uon.com.au

Switchboards Division

Capability Overview

The One Source

Power Air Water

Sustainable Energy Across the Life Cycle

Since 2002, UON Switchboards Division has delivