

Dynelec Capability

May 2024



A Jones & Rickard Group Company



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- **Dynelec**
 - Dynamic Electrical Constructions Pty Ltd trading as “Dynelec (Australia)”
 - ABN 12 001 472 377
 - Based in Wollongong, NSW, Australia
 - Established 1949
 - Part-owned subsidiary of Jones & Rickard since 1979
 - Fully-owned subsidiary of Jones & Rickard since 2016

- **Jones & Rickard**
 - Australian business founded in 1927, Sydney, NSW
 - Rotating Equipment, Motors & Electromagnets
 - Other subsidiary – J&R Magnetics Pty Ltd
 - Industrial Electromagnets & Rotating Equipment



- **Board & Executive**
 - Tim Rickard – Chairman
 - Phil Peckman – Executive Director
 - Rikki Papesch – Chief Executive Officer
 - Kris Musarevski – Chief Operating Officer
 - Ian Neilson – Company Secretary & Group Finance Manager
 - Virginia Billingham – Non-Executive Director





Since 1949

Dynelec is the fully integrated Electrical Engineering & Rotating Equipment specialist Delivering Reliability to the Mining, Industrial & Utility segments throughout NSW.



Since 1926

J&R Magnetics is the recognised leader for Magnetic Lifting and Separation solutions & services throughout Australia & New Zealand.

About Dynelec

Electrical & Rotation specialist with four layers:

1. **Engineering**, Consulting & Auditing
2. **Manufacturing, Overhauling & Testing**
3. **Site** Installation & Maintenance
4. **Sales** Motors

- **Delivering Solutions around:**

- Rotating Equipment
- Panels, Switchboards & Motor Control Centres
- Substations

- **To Segments:**

- Mining
- Industry
- Utilities



Teams

Engineering Team

- Electrical designers & Project Engineers
- Project Managers
- Motor designer, Automation, Electrical

Panels Team

- Licenced Electricians
- Leading Hands & Supervisor
- Manufacturing, Overhaul & Testing facility

Rotating Equipment Team

- Electrical & Mechanical Mechanics & Winders
- Leading Hands & Supervisor
- Overhaul & Testing facility
- Site servicing capability

Site Services Team

- Licenced Industrial Electricians
- Leading Hands & Supervisors
- Full range of site inductions across Mining, Industrial & Utilities
- Vehicle & Trailer Fleet, NSW coverage



Our Customers include....

