# Driving the renewable gas sector forward with policy

Philippa Minton
Market Development and Strategy Manager – Renewable Gas
Jemena

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## Key Messages

Customer demand for Renewable Gases



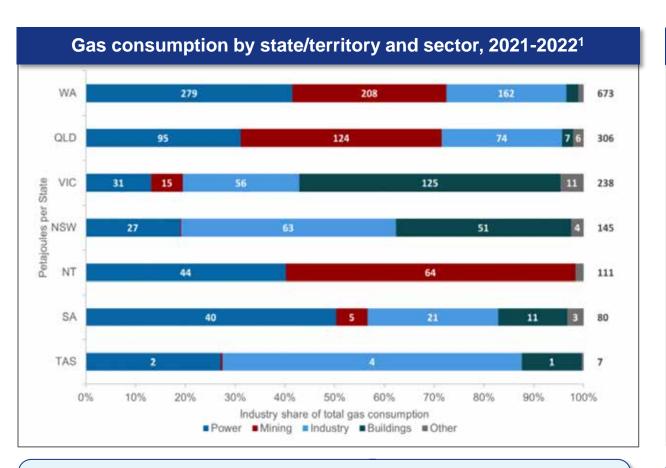
2. Learnings from international policy settings



The evolving Australian policy landscape



## The role of gas, and hence the decarbonisation strategy, differs from state to state



Jemena NSW Gas Distribution customers - 2024 <sup>2</sup>				
Customer Type	Total Customer	Volume (PJ)		
Residential	1,490,490	26.8		
Commercial	34,214	13		
Industrial	379	44.1		
Total	1,527,145	83.9		

Decarbonisation of gas will be different across each state

In NSW, large decarbonisation steps are possible with a small number of customers

<sup>1.</sup> Buildings account for residential and commercial buildings Mining includes gas for LNG liquification Other accounts for transportation, agriculture, construction, water, waste treatment and gas supply. Source: Department of Industry, Science and Resources

Jemena 2025 Access Arrangement

## Customer groups that can't readily electrify

#### Whilst customers need to decarbonise, many can't electrify

Customer Type	Hard-to-abate	Costly-to-electrify	Desire-for-gas	Coal to gas switching
Customer Portrait	No identified electrification pathway	Theoretic electrification pathway – but renewable gas is cheaper	"Simple" electrification pathway, but preference for gas	Use coal. Can switch to gas
Industry Sector	High heat, feedstock and GPG	Hospitals, food and beverage manufacturers, some residential customers	Restaurants, bakeries commercial buildings, residential customers	Power generation, steel mills, metal processing, cement production
Example	InfraBuild Building futures through sustainable steel Opal.	NSW LION		BlueScope



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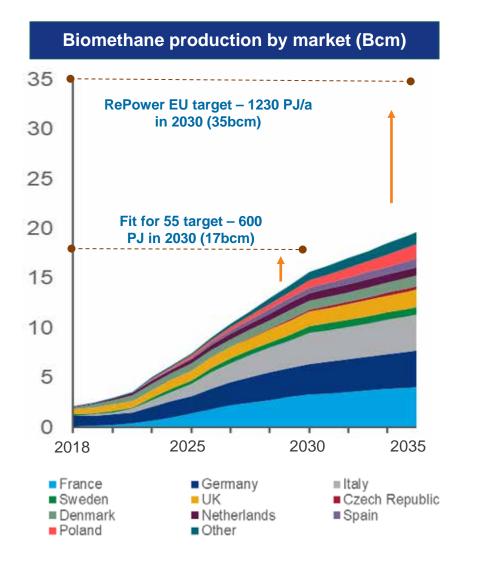
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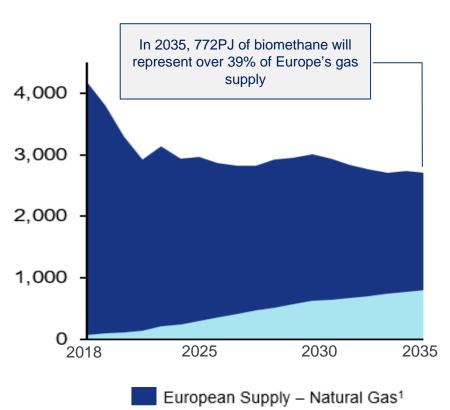
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## European biomethane markets are evolving rapidly – 21% increase in 2024



