

# Capability Statement





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The Syngineering Group  
Brisbane, Sydney, Auckland  
**Phone: 1300 662 326**  
E: [info@syngineering.com.au](mailto:info@syngineering.com.au)

## Syngineering

Syngineering is an experienced and trusted engineering and systems designer providing cost effective, high performance, custom water and waste treatment solutions to government, industrial, and private organisations since 2008. Syngineering Water is part of the Syngineering Group and was created to establish a team of engineers focused solely on solving challenging water problems. At Syngineering, we draw on years' of experience in the design, testing and manufacture of water and wastewater treatment systems that are utilised in over 45 countries.

## Experience

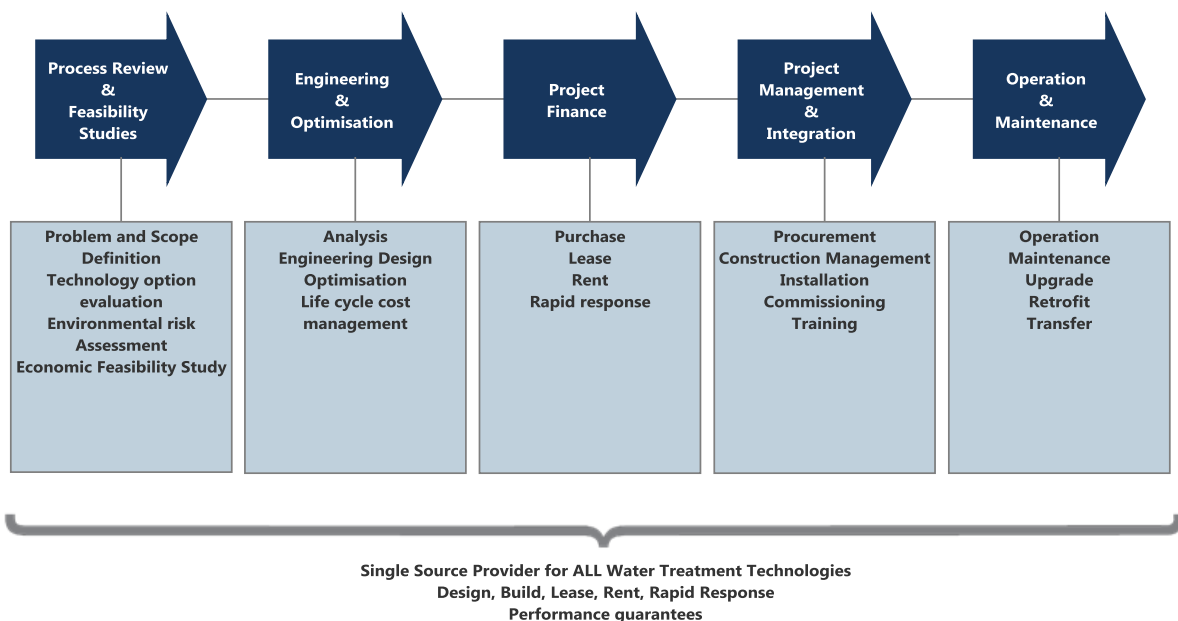
Syngineering provides effective solutions using high quality equipment for our clients throughout Australia and New Zealand. We recognise the imperative requirement in the industry for reliable equipment correctly matched for the application.

Our products have been designed for and installed in the following applications:

- Sewerage
- Mining
- Coal Seam Gas
- Food & Beverage Industries
- Meat Processing
- Dairy
- Landfill Leachate
- Industrial Wastewater

## What we do

We provide effective wastewater treatment solutions, applying our engineering knowledge and experience to fully design, construct and operate fully functional water treatment systems. Treatment of water and wastewater is an ongoing challenge for communities worldwide. As environmental regulations increase, cost-effective and high-performing treatment solutions become integral. At Syngineering Water, our team of engineers focus solely on solving those challenging water problems. We only use registered technologies that have been used successfully on a commercial scale to provide the best solution ideas on the market for our clients.



At Syngineering Water we believe the best solution is simplest and most practical option possible:

- Ease of Design & Construction
- Long-Term and Operational Running Costs
- Financial Services and Continued Support
- System Durability and Reliability
- Quality of Water

## **At our core**

Syngineering Water is an active and independent wastewater treatment system designer and engineering solutions provider with the aptitude to be your one stop shop for specific design solutions, testing and manufacture of water and wastewater treatment systems.

We have the in-house expertise to analyse and assess the problem, propose using physical principles an engineered solution and then are able to commission and manage the project to provide a cost effective system.

Our team at Syngineering Water can provide:

- Consultancy
- Bench, Pilot & Field Trials
- Laboratory analysis, testing & reporting
- Engineering design
- Manufacturing
- Installation
- Onsite supervision
- Commissioning
- Drawings & Documentation
- Operational monitoring and
- System servicing
- Maintenance
- Operator Training

## **Available Technologies**

Our philosophy is to use a range of technologies in order to create the optimal solution for our customers. We do not limit ourselves to any one technology suite or engineering solution/methodology, instead we work with trusted technology partners who along with us drive design innovation that has been proved in complex and difficult applications. Our technologies include:

### **Membrane Filtration**

- Microfiltration (MF)
- Ultrafiltration (UF)
- Nano-filtration (NF)
- Reverse Osmosis (RO)
- VSEP

### **Physiochemical Separation**

- Dissolved Air Flotation (DAF)
- Enhanced clarification

### **Biological**

- Sequential Batch Reactors (SBR)
- Membrane Bioreactors (MBR and MBBR)
- Diatomics

### **Dewatering**

- Decanters
- Press filters

- Screw presses

## Who do you work with?

Our customer base is as diverse as the technical challenges within the water treatment market itself. Our experience includes:

- Landfill Leachate
- Meat Processing plants
- Food & Beverage Industries
- Mining
- Dairy industry
- Poultry
- Coal Seam Gas
- Sewerage plants
- And many more

## How are we different?

### Responsive

At Syngineering Water we pride ourselves on being a responsive, innovative and a reliable provider of water treatment solutions that represent the best possible value to our customers.