Government



Australian Government
Department of Defence



O&G



Infrastructure



Steel

Mining

GLENCORE



Marine



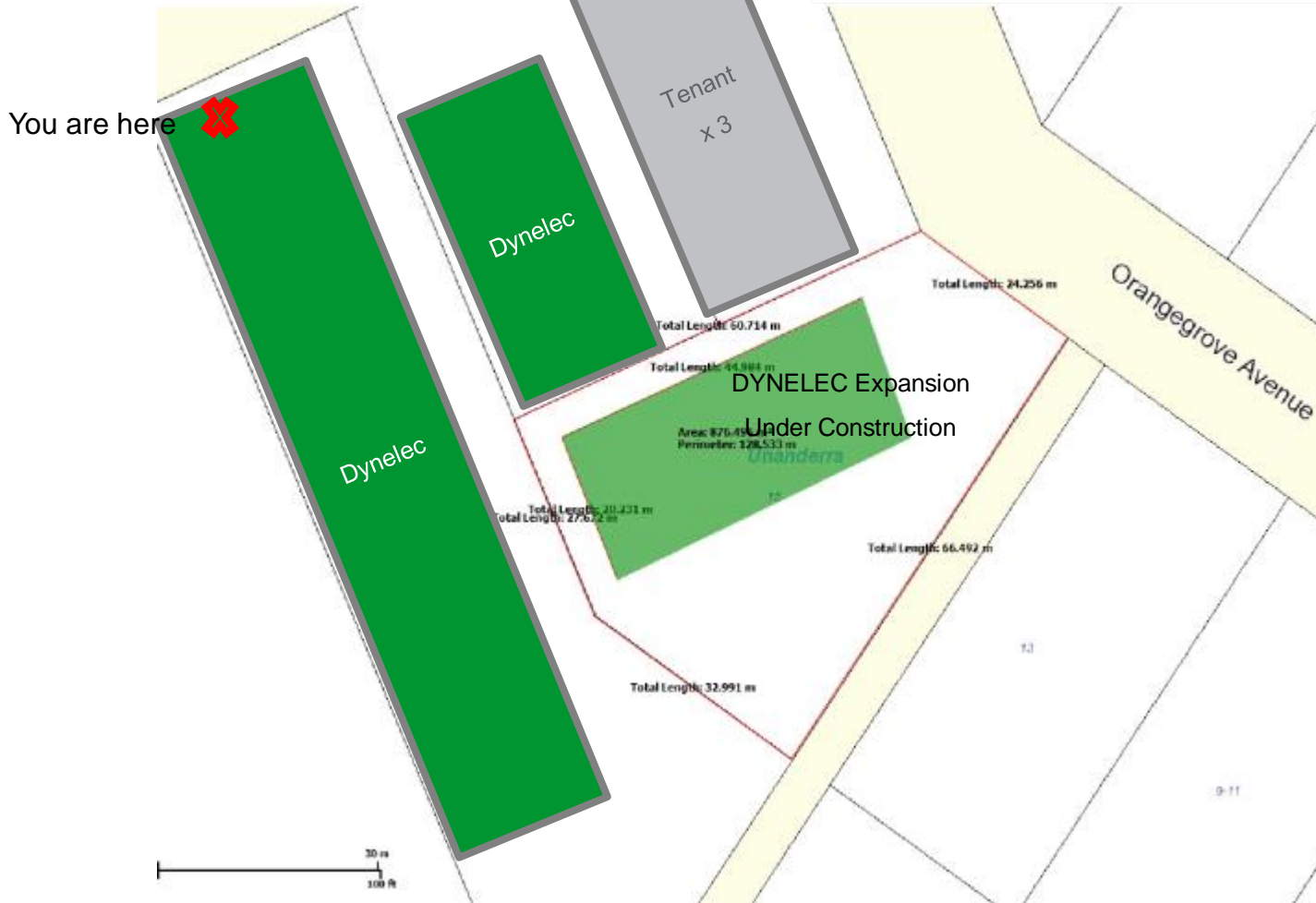
Utilities & Power

Sydney & Unanderra factories



Unanderra Facility

- Unanderra internal = 3,700m² + hardstand
- [Smithfield internal = 1,500m² + hardstand]



Standards, Systems & Processes

- ISO 9001:2015
- AS/NZ3800 (Explosion protected equipment)
- ISO45001:2018 OHS Management Systems
- NSW Government WHS Systems 5th Edition
- UAP (Unsafe Acts Prevention) – Behavioural Safety Program

- Accounting System – Micronet
- Lotus Notes
 - Job Management (linked to Micronet)
 - DMS
 - CRM
 - Staff Records
 - Asset Register
 - Incident & Corrective Actions Register
- Dedicated Stores



