



# Capability statement

Making waste work.



**Making  
waste  
work.**

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Message from the director.

# Jason Hawley

Our purpose is to provide a better way to dispose of organic waste; a cleaner future and a contribution to the economy.

It's our mission to help create a cleaner future for the world. We believe that business, society and the environment can co-exist in a more harmonious way. We consider people and the earth to co-exist and that we should be more active in maintaining this for future generations. What better way to do this than to create value from waste?

The success of our business depends on the success of your business. Like you, we come from a background of industry, agriculture and economics, and understand that it's important for you to deal with the right people, first time; every time.

We integrate our dedicated, skilled personnel with your existing operations to not only find solutions that work best for you, but create value from the word go. We look forward to discussing with you how we can make your waste work

- Jason Hawley MD

# Our mission



## One planet

Leave it in a better state than we found it



## Clean energy

Make it accessible, reliable and sustainable



## Technical solutions

Provide agile, attainable and sustainable solutions



## Our people

Empower all to be creative in their work and tackle the big issues



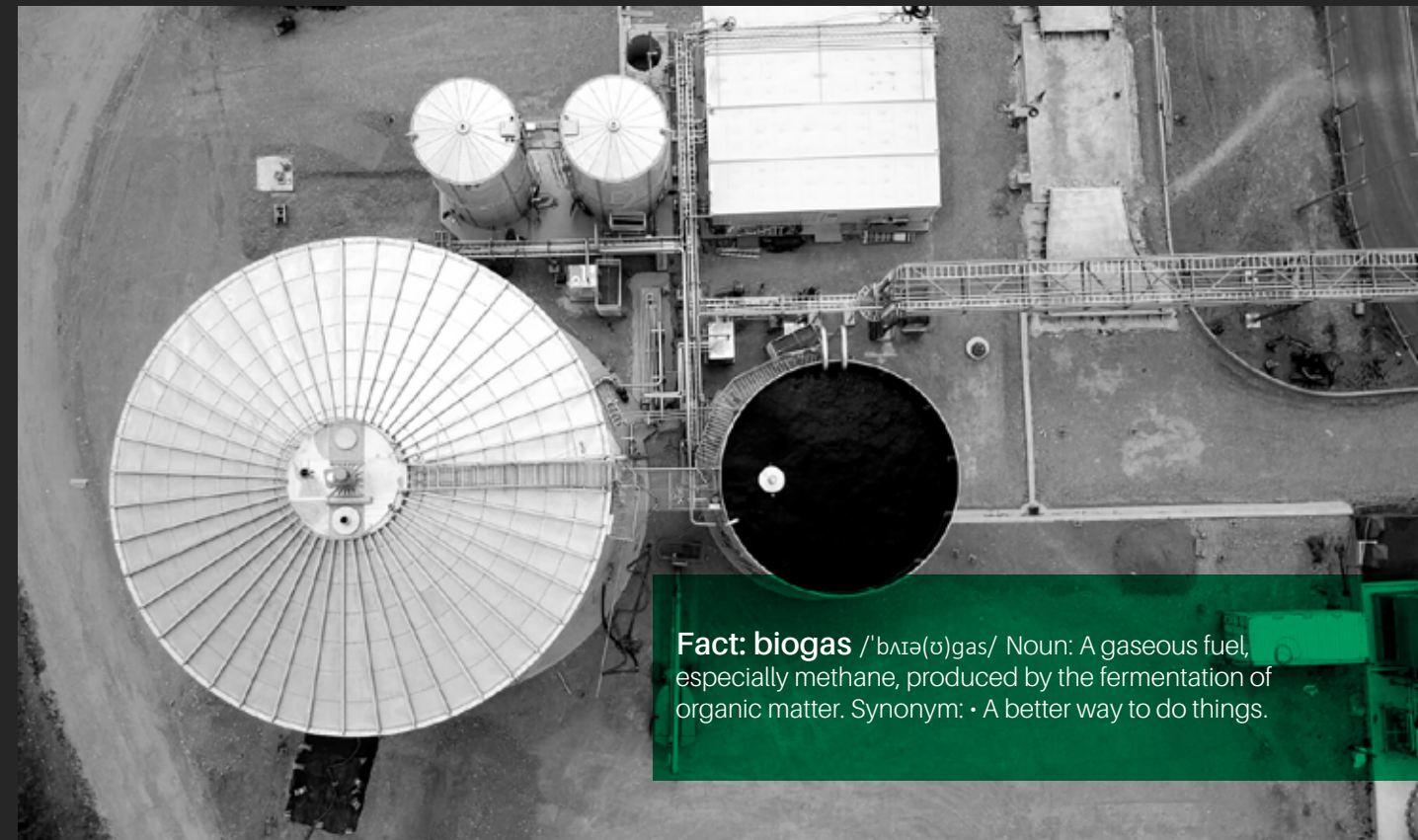
## The future

Leave it bright and safe for the next generation



## Our partners

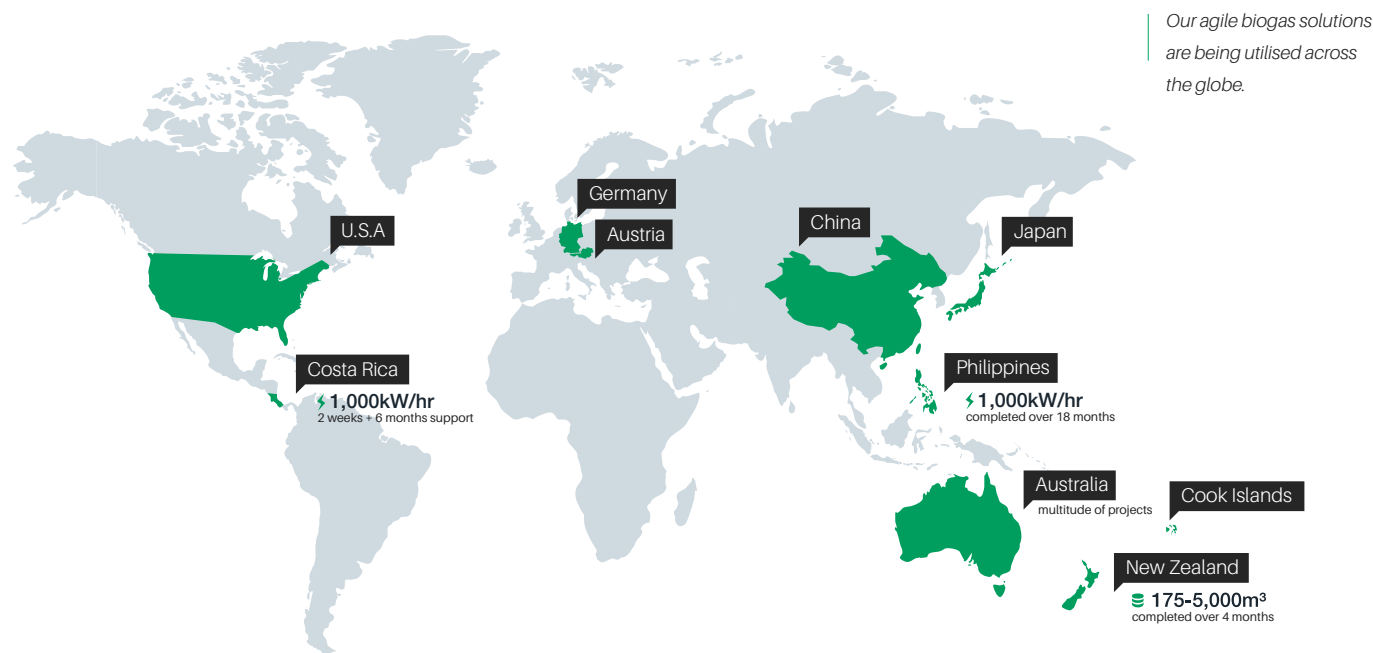
Empower our partners to make their waste work



