

# Gaseous Biofuels



Harnessing renewable gas for a resilient, secure, and affordable energy future that fuels economic growth

New Zealand is facing an energy crisis. Depleting gas stores underscore the vulnerability of New Zealand's energy infrastructure and the urgent need for sustainable energy solutions.

## What is New Zealand's potential

Collaboration between industry & government to develop a supportive investment and policy environment would enable the gaseous biofuels (biogas, biomethane) industry to accelerate.



Enabling continued use of gas in hard to abate industrial sectors.



Production of 750ktpa of biogenic CO<sub>2</sub> to continue to support industrial needs



In the long term, renewable gas can cut New Zealand's emissions by 1.08M TCO<sub>2</sub> in hard-to-abate industries at a competitive cost.



Produce a bio-fertiliser in digestate which is lower cost, locally produced to current alternatives and reduce agriculture emissions



Reduce pressure on landfills by diverting organic wastes



Supporting regional development & creation of 300 new jobs



A drop in fuel will enable optimised use of existing assets

The pipes are staying - let's fill them with home-grown solutions

## What would this look like?

**5PJ<sup>3</sup>**  
**BY 2027**

70% of gas consumed by residential market in 2023

**12PJ<sup>4</sup>**  
**BY 2035**

60% of gas consumed by Food and beverage industry 2023

**25PJ<sup>5</sup>**  
**BY 2050**

Half of NZ gas demand from domestic resources by 2050

gas.xlsx (live.com)

## What do we need to unlock the opportunity?

### OPPORTUNITY 1

#### Policy driven

- ▶ Identify and remove regulatory barriers to the production and use of biogas/
- ▶ Fast track GIC regulation and guidance to support renewable gas certification and trading
- ▶ Direct MBIE to amend Part 4 of the Commerce Act to encompass the alternative gases
- ▶ Introduce greater regulatory planning certainty with purpose-led legislation
- ▶ Establish standardised consenting conditions to streamline resource consenting of biogas facilities to provide developers with confidence to invest.

### OPPORTUNITY 2

#### Accelerating infrastructure investment

- ▶ Working with Government to establish a transitory investment policy which accelerates infrastructure development
- ▶ Facilitate collaboration between government and industry to align regulatory framework and market incentives to optimises the use of gaseous biofuels for a resilient, secure, and affordable energy market
- ▶ Tiered capital grants scheme for regional AD and to cover up to 80% of feasibility study costs.
- ▶ Creation of 300 skilled regional jobs through strategic national co-investment.
- ▶ Empower natural gas businesses to adopt biogas by developing a centralised information database.

<sup>1</sup> [www.worldbiogasassociation.org/why-biogas/](http://www.worldbiogasassociation.org/why-biogas/)

<sup>2</sup> [www.energy.ec.europa.eu/topics/renewable-energy/bioenergy/biomethane\\_en](http://www.energy.ec.europa.eu/topics/renewable-energy/bioenergy/biomethane_en)

<sup>3</sup> Currently available gas from landfills and WWTPs

<sup>4</sup> Assumes the above and development of regional AD facilities for household, municipal and industrial waste

<sup>5</sup> Additional biogas/biomethane from industrial waste and crop residues with increasing value of gas.

### For further information contact

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🌐 [bioenergy-association-of-new-zealand-banz](http://bioenergy-association-of-new-zealand-banz)

🌐 [www.biogas.org.nz](http://www.biogas.org.nz)