#### Biomethane production by market (PJ/pa)



Biomethane

#### **Clear high-level objectives:**

- Security of supply
- Reduce carbon emissions

#### **Financial incentives:**

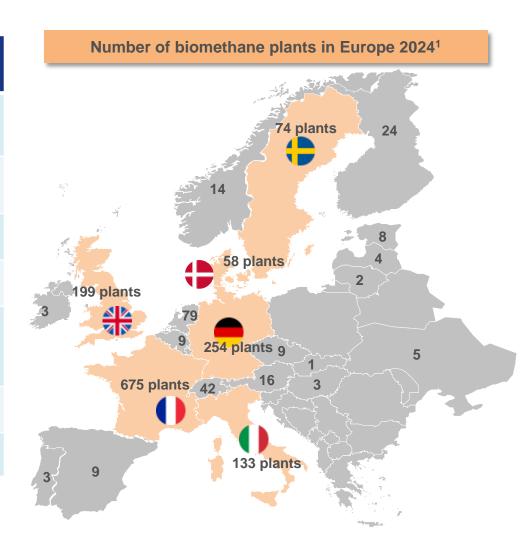
- Feed-in-Tariffs
- Tax offsets

#### **Large corporate investment:**

- Total and Engie in France
- **ENI** in Italy
- Shell in Denmark
- Goldman Sachs in Spain

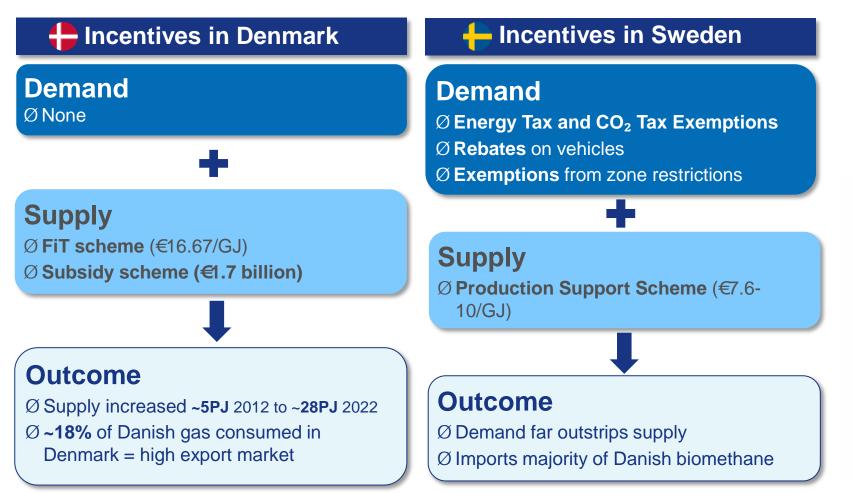
## Clear targets coupled with supply and demand side incentives have expedited Europe's biomethane markets

Key Markets	Target	Supply side incentives	Demand side incentives
Sweden 🛑	54PJ by 2030	Ø Production tariff	<ul><li>Ø Long-term tax exemptions</li><li>Ø Rebates on vehicles</li><li>Ø Zone exemptions</li></ul>
Denmark 🛑	Share of biomethane reach 70% by 2030	Ø Production subsidy	
UK AND	144PJ by 2050	<ul><li>Ø Green Gas Support (FiT)</li><li>Ø Renewable Heat Incentive</li></ul>	Ø Renewable Transport Fuel Obligation (blending %)
Germany	Emission reduction of 25% by 2030	Ø Renewable Energy Act	Ø Tax incentives
France ()	<ul><li>Ø 282PJ by 2030</li><li>Ø Blending target:</li><li>6.6% by 2028</li></ul>	<ul><li>Ø Grid operator contribution (60% of capex)</li><li>Ø €900 million French support scheme</li></ul>	Ø Tax incentives (TICGN)
Italy ()	141PJ by 2026	<ul><li> Long-term Incentives support (40% of capex)</li></ul>	Ø CIC certificates used in transportation
Europe Overall	1,236PJ by 2030		



## Both supply and demand side incentives are required to support a new market

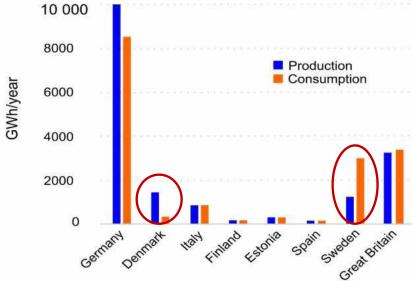
Supply side incentives lead to high production rates; Demand side incentives lead to high willingness to pay and targeted end use