**Fact: biogas** /'bʌɪə(ʊ)ɡas/ Noun: A gaseous fuel, especially methane, produced by the fermentation of organic matter. Synonym: • A better way to do things.



# We design and build Biogas plants in order to put the World's waste to work.



Every day we strive to turn our client's waste into valuable resources, in a bid to leave the world better than we found it. We're committed to providing clients with realistic, achievable, and agile solutions.

Our work is grounded in deep anaerobic digestion understanding and experience backed by rigorous engineering.

As one of Australia's most experienced biogas engineering houses, our clients include both small and large industrial facilities including: food producers, wastewater treatment authorities, energy companies and agricultural clients.

Wholly Australian owned and based, our expertise and drive has seen us deliver projects in Australasia, South-East Asia, North and Central America and Europe.

## We're committed to bringing sustainable Biogas solutions within reach by, **Making waste work.™**

We're a dedicated, passionate and driven group of professionals who are focused on delivering realistic, sustainable solutions for businesses within the Australian waste to energy sector.

Our team is highly capable and together have designed and built biogas solutions for customers throughout Australia and Asia. Our key strengths are in the adaption of technology for the Australian market, including concept development and feasibility studies, detailed design and planning, procurement, construction management and commissioning of biogas plants.

Leveraging our skills in engineering, manufacturing and project management, we pride ourselves on contributing to business efficiency by creating innovative and practical waste-to-energy solutions that are both good for business and the environment.

