

# 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**

## International evidence

Globally, biogas can reduce global climate change emissions by 10% and become a global sustainable industry worth £1trn<sup>1</sup>. The EU has committed 37B € to unlock 1,260 PJ of biomethane<sup>2</sup>

## 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

**20PJ<sup>5</sup>**  
**BY 2050**

100% of hard to abate industrial needs

gas.xlsx (live.com)

## What do we need to unlock the opportunity?

### OPPORTUNITY 1

#### Policy driven

- ▶ Legislate progression to no recyclable organics to landfill for both municipal and industrial waste
- ▶ Fast-track the amendment of the Commerce Act 1986 (Part 4) to support renewable gas certification and trading

**PRO** Industry lead change, no government investment

**CON** Reduced speed of uptake, limiting the market

### 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

**PRO** Kick start the market and open up access to smaller sites to gain benefits such as agriculture and dairy

**CON** Requires government support and investment

<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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