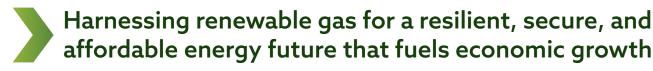
# Gaseous Biofuels OBLOG





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 hardto-abate industries at
a competitive cost.

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 £1trn¹. The EU has committed 37B € to unlock 1,260 PJ of biomethane²



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



### 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

#### For further information contact

- admin@bioenergy.org.nz
- in bioenergy-association-of-new-zealand-banz
- www.bioenergy.org.nz

www.worldbiogasassociation.org/why-biogas/

www.energy.ec.europa.eu/topics/renewable-energy/bioenergy/biomethane\_en

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

<sup>&</sup>lt;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.