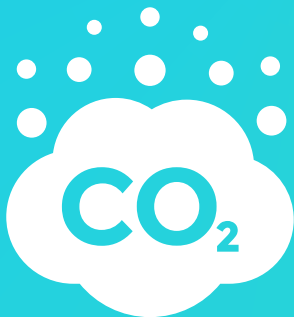


**Positive progress
to reduce UK
CO₂ emissions**





HyDeploy

HyDeploy is a pioneering hydrogen energy project to reduce UK CO₂ emissions. It will deliver a blend of hydrogen and natural gas to homes and buildings on part of the Keele University gas network for a 12 month trial. The goal of HyDeploy is to demonstrate that a blend of hydrogen and natural gas can be used by customers without any changes to their behaviour or existing gas appliances.



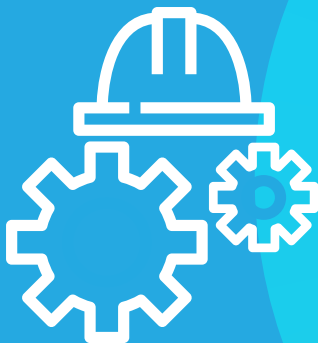
Live trial

The live trial of blended hydrogen and natural gas has been approved by the UK Health & Safety Executive. The blended gas has been approved under the standard Gas Safety (Management) Regulations and is considered to be the same as normal gas for the 12 month trial period. A blend of up to 20% hydrogen and natural gas will be delivered to homes in the trial area for 12 months, starting in mid-2019.



Producing the hydrogen

Hydrogen can be produced in different ways. The hydrogen for HyDeploy will be produced using an electrolyser. An electrolyser uses electricity to split water into hydrogen and oxygen. The electrolyser is being provided by ITM Power, a HyDeploy project partner and hydrogen energy system specialists. It will be powered by renewable electricity sources.



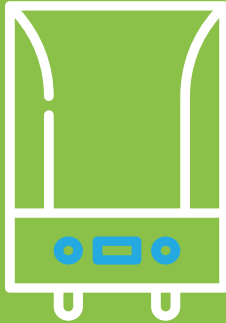
2018-2019: Build

HyDeploy is now in Phase II, the 'Build' stage. This runs until mid-2019. During this Phase, the hydrogen production unit will be installed at Keele University, along with other supporting equipment ready for the live trial. A map of the location is available from the Keele Estates office.



Safety checks for your home

HyDeploy is offering all householders and tenants in the live trial area a further standard Annual Gas Safety check ahead of the live trial. This is the same check that was carried out during Phase 1, but does not include the gas bottle testing. It will make sure that your appliances and installation meet current safety standards. If your home is in the trial area we will contact you again in Spring 2019 about this.



Gas billing

The change from normal gas to blended gas during the live trial will not cost you more. We have worked with Ofgem, the energy regulator to ensure this is the case. Keele University will let you know your energy costs for 2019/20 in Summer 2019. HyDeploy is offering householders in the trial area the option of a free gas boiler service during the live trial. Further details on this will be available in Summer 2019, including information for householders with existing boiler service contracts.

www.hydeploy.co.uk





HyDeploy at Keele timeline



April to September 2017

Project planning and off-site safety testing.

20
17

Phase 1: Prepare

Oct 17 - Oct 18

Safety checks in homes and buildings in the trial area.
Preparation of safety case for Health & Safety Executive.

Phase 2: Build

Nov 2018 - Summer 2019

Design and building of on-site equipment.

Phase 3: Deliver

Summer 2019 - Spring 2020

Live trial of hydrogen blend.
Project conclusion and report.

20
20



Hydrogen in the future

Hydrogen research is expanding fast in the UK and around the world. It offers wide potential as a low carbon energy source for heat and transport because when it is burned it doesn't produce CO₂, just water and heat. HyDeploy will be the first practical demonstration of customers using a blend of hydrogen and natural gas for everyday heating and cooking in the UK. Based on the results, further public trials will take place, and HyDeploy is a part of this.

HyDeploy Consortium

Cadent

Northern
Gas Networks

Keele
UNIVERSITY


HEALTH & SAFETY
LABORATORY

 **ITM POWER**
Energy Storage | Clean Fuel


Progressive energy



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