#### **Supply vs Demand in Europe**

#### **Observation:**

- **ODenmark**: Supply > Demand
- Ø Sweden: Supply < Demand



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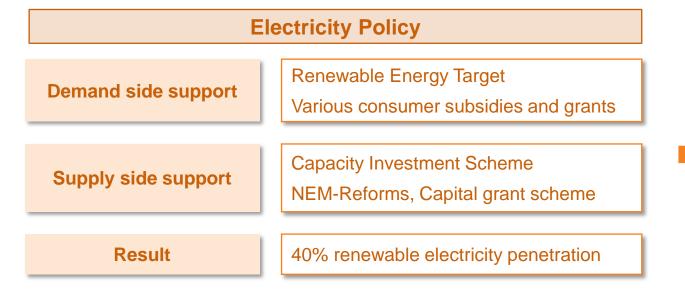
Learnings from international policy settings

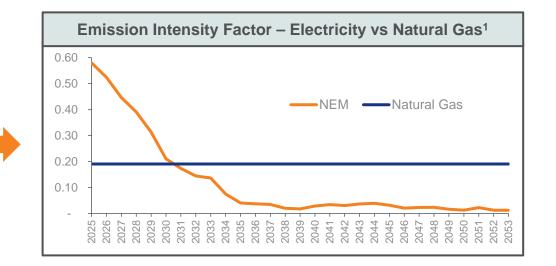


The evolving Australian policy landscape









Notes: 1. Frontier Economics

## Policy is not yet stimulating a renewable gas market



**NGERs Biomethane GreenPower** Hydrogen recognition method package **RGGO** Hubs of renewable (ACCU) program **Guarantee of Origin** gases scheme (hydrogen) **FMIA** Hydrogen Hydrogen **HeadStart Production Tax Incentive** 2018 - 2022 2023 2025 2024

**Biomethane Demand side support –** Safeguard Mechanism 70% Biogas Uses in Australia - 2019<sup>1</sup> biogas wasted 30% 50% Industrial 15% 5% Agricultural 50% 42% 33% 26% 19% 22% Sewage Biowaste 40% 20% 20% 54% Landifll 46% 0% 20% 40% 60% 80% 100%

2001 - 2017

Supply side support - NONE

**Demand side support - NONE** The Australian https://www.theaustralian.com.au + business + news story | 1 Trafigura scraps \$750m green hydrogen plant at Port Pirie 2 days ago - A major \$750m green hydrogen plant has been axed in South Australia for the fledgling industry just days after Anthony Albanese https://www.theguardian.com.y.environment.ymar.ygr.\_\_\_\_ Green hydrogen has stalled in nearly every corner of ... 2 days ago - Chris Bowen announced \$614m for the clean energy source despite projects in doubt across NSW. Queensland and South Australia

Hydrogen

https://www.h2-view.com s story s 2115573.article

Origin Energy pulls out of NSW hydrogen hub project due ...

Supply side support - HIGH

3 Oct 2024 - Origin Energy pulls out of NSW hydrogen hub project due to market uncertainty. Australian utility Origin Energy has backed out of AUD \$207.6m (

https://www.couriermail.com.au.r...... | Old-politics | 1

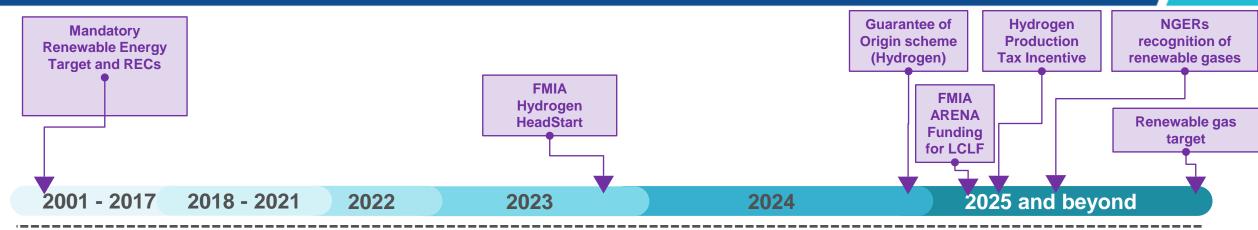
Central Queensland Hydrogen Project axed after request ...

3 Feb 2025 - A\$12.5bn green hydrogen project at Gladstone that would have been Australia's largest has been axed by the state government

■ Electricity ■ Heat ■ CHP ■ Flaring ■ Others

### More is needed for a successful renewable gas market

Legend
Biomethane Electricity
Hydrogen Future



	Expand existing policies	New Policies
Certification	Ø Expand GO Scheme to biomethane	
Demand Side support Side Side Support Side Side Support Side Side Side Side Side Side Side Side		
	(X Expand Hydrogen HoodStart policy to include	
	<ul><li>Ø Expand Hydrogen HeadStart policy to include biomethane</li></ul>	
Supply side support	Ø Expand HPTI to biomethane	
	Ø Expand FMIA ARENA funding to include biomethane	



Lowest cost decarbonisation pathway for gas

12