Alliances & Partnerships

- Authorised distributor & repairer of ATB Morley & ATB Laurence Scott machines



Alliances & Partnerships



- Australian Medium Voltage Adaptation Centre for C07



Alliances & Partnerships

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xEnergy

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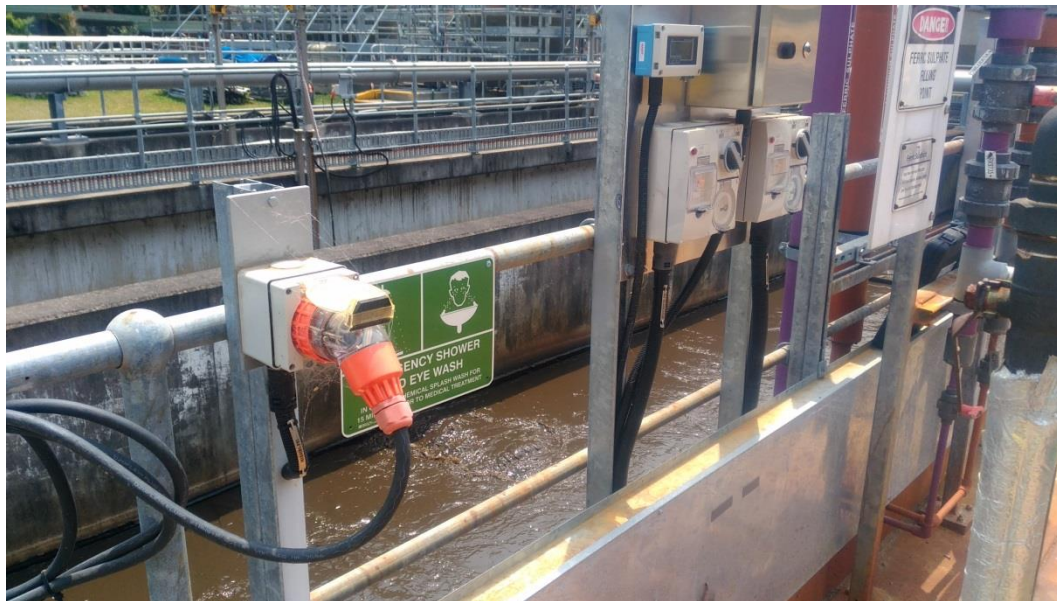
- Licenced Eaton xEnergy Low Voltage Motor Control Centre manufacturer



Alliances & Partnerships



- Tender Panel Member – Sydney Water, Electrical Services



Alliances & Partnerships



Equipment

Vibration Analysis

Laser Alignment

Hardness Testing

Dye Penetrate Testing

Tachometers

Thermocouples & Contact Thermometers

Micrometers up to 600mm

Hydrostatic Pressure Test Equipment

Random Wound Coil Winding Equipment

Hydraulic Die Punch Equipment

EPA approved wash bay and parts washer

High Pressure Water Jet Cleaner

Spray Painting Booth

Full Stocked & Controlled Stores Area

Water Jacket De-scaling & Pressure Testing Equipment

Controlled Pyrolysis Furnace (Burn-Out Oven) up to 400C

Baker Surge Comparison Tester (12kV) with Armature Bar to Bar Capability

28kV AC High Potential Withstand Testing

Insulation Resistance and Polarisation Index up to 12kV

Chauvin Arnoux CA10 Micro Ohm Meter

Full Load Dynamometer Testing Facilities up to 350kW



Equipment

HYDRAULIC PRESSES	LIFTING CAPACITY
100T HORIZONTAL PRESS - 2700 LONG X 1060 WIDE	OVERHEAD CRANE NO 1 10T
VERTICAL PRESS - 1000 LONG X 800 WIDE	OVERHEAD CRANE NO 2 10T
	CRANES MAY BE COUPLED TO GIVE COMBINED LIFTING WEIGHT OF 20T
WELDING PROCESSES	VARNISH
MIG WELDING FACILITIES	VARNISH TANK 1800 LITRE CAPACITY
TIG WELDING FACILITIES	VPI 48" TANK 2 METRE SHAFT DEPTH
MANUAL ARC ELECTRODE WELDING	
BAKING OVENS	BALANCING MACHINES
NO 1 OVEN - 2100 HIGH X 2100 WIDE X 3600 DEEP	SCHENCK CAB590C
NO 2 OVEN - 1800 HIGH X 1800 WIDE X 2700 DEEP	MACHINE #1: 1.8 TONNE CAPACITY 4000 LONG X 1210 OD MACHINE #2: 5.5 TONNE CAPACITY
LATHES, DRILLS & MISCELLANEOUS	TESTING CAPACITY
VARIOUS LATHES 2700 LONG X 700 DIAMETER	TEST VOLTAGES 110V, 240V, 415V, 1.1KV, 3.3KV
RADIAL DRILL 1200 HIGH X 900 RADIUS	6.6KV, 11KV AC AND 0 - 500 V DC
COMPREHENSIVE RANGE OF POWER TOOLS	

Experience



Experience

Client: Various

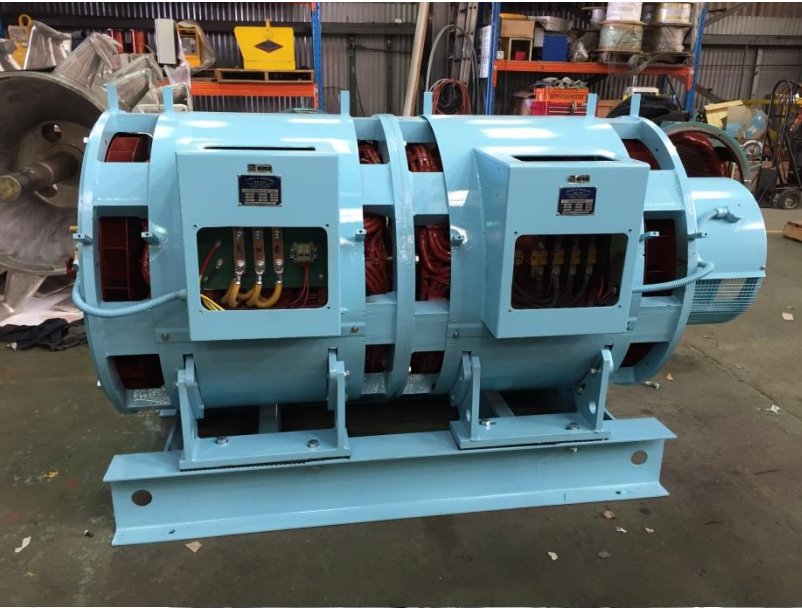
Project: Motor Overhaul



Experience

Client: Various

Project: Machine Overhaul



Experience

Client: Various

Project: Motor & Rotating Equipment Overhaul



5. Experience

Client: Various

Project: Motor Load Testing

350kW Continuous



5. Experience

Test Bay capability

- 500 VDC
- 415 VAC
- 1,000 VAC
- 3,300 VAC
- 6,600 VAC
- 11,000 VAC
- Motor Testing to app. 2.5MW
- Motor Load Testing 350kW continuous



5. Experience

VSD & Motor solution - 2019

- Windfarm Generator Gearbox Testing application
- Designed, Manufactured, Installed in 10 days



Experience

Frequency Converters – 1980 - Present

- Department of Defence (Navy)
- 60Hz & 400Hz Machines
- New Control Panel manufacture
- Motor, Alternator & Exciter overhaul & rewind
- Site servicing

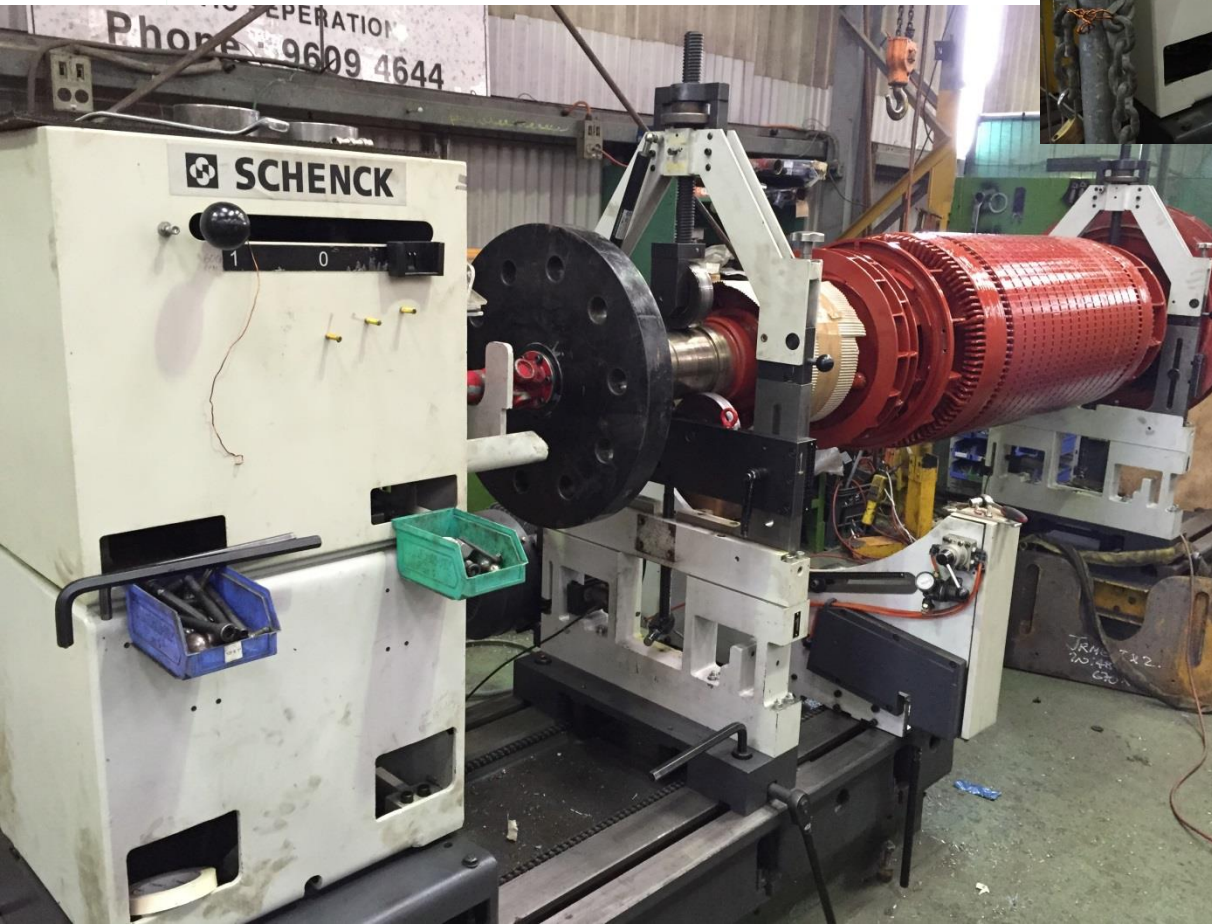


Experience

Client: Various

Project: Dynamic Balancing

5.5T and 1.7T Schenck machines



Experience



10 x Projects: Sydney Trains – 2015 to 2019

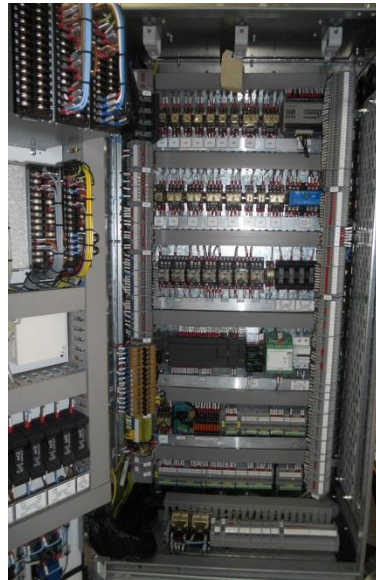
- 46 x 33kV WSA LV panels
- 35 x 33kV GHA LV panels
- 29 x 11kV GMA LV panels

Scope:

- Supply enclosures
- Fit, Wire & Terminate equipment into enclosures
- Adapt LV to MV section
- Test LV & MV
- Host Customer FAT's

Also:

- MV Panel Labels
- Inter-panel Wiring
- Primary injection testing
- Ductor Testing
- Insulated Earths
- PLC commissioning and testing
- Manufacture of plinths for MV installation
- Developed prototype GMA LV Enclosure



Experience



Client: Schneider Electric

VOX LV Integration – 2021 to Current

Multi-year Frame Agreement

Australian partner for VOX

Scope:

- Design & drawing modification
- Manufacture LV section
- Manufacture stand
- Adapt LV to MV section
- Test LV & MV
- Crate & dispatch to End User

Clients include:



MOUNT ISA
MINES



Experience

The Santos logo consists of the word "Santos" in a white, serif font, centered within a solid blue rectangular background.

Santos Kiosks – 2018 to 2019

143 x 11kV Kiosks – Santos, Upstream Coal Seam Methane, QLD

Scope:

- Assemble enclosure
- Fitout equipment
- Wire equipment
- Fit enclosure
- Testing
- Labelling, Documentation & QA
- Load for dispatch

Also:

- Free issued stock management
- Free issued equipment defect rectification
- Modify free issued equipment
- Handling
- Storage
- Daily client coordination meeting (conf call)



Transformer & UPS FAT Support – 2019

Westconnex Project

Scope:

- 2 x Sets
- Receive & Set up
- Provide LV Rescue standby for duration of tests
- Decommission & prepare for dispatch
- Load & dispatch



Experience

MOR Cosmetics Outdoor 11kV Switchboard – 2018

Scope:

- Design and manufacture enclosure
- Install light & power
- Install and wire 3 x SM6 panels
- Install meter box & battery charger
- Testing
- Delivery

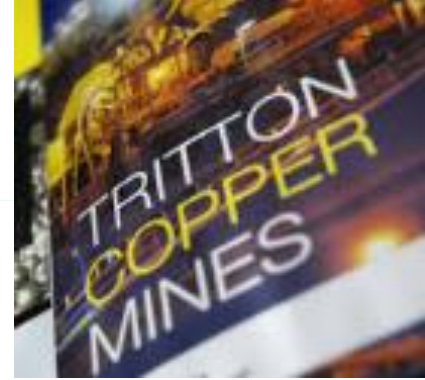


Experience

Client: Tritton Copper Cobar

Project: Vent Fan Power & Control System – 2017

- Turnkey switchroom
- 11kV Switchgear
- Medium Voltage VSD's
- MV Motors



Experience



Client: CSIRO

Project: NASA Deep Space Project – 2015 & 2019

- Canberra
- Schneider MV Switchboard
- McSet
- 60 x Panels
- 2019 Extension in progress currently



Experience

Client: Glencore

Project: 11kV Distribution - 2014

- Tahmoor Colliery (Underground Coal)
- 11kv SM6 Switchboard
- 500KVA Kiosk Substation

GLENCORE



Experience

Client: South32

Project: West Cliff Vent Fan Power & Control System - 2015



Experience



Client: Qenos

Project: 2 x Motor Control Centre replacements (turnkey) – 2016 & 2019

- **NSW largest Major Hazard Facility**
- **Mission Critical Application**
 - Initial Audit
 - Functional Specification
 - Project Management Plan
 - Design & Design Risk Assessment
 - Manufacture of 34 module Board
 - Remove & Replace
 - Commission



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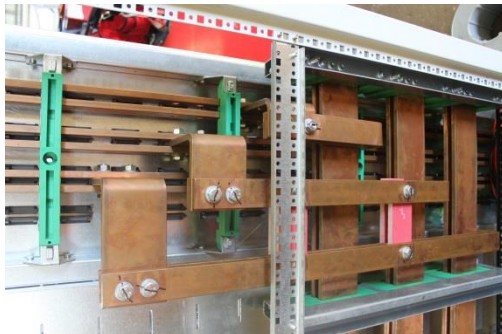
Experience



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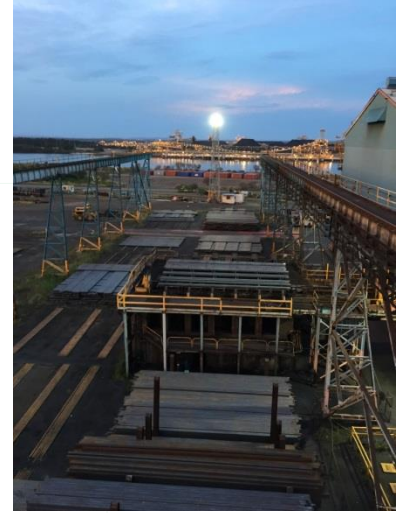
Experience



Client: Liberty Onesteel

Project: Crane Re-electrification (turnkey) – 2016 to 2018

- Steel Billet Plant, Newcastle
- 13 x Electrical Panels
- Specify, Design, Manufacture & Install
- Manhole access only
- Weekend access only
- Crane restart required each Sunday night



Experience

Client: ANSTO

Project: PCS Interface Panels – 2016 to 2017



Experience

Client: Sydney Water

Project: Contractor Panel for Electrical Services

– 2016 to Current

- Multi-year contract
- Electrical Services
 - Engineering Studies (including Earthing integrity)
 - Electrical Maintenance
 - Projects
 - Motor Overhauls

Sydney
WATER



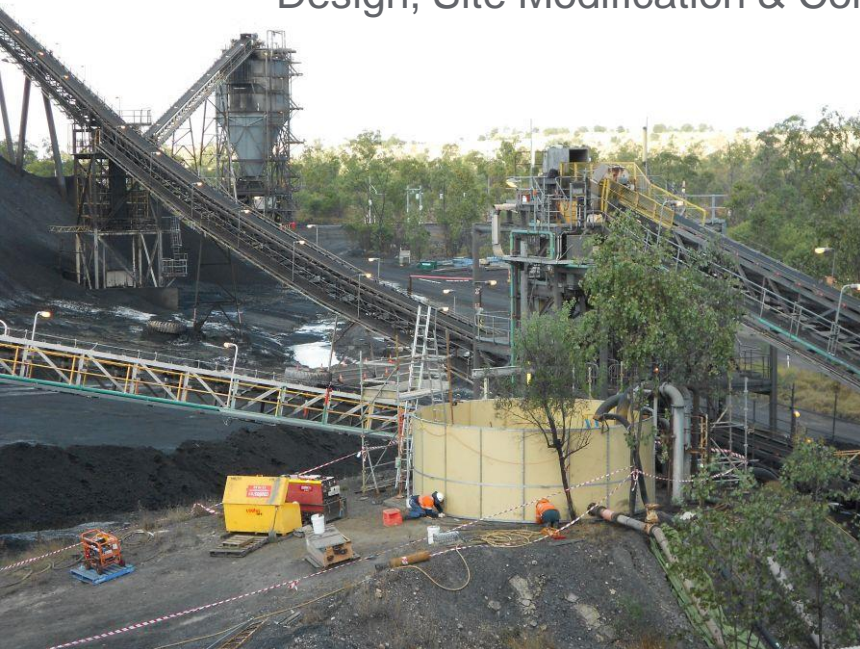
Experience

Client: Glencore (Coal)

Project: Remote Switching Modifications

GLENCORE

- Tahmoor Coal Washery
- Improve personnel safety – Main 415VAC Switchboard.
- Enable remote switching of the circuit breakers, subsequently enabling the operator to be at a safe distance from the board during switching.
- Design, Site Modification & Commissioning of the switchboard.



Experience

Client: Various Coal Mines

Project: DCB's Ex Certified Audit & Upgrade



Experience

Client: Tahmoor Colliery & North Moranbah

Projects:

- U/G Pump Skid DCB Rebuilds x 4
2019 & 2020
- Also Pump Testing (HV) – S32
(supporting Longwall Hydraulics)



Experience

Client: Mining – Underground Coal

Project: Mobile Substations



Experience

Client: Svitzer

Project: Tug & Shore Facilities Electrical

2005 - Present

- Preferred contractor since 2005, Port Kembla & Eden
- Extended to Sydney Harbour & Botany Port, 2017
- All Tug Electrical & Control

SVITZER



Experience

Clients:

- Steel Manufacturing
- Recycling
- Demolition
- Manufacturing



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[J&R Magnetics You Tube Channel](#)

www.jrmagnetics.com.au

Industrial Electromagnet Systems



Mobile Electromagnet Systems

