INNOVATIVE SOLUTIONS BY EVO ENERGY TECHNOLOGIES
Unique engineering approaches to meet tomorrow’s challenges

THE ULTIMATE SOLUTIONS FOR IMPROVED ENERGY EFFICIENCY

COGENERATION
NATURAL & BIOGAS CHP

TRIGENERATION

BIOGAS COMPONENTS

HEAT RECOVERY TECHNOLOGY

HEAT PUMP SYSTEMS

SPECIALISED HEATING & COOLING APPLICATIONS

Smart and reliable energy solutions with combined heat and power
About Evo Energy Technologies

Dedicated to saving our customers energy
THE ULTIMATE SOLUTIONS FOR IMPROVED ENERGY EFFICIENCIES

Evo Energy Technologies is an Australian company dedicated to saving our customers energy.

Our mission is to reduce energy costs by providing superior technology for improved energy efficiency.

Our vision is to be the first choice partner in the reduction of energy use to our clients.

We offer the Australian market the best possible solutions in the fields of cogeneration, heat pump and heat recovery technologies.

Evo Energy Technologies and our sister company Evo Industries Australia have a wealth of experience in delivering successful projects for our clients.

The Evo Group is 100% Australian owned and operated, has been in business since 2006 and supplies equipment to Australia, New Zealand, Oceania, Thailand, Fiji, Malaysia, Vietnam and India.

We offer a full range of service from supply only to full turn key installations with on-going maintenance and support available from factory trained staff.

Our technology offering includes:

2G COGENERATION SYSTEMS
natural & biogas

2G TRIGENERATION

BIOGAS COMPONENTS
biogas blowers, biogas flares, biological gas cleaning & gas storage

HEAT RECOVERY TECHNOLOGY

EVO HEAT PUMP SYSTEMS
High efficiency air to water and water to water heat pumps

SPECIALISED HEATING & COOLING APPLICATIONS

EVO SPECIALIST HYBRID COGENERATION, TRIGENERATION, HEAT PUMP SYSTEMS FOR THE ULTIMATE COST SAVINGS...
## Alex Pannekoek - Service Engineer

Alex started out a 10-year career with Deutz/MWM as a diesel fitter and witnessed the introduction of the first gas engines to be released from Deutz/MWM into the market. He was sent to Germany for factory training on natural gas, biogas systems, engines and control systems. He continued to install, service, maintain, overhaul and repair all types of diesel and gas engines on landfill and waste water treatment plants, hospital generator sets, ships, road building equipment, power stations on pacific islands and more.

Alex has attended 2G Technical Factory Training and has completed level 20 status which allows him full service access to all 2G Engines in the Southern Hemisphere via an on-line system. Alex will oversee all of our 2G systems for full service and warranty compliance for complete protection of our clients valuable asset.

## Travis McNeill - General Manager

Over 20 years management experience in medium size companies of 80-120 employees and provides technical support with specialised experience in equipment specification and installation.

Travis has amassed considerable technical knowledge of cogeneration systems as well as heat pump and boiler technologies.

## Tony Mills - National Business Manager

Tony offers over 27 years of experience in the pool industry with specialised knowledge in the hydrotherapy pool and spa areas.

He provides support to Evo customer pool builders, distributor networks and authorised warranty providers.

## Henryk Sliwa - Chief Technical Officer

Henryk has nearly 40 years of experience in the engineering industry as well as high levels of project management skills. Henryk has held roles in Poland, Germany and Australia in hot water, quality engineering and cogeneration technologies.

Henryk Sliwa is one of the most experienced engineers in Australia in his area of expertise and oversees projects to ensure a successful result for the client. Henryk holds a degree in Engineering and is a member of AIRAH & ASHRAE.

## Michael Crook - Business Development Manager

Michael is an experienced Business Development Manager with over 10 years of experience in controls, monitoring and BMS Services.

He has worked for some of the leading brands in BMS/controls on projects that have varied from commercial high rise to hospitals and educational facilities to heritage projects.
Evo Energy Technologies is the Australian distributor for 2G Cogeneration systems who are the world’s leading biogas cogeneration manufacturer having installed over 5,500 plants in 43 countries.

2G manufacture cogeneration systems from 20kW to 4000kW electrical capacity that provide electrical efficiencies up to 42%.

Designed to use biogas, natural gas, landfill gas or hydrogen gas - 2G CHP systems offer the best opportunity for a successful return on investment.

SOLUTIONS THAT FIT YOUR NEEDS

Not every facility is the same - we provide custom solutions to meet requirements of your facility. We can deliver a complete package with integrated additional components, such as absorption chillers, gas treatment, production of steam and hot water and emission control systems.

We offer complete end to end solutions with a full range of service from supply only to full turn key installations with on-going maintenance and support.

