

PROCESS WATER INFRASTRUCTURE





ABOUT US

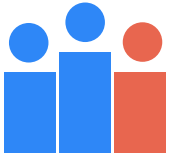
Pensar offers insightful, original design thinking, implemented by a team with proven expertise to deliver flexible fit-for-purpose critical infrastructure solutions. We design and realise infrastructure solutions for a range of industry segments, providing a broad spectrum of technical capabilities to serve the diverse needs across a range of industry sectors, from bulk water supply authorities and water utilities to regional councils.

With a unique combination of dependable technical skills and proven experience, our clients can choose to draw on one or many of these capabilities according to their project requirements across process water infrastructure, non-process water infrastructure, specialist infrastructure, infrastructure rehabilitation and electrical infrastructure.

This provides our clients with the benefits of streamlined project planning, cost-effective delivery and the seamless Pensar experience.

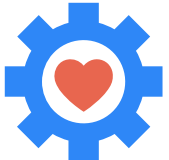


OUR GUIDING PRINCIPLES



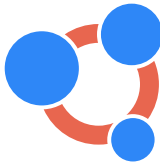
People are everything

We **value diversity and inclusion** and strive for the power of collective wisdom by encouraging individual competition, but not at the expense of a strong team. We **reward on merit** while seeking out people prepared to **engage ethically and responsibly** with the skills and imagination to aspire to reach the highest levels.



Doing the right thing

Doing the right thing is an **individual priority** and a **collective imperative**. We behave ethically and responsibly when faced with tough decisions about the **sustainability of our environment**, the **health and wellbeing of our people and our communities**, and the **safety of our work sites**.



Relationships matter

Relationships are built on trust and collaboration. We recognise the **power of partnerships** that put the **project first** and are **solutions focused**. We adhere to the principle of no surprises and the rule of producer/leader/manager to ensure our key people are always close to the action.



Bias for action

We have a bias for action, reinforced by **radical transparency and truth**. We make a powerful commitment to every project and **hold ourselves accountable** to get the job done. We will never be afraid to act when faced with uncertainty and recognise the critical importance of timely, **informed decision making**.



Always improving

We are always improving. Not to be the biggest but to be the best through **constant innovation** and **continuous improvement** of ourselves, our systems and our work practices and methods. We deliberately **engage a growth mindset** that embraces change, accepts mistakes and learns from them, says no to what is not working and **strives for excellence**.





Pensar ensures that each project delivered, is suitable for its application, region and surrounding environment.



OUR CAPABILITIES

Our expertise in water and wastewater infrastructure enables us to provide solutions for a diverse range of industry sectors, from bulk water supply authorities and water utilities to regional councils.

We deliver stand-alone water and wastewater infrastructure solutions in addition to integrated total project solutions that draw on

Pensar's complementary delivery capabilities including water treatment plants, wastewater treatment plants, raw water treatment, recycled water treatment and cogeneration plants.

Pensar ensures that each project delivered, is suitable for its application, region and surrounding environment.

Key capabilities

- Water Treatment Plant
- Wastewater Treatment Plant
- Raw Water Treatment
- Recycled Water Treatment
- Cogeneration Plant





**ASMTI Shoalwater Bay
Training Area Wastewater
Treatment Plant
Laing O'Rouke**

Design and Construction

Pensar designed and delivered a solution to deliver wastewater infrastructure, which permits a large buffering capacity, meeting the increased diurnal flows of typical military camp routines for when the Department of Defence Shoalwater Bay Training Area is in use. It also needed to endure large stand down periods of little to no flow for up to nine months.

As part of the early engagement works, Pensar presented four independently solutioned options working through the advantages and disadvantages of each during two optioneering workshops with the client.

Our tailored design solution provides Defence with significantly reduced ongoing operational expenditure, eliminating the requirement of full-time WWTP operators, and provides significantly cleaner final effluent to be used as irrigation on the training base land.

Additionally, Pensar's design solution facilitates potential future growth of the training facility and meets the effluent discharge target requirements of the Great Barrier Reef catchment regions.



This project will ensure future capacity and reliability to service the growing community.

