

RESOURCES AND ENERGY
EXPERTISE

Empower 

ENGINEERS &
PROJECT MANAGERS





EMPOWER ENGINEERS & PROJECT MANAGERS VALUE EQUATION

Empower Engineers & Project Managers (Empower) employs the following equation to deliver projects, encouraging collaboration and innovation, ensuring we achieve best for project outcomes for our clients.

**COLLABORATIVE PLANNING
AND IMPLEMENTATION**

*begins
with*



**INTELLIGENT AND
RESPONSIVE DESIGN**

*which
delivers*



**INFORMED AND COST
EFFECTIVE CONSTRUCTION**

*resulting
in*



**PROVEN VALUE FOR MONEY
AND MORE PROFITABLE
PROJECTS**

and



**A MORE RESILIENT AND
SUSTAINABLE INFRASTRUCTURE
NETWORK.**

Empowered to do more

WHY CHOOSE EMPOWER?

Empower has the resources and experience to deliver projects with design fees valued from \$25,000 to \$1 million and construction value ranging from \$500,000 to \$1.5 billion.

Empower offers clients the unique opportunity to access specialist project teams with the ability to capture value management and innovation in their projects and business.

Our people provide certainty and deliver innovative, cost effective designs in a timely manner. They work with our clients as partners, always seeking to understand their needs and wants.

Our strong focus and belief is that our experience and evolving knowledge will always provide more, do more and give more confidence to our clients and partners.





WHAT WE DO IN THE RESOURCES AND ENERGY SECTOR

Empower provides engineering design services to a range of clients on secured sites with a keen interest in safety, constructability and value engineering underpinned by a structured risk and opportunity framework.

Having worked on projects with significant environmental and servicing issues, Empower have a proven track record of delivering positive project outcomes for clients.

Empower's expert capability in the resources and energy industry includes:

- **Roads** – on and off lease roads and tracks analysis, working with operators to improve options and detailed design modelling.
- **Stormwater** – 1D and 2D flood and stormwater planning, feasibility options for attenuation and quality requirements, and detailed design modelling.
- **Earthworks** – modelling of bulk earthworks operations with considerations of variable strength strata, cut and fill locations.
- **Water and sewer** – start to finish reticulation and treatment of pump stations and rising mains.
- **Mechanical and electrical** – a fully integrated service offering in connection with alliance partners.
- **Value engineering** – visualisation technology used to link designers with contractors so that risks and opportunities are clearly understood and capitalised on.

When a client wants more than just our design services, we can offer a design and construct package. Designing and constructing mine and civil infrastructure is part of our vertically integrated model to provide clients with a total package solution. The unique design and construct offering that Empower can offer means that we are able to better meet challenges, mitigate delays and to stay on top of evolving information.

Empowered to do more



ENGINEERS &
PROJECT MANAGERS

OUR BUSINESS

Empower delivers superior engineering design services and more cost effective project outcomes in the following key areas:

- *residential land development*
- *industrial land development*
- *highways, roads and tracks*
- *water and sewer infrastructure*
- *resources and energy*
- *regional and remote infrastructure*
- *secure site infrastructure.*

Established in 1987, we deliver engineering advice, program and project management and detailed design services. We tailor the scope of our services to meet the client's requirements. Our expert and customised services mean you get 'more intelligent design'. From the start of the design we work towards your project objectives and our smarts make your job work better in the end to provide you with the project outcomes you need.

Empower is a wholly-owned subsidiary of the BMD Group, a national group of companies engaged in engineering design, construction and land development for clients and partners in the urban development, transport infrastructure and resources and energy sectors. As the planning and design arm of BMD's vertically integrated group of companies we are able to offer clients a design only service or the total design and construct package.

Long-term client relationships have been the foundation of BMD's success since the company's inception in 1979 and we pride ourselves on our ability to secure repeat business. Our Group is synonymous with innovation and award winning infrastructure and we are committed to delivering the highest standards of quality, service and value for money for our clients. Our strategy is simple: value our people, collaborate with our partners and continue to deliver exceptional projects with sustainable outcomes.

*Empower was rebranded from BMD Consulting Pty Ltd (ABN 23 010 743 692) on 22 December 2015.



Empowered to do more

Empower is unique in the engineering services market. We are a wholly-owned subsidiary of the BMD Group, one of Australia's largest privately-owned construction, consulting and urban development organisations.



SPECIALIST EXPERTISE
*IN THE RESOURCES
AND ENERGY SECTOR*

LOCAL INVESTMENT
IN PEOPLE, BUSINESSES
AND THE COMMUNITY

EMPOWER PROVIDES
DESIGN ENGINEERING
SERVICES PLUS THE
OPTION TO DELIVER
A TURNKEY PROJECT

UNIQUE
PROJECT
TEAMS



NATIONAL
COMPANY
29 YEARS IN
BUSINESS

WE DELIVER ON

A PATH TO ZERO HARM

SPECIALIST INTEGRATED PROJECT TEAMS

QUICK AND EFFECTIVE DECISION MAKING





Moranbah Airport Carpark, QLD



Tarong Power Station, QLD



Kogan Creek Power Station, QLD

Mine Related Infrastructure

Empower provides design services on secured sites with a keen interest in safety for mine site and mine related infrastructure.

Moranbah Airport Carpark Expansion (BMA)

The expansion works involved the design, construction, support and certification of 600+ additional car park spaces.

Daunia Mine 15.5km Watermain Augmentation (BMA)

Empower and Highlands Drafting and Engineering (HDE) provided engineering detailing advice that exceeded construction inspections and certification.

Broadmeadow Mine Roads Upgrade and Safety Ramp (BMA)

The project scope involved the design of a heavy vehicle safety ramp for the main entry into the pit, as well as feasibility analysis for the upgrade of mine roads and tracks, along with the development of associated stormwater across the site.

Kestrel Mine (Rio Tinto)

Empower completed the structural design for minor works associated with the magnetite pit.

Design and Construct

Empower delivers design solutions with an optional construction service for a range of clients and industries.

Caval Ridge Early Works Package

Client - BMA/Bechtel

Contractor - BMD Constructions

Empower delivered civil and infrastructure design of all services for the early works package including water, sewer, electrical and telecommunications for contractors across the lease. The unique integrated design and construction method resulted in continual progression, effectively overcoming challenges and mitigating delays.

Chambers Flat Road Arterial Road Duplication

Cusack Lane Sub-Arterial Road Widening

Sporting Field Carparks

Darcy Edmund Bridge Replacement

Client - Logan City Council

Contractor - BMD Urban

Empower was awarded four packages of work separately following the successful completion of earlier packages. The team delivered design and construct solutions for two and a half kilometres of arterial road including two signalised intersections, three kilometres of sub-arterial road widening, two separate carparks with a total of 150 spaces and the replacement of a bridge over rail corridor.

Tarong Power Station

Client - Stanwell Corporation

Contractor - BMD Industrial

Empower was engaged on one of Queensland's largest power stations to provide the design and construct solutions for the ash disposal system and access tracks.

Power

Empower understands the safety and environmental requirements of working within power facilities and have a broad range of experience for a variety of clients.

Biloela Depot Upgrade (Ergon Energy)

Empower was engaged for the detailed design, construction support and certifications for Biloela Depot Yard upgrade.

Kogan Creek Power Station (BMD Industrial)

Empower delivered a well designed solution that met the client's operational and environmental requirements. Works included a design review, certification of the ash slurry pipeline and a detailed design of the solar thermal booster plant.

Depot Yard Upgrades (Ergon Energy)

Cunnamulla Depot Upgrade

Dalby Depot Upgrade

Biloela Depot Upgrade

Monto Depot Upgrade

Mundubbera Depot Upgrade

Kingaroy Depot Upgrade

Mount Isa Depot Upgrade

Empower provided the design, construction support and certifications for these seven Depot Yard upgrades. The seven sites were challenging with variable ground conditions and operation requirements. Early engagement with operational crews lead to success on each project and consequential repeat business for Empower.



Water and Sewer

Empower operates in the water cycle space with a track record for innovative and cost-effective solutions.

Port Douglas Reservoir (Cairns Regional Council)

The scope included the detailed design and approval of reservoir works, construction of a 20 megalitre water storage reservoir, post tensioned concrete reservoir with steel roof, associated earthworks management, lead in roads, feed and distribution mains and network cut-ins.

North Cairns Deep Sewer Augmentation (Cairns Regional Council)

Empower provided detailed design and documentation for two kilometres of deep sewer augmentation through a congested brownfield site including network modelling and options considerations.

Badu Island (Torres Strait Island Regional Council)

The scope of works included design, construction superintendence and project management of two kilometres of gravity sewer, and half a kilometre of sewer pressure mains including packaged pump stations.

Woolloongabba Sewer Upgrade (QUU)

Empower provided the client with a design that provided additional capacity in the sewerage system to allow upstream development of the Woolloongabba catchment.

Brisbane International Airport Ring Main Resilience Augmentation (Brisbane Airport Corporation)

Empower designed 2.6 kilometres of DN200uPVC main with careful consideration of nearby high value telecommunications and electrical installations.



Roads and Earthworks

Empower have been engaged in the designing of roads and earthworks for over 29 years.

Broadmeadow Mine Roads Upgrade and Safety Ramp (BMA)

Empower designed a heavy vehicle safety ramp for the main entry into the pit, along with feasibility analysis for the upgrade of all roads and tracks in and around the pit.

Hay Point Expansion (Bechtel)

Leveraging from BMD's experience in the resource sector, Empower delivered the haul road review and preliminary design of stormwater quality devices.

Djarindjin Aboriginal Community (19th Chief Engineer Australian Army)

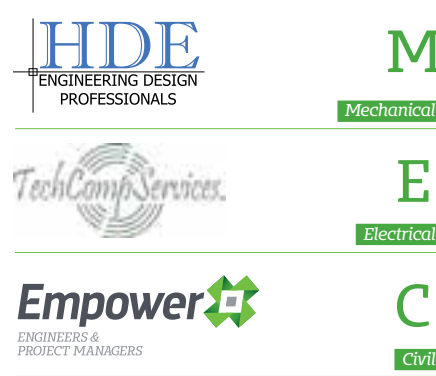
As part of the Army Aboriginal Community Assistance Program (AACAP), Empower designed roads, stormwater diversions, land development and associated services in this challenging pindan sand territory.

Brisbane Airport Corporation

Empower designed airside and landside facilities including airport staff carpark and internal road augmentation. Provided road and stormwater engineering advice for the runway duplication project.

Yatala Industrial Side Development (Fraser)

The project scope involved the development of multiple earthworks scenarios in varying ground conditions containing very hard rock, to deliver land suited to the client's project requirements. The team developed a close relationship with a trusted geotechnical engineer which was crucial to the success of this project. Ultimately, in excess of 500,000m³ of rock and dirt was blasted across the site.



MEC Alliance

This strategic Alliance provides clients with a distinct, fully integrated service offering for all mechanical, electrical and civil design requirements. The service is delivered across the resource and energy sector in areas such as the Bowen Basin and Galilee Basin coal fields and the metalliferous resource operations of Far North and Western Queensland.

Underpinned by a strong project delivery ethos, the MEC Alliance brings together organisations who are experts in their fields to provide value engineering that is focused on offering clients a cost competitive price point, and immediate local response.

By combining three specialist capability areas, we are able to offer:

innovative and cost effective solutions that have been subjected to rigorous constructability reviews

personalised service drawing on technical expertise and attention to detail delivering projects on time and within budget

cutting edge technology and systems with third party accreditations

a collaborative approach to service clients from one Alliance

certainty through reliable and honest, up front advice.

Empowered to do more



ENGINEERS &
PROJECT MANAGERS

OUR CONTACTS

Matthew Beggs

National General Manager

Mobile 0409 578 911
matthew.beggs@eepm.com.au

Peter Ingerman

Senior Project Manager

Mobile 0400 709 883
peter.ingerman@eepm.com.au

Chris Hobson

Project Engineer

Mobile 0408 873 856
chris.hobson@eepm.com.au

Wes Smith

Project Engineer

Mobile 0418 758 702
wes.smith@eepm.com.au

Empowered to do more

www.eepm.com.au

As a wholly owned subsidiary of the BMD Group, Empower's success is aligned with the strength, resources and flexibility of a large Australian owned private company. We are able to offer clients a variety of options regarding risk and opportunity management, contracting styles, time and cost controls.

Empower embodies 'The BMD Way' which is evident in our people, values and culture. We see our strengths in the quality of our people and our genuine relationships with clients, partners and communities. We see our success linked to our ability to deliver certainty through consistent performance. We see our future shaped by all that has made us successful in the past.