Our staff have many years of experience in cogeneration including design and feasibility, biogas production and processing and gas safety and we have the only factory trained and certified staff to service 2G systems.

APPLICATIONS: ABATTOIR | AGRICULTURE | BIOGAS PLANTS | FOOD INDUSTRY | LANDFILL SITES | SEWAGE TREATMENT | WASTE WATER TREATMENT PLANTS
Heat pumps

Heat pumps are an extremely efficient means to heat water, with the latest EVI Scroll technology we can heat water up to 80°C or extract heat from ambient air as low as -25°C.

For even better efficiency we can extract heat using our water to water heat recovery technology from other water sources such as grey water, condenser water or process water.

Our systems can operate with C.O.P. of up to 5 - this means for every kilowatt of electrical energy in we achieve 5 kilowatts of heat energy out. By partnering with world leading manufacturers, EVO is able to offer the latest technologies in combination that no other company can provide. This provides outstanding savings in energy which in turn gives the best opportunity for a successful return on investment.

WE CAN SAVE UP TO 50% RUNNING COSTS AND OVER 30% SAVING ON GHG EMISSIONS OF A GAS BOILER
Our Technologies

Pool heating solutions

We have vast experience in pool heating from residential pools and spas through to the largest commercial aquatic centres with competition Olympic pools. We have worked with Local Councils across Australia to reduce running costs, improve patron comfort and present them with a more valuable asset.

Our pool heat pumps are built to our own specification developed over many years of practical experience in the Australian Pool industry. We specify high quality components including titanium heat exchangers, leading brand compressors, in-built control, hydrophilic-coated coil fins and safety devices including flow switches and high pressure cut outs for added protection.

We offer an industry leading warranty with 25 years on the titanium heat exchanger, 5 years on the compressor and 2 years on all other parts.
Our inimitable combination of technologies and people

We have gathered the world’s leading technologies across Cogeneration, heat pumps and heat recovery systems. We have partnered with companies who are experts in their field and continuously improve their products through extensive research and development. They support us with the best available energy efficiency, high quality products and superb after sales support.

We have assembled a strong team with a wide variety of experience across many different industries. Our staff have over 120 years experience in swimming pools, energy efficiency and building services. What they all share is a passion for achieving energy savings for our customers.

We are the only company in Australia who can offer this range of technological solutions. We have proven our abilities through customers agreed successful projects. Due to our unique offering to the market we view every project as a reference project. Our satisfied customers have become advocates for future projects.

All of our products are fully supported with in-house factory trained staff. We have direct contact with our manufacturing partners so that any field issues can be promptly addressed.

Our staff regularly attend industry functions and conferences to stay up to date with the latest news and innovations. We often present at industry events and are more than happy to share our knowledge and experience through presentations or lunch ‘n’ learn sessions.

When we do not have the right expertise in-house we collaborate with external partners such as Everest Resources for our on-line OH&S systems. See: http://ohs.onlinecompliance.info/login.php. This encompasses our safety and environmental policies, SWMs, EMPs and hazard reports.

Our existing customers have experienced the energy saving benefits of our technologies and the strong performance of our staff and management. Please review the following reference projects.

At Evo, we believe in leading by example

Our head office is a refurbished 1970’s commercial warehouse in which we have replaced the existing electric hot water with a high efficiency heat pump system, we have installed 10kW PV solar power system and a high efficiency chilled water cassette air conditioning system with occupant controls for operation and temperature.

All glazing is double glazed low E solar glass to reduce heat transmission gains.

We have high efficiency LED lighting and water saving plumbing fixtures installed throughout.

Recycled material have been used where possible including the reception entry foyer.
EvoET significantly reduce Rivalea’s energy costs & carbon emissions

The Rivalea Group is one of the leading pork producers in Australia with approximately 1100 employees with stock-feed production, farming and meat processing facilities in Victoria and New South Wales.

In early 2017, Rivalea Australia partnered with Evo Energy Technologies and 2G Energietech-nik with the installation of their first 2G Avus 550kW Biogas Combined Heat and Power Unit (CHP) in a 12m custom-built container. The biogas fuel used in the 2G Avus 550kW CHP is captured from the natural breakdown of pig manure in a covered anaerobic lagoon and turns the waste product into an energy source.

Due to the successful installation in 2017, Rivalea have since installed an additional two 2G Avus 550kW CHP engines.

3 x 2G Avus 550kW CHP engines

2017 Green Globe Award Finalist
Teys Australia is one of Australia’s largest beef producers in Australia and has made the initiative to support sustainable beef processing and to reduce environmental impacts, including consumption of energy, water and the amount of waste sent to landfill.

Evo Energy Technologies has provided the Naracoorte plant with a Biological Scrubber and an Avus500plus 550kW Biogas CHP in a 7m x 3m x 3m container module with gas dehumidification and active carbon filtration.