PROJECTS

**Merrimac Recycled Water
Treatment Plant Upgrade
City of Gold Coast**

Design and Construct

Pensar was engaged by the City of Gold Coast for the design and construction of a new 5ML/ day Recycled Water Treatment Plant within the existing Merrimac Sewage Treatment Plant.

Pensar's technical experience across multiple delivery capabilities enabled our process, electrical and structural specialists to deliver this complex project as a standalone delivery team.

The scope of works included two concrete reservoirs and associated electrical infrastructure, covered dosing area, upgrade of adjacent STP dosing and storage, and above ground pipework and electrical fit-out.





PROJECTS

Cunnamulla Sewage Treatment Plant Upgrade Paroo Shire Council

Design and Construct

To meet environmental discharge targets, Pensar was engaged to complete the design and construction of a new wastewater treatment plant in the Paroo Shire.

This was necessary as the existing plant was unable to meet effluent discharge requirements, did not enable irrigation reuse and was unable to handle increased inflows due to growth in the region.



Pensar's bespoke design solutions ensure the new plant delivers full compliance with all environmental discharge and water quality requirements.

It has also delivered the added efficiency and versatility expected of a bespoke solution, that is perfectly suited to its application, region, and environment.

This included the requirement that all mechanical and electrical equipment be able to be maintained within the skillset of the local community.

Finalist – 2021
AWA QLD
Water Awards

PROJECTS



Carole Park Wet Weather Bypass System Upgrade Urban Utilities

Construction

Pensar was engaged for the upgrade of the wet weather bypass system at Carole Park Sewage Treatment Plant. The scope of works included the construction of new chlorine dosing and mixing chambers, and installation of new wet weather bypass and interconnecting sewer lines.



Box Hill Local Water Centre Flow Systems

Construction

This project involved the construction of a new greenfield local water centre via an MBR plant to service the new subdivision, The Gables. The construction of the new 1ML MBR plant included a new dual train membrane bioreactor tank, main control building, two 2.5ML recycled water tanks and connection of all services.



North Pine Water Treatment Plant Upgrade Seqwater

Design and Construct

Seqwater engaged Pensar to mitigate and eliminate the risk of any contaminants entering the water supply. The scope of works included the upgrade of facilities and reduction in the long-term maintenance requirements of the treatment plant.



Aubinville Sewage Treatment Plant Upgrade Fraser Coast Regional Council

Design and Construct

The existing electrical infrastructure and clarifiers at the Aubinville Sewage Treatment Plant were degrading and reaching the end of each components service life. Pensar was engaged to remove and replace the mechanical and structural componentry of the existing clarifiers and the design, installation and commissioning of electrical, instrumentation and communication systems.

PROJECTS

Wamuran Irrigation Scheme Unitywater

Joint Venture, ECI,
Design and Construct



The Wamuran Irrigation Scheme (WIS) will take Class A recycled water from the Caboolture Sewage Treatment Plant to agricultural irrigation.

After completing a customer focused EOI, Unitywater engaged the WIS JV of which Pensar is a partner, to deliver the design and construction of the scheme.

The concept provides local growers with climate-independent irrigation, while reducing demand on dams and creeks, and diverting discharge away from local river systems.

Pensar is currently in the construction phase of the 22km pipeline pumping infrastructure, including the installation and commissioning of the Local Control Cabinet and HV electrical infrastructure.

Molendinar Backwash System Upgrade Seqwater

Design and Construct



The Molendinar Water Treatment Plant is the largest treatment plant on the Gold Coast, servicing most of the region. Pensar was engaged for the upgrade of the backwash and electrical systems.

This project was the largest upgrade to this treatment plant since it was built in the 80s and will ensure future capacity and reliability to service the growing community.

Pensar delivered the entire design and construction of the plant upgrade, utilising our electrical, mechanical, civil and structural expertise.

The project team effectively coordinated a 10-week whole of plant shutdown with minimal impact to the community. Upon the plant being back online, Pensar created operation manuals for future works.

