

# ELECTRICAL INFRASTRUCTURE





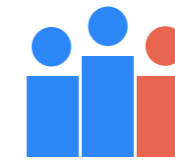
# ABOUT US

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.

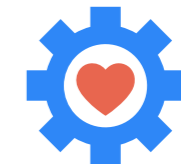


# OUR GUIDING PRINCIPLES



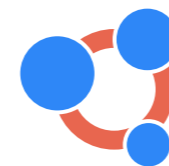
## People are everything

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.**



Our team has expertise in the full lifecycle of electrical and mechanical infrastructure projects, from design to manufacture, implementation and commissioning.



## OUR CAPABILITIES

Pensar provides a range of electrical LV and HV design and installation and maintenance, including instrumentation and control systems, intelligent transport system (ITS) installations, substations, street lighting, industrial works and above and in-ground electrical reticulation for new and existing subdivision projects.

Our team has expertise in the full lifecycle of electrical and mechanical infrastructure projects, from design to manufacture, implementation and commissioning.

Pensar has the capability to deliver both stand-alone mechanical and electrical projects and complex process installations for a range of clients. We are the preferred contractor on many sustaining capital delivery program works across key governments, water authorities and councils.

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

### Key capabilities

- Electrical Engineering
- LV and HV Distribution
- Industrial
- Control Systems
- Traffic Signals
- Street Lighting
- Electrical Infrastructure Maintenance
- Utility Engineering and Management



# PROJECTS

## North Pine HV Upgrade Seqwater

Design and Construct

Due to ageing infrastructure, Pensar was engaged to upgrade the North Pine Water Treatment Plant HV infrastructure.

Pensar handled initial design workshops through to completed construction.

Works included the design, supply, construction, and installation of the HV switchboard, control systems and cabling.

The existing cabling was replaced, along with the upgrade of the two dedicated Energex feeders from the Zone Substation and upgrades to the Energex metering room.

Due to the size and critical scope of this project, Pensar identified the benefit of conducting a HV workshop at the commencement of the design process to ensure a solutions-based outcome.



This scheme is a large-scale project, requiring a high voltage feed through an Energex 11kV feeder, as well as a HV switchboard and six distribution transformers.

# PROJECTS

## Wamuran Irrigation Scheme HV and Distribution Unitywater

Design and Construct

The Wamuran Irrigation Scheme (WIS) has been designed with the intention of delivering Class A recycled water for agricultural irrigation.

This scheme is a large-scale project, requiring a high voltage feed through an Energex 11kV feeder, as well as a HV switchboard and six distribution transformers.

Pensar designed, procured and constructed the LCC and HV, including construction of associated switchrooms.



# PROJECTS



## Traffic Signal Panel Works Brisbane City Council

Construction

Under this three-year contract, Pensar undertook more than 150 minor works projects to repair or replace damaged traffic signal assets.

Requests for tender (RFTs) had to be responded to within 48 hours and works had to be completed within ten days.

Works included the installation of pedestrian posts, joint use and mast arm poles, recovery of existing poles, lanterns and footings, excavation and installation of new footings, minor civil works and all electrical operations and testing.

# PROJECTS

## Kirkwood Treated Water Booster Pump Station Gladstone Area Water Board

Design and Construct



With the future expected growth of the Calliope region, Pensar was engaged for the construction of the new Kirkwood Booster Pump Station.

Pensar delivered the electrical, structural, hydraulic and electrical components of the new asset.

Works included the supply and installation of the main switchboard and distribution boards, connection to Ergon Energy mains power, conduiting, pits and cabling reticulation, and the supply and installation of monitoring and control instrumentation equipment.

Pensar successfully completed the new water main connection to the existing main within a six-hour window ensuring no impact to the Calliope residents supply through coordinated management of crews and contingency planning.



## Yeerongpilly Green Hutchinson Civil

Construction



Pensar was involved in the delivery of Stage 1 and 2 of this urban renewal development at Yeerongpilly.

The project team delivered the street and park lighting packages, traffic signals, HV and LV reticulation and communications infrastructure.

Works included the supply and installation of Energex, NBN, Telstra and Brisbane City Council signals, gas and Rate 3 lighting infrastructure and supply and installation of architecturally designed feature lighting.

# PROJECTS

## Runway Visual Range Brisbane Airport Corporation

Design and Construct



Working to a tight completion deadline, Pensar delivered a new runway visual range system that allowed for the safe landing and take-off of aircraft in low visibility at the Brisbane Airport.

To assist with the project program, Pensar proposed and implemented a design change which reduced the conduits required depth.

Works included the installation and commissioning of a customised runway visual range system, including equipment in airside buildings, installation of 3km of 10 conduit bank reticulation, 120 precast concrete pits, and the design and installation of 260m of conduit under live aircraft taxiways.

## Brisbane South State Secondary College Energex Works Broad Construction

Construction



The Brisbane South State Secondary College consisted of a multi-purpose hall, learning and creative hubs, administration and staff centre, canteen, health and well-being hub, learning plaza, outdoor spaces and courts, carpark, pick up/drop off zone and end-of-trip facilities.

Pensar was engaged for the delivery of the Energex large customer connection, Rate 2 lighting, the construction of a new traffic signalised intersection and upgrade of the existing signalised intersection.

# PROJECTS



## Callide Dam Main Switchboard and Generator Control Panel Sunwater

Design and Construction

Callide dam main distribution and diesel generator control boards reached the end of their life-cycle requiring replacement. Following electrical asset condition assessments that identified multiple operation failures and age-related defects with the boards, Pensar was engaged to design, supply, install and commission a new 415V main switchboard and standby generator control panel.



## Merrimac Recycled Water Treatment Plant

Design and Construct

As part of the Merrimac RWTP upgrade, the electrical, instrumentation and control works included LV upgrade to generator substation, D&C of motor load centres and process cabinets, augmentation to site fibre optic communications system and existing site wide PLC control system and SCADA.



## Brisbane Markets Energex HV Works Brisbane Markets Limited

Construction

Pensar was engaged to deliver new Energex infrastructure to the construction of a new cold storage facility. The project involved the construction of two elevated outdoor substations (due to flood levels of the area), installation of conduit infrastructure and HV cable, recovery of existing overhead lines, switching and commissioning of the substations.



## Gold Coast Light Rail CPB Contractors

Construction

This project involved extending the light rail system, including 7.3km of new track and three new stations. Surrounding roads were upgraded and new car parks constructed. To allow for the construction of the new rail line, existing infrastructure and overhead services were relocated. Pensar was engaged to install new assets for the relocation of Energex high voltage services, the construction of four TPIS Substations and the install of the rail corridor lighting system.

# 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.



## 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)

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

Austrroads DSG (Tas) BM/F5 & DTP (Vic) M2/BW

Silver Master Electrician

## Licences

QBCC Contractor Licence 1081361

QLD Government Electrical Contractor Licence 76158

NSW Government Electrical Contractor Licence 266065C



## Get in Touch

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