



The HyDeploy project is the first ever live demonstration of blending hydrogen into the natural gas network in the UK. By using a blend of up to 20% volume of hydrogen with natural gas, the project has so far proved that hydrogen is a safe and green alternative to the gas currently used in homes.

It is the first project in the UK to inject hydrogen into a natural gas network and so far testing has been completed on part of the private gas network at Keele University campus in Staffordshire. This was over an 18 month period and was completed in Spring 2021.

Householders do not need to change their cooking or heating appliances and do not notice any difference when using the hydrogen blend.

Larger scale testing will soon be underway on a public gas network in the North East. More than 650 homes are involved and further testing will be undertaken on the gas network in the North West.

The HSE is satisfied that the blend of gas will be as safe as the gas householders currently use.

Keele University has also undertaken social science research to provide insight into customer perceptions of hydrogen and HyDeploy from users, prior to and during the live trial.

Eventually, the blend will be tested across a range of networks and types of customers so that the evidence is representative of the UK as a whole.

The project is being led by the HyDeploy consortium, led by Cadent with Northern Gas Networks, Progressive Energy Ltd, Keele University, HSE – Science Division and ITM Power.

The consortium believe that blending is a vital stepping stone in the UK's journey to net zero. If a 20% hydrogen blend was implemented across the UK, the equivalent carbon saving would be the same as removing 2.5M cars off the road every year.

Hydrogen is vital to tackling climate change – HyDeploy