

ENGINEERING CAPABILITY PRESENTATION

2026



SUMMARY

- Construction Engineering
- Energy Management
- Automation
- Compliance Auditing
- Project Support Services



EPCM Solutions VALUES are the key drivers to successful delivery of our projects:

SAFETY

We are proud of our safety record on our projects and we strive for ZERO harm in all our operations through training, risk management, hazard observation and reporting.

PARTNERSHIP

We drive a culture of commitment to open and honest relationships with our customers in a project partnership. We strive to understand your needs, delivering project solutions as a team, on time, on budget and safely.

INTEGRITY AND RESPECT

We will continue to act with integrity, and respect all stakeholders in our business; including our employees, customers and the community.

SYSTEMATIC DESIGN

We ensure up-to-date knowledge of design and management standards and their application for our detailed design work in civil, structural, mechanical, piping and electrical designs and drawings.

A COMMITMENT TO INNOVATION

We employ the highest standards of service; putting new ideas to work, creating innovative solutions and services, to benefit our customers. We use lessons-learned for feedback in continuous improvement following each project.

RECOGNITION AND SATISFACTION

We recognise the hard work of our employees and project partners and focus on customer satisfaction as a key performance measure linking our business success to the success of our customers.

OPEN COMMUNICATION

We strive to communicate openly in project teams, with customers and in our day-to-day activities so that issues are resolved quickly to the benefit of our projects.

EXAMPLE PROJECTS

- Zenobe Leichardt Bus Electric Vehicle Charging Depot
- Polymetal Gediktepe Sulfides Process Plant
- Sydney Metro West – Rosehill / Parramatta HV reticulation
- Taswater Selfs-Point Substation design, lighting protection and arflash
- Northern Minerals Fibre Optic and Radio Communications design
- BHP Kalgan’s Camp NPI extension
- Goldfields Invincible South 30MVA, 66kV substation
- Globalstar – Meekatharra / Mt Isa Satellite station infrastructure
- Atlas Minerals Nickel Refinery definitive feasibility
- Merdeka Pani Gold Heap Leach processing facility
- Iluka Eneabba Central Facilities electrical and communications upgrade
- Cowal Gold Operations underground mine design
- Tomago Aluminium water treatment plant
- Kidston Hydro shaft ventilation fan project
- Fortescue Flying Fish Camp expansion
- Bluvein Rail EV system design
- Sydney Metro West Tunnelling HV infrastructure
- DoD – Garden Island Powerstation and HV infrastructure



ELECTRICAL AND COMMUNICATIONS INFRASTRUCTURE

- HV/LV Power Systems design and drafting
- Power System modelling
- Fibre Optic and Radio Communications design and drafting
- Electrical earth grid and earth bonding design
- Cable lowering and raising installation design
- Skid equipment, bracket, supports and transport frame design
- Power factor correction, harmonics filter, statcom design
- Lighting studies
- Arcflash studies
- Lightning protection assessments and design
- Feasibility studies
- Soil resistivity testing and modelling
- Site testing and commissioning



POWER GENERATION, TRANSMISSION, AND DISTRIBUTION

- Power Generation technical studies and due diligence.
- Power Station concept and detail design
- Power Station Facility Design
- Transmission and Distribution System Design
- HV/EHV Substation Design
- Switchyards and Earthing Designs
- Power Systems Network Modelling
- Electrical Protection and Interlocking Schemes
- Electricity Grid Connection Designs and Management
- Solar System and Battery Energy Storage Design
- Integration of Renewable and Microgrid Systems
- Power Station Management Control Systems
- Vendor Equipment Inspections and Testing
- Specifications and Standards Development



MINING

- Motor Control Centre and Switchroom Designs
- Cable Routing Designs
- Machinery Upgrades, Condition Monitoring and Automation
- Process Instrumentation Systems
- Mobile Machines, Mine and Rail Vehicles
- Facility Earthing Designs
- High Voltage Submissions
- Ports and Marine Infrastructure
- Containerised Plant and Equipment Skids
- Hazardous Areas Classifications and Designs
- Conveyor and Bulk Material Systems
- Ore Sorting Plants
- Essential Power System Design
- Workshops, Accommodation Camps and Non-Process Infrastructure
- Lighting and Small Power



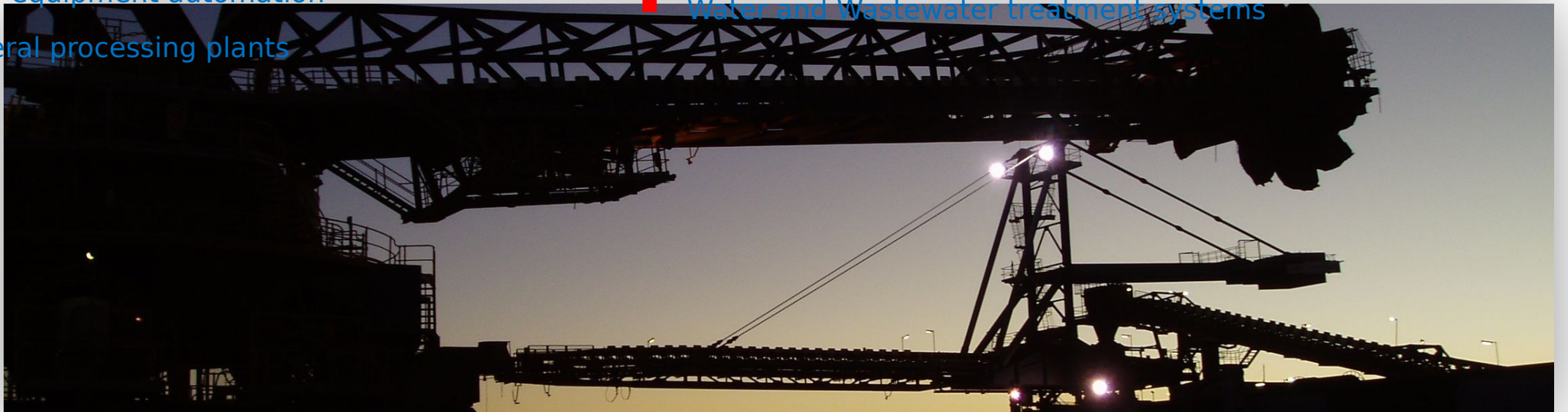
SITE SUPPORT SERVICES

- Project Works Scoping and Definition
- Compliance Inspections
- Audits – energy efficiency, electrical safety, asset management
- Condition and risk assessments
- CAD drafting / As-building
- Contractor Site Supervision / Management
- Quantity Surveying
- Testing and Commissioning Documentation
- Commissioning Planning and Scheduling
- Configuration – Protection relays, VSDs, PLC/SCADA
- Power System Tests – switchgear, earthing and relays
- Operator / Maintenance Training
- Breakdown Call-outs and Shutdown support
- Equipment Servicing



PROCESS CONTROL AND AUTOMATION

- Power Station management and generation controls
- Water/Gas/Power utility network SCADA (IEC61850)
- Central control operations centre designs
- OEM equipment automation
- Mineral processing plants
- Emergency Shutdown and Functional Safety systems
- Borefield telemetry systems
- Bulk material stockyards
- Shiploading facilities
- Water and Wastewater treatment systems



MAJOR CLIENTS

- JTMEC / Epiroc
- Newpro Engineering
- Goldfields Australia
- Iluka
- Monadelphous
- Neuplan
- Westgold
- Genesis Minerals
- Northern Minerals
- Quattro Project Engineering
- Macmahon
- Proxa Water Treatment
- FLSmidth
- UGL
- Coogee Chemicals

