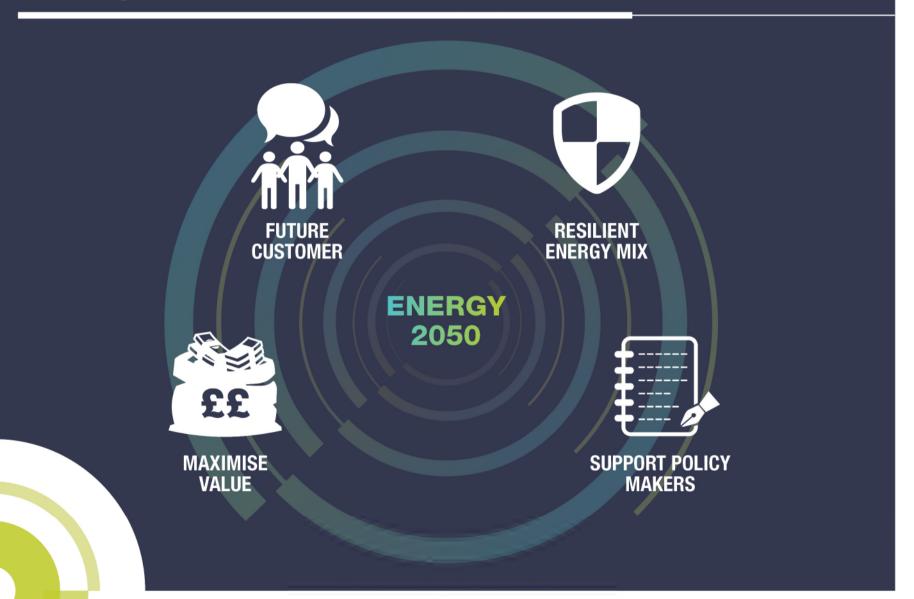
Getting to 2050

We are already developing solutions to meet future challenges

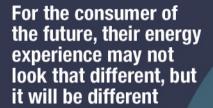




The gas network of the future



The gas network of the future







Resilience requires a strong energy mix

RESILIENT ENERGY MIX

Maximise value from existing assets



MAXIMISE VALUE



SUPPORT POLICY MAKERS

Support policy makers to maximise the opportunity of renewable gas

ENERGY

2050



David Parkin

Director, Network Strategy

GAS DISTRIBUTION

david.parkin@nationalgrid.com