

H100 Fife

What's happening and when?

Led by SGN, **H100 Fife** is a project in **Levenmouth** in **Fife, Scotland**, aiming to show the role hydrogen gas can play in decarbonising heat. Here are some fast facts and key dates about the project, **which could have huge future implications for the gas industry.**



THE PROPOSAL



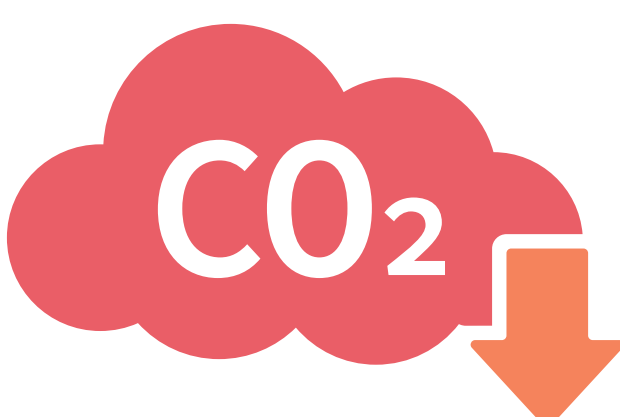
To develop a hydrogen gas network, providing fuel to heat around **300** homes. SGN customers in the H100 Fife network area in Buckhaven and Denbeath can opt-in for a hydrogen gas supply. All homes that opt-in will be connected to the new hydrogen gas network from **2023** to **2027**.

WHO'S LEADING IT?

SGN, which supplies gas to 5.9 million homes and businesses across Scotland and in the south of England.



WHY HYDROGEN GAS?



Hydrogen gas is one of the most abundant elements in the world and doesn't create CO₂ when used. As a result, it's an exciting prospect for helping us achieve a net zero gas infrastructure and project leaders believe it could offer a practical, low-cost, low disruption solution for decarbonising heat from the current natural gas one.

WHAT CHANGES ARE NEEDED?

A **100% hydrogen** gas supply for heating and cooking will require new hydrogen gas appliances:



Hydrogen gas boilers



Hydrogen gas meters



Hydrogen gas appliances such as ovens, hobs and fires.

SGN will replace these with new free hydrogen gas alternatives including SMETS 2 hydrogen gas meters. Everything will be installed for free and maintained for the duration of the project. Customers can choose to revert back to natural gas at any time during the project.

WHAT WON'T NEED TO CHANGE?

- Usage - Participants will continue to enjoy the benefits of their gas supply just as they do now.
- Suppliers - Participants will remain with their existing suppliers and will be able to change gas supplier at any time during this project.

WHAT ABOUT SUPPLY AND BILLING?

For this project, suppliers and their customers will pay the same price per unit as if they were on natural gas. **Suppliers won't need to change the way they bill customers and residents will pay the same standing charge and price per unit as before the trial.**



The Timeline

Plans for the project have been approved by Ofgem and construction is already underway. **Here's what will happen next:**



- **2022-2027** - Local communities in Buckhaven and Denbeath will be informed of developments.
- **2022-2023** - Participant recruitment will be undertaken, including invitations to the demonstration facility.
- **2023** - The H100 Fife project begins. The hydrogen gas network will go live with up to 300 opted-in homes starting to receive 100% hydrogen gas for cooking and heating.
- **How long will the project last?** The project will be operational until March **2027**.
- **2025** - Natural gas supply changed to hydrogen gas for homes and businesses taking part in the Hydrogen Gas Villages trial.
- **2026** - The UK government will make a decision on the future of heat nationally and the project will develop its exit plan or enduring strategy.

If hydrogen gas is introduced into the gas system, it will have far reaching effects for the gas industry, including for billing, metering and the way that gas energy content (FWACV) is measured across the system. We will all need to work together to make sure it's a success

- **2030** - Scaled up Hydrogen Gas Town trial to begin.
- **2045** - Scotland net zero target.
- **2050** - The UK's net zero deadline.

Have questions?