### Total Solution Supplier

Syngineering Water is truly a single source supplier of design services, hardware, control software, chemicals, consumables, installation, service and maintenance. From Process Review through to equipment Operation, Monitoring and Maintenance, and end of life upgrade Syngineering Water has the experience and expertise to effectively manage your water treatment solution.

### Focus on Operational Cost

Our use of advanced instrumentation and remote monitoring including video, as well as intelligent adaptive process control, allows Syngineering Water to maximise uptime, reduce maintenance, reduce consumable usage (hardware and chemistry) and most importantly reduce the OPEX of the installation.

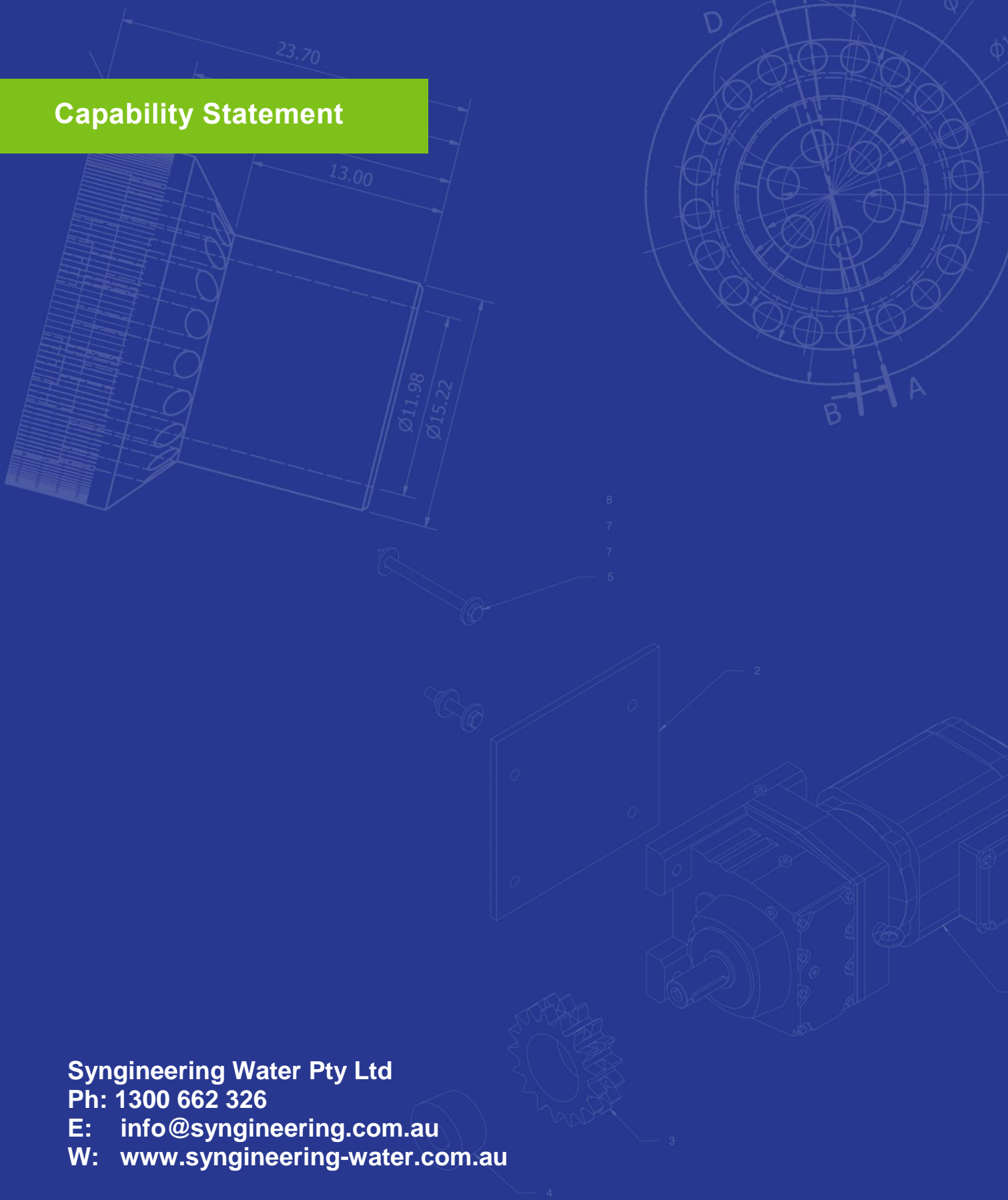
### Flexibility and simplicity

Syngineering Water is not only an equipment supplier, we are able to quote and installed turnkey engineered solutions on tailor made commercial contracts -The aim is to reduce operational risk and potentially convert a CAPEX budget to more manageable Operational Expense.

The Syngineering Water success formula....

Listen to our customers, and then deliver a high quality, cost effective simple solution.

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Syngineering Water Pty Ltd  
Ph: 1300 662 326  
E: [info@syngineering.com.au](mailto:info@syngineering.com.au)  
W: [www.syngineering-water.com.au](http://www.syngineering-water.com.au)

