



Conneq i.Power Solutions Capability Statement – Cairns Operations



About Conneq

Conneq is a specialist engineering, construction and asset management contractor, connecting industries and communities with vital infrastructure. Comprising business units with operating histories of more than 60 years and employing in excess of 3,500 people, the company is a leading provider to the power, infrastructure, resources and industrial sectors.

Conneq is responsible for creating, operating and maintaining public and private infrastructure assets serving millions of people each day. Conneq is part of the Lend Lease Group.

Conneq i.Power Solutions

Conneq i.Power Solutions is a leader in the provision of turnkey electrical distribution systems for mining, industrial and utility clients. With a heritage reaching back over three decades, the company provides multi-disciplined electrical engineering, equipment manufacture and project delivery for customers across Australia and in the Asia-Pacific region.

Conneq i.Power Solutions is headquartered in Brisbane and supported by regional offices in Mackay, Sunshine Coast, Townsville, Cairns, Newcastle, Melbourne and Perth.

The company has extensive experience in metals and mining, power generation and distribution, waste and water treatment, process industries, oil and gas, manufacturing and materials handling.

Conneq i.Power Solutions is differentiated in the market by combining design engineering with manufacturing and project delivery. This delivery mode facilitates total project ownership and allows a total commitment to quality and safety.

The company has a proud track record of successfully completing challenging projects, many requiring specialist solutions and innovative engineering methods.

Conneq i.Power Solutions designs and manufactures a comprehensive range of quality, type tested, low and high voltage switchgear, either as standalone equipment, or as part of a package of equipment and services tailored to suit a customer's needs. Products can be either standard or custom engineered, purpose built to meet client's specifications.

The company also has practical experience in the selection, design, installation, calibration and maintenance of third party electrical equipment of all types, including instrumentation, drives, advanced control systems and heavy duty power equipment.

Products and services are fully compliant with the AS/NZS ISO 9001:2008 internationally recognised quality standard.





Capability Statement

Overview: Cairns Operations

Projects and Contracting Services

Conneq i.Power Solutions in Cairns is focussed on the delivery of turnkey project services to clients. Services include equipment supply, site installation, project management and design engineering for clients across Northern Australia and Papua New Guinea.

Site Installation Services

- Substation earthing and lightning protection systems
- HV, LV power systems
- HV substation and switchboard installation
- Transportable switchroom and substation installation
- Fixed generation and standby diesel generation systems
- Process and control systems
- Cable, fibre and wireless network design and installation
- Installation and commissioning of industrial plant
- Multi-discipline industrial construction
- Site maintenance
- Project management systems governed by the following certified management systems:
 - Quality – AS/NZS ISO 9001:2008
 - Environment – AS/NZS ISO 14001:2004,
 - Safety – AS/NZS 4801:2001; OHSAS 18001:2007

Equipment Supply

- LV Modular MCC and Switchboards – 1100V @ 5000Amps
- HV Modular Switchboards – 40kV @ 3200Amps
- Custom Switch Rooms and Sub Stations
- Custom Above Ground and Underground Mining Equipment
- PLC Control Switchboards and Systems
- Local Control Stations and Isolators
- Kiosk Sub Stations
- Custom Starter Panels and Controllers

Design

- Lightning protection system studies and design
- HV substation design
- LV Switchboard design
- Plant power and control system design
- Inspection and Test Plans (ITP)
- Construction methodology
- Conveyor starters
- Pump starters
- Section isolators
- Pit bottom distribution switchgear

From conceptual design through to handover and final construction documentation, Conneq i.Power Solutions delivers to the highest standards.



Safety / Hazardous Areas

The Conneq i.Power Solutions team has expertise and accreditation in plant safety systems and hazardous area auditing and design. These additional in-house skills ensure that the designs created by the company are formulated with a full appreciation of total system requirements, including safety.

Substations and Switchgear

Conneq i.Power Solutions designs and manufactures switchgear for open cut and underground coal and hard rock mines. The company offers IP56 or IP66 rated switchgear for both aboveground and underground applications. LV and HV modular switchgear is type tested to ensure safety and customer confidence in the event of an arcing incident.

Typical underground switchgear solutions include:

- Underground substations for dewatering, conveyor control and production machinery
- Open cut transportable substations
- Pump/conveyor/motor starters
- Section isolators
- Distribution switchgear
- Development substations

Designs encompass voltages of 132kV, 66kV, 22kV, 11kv, 3.3kV, 1100V, 690V and 415V.

Additional equipment options include:

- Design and manufacture of dry type nitrogen blanketed transformers in sealed tanks - ranging from 0.75MVA to 7.0MVA - for integration into substation packages.
- The capability to deliver underground variable speed drive packaged solutions, air and water cooled, generally for conveyor operation.
- Transportable substation designs incorporating solid rubber wheels with tow hitches, complete with spring lift assistance. Alternatively, clients may specify crawler driven track assemblies with hydraulic powered PTO packs or simple skid based designs.
- Substation and switchgear equipment can include automation packages encompassing hardware, software and communication protocols that seamlessly interface into mine-wide SCADA systems.

Refurbishment and Overhauls

Conneq i.Power Solutions has workshops and service teams dedicated to the provision of maintenance and overhaul works for mining equipment.

- Cairns workshop is configured to provide regional support for all mining equipment maintenance.
- Cairns workshop performs AS3800 overhauls of face electric packages, development substations, section isolators, dewatering control boxes and conveyor starters.

Cairns Workshops

- Purpose built Workshops for manufacturing of all Power and Control equipment
- 2,200m² under roof, with a secure fenced lay down area.
- 90 staff comprising engineers, technicians, trades and administration.
- 10 tonne overhead crane operated by trained ticket holders.
- Traffic safety management plan.

Conneq Corporate Policies

Conneq has corporate policies that outline the rights and responsibilities of employees and govern the company's relationship with the community, its suppliers and clients:

- POL-104 - Sustainability and Environmental Policy
- POL-105 - Health and Safety Policy
- POL-111 - Risk Management Policy
- POL-113 - Quality Policy

Safety, Quality and Innovation

Conneq i.Power Solutions utilises world class systems to deliver safety, quality and innovation.

Certified management system:

- Quality – AS/NZS ISO 9001:2008
- Environment – AS/NZS ISO 14001:2004,
- Safety – AS/NZS 4801:2001; OHSAS 18001:2007

Contact us

Paul Steene Sales Manager 89 Cook Street Portsmith, Cairns, QLD 4870 T: +61 (07) 4050 00 00 M: +61 (0) 417 315 220 E: paul.steene@conneq.com.au	Geoff Wright Production Manager 89 Cook Street Portsmith, Cairns QLD 4870 T: +61 (07) 4050 00 00 M: +61 (0) 418 774 486 E: geoff.wright@conneq.com.au
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For further information visit: www.conneq.com.au or email: enquiries@conneq.com.au

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