

Control Systems and Automation

We are an engineering partner that exceeds client expectations with innovation and integrity by employing the highest standards of service and communication.



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

Since 1996, we have completed projects for major clients throughout Australia, North and South America, Africa, Asia, Europe and the Pacific.

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.

Control Systems

Cardno BEC's strong reputation as a process controls systems specialist results from our expertise and track record in a variety of processes across a wide range of plants.

This experience allows us to quickly comprehend your process and its variables and apply our knowledge to optimise the response of your plant to changing conditions.

Onshore or offshore – whether it's a new project or you need to optimise your existing production processes, Cardno BEC can help. We will deliver the improvement you require with simple and effective solutions.

- > PLC, DCS and SCADA technology
- > Advanced process control systems
- > Multivariable control for grinding mills
- > Plant control system audits
- > Process optimisation
- > Telemetry
- > Communications
- > Training

Automation

Our experience encompasses all aspects of automation for existing and new plants. For mobile or fixed equipment using any proprietary system we use the latest technology to deliver customised automated systems where cost benefits are highly visible.

- > Instrumentation
- > Operator interface terminals
- > Retrofitting of PLC and SCADA systems
- > Automation feasibility studies
- > Field installation audits
- > Process control system optimisation
- > Remote site support



We seamlessly integrate our services into total project delivery - it's our competitive advantage.

Service Range

Large Projects and Process Plants	Process Systems and Generation	Controls and Automation	Process Optimisation and Modelling	Networks and Communications
Major Control Systems Development Projects on PLC/SCADA/DCS Platforms (Mining, Materials Handling, Oil & Gas new facilities and large brownfields upgrades)	Support Control Systems Projects for Electrical Power Group PLC/SCADA/DCS Control Room Design	Detection Systems Profiling Systems Route Sequencing Anti-Collision Robotics Stockpile Control Machine Optimisation	Process Control: Process Simulation Expert Systems Process Modelling Loop Tuning Setpoint and Multivariable Controllers	Network Design Telemetry Microwave Systems Voice and Data Radio Fieldbus Systems Comms Protocols VOIP, CCTV, etc, RFID, GPS, GSM

OEM Controls	Production Systems	Oil and Gas	Site Support
Grinding Mills Crushers Car Dumpers Reclaimers Shiploaders Stackers Harvesters Filters Reactors Thickeners Concentrators	Database Programs Historians Web Access Production Reports Training Simulators MES Custom Solutions	Hazardous Area Systems ESD Systems SIS Systems	Site-based Support Remote Access Phone Callout Systems

Industry Groups

Our experience encompasses a complete range of industry sectors, including:

- > oil and gas;
- > mining;
- > utilities;
- > materials handling;
- > industrial; and
- > petrochemicals.

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].