



QCC
RESOURCES

EPC/M-Engineering & Procurement

QCC Resources EPC/M capability is delivered via an industry standard operational mode that links project practitioners to functional specialists ensuring access to industry leading technology and support services across the project lifecycle.

Engineering

Engineering capabilities include:

- » Schedule development using integrated work flows and deliverable progression gates to create realistic schedules and evidence-based reporting of progress;
- » Engineering design across all the standard disciplines of process, chemical, mechanical, civil, structural, architecture and electrical and instrumentation & control engineering;
- » Quantity tracking providing confidence that the capital cost remains aligned with budget expectations;
- » Design value enhancement through application of Value Improvement Practices and Hazard Prevention tools;
- » 3D modelling using industry standard Bentley and AutoCAD suite of design tools;
- » Project start-up using technical and engineering management systems specialists so the project quickly becomes fully operational;
- » Visual display of project status and open interaction areas to ensure teams feel more 'at home' with specific projects.

Procurement

Contracts for the supply of equipment and services are professionally managed by accessing the market for potential tenders through to expediting supply and site material management.

Potential sub-contractors are pre-qualified against a comprehensive set of criteria, specifically focussing on Zero-Harm and Quality compliance.

The procurement service is integrated into Engineering and Construction and backed up by the financial resources of Downer. QCC also has a series of strategic agreements in place providing the client with preferential cost and optimised delivery times.

Date	Project	Approx. Value
2012	Xstrata Coal – Ravensworth North CHPP Upgrade	\$500 M
2011	AAMC – Drayton CTU Upgrade	\$40M
2011	Xstrata Coal – Mangoola new CHPP	\$400 M
2007	Xstrata Coal – Liddell new washery	\$130 M
2006	Xstrata Coal – Mt Owen new CPP module and CHP upgrade	for both
2005	Resource Pacific - Newpac new CHPP	\$70 M
2005	AMCI – Isaac Plains CHPP	\$70 M
2005	AMCI – Carborough Downs CHPP	for both
2004	Foxleigh Coal Project - new washery & coal handling facilities	\$55 M
2004	Xstrata Coal – Mt Owen ROM Bin Project	\$14 M
2004	Xstrata Coal - Bulga Coal Plant Upgrade Project	\$11 M
2002	Jellinbah Resources – Jellinbah CHPP BOOT Project	\$25 M



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EPC/M-Construction

Construction Management

Construction management offering: planning, resource management and earned value, constructability, field engineering, change management, quality control and cost control.

Construction

Construction capabilities can be provided in conjunction with Downer.

Downer's electrical, instrumentation and control services (including HV and transmission line design with construction capabilities and resources) are complemented by multi-disciplined construction services encompassing the following work types:

- » Civil;
- » Structural;
- » Mechanical;
- » Piping;
- » Instrumentation; and
- » Heavy lift logistics (haulage and rigging studies).

A key benefit to clients is the seamless execution of civil, mechanical and electrical works packages.

All partners in the Downer Infrastructure Division are aligned as a fully integrated service provider, offering clients a 'one-stop-shop' and the following benefits:

- » Industry leading approach to Zero Harm due to cross industry exposure and feedback;
- » Reduction in IR issues and exposure due to fewer contractors and Industrial agreements;
- » Smaller project delivery team size due to less duplication of roles;
- » Ability to mobilise project delivery staff from within the business, having full understanding of Downer's systems and processes;
- » The team is skilled across multiple contract types;
- » Streamlined standardised procedures and systems;
- » Integration of constructability and buildability into the design;
- » Access to a large, experienced blue collar workforce.