Wastewater from the plant will be contained in a covered anaerobic lagoon. The covered anaerobic lagoon will convert this wastewater into biogas and the biogas will then fuel cogeneration equipment for the Naracoorte plant.

Teys Australia can expect 2,500MWh of renewable energy yearly (this is equivalent to the energy usage of 500 average Australian homes). A portion of the electricity and heat within the plant will now be provided though a clean and renewable energy source.
Australian first combination of geothermal heat pump with natural gas cogeneration technology

The Fremantle Aquatic Centre project was recognised for its unique combination of heating technology and outstanding energy efficiency that has given the City of Fremantle an excellent result.

The system comprises of Geo-thermal water to water heat pump that provides 330kW of thermal power using bore water as a heat source. This water is taken from 160m below the ground to approximately 27°C. This system has a C.O.P. of 6.0 and is the primary source of heating for the swimming pools.

There is also a cogeneration system that provides 75kW electrical and 120kW thermal power by running an engine on natural gas which drives a generator. The waste heat is from the engine and its exhaust are captured and reused. This reduces power usage at the centre during peak periods. This is the most efficient way to use natural gas as a fuel. Overall efficiency achieved is 85%.
Supply and installation of biological desulphurisation plant at Southern Meats

Evo Energy Technologies completed the supply and installation of a Biological Desulphurisation plant for Renu Energy at Southern Meats, Goulburn.

The Bioscrubber system removes Hydrogen Sulphide from the incoming Biogas to ensure clean gas is delivered to the engines on site.

Incoming biogas with H2S levels of up to 3000ppm are reduced to less than 200ppm and operational costs are kept to an absolute minimum compared with other scrubbing techniques.
Central energy plant now provides QPF with significant advantages

Queensland Plants and Flowers (QPF) are a wholesale florist situated in Thornlands, Brisbane. In late 2016 Evo Energy Technologies upgraded their damaged and inefficient wood-chip boiler and absorption chiller with a central energy plant that now provides QPF with significant advantages.

Evo Energy Technologies installed 12 CHV air to water heat pumps totaling 1,680kW hot and cold distribution and a power management and monitoring system. This new infrastructure offers a low maintenance, energy efficient solution to chilling and heating their greenhouses.

With the reduction of any manual labour and cheaper running costs, Evo Energy Technologies have been able to significantly reduce Queensland Plants and Flowers annual running costs.
In early 2017, EvoET dove into the largest water aquatic heat pump installation in Australia with a cutting-edge system upgrade helping WhiteWater World become one of the most energy efficient water parks on the planet.

Our redesign heats over 30 slides, water-rides and pools to a toasty 27°C while cutting their existing carbon emissions by over 35 percent.

With the installation of 19 high-performance EvoHeat CS200-GEN2 heat pumps EvoET were able to provide up to 3,610kW heating capacity, unparalleled energy efficiency and an estimated reduction in running costs of over 70 percent.

This technology also allows WhiteWater World to monitor and remotely control all aspects of their water heating plant to ensure maximum comfort for their guests all year round, at optimum energy usage.
Evo Energy Technologies have been awarded a number of industry awards over the years, below are some of the most recent.

In 2017, Rivalea Australia were finalists for the NSW Business Leadership Green Globe Award, recognised for their installation of their custom-built 2G 500kW Biogas Combined Heat and Power Unit (CHP).

This award recognise outstanding NSW businesses or corporations that have integrated environmental management and sustainable practices into their organisation.

The Dreamworld pool heating project was recognised for the extraordinary achievements in innovation and sustainability, winning two GOLD awards at the 2019 SPASA QLD Awards night.

This project went on to compete in the SPASA Australia National Awards of Excellence and took home the gold award for Innovative project.

Evo Energy Technologies were awarded the Splash! Environmental Award for our ground-breaking Fremantle Aquatic Centre heating project.

The Splash! Environmental Awards are the only awards in the world dedicated to environment friendly products and projects in the swimming pool and spa industry.
CONTACT US

For further details on our products or services please contact us directly.

FOR GENERAL ENQUIRIES

Phone: 1300 859 933
Email: sales@evoet.com.au

FOR DIRECT ENQUIRIES

Travis McNeill - General Manager 0414 996 347 travis@evoheat.com.au
Tony Mills - National Business Manager 0419 136 772 tony@evoheat.com.au
Henryk Sliwa - Chief Technical Officer 0403 720 105 henryk@evoet.com.au
Michael Crook - Business Development Manager 0416 686 393 michael@evoet.com.au

BRISBANE HEAD OFFICE

Head Office & Warehouse
18 Hasp St, 17 Mile Rocks
QLD 4073

evoet.com.au
THE ULTIMATE SOLUTIONS FOR IMPROVED ENERGY EFFICIENCY

Evo Energy Technologies

1300 859 933
sales@evoet.com.au
evoet.com.au