# The Finn Biogas difference.

1

## Skills

The right mix of construction and consulting skills and experience for your project.

2

## Track Record

Demonstrated track record in biogas plant design and delivery.

3

## Australian Owned

Australian-based local knowledge and understanding.



# Who we are

Finn Biogas takes safety seriously and boasts zero reportable incidents in operations since establishment.



# How we make your waste work

## 01. Project assesment

Finn Biogas has an experienced team of consultants ready to tackle and waste-to-energy problem your business may face.

With our specialised experience, our team has a keen eye for analysing project opportunities and assessing anerobic digestion solutions to provide a clear, no-nonsense assessment.

We regularly carry out technical and economic assessments of clients waste streams, including data collection, lab analysis, and pilot plant operation. We are well versed in assessing your site and operations for the suitability of a biogas plant. Building and operating a biogas plant can be a complex process, which required specialist knowledge.

Our team is highly focused on delivering the right outcomes for your business, through a complete feasibility assessment before a project starts.

## 02. Biogas Engineering

At the core of any good anaerobic digestion facility is good engineering. Our team is focused on designing and building plants that meet all relevant Australian Standards, while producing maximum return on investment. For some, this may mean maximum gas production and utilisation, while for others this may mean reducing operating expenditure, and dependence on external sources of energy.

We design entire anaerobic digestion facilities from process conceptualisation right through to technical specifications and equipment selection, construction drawings, and operation and maintenance plans. Being aware of our clients' needs, we can incorporate future expansion plans, provisions for shut-down and maintenance, and optimal use of capital and operating expenditure.

Finn Biogas is dedicated to delivering maximum return on your investment, by providing innovative, robust solutions, backed by sound engineering.

## 03. Construction and project managament

During the construction and commissioning of your plant, our team will be on hand to answer any queries you may have, as well as manage supplies and contractors to ensure a quality, to specification build takes place.

Our intimate knowledge of specialised AD equipment, design and digestion processes allows us to have a very good understanding of the underling process engineering of the plant and be able to resolve issues quickly and correctly.

Building on our strong relationships with suppliers and regulators, our team is well versed in delivering waste-to-energy projects on time and in budget.

Our team will oversee the project through construction, commissioning, seeding and start ups as well as handover.

## 04. Plant health monitoring

Ongoing conditional monitoring is a critical part of any investment that's often too easily overlooked.

This process is especially important when dealing with a living system such as a biogas plant.

Our team can monitor and provide feedback on your plant's status along with any recommended corrective action, as well as process tuning to optimise gas yield, or start-up/ shut-down processes.

**Fact:** Members of our team regularly travel to Europe to undertake biogas-specific equipment installation training so that we have the experience and expertise in-house to correctly and safely install biogas equipment.

# The project lifecycle

Assessment  
Feasibility statement

Concept  
Design development

Detailed design  
Construction documents  
Specification of equipment

Construction  
Contracts  
Suppliers  
Equipment purchases

Commissioning  
Plant start up  
Biological process  
commences

Operations  
Maintenance





**Biogas plant, Philippines**

- 📍 Mindanao Philippines
- 🕒 18 months concept to commissioning
- 🗑️ Chicken manure, wastewater sludge fruit and vegetable scraps
- ⚡ 1,000kW/hr



# Biogas plant, Philippines

Design and construction.

Finn Biogas was contracted to deliver a turnkey biogas plant to a client in the Philippines. The client operates large scale chicken farming and meat production, which resulted in approximately 60 tonnes per day of manure. Due to the nature of their operations, they required a waste-to-energy solution to offset energy used on site and reduce dependence on external power network.

Finn Biogas delivered the project under an EPCM delivery model for the project resulting in risk shared appropriately between the parties. We successfully integrated the clients local capability and requirements with our own expertise in design and procurement to realise a project that was delivered on-time and on-budget, despite the numerous challenges associated with working in a remote location.

- ◆ Feasibility study + Concept Design
- ◆ Detailed Design + Equipment Specification
- ◆ Procurement of Key Equipment + Contractors
- ◆ Construction Management + Site Engineering
- ◆ Commissioning, Training and Handover



**Energy Branch to Shell New Energies:**

- 📍 Eugene, USA
- 🗑️ Glass-fused steel bolted digesters
- 🗑️ Food waste
- ⚡ Electricity and heat



**Abattoir concept design**

📍 Australia



**Biogas plant**

📍 New Zealand



**Portable water tanks**

📍 Cook Islands



**Feasibility study + concept design**

- 📍 Australia
- 🕒 Four months
- 🗑️ Pulp and paper waste
- ⚡ 1,600kW/hr





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