



Optimising organic wastes from farm to fork

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Delorean Corporation

Vertically Integrated Renewable Energy Business

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.

Delorean Corporation has the **inhouse capability** to deliver **bioenergy projects across the full lifecycle**, from project conception to completion; processing organic waste and generating and monetising renewable electricity, heat and gas.



Engineering Division

EPC⁽¹⁾ and O&M⁽²⁾ 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.



Optimising organic wastes to improve global sustainability

Food loss & waste exacerbates climate change through significant greenhouse emissions



1/3 World's Food Wasted



Land & water is wasted in production



25 x more heat released in breakdown

Organic Waste Solutions

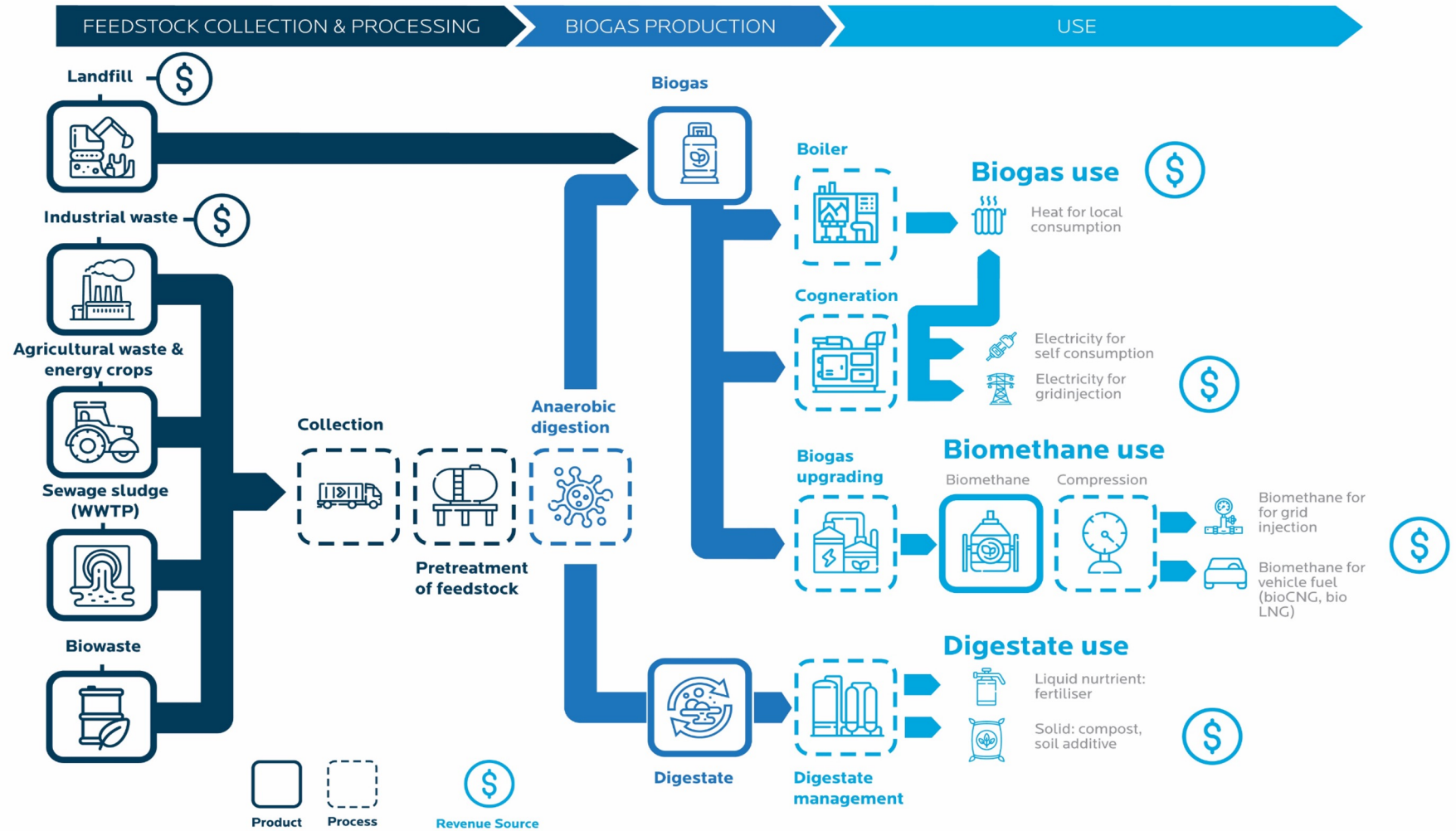
- » Utilising anaerobic digestion to re-use waste
- » The potency of biofertilisers will ↑ crop yields