PROJECTS

PENSAR – PROCESS WATER INFRASTRUCTURE



Bulga Open Cut Coal Mine Flocculant Plant Glencore Coal Management

Design and Construction

As part of Glencore's Bulga Open Cut Mine Tailings Dam relocation project, Pensar was awarded the design and construction of a flocculant plant. The plant was required to be capable of dosing multiple dredged tailings feed lines at demanded dosing rates.

The construction phase was completed adjacent to a fully operational mine road. The delivery team ramped up the site works with a considered program to reach practical competition on time despite multiple project delays.



Coombabah STP Cogeneration Plant City of Gold Coast

Design and Construct

Pensar was engaged for the design and construction of a cogeneration plant and the replacement of ageing water heaters.

The new cogeneration unit uses gas to generate renewable energy and the engine cooling water to heat the digesters. This will reduce plant energy consumption, optimise the use of renewable energy and lower operational costs.

3D scanning was utilised during the design phase to improve the efficiency and quality of the review process and final design. This technology demonstrated the advantages and enabled risks to be assessed, concepts to be reviewed, and ultimately work to be completed within the hazardous area.

This project received a City of Gold Coast 2021 Work Health and Safety Award for 'Best Demonstrated Health and Safe Work Design'.

OUR MANAGEMENT SYSTEMS

Pensar maintains a well-documented management system that serves as an effective risk management tool and communicates our focus and commitment to our quality assurance, workplace health and safety and environmental management processes.

Safety

Pensar strives to be recognised as an industry leader in health and safety performance and follows industry best practice. Safety is our highest priority and our very low Workers Compensation Premium Rates are evidence of our proven health and safety systems and culture.

INDUSTRY WORK COVER PREMIUMS

INDUSTRY RATE IS	PENSAR'S RATE IS
2.23	0.22

Mining Qualifications

Ensuring safety, efficiency and compliance on our mine project sites, Pensar key team members are G1, G8 and G9 qualified. These qualifications equip and support our onsite teams with advanced knowledge prioritising safety, optimising productivity and contributing to the success of mining sites in Australia.

Community

Pensar has aligned itself with grassroots organisations where our team members can be actively involved and see first-hand the impact of their positive actions and contributions.

Quality Assurance

Pensar puts systems in place to ensure our projects deliver a level of quality that exceeds client expectations. With the application of our management systems, we ensure all employees, suppliers and subcontractors operate with Pensar's quality objectives in mind.

Environment

Pensar is committed to reducing environmental harm and minimising our impact on the environment. We believe excellence in environmental performance is essential and effective environmental management is an integral part of all projects.

Procurement

Pensar always aims to use a local workforce where possible. Our policies

and procedures ensure our procurement principles are ethical whilst ensuring we focus on value for money, quality products.

Aboriginal and Torres Strait Islander Peoples

Pensar fosters a comprehensively inclusive culture where Aboriginal and Torres Strait Islander Peoples participation and cultural heritage is included as a core function of the company's management processes.

Aboriginal and Torres Strait Islander Peoples communities play an active role in caring for the natural environment and landscape, particularly in the regional and remote locations where Pensar often operates.

We are committed to sharing the values and knowledge of Aboriginal and Torres Strait Islander Peoples at all levels of our business, and to forging a workplace where diversity and these values are acknowledged, celebrated, and appreciated.



We take extreme pride in the diversity and quality of the projects we deliver.

Industry Certifications and Accreditations

Occupational Health and Safety Management Systems Standard ISO 45001 (GRS Quality Management System, Certificate number: 4779001610075)

Environmental Management System Standard ISO 14001 (GRS Environmental Management System, Certificate number: 47714001610075)

Quality Management System Standard ISO 9001 (GRS Occupational Health & Safety Management System, Certificate number: 47745001610075)

Occupational Health and Safety System Standard AS/NZS 4801 OFSC: Pensar Water, Pensar Building, Pensar Project Infrastructure: Certificate number: 341

Building Services Authority PQC3 Energex Accreditation Rating WCS2, 34, 37 & 61

Ergon Energy Approved Suppliers Register Rating B
Austroads DS6 - BM/F2 (Tasmania)
Silver Master Electrician

Licences

QBCC Contractor Licence 1081361
QLD Government Electrical Contractor Licence 76158
NSW Government Contractor Licence 266065C





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