



Australia's future in bioenergy and renewables

## BIOECONOMY SUMMIT

Successful bioenergy and circular economy  
projects delivering renewable gas

[www.deloreancorporation.com.au](http://www.deloreancorporation.com.au)



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# Delorean Corporation

## Introduction

**Delorean Corporation (ASX: DEL) is a vertically integrated business operating in two high growth investment sectors – renewable energy and waste management.**

**Delorean is leading the Australian market with commercial production of bioenergy and in-demand renewable gas.**

DEL continues to transition from a construction and energy retail business to an owner/operator model, generating increasingly consistent multiple revenue streams.



# Vertically Integrated Renewable Energy Business

As part of Delorean's ongoing commitment to be a leading vertically integrated renewable energy infrastructure business, all subsidiary companies have now become divisions of Delorean Corporation



## Engineering Division

EPC<sup>(1)</sup> and O&M<sup>(2)</sup> contractor that builds bioenergy facilities.

*(1) EPC: Engineering, procurement and construction  
(2) O&M: Operation and maintenance*

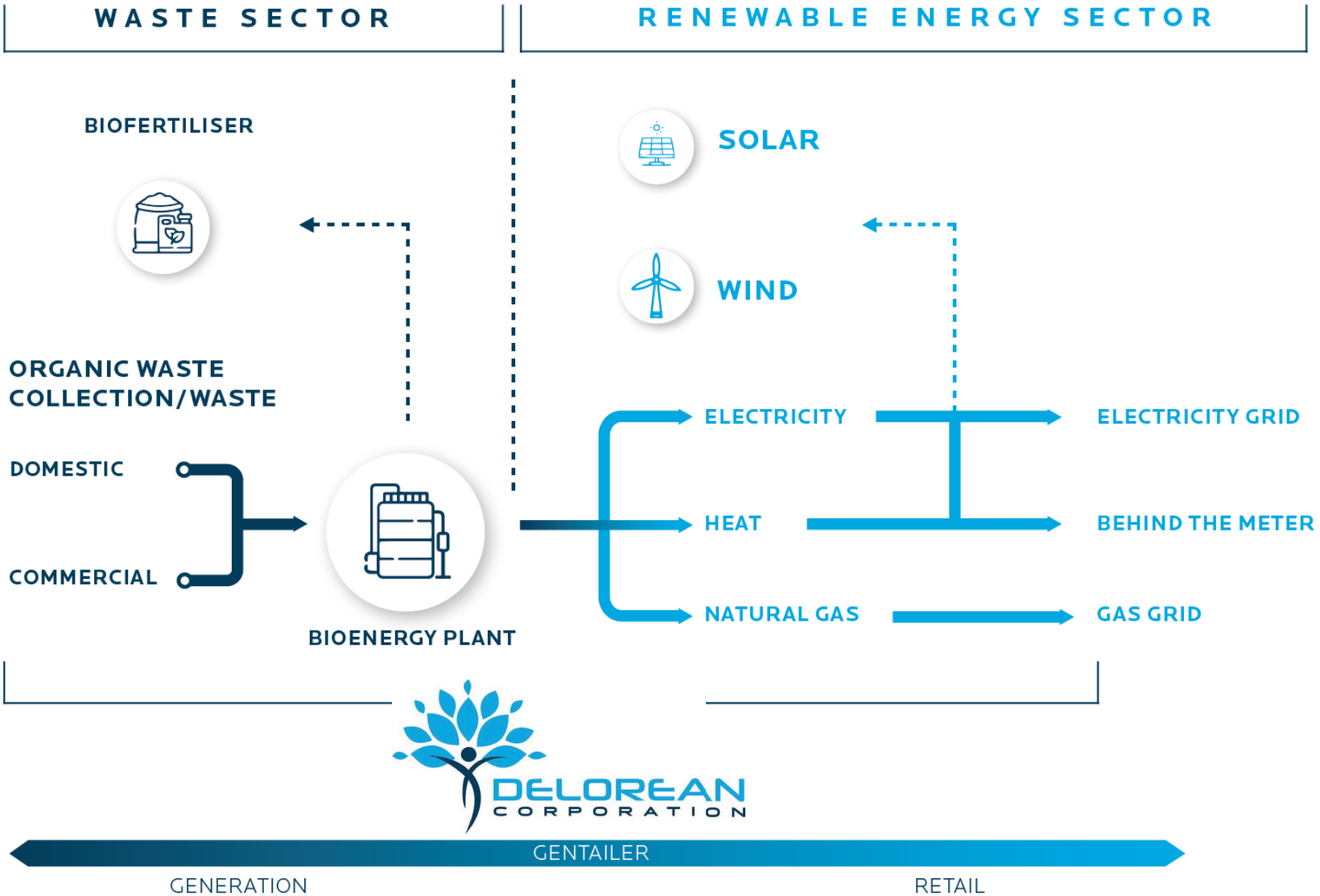
## Infrastructure Division

Infrastructure development and management of Delorean Corporation owned and operated bioenergy plants.

## Energy Retail Division

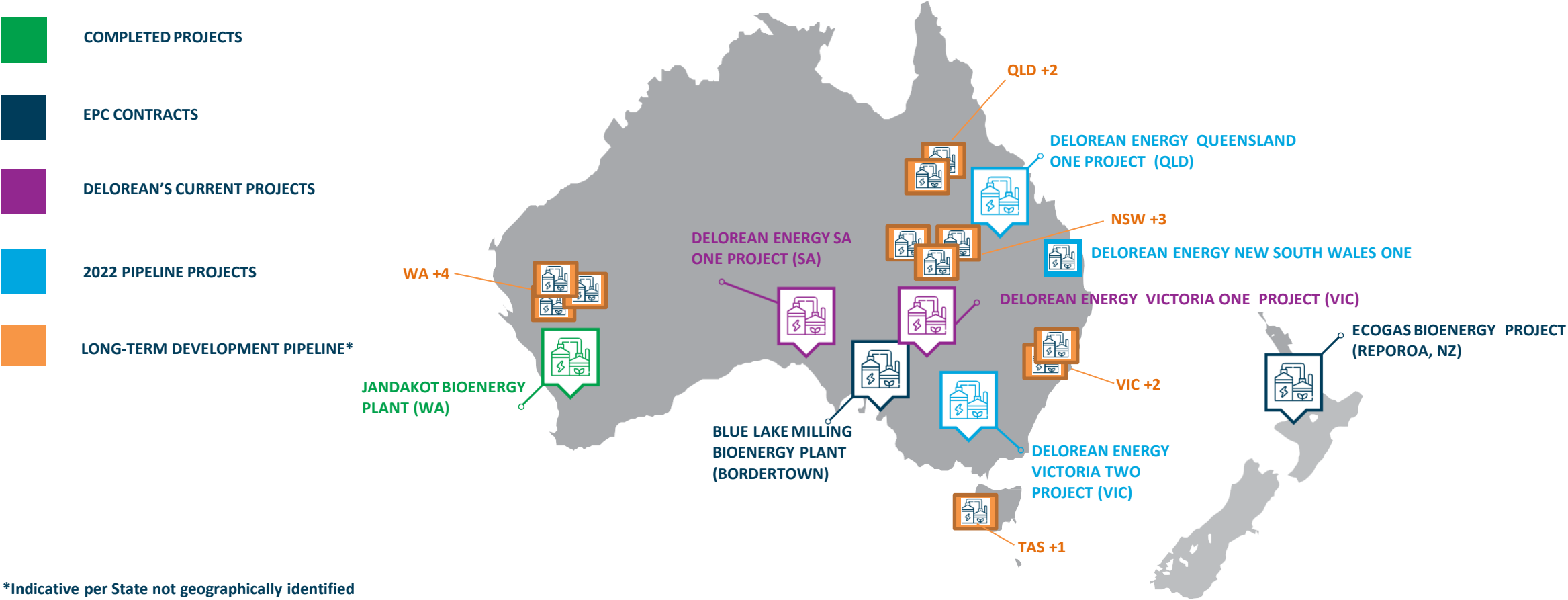
Established energy retailer with licenses to operate in the national market.

Delorean Corporation  
Gentailer  
Business  
Overview



# Project Updates Across Australia and New Zealand

## EPC Projects progressing with DEL-owned Project Development and Build Pipeline





# Delorean Engineering Division

## Project Update

**Blue Lake Milling  
(CBH Group) Bioenergy Plant**  
\$7.6M contract value

**Located in Bordertown, South Australia**

### **Current Status:**

- First gas has been achieved and grid connection established with grid export commissioned
- Project has seen delays due to COVID and SA Power Network (SAPN) delays for connection
- SAPN has now conducted a substation change over  
Reconnection will occur once SAPN is back online.
- Facility is undergoing ramp up now back on line with the grid

**Ecogas Bioenergy Project (Pioneer)**  
\$10.1M contract value

**Located in Reporoa, New Zealand**

### **Current Status:**

- General site works, backfilling and compaction are complete for site conduits.
- Several major pieces of equipment have been delivered and are being installed on site
- Current shipping delays impacting program
- Progress continues to track towards completion by Nov 2022



# Delorean Engineering Division

## Preferred Tenderer status – Yarra Valley Water

### Yarra Valley Water Waste to Energy Project

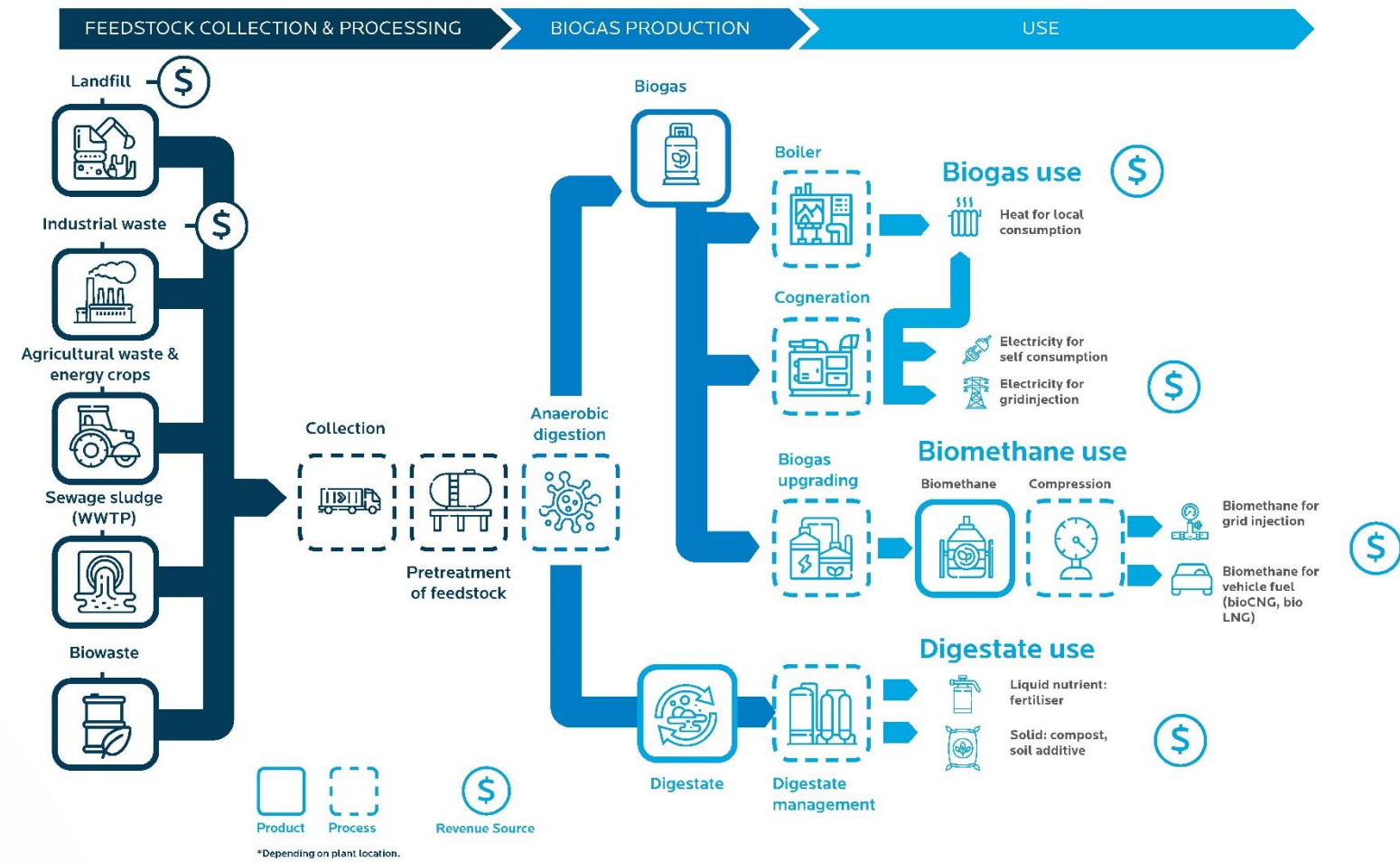
- Delorean's Engineering Division has been awarded Preferred Tenderer status for delivery of the Yarra Valley Water bioenergy facility
- The Yarra Valley Water **contract includes the design, build, operation and maintenance of a waste to energy facility** at its Lilydale Sewage Treatment site in Victoria
- Yarra Valley Water is the largest of three Victorian Government owned water corporations, serving over 2 million people and over 58,000 businesses in the northern and eastern suburbs of Melbourne.
- This new facility will be **one of the largest food waste to energy facilities of its kind in Victoria**
- Progression to contract award status is anticipated by end of December, 2021





# Bioenergy AD

## Energy Outputs & Options for Multiple Revenue Streams



# Delorean Infrastructure Division

## Delorean Energy Victoria One Project (~\$17.0M capex)

### Located in Stanhope, Victoria

- 54,000TPA bioenergy facility (Stage 1)
- Potential expansion to 71,300TPA in Stage 2

### Current Status:

- Site works commenced in July 2021
- Final Council approval was granted in October 2021 and construction is now underway



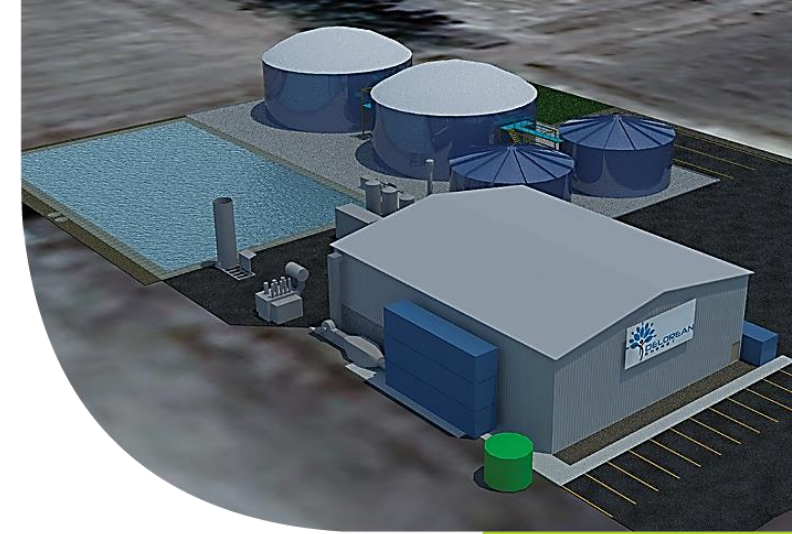
## Delorean Energy South Australia One Project (~\$26.5M capex)

### Located in Salisbury, South Australia

- 70,000TPA bioenergy facility
- Potential expansion to 125,000TPA in Stage 2

### Current Status:

- Under development
- Site works were started in September 2021
- FID anticipated February 2022



# Delorean Infrastructure



## Strategic Progress:

### AGIG Collaboration

- In September 2021, Delorean entered into an important **collaboration agreement with Australian Gas Networks Limited.**
- Australian Gas Networks Limited is part of Australian Gas Infrastructure Group (AGIG)
- **AGIG is one of Australia's largest gas infrastructure businesses**, supplying approximately 2 million customers
- Under the Memorandum of Understanding (MOU), DEL and AGIG have agreed to work towards establishing a mutually acceptable business model to **develop, construct, own and operate anaerobic digestion plants** to supply biomethane into AGIG gas networks, including offtake of biomethane for use by AGIG via an appropriate retailer



# Biomethane Upgrade Processes

Various processes upgrading biogas to biomethane (97% CH<sub>4</sub>) fit for grid injection.

Proposed process

	Water Wash	Pressure Swing Absorption	Membrane Filtration	Amine's Wash	Cryogenic Distillation
Advantages	<ul style="list-style-type: none"><li>Excellent safety and proven performance</li><li>Reliable, simple and easy to maintain</li><li>Low capital and operating costs</li><li>Siloxanes effectively removed</li></ul>	<ul style="list-style-type: none"><li>Ability to remove inert gases, often with an additional process module</li><li>Low efficiency version cost (effective on small scale)</li></ul>	<ul style="list-style-type: none"><li>Low capital costs</li><li>Simple plant</li></ul>	<ul style="list-style-type: none"><li>Cost effective on a large scale</li><li>Good energy efficiency if waste heat is available</li></ul>	<ul style="list-style-type: none"><li>Very high CH<sub>4</sub> purity achievable</li><li>Can produce LNG</li></ul>
Disadvantages	<ul style="list-style-type: none"><li>Practical capacity limit ~ 2500Nm<sup>3</sup> / hr</li><li>Does not remove inert gases</li></ul>	<ul style="list-style-type: none"><li>Media becomes fouled requiring replacement</li><li>Difficult process to control (problems maintaining CH<sub>4</sub> recovery)</li><li>Bed fluidization causes "dusting of media"</li><li>Upstream H<sub>2</sub>S removal required</li></ul>	<ul style="list-style-type: none"><li>High energy consumption</li><li>Difficult to achieve purity of CH<sub>4</sub> &gt; 92%</li><li>H<sub>2</sub>S not removed</li><li>High Op Ex cost replacement of membrane</li></ul>	<ul style="list-style-type: none"><li>Dangerous solvents require handling</li><li>Risk of pollution from chemical contamination</li><li>Uneconomic capital and energy costs for gas streams with high CO<sub>2</sub> loadings (&gt;20%)</li><li>Does not remove inert gases</li></ul>	<ul style="list-style-type: none"><li>Complex plant</li><li>High capital and operating costs</li><li>Operational problems caused by solid CO<sub>2</sub> formation on heat exchangers</li><li>Very low temperature and high pressure can be hazardous</li></ul>

Due to the large number of benefits, low cost and very few disadvantages to the process, Delorean Corporation has selected the water wash process as the proposed method for biomethane upgrade.



# AS 4564 - Specification for General Purpose Natural Gas

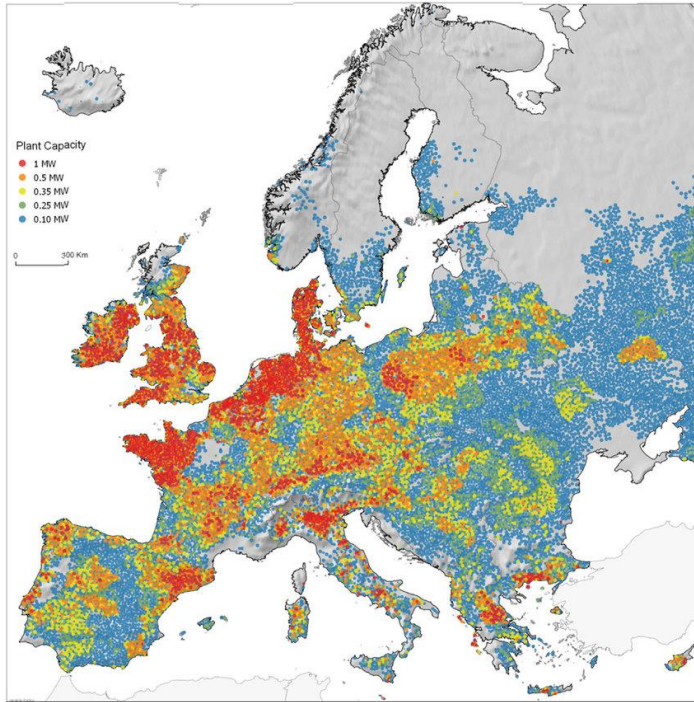
Ability for green gas produced from biogas to meet Australian Standards for grid injection.

- Delorean have been collaborating with the **Australian Gas Network (AGN)** and **Australian Gas Infrastructure Group (AGIG)** to meet AS 4564 to inject upgraded biogas into the gas grid.
- **Currently AGN require green gas to:**
  - *Comply with the specifications for general-purpose natural gas set out in Australian Standard AS4564:2020 "General-purpose natural gas"*
  - *Have a gross calorific value of not less than 37.26 MJ/m<sup>3</sup> and not greater than 37.46 MJ/m<sup>3</sup>*
  - *Be delivered at a temperature of not less than 15°C or greater than 40°C*
  - *Be delivered at a pressure of not less than 500 kPag or greater than 700 kPag*
- Delorean are currently finalising the process and agreement to **produce grid quality green gas via water scrubbing of biogas.**
- Green gas meeting this standard can be used interchangeably with natural gas as a fuel source.



# Biomethane Upgrade Processes

Various processes upgrading biogas to biomethane (97% CH<sub>4</sub>) fit for grid injection.



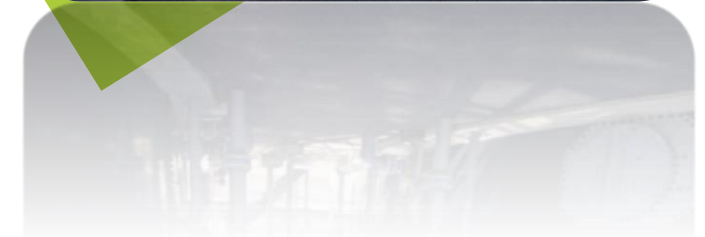
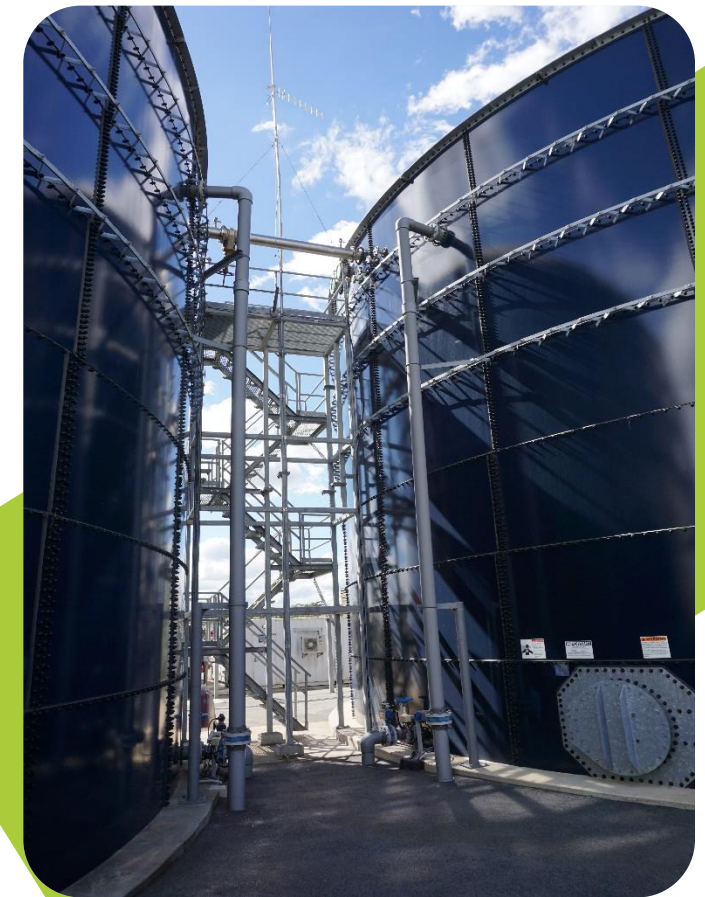
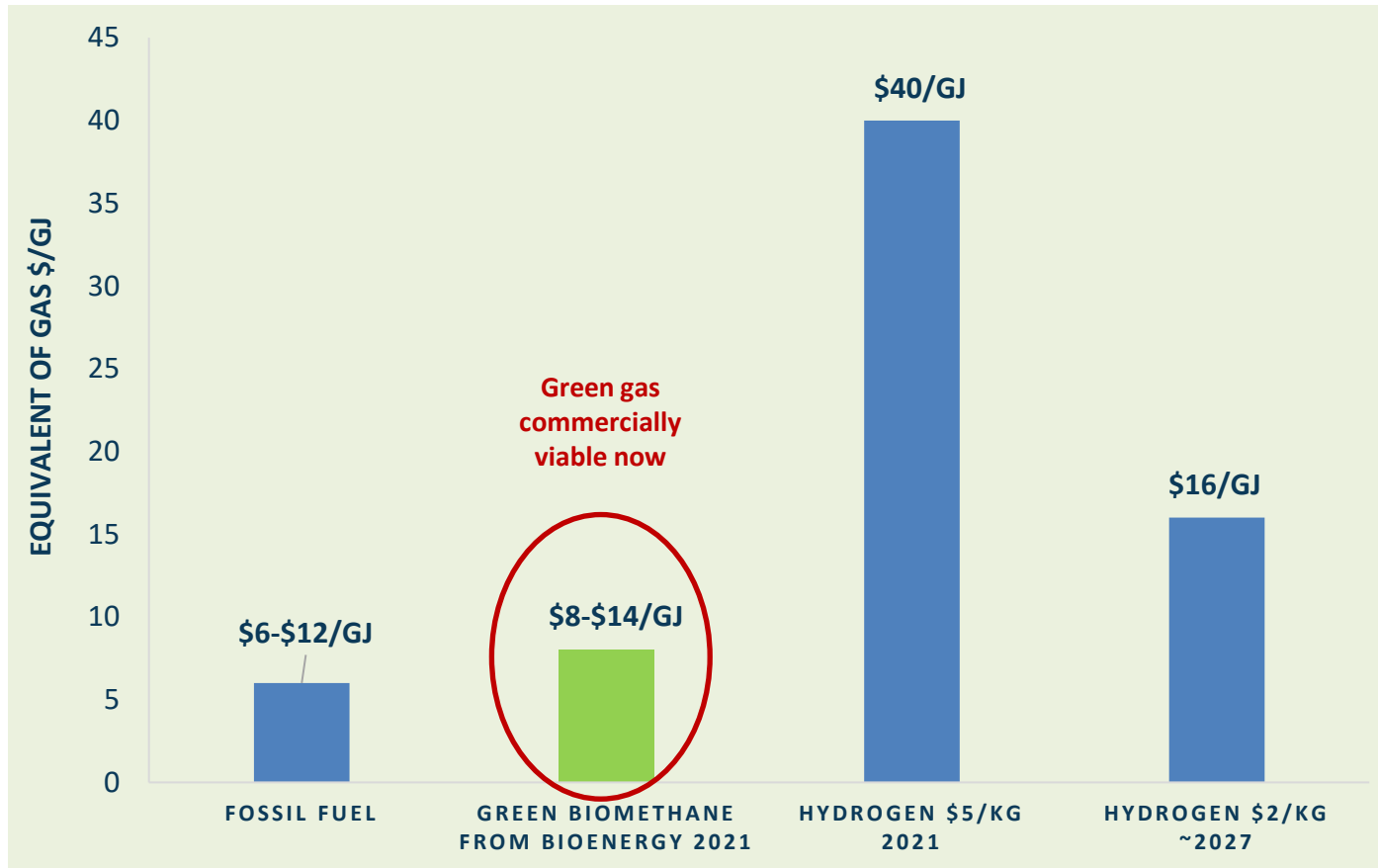
Energy Potential for BioEnergy plants across Europe supporting shift to NetZero and diversion of waste from landfill

- (*European Biogas Association, 2021*) Europe is currently leading the push for green gas AD\*\* adoption as a shift away from fossil fuels
- The European Biogas Association produced a biomethane map in 2020 showing a **51% increase of biomethane (green gas) plants in the last 2 years**
- Currently 18 countries across Europe producing biomethane with Germany (232), France (131) and UK (80)
- Since 2014 when Denmark started injecting biomethane into the grid, they will displace 4.6M tones of CO<sub>2</sub> 2040 to achieve a **100% green gas grid**

Source: <https://www.worldbiogasassociation.org/>

# Green Gas from Bioenergy

Green gas commercially viable now



## References:

Australian Energy Regulator: <https://www.aer.gov.au/wholesale-markets/wholesale-statistics/gas-market-prices>

PWC and World Energy Council: <https://www.pwc.com/gx/en/industries/energy-utilities-resources/future-energy/green-hydrogen-cost.html>



# Strategic Progress:

## Landmark collaboration with Brickworks



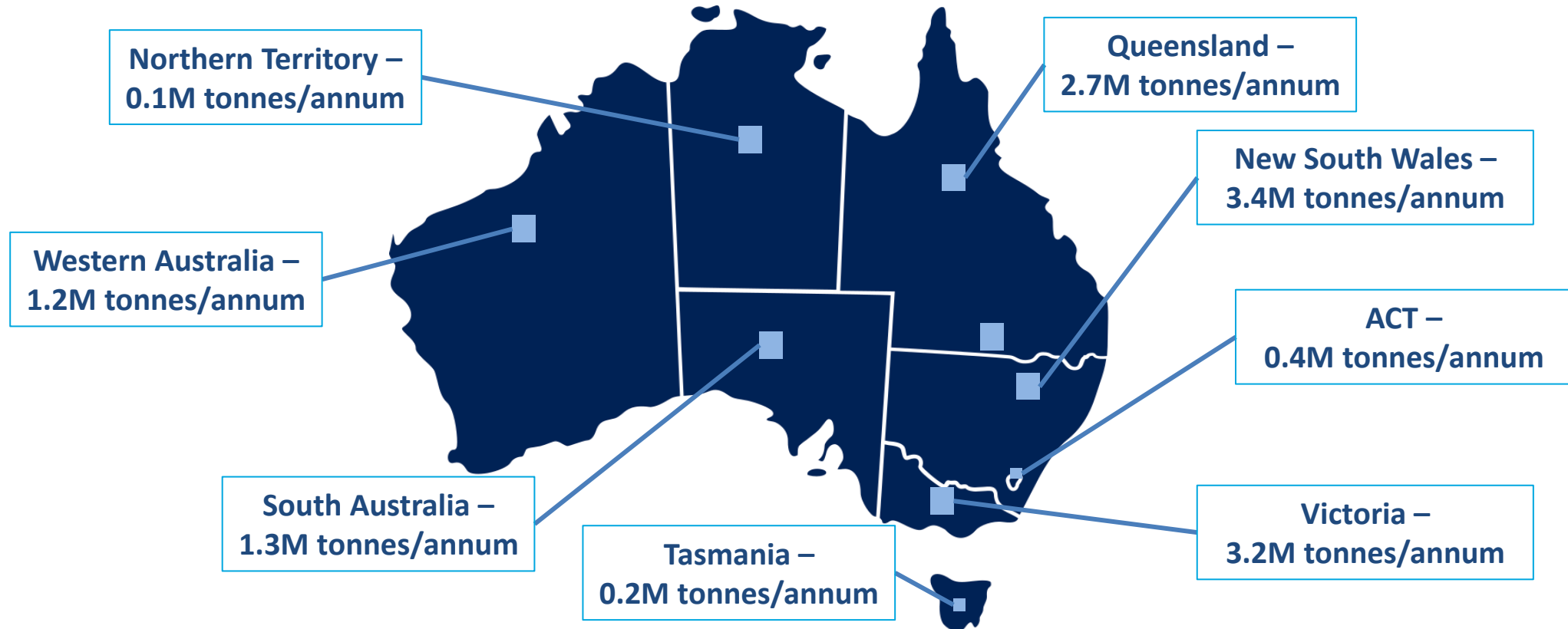
- Delorean Corporation has entered into a landmark collaboration agreement with Brickworks Building Products Pty Ltd (Brickworks Building Products)
- Brickworks Building Products is a 100% owned subsidiary of Brickworks Limited (**ASX:BKW, Market Cap \$3.77B**)
- Under a Memorandum of Understanding (MOU) Delorean and Brickworks will undertake a feasibility study (and seek development approval) to **build and operate bioenergy facilities converting organic waste to green gas and electricity, funded by Brickworks.**
- This green energy will be used to **power Brickworks' brick manufacturing operations**, commencing with its NSW sites
- The feasibility and development approval program is a staged process from concept to development through to Final Investment Decision.
- Subject to the successful outcome of the feasibility study, Delorean and Brickworks intend to establish a 50/50 Joint Venture (or other commercial arrangement) to construct and operate the NSW bioenergy plant(s)
- If successful, Brickworks and Delorean will consider a **national rollout to other Brickworks operations across Australia**





# Organics Market Across Australia

Australia produces approximately 12.5M tonnes of Organic Waste (excluding agriculture and fishery) every year.



The National Waste Database highlights an additional 28M tonnes/annum of organic waste is produced by the Agriculture and Fisheries industries nationally that is suitable for bioenergy

# Delorean Infrastructure

Pipeline Developed **As of 2021**

Projects	Grants	Biogas	Waste	Emissions
~ \$500M proposed projects in early-stage engagement / feasibility / development / construction	~ \$31M grants applied for both State and Federal across Australia	135 Million m <sup>3</sup> /annum of biogas generated on site for either 2.8 Million MWH/annum of Green Electricity and heat or 3.1Million GJ/annum of Green Biomethane (RNG)	1.5 Million t/annum of organic waste to be captured and processed diverting from landfill and other emission outputting process	1.6 Million tCO <sub>2</sub> -e/annum abated through diversion of organics from landfill and production of green energy to displace fossil fuels.*



*\*Calculations based on the Carbon Credits Methodology Determination 2016 developed by the Clean Energy Regulator. The calculations assume all green energy is in the form of electricity. The Clean Energy Regulator is currently in the process of developing a new method for biomethane.*

# Funding and Support for Clean BioEnergy

## Federal and State Support

ARENA



NSW GOVERNMENT



QLD GOVERNMENT



CLEAN ENERGY FUTURE FUND



SUSTAINABILITY VICTORIA



There is strong support for **greener** energy projects across Australia, with state governments and other organisations providing grants and funding for renewable energy.

# Australia's Bioenergy Roadmap – Nov 2021

**Deloitte.**



**ARENA**

- The Australian Government's recently released Bioenergy Roadmap Report is expected to deliver immediate commercial benefits and opportunities for Delorene, including potential access to an initial **\$33m of ARENA** funding committed to the roadmap initiatives
- The Bioenergy Roadmap sets out a public/private partnership framework underpinned by a **series of targeted initiatives within the 2021-2030 horizon, most of which are directly relevant to the growth of Delorene's business**
- The report models that **by 2030, 33% of industrial heat, 23% of pipeline gas, and 8% of utility-scale/small-scale electricity generation could come from bioenergy infrastructure**. Based on this modelling Australia's bioenergy sector could contribute to around \$10 billion in extra GDP per annum
- **As the only ASX-listed company focussed on production of mains-grade biomethane**, Delorene welcomes the Roadmap's policy focus on renewable pipeline gas





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