Biogas is the immediate **renewable solution** to the climate change crisis



Bioenergy: A sustainable renewable solution

Utilising energy from waste and a circular economy approach can help address the food waste crisis



Organics Market Across Australia

Driven by 2019 National Government Waste Policy to:
“Halve the amount of Organic Waste sent to landfill by 2030”

Commercial and Industrial Waste (C&I)

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

Agricultural Waste

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

Totalling over 40M
tonnes/annum waste



Optimising Waste In The Agricultural Sector

Current Challenges

Agricultural waste currently ends up in landfill

- This can cause serious environmental problems since the waste usually contains large concentrations of nitrogen or even toxic substances that can cause soil pollution

Open agricultural burning

- The environmental and human costs of agricultural open burning far outweigh the near-term economic benefits for farmers
- Agricultural burning is responsible for more than 1/3 of all black carbon emissions
- Energy is not captured by this process

A **circular economy approach** is considered of paramount importance to improve resource efficiency and enhance agricultural waste management in primary production industries

Delorean Corporation developed **the first fully closed loop, commercial scale bioenergy plant in Australia.**



Resource Recovery Options

Renewable Energy Fertiliser X X	Renewable Energy Fertiliser X ✓	Renewable Energy Fertiliser X ✓	Renewable Energy Fertiliser ✓ ✓
Landfill Disposal	Soil Injection	Composting	Anaerobic Digestion



Pros

- No source separation required

Cons

- No recycling of organics
- Loss of nutrient value
- No carbon recycling
- Methane/carbon dioxide emissions
- High cost of disposal
- Annual increase levies

Pros

- Source separation for liquid organics
- Low processing/treatment required
- Low cost

Cons

- Limited (liquid organics) allowed
- Contamination risk
- Composting can occur below soil and compete for nutrients
- No gas capture / potential for odour issues

Pros

- Source separation of organics
- Levy exempt
- Recycling of carbon
- Nutrient value captured

Cons

- Waste solution, not an emissions solution
- Methane/Carbon Dioxide emissions
- Odour issues (unless in-vessel)

Pros

- Source separation of organics (minus woody materials)
- Levy exempt
- Recycling of carbon
- Nutrient value captured
- Biogas captured for green energy
- Closed system

Cons

- Woody materials can't be digested

Optimising Digestate Value

1 TONNE OF MINERAL FERTILISER REPLACED WITH DIGESTATE SAVES



1 TONNE OF OIL

108 TONNES OF WATER

7 TONNES OF CO2

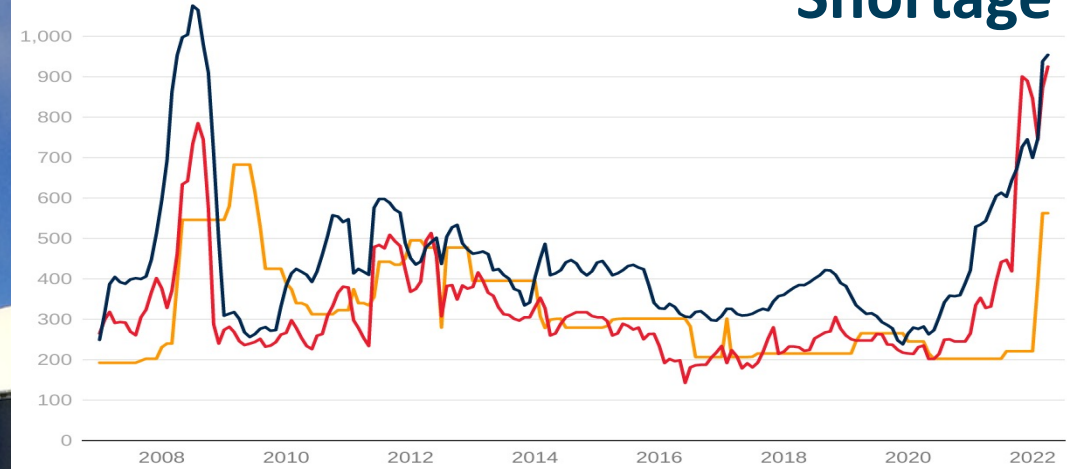
The Benefits of Digestate in Improving Rural Resilience

- The global fertiliser crisis has been exacerbated by the Russia/Ukraine war, causing fertiliser prices to soar
- Biofertiliser provides a solution in terms of both supply and broader environmental benefits:
- Digestate as a fertiliser can contain all macronutrients and micronutrients necessary for modern farming.
- Higher humus content in soil can improve moisture and carbon retention, improving soil fertility, productivity and resilience.
- Digestate offers the opportunity to recycle phosphate from organic waste streams.
- Organic fertilisers release more slowly providing nutrients to plants for up to three years, with a lower risk of leaching into water than mineral fertilisers.
- Digestate is a safer fertiliser than raw organic material
- Digestate can reduce the spread of invasive weeds

Fertilizer prices

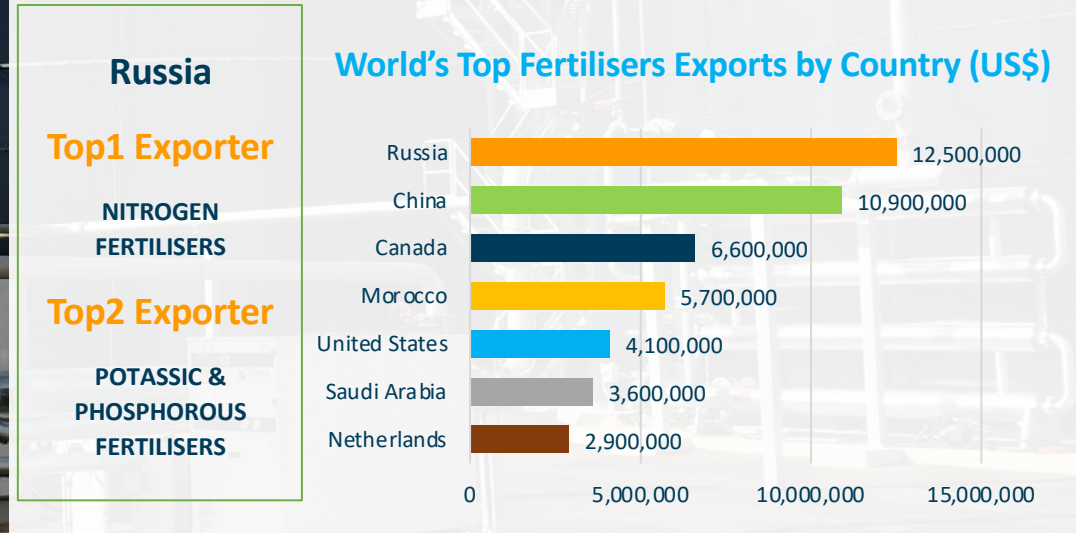
US\$/mt

— DAP — Urea — MOP



Note: DAP = diammonium phosphate. MOP = muriate of potash. Last observation is April 2022.
Source: Bloomberg; World Bank.

Global Fertiliser Shortage



*Reference: Worldstopexport.com <https://www.worldstopexports.com/top-fertilizers-exports-by-country/>

A fertilizer shortage, worsened by war in Ukraine, is driving up global food prices and scarcity (cnbc.com)

*Reference: UK Anaerobic Digestion and Bioresources Association

Delorean Case Study 1- Jandakot Project Organics Diverted From Landfill

Award Winning Bioenergy Plant

- Delorean's Engineering Division undertook the **development, design, finance, build, commissioning** and **operational support** for the Jandakot Bioenergy Plant
- Location: Jandakot, Perth, Western Australia
- Client: Richgro Garden Products
- Operational since 2015
- Processing commercial and industrial waste streams
- Ability to **process contaminated organics** resulting in higher revenues
- DEL Energy Retail manages the sale of renewable electricity generated on site
- Electricity production **saves circa. \$400,000+ p.a**
- **Sub 4-year payback** on capital (before grants etc.)

*This was the **first facility of its kind in Australia** to **commercially process mass organic waste** and also **to integrate it with a composter***

Project Scale

50,000TPA
Bioenergy facility

\$9.5M
Capex

Base Scale

50,000MWh
green electricity generated

200Tj
green biomethane generated
per annum

150,000T
Organic waste diverted from
landfill

50,000 LGCs
Large Scale Generation
Certificates generated

Delorean Case Study 2- BLM Project

Agricultural residues for onsite energy production

This project is the first of its kind in the world to process GOMF for power production on site, behind the meter

- Delorean's Engineering Division has undertaken the development and design of a **grain milling operation bioenergy plant**, with Delorean also contracted to complete the build, commission, operation and transfer of the facility
- **Location:** Bordertown, South Australia
- **Client:** Blue Lake Milling
- The plant processes **ground out milled feed (GOMF)** from the onsite milling operations to supply both electricity and heat to offset, in full, the principle's existing and future energy requirements.
- Full commissioning is currently underway



Project Scale

13,020TPA
Bioenergy facility

\$7.6M
Capex

Base Scale

8600MWh
green electricity generated

This site has already

processed over: **800 TONS** of GOMF

generated over: **1200MWh** of green electricity

generated over: **1500 TONS** of biofertilizer

BLM Continued



- The fundamental **performance** of this bioenergy plant **has substantially exceeded** widely accepted knowledge on bio-methanation of cellulose
- It is **demonstrating 25% more gas yield** and **double the speed of gas production** than existing processes
- Expert external consultants have also advised that the **system shows promise to convert to other cellulose wastes** such as wheat straw, rice straw, corn waste and so on
- This provides a **huge opportunity for scaling of this innovation** and additional support for the optimisation of organic waste across new fields of **agriculture**



Climate Benefits of Deployment

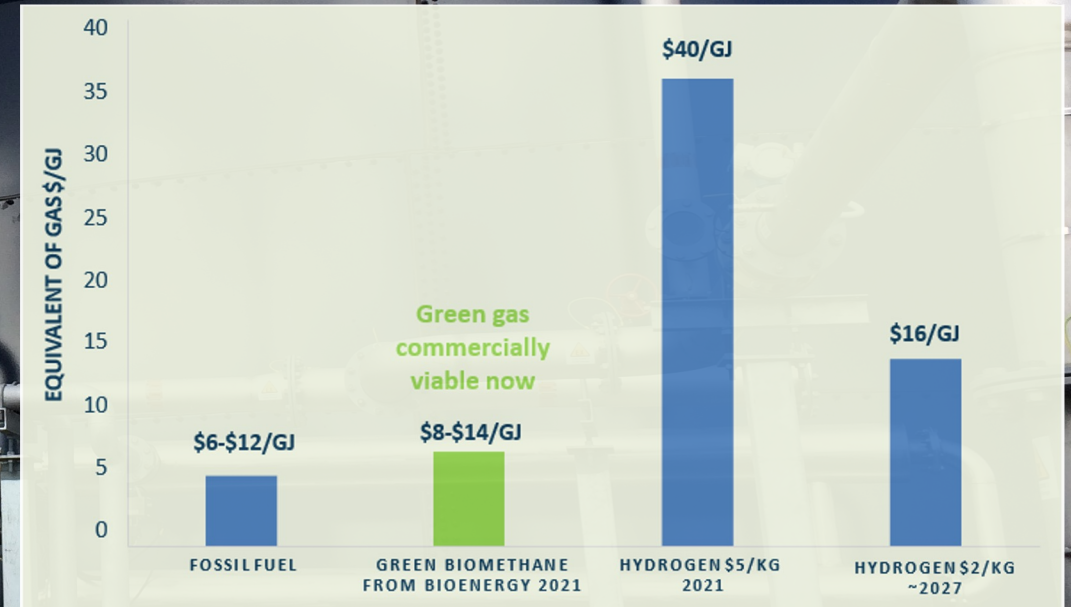
Anaerobic Digestion Benefits

- Supports agricultural and food-processing industries
- Reduces landfill & contamination risk
- Improves rural resilience through biofertiliser production
- Reduces greenhouse gas emissions
- Production of renewable energy
- Provides a more sustainable alternative to prescribed burning

Bioenergy is the **immediate** renewable solution to generate **green gas**

Delorean is building bioenergy plants across Australia and New Zealand and is positioned as the **market leader** in the commercial production of bioenergy and in-demand renewable gas.

Delorean is **partnering** with recognised **industry leaders** to affirm the company's position and deliver financial, societal and environmental benefits to a cross section of different sectors



Bioenergy: A sustainable energy source that benefits the climate, industry and society

Anaerobic digestion is a proven organics processing technology

Bioenergy contributes to a **circular economy** and helps to achieve **decarbonization objectives** for heating, cooling and power generation

Bioenergy helps reduce global food shortage issues

Bioenergy can help address **gas shortages** and the risk of **price fluctuations**

There is **strong support** for **greener energy projects** across Australia. Delorean is uniquely positioned in the fast-growing renewable energy & biomethane markets (with potential for hydrogen)





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