



# BRINGING LOW CARBON GAS TO YOU AND AOTEAROA

## THERE'S MORE THAN ONE SOLUTION

Gas has been a reliable, efficient, and affordable energy source for all Kiwis and businesses for over 50 years.

Firstgas Group is behind helping Aotearoa meet low carbon emission targets by 2050. That's why we have already been investigating low carbon gas options, such as hydrogen, biogas and bioLPG, to ensure that families and businesses can continue to enjoy instant heat, endless hot water, and cooking with a flame.

### HYDROGEN

is produced through the electrolysis of water, and can be burnt like natural gas, or used in a fuel cell to produce electricity.

### BIO LPG

is produced from renewable plant and vegetable waste, and is chemically identical to LPG, making it a direct energy replacement for your BBQ or LPG appliances.

### BIO GAS

is a direct replacement for natural gas, and is produced through the breakdown of organic plant matter, such as food waste, food processing waste and sewage – basically, anything you can compost.

For more information visit [gasischanging.co.nz](https://gasischanging.co.nz)



## GAS WILL REMAIN AN IMPORTANT PART OF AOTEAROA'S ENERGY MIX

- If you currently use natural gas or LPG, you won't need to do a thing.
- The industry is working together to ensure gas energy will continue into the future.
- If you're already connected, or thinking about connecting to gas, you can be sure that natural gas and LPG will keep flowing as we make the transition to low carbon gases.
- You can be confident that you will be able to use natural gas or LPG appliances in your home for their expected lifetime. Current appliances are compatible with bioLPG and biogas, and are already able to run on a blend of natural gas and renewable hydrogen gas (up to 20%).

## WHAT YOU NEED TO KNOW

### 430,000 KIWI HOUSEHOLDS USE GAS EVERYDAY

More than **430,000**<sup>1</sup> Kiwi homes and businesses enjoy the reliability of natural gas and LPG every day. Natural gas and LPG power over 19,000 commercial and industrial customers.

### GAS IS COST EFFECTIVE

Heating your home and hot water makes up around **63%** of an average household energy bill<sup>2</sup>, and using natural gas instead of electricity is almost always cheaper<sup>3</sup>.

### GAS IS A KEY ENABLER FOR MANY BUSINESSES

Manufacturing businesses that require high temperatures for production will find it difficult to electrify — natural gas will remain a key enabler for these businesses. Businesses that use gas for cooking will move to lower-emission solutions, such as bioLPG, and biogas.

### GAS SUPPORTS INCREASING RENEWABLE ELECTRICITY

Around **1/3** of natural gas produced in Aotearoa is used to generate electricity. Flexible gas generation is used to support variable renewable generation sources like wind and solar, with gas playing an important role in a stable, low emissions electricity system.

### GAS STORAGE CAN POWER UP TO 112K HOMES

Our Ahuroa gas storage facility in Taranaki has the flexibility to inject 1.7 million m<sup>3</sup> of gas per day (65 TJ). That's enough to power up to **112,000 HOMES!**

### GAS PROVIDES 22% OF OUR ENERGY NEEDS

Natural gas provides **22%** of Aotearoa's energy needs. It's an important industrial fuel, meeting nearly half of the industry's energy needs<sup>1</sup>.

### LESS THAN 1% OF AOTEAROA'S TOTAL EMISSIONS

Gas used in homes contributes less than **1%** of Aotearoa's emissions.

### 20% HYDROGEN IN OUR PIPELINES BY 2035

Our plan is to blend **20%** hydrogen in our gas pipelines by 2035.

1. gasindustry.co.nz/about-the-industry/nz-gas-story/document/6540 2. thebeautyofgas.co.nz/home-heating 3. gasindustry.co.nz/publications/document/6320

Still have some burning questions about the future of gas and how it affects you?  
Visit [gasischanging.co.nz](https://gasischanging.co.nz)