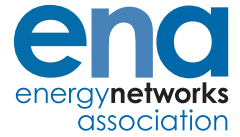


GAS GOES GREEN: OUR PLAN FOR THE WORLD'S FIRST ZERO CARBON GAS GRID



OUR PURPOSE

We need to remove the carbon emissions from the way we heat our homes, our water and cook our food.

Creating the world's first zero carbon gas grid will do that in a way that works with people's needs, whilst creating the new green jobs needed to build a world-leading net zero economy.

REAL WORLD OUTCOMES

LOWER ENERGY BILLS: By 2050 a zero carbon gas grid could save the economy £13bn a year compared to the alternative of 100% electrification.

REDUCED DISRUPTION: Not only will a zero carbon gas grid allow easier and cheaper changes to people's gas boilers and cookers, it will mean people can continue to use their heating, hot water and cookers in the way that they do now.

MORE CHOICE: A zero carbon gas grid will allow people and businesses to have a genuine choice over what clean technologies is best for them - at home, in the office or on the road - whether it be powered by hydrogen, biomethane or electricity.

INVESTMENT & JOBS: Investing in innovation and infrastructure now will create a major new source of demand for hydrogen and biomethane production, creating new green jobs in communities around the country. Up to 221,000 jobs could be created by a hydrogen economy by 2050 (Element Energy).

DID YOU KNOW...?

Independent academic research as part of the Leeds H21 project has found:

- Energy customers would support a hydrogen gas network, providing questions on cost and safety are answered.
- Public want decisive action now, to reduce environmental impact and avoid outlay on obsolete appliances.
- 68% of public are indifferent or undecided about clean energy solutions which would support climate change.

DELIVERING THE AMBITION

INTRODUCING OUR PATHWAY TO NET ZERO

We want to convert Britain's 284,000km of gas networks from delivering methane-based natural gas to zero carbon hydrogen and biomethane.

DID YOU KNOW...?

To reach the 2050 Net Zero target, households' carbon emissions will need to drop from an average 2.7t (2017) a year to just 138kg by 2050 (Energy Systems Catapult, 2019).

BY 2050

6. The world's first zero carbon gas grid - this expansion continues until zero carbon gases fully integrate across the GB energy system.

2030s - 2040s

5. Joining up clusters - hydrogen clusters spread and connect to become extensive hydrogen zones, managed by the National Transmission System (NTS).

2030 ONWARDS

4. Expanding the use of green gas - from industry and transportation to commercial and residential consumers.

2026 - 2032

3. Creating new sources of green gas - through projects that use carbon capture, utilisation & storage (CCUS).

2021 - 2026

2. Connect more green gas plants to the grid - by speeding up gas grid connections biomethane plants and the first hydrogen projects.

2020 - 2024

1. Planning & research - to tackle the challenges with switching the gas grid and identify the opportunities that it creates.

DID YOU KNOW...?

85% of homes and businesses are reliant on Britain's network of 284,000km of gas pipelines for heat, hot water and cooking.

YOUR ROLE

We want to bring together Britain's world leading gas engineering experts with policymakers and advocates to deliver the world's first Net Zero gas network.

HERE'S HOW YOU CAN HELP.

We want to hear from you. How do you think Gas Goes Green should deliver for Britain's households, businesses and communities?

Would you like to be part of the Gas Goes Green Advisory Group?

What information can Gas Goes Green provide that is most relevant to you and your interests?

Would you be prepared to support our plans for investment in gas network innovation and infrastructure?

Let us know by contacting us at GasGoesGreen@energynetworks.org

LET'S LEAD THE WAY, STARTING FROM NOW.

All figures quoted are sourced from ENA data, unless cited otherwise.

