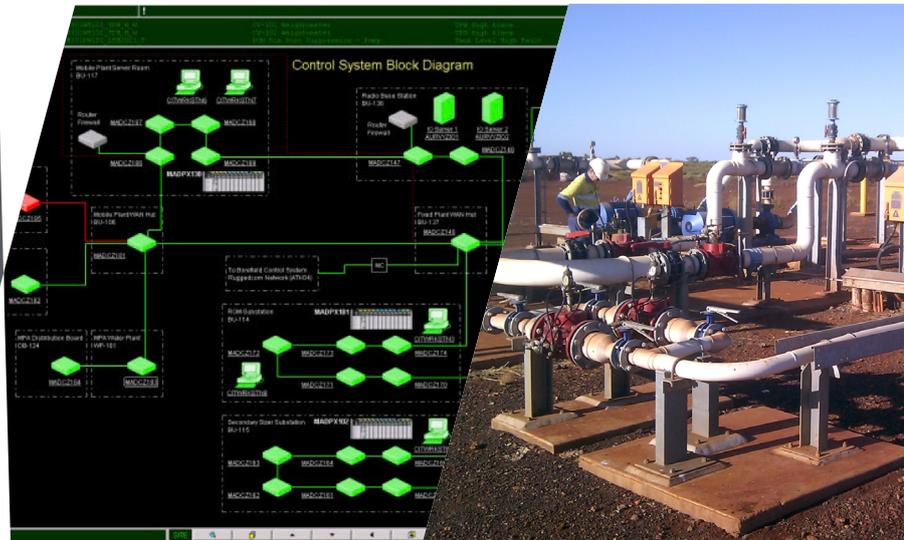


Engineering Services for the Water Industry

- > Treatment Plants
- > Desalination Plants
- > De-watering Facilities
- > Borefields
- > Pipelines and Networks
- > Pump Stations
- > Hydroelectric Powerstations



Cardno BEC is an established engineering consultancy providing professional services to the mining, materials handling, utilities, oil and gas, industrial and petrochemical industries.

As an integrated part of Cardno, Cardno BEC is a leading engineering company in the provision of design, integration and commissioning services for a wide range of clients in the water industry specialising in electrical, control systems and ICT.

We have proven capabilities across all aspects of project management, power generation, power systems, control systems, automation, plant integrity and operations support.

Steady growth has seen us develop into a respected partner of many of the world's premier companies.

'Applied expertise' is the difference – our clients are served by a team of dedicated people with the most appropriate and relevant experience.

Cardno BEC undertakes and completes projects from feasibility through to implementation with a commitment to ongoing technical support.

Feasibilities

- > Cost and option studies
- > HAZOPs and risk assessments

Electrical Design

- > Treatment plants and powerstations
- > Power transmission systems
- > OEM equipment - RO, filtration, dosing plants and pump skids
- > Instrumentation
- > Lighting
- > Earthing and lightning protection
- > Emergency shutdown systems
- > Energy efficiency and co-generation

Control Systems Integration

- > Control room design
- > Network SCADA integration
- > PLC/RTU and data acquisition systems

- > Cyber security design and audits
- > Maintenance and outage management systems
- > Historians and production databases
- > Leak detection systems

Communications Networks

- > Fibre networks
- > Back/haul radio
- > Radio telemetry
- > Voice and data radio
- > Security and CCTV networks

Site Support

- > Commissioning services
- > Site base maintenance and small project support resources
- > Remote access support
- > Operator training and maintenance tools and services



We take a systems approach to the development and management of client facilities to maximise client benefits.

Cardno BEC's strong reputation as an energy and process control systems specialist results from our expertise and track record in completing a large range of projects over a number of years with the systems and procedures in place necessary to get the job done right.

Integration and Support

Cardno BEC has the capabilities and experience to provide a complete turnkey solution.

Our team includes dedicated individuals specialising in the fields of:

- > project management;
- > electrical design and integration;
- > PLC and HMI programming;
- > mechanical design;
- > documentation and design drafting; and
- > site installation, commissioning and training.

Technology Solutions

At Cardno BEC we believe no problem is too difficult. Our team of experienced engineers can design, develop and install custom applications or integrated solutions to meet your exact requirements.

If you have a problem, we have the technical know how to help solve it. Contact BEC and arrange a confidential discussion today.

Cardno is an ASX200 professional infrastructure and environmental services company, with expertise in the development and improvement of physical and social infrastructure for communities around the world. Cardno's team includes leading professionals who plan, design, manage and deliver sustainable projects and community programs. Cardno is an international company, listed on the Australian Securities Exchange [ASX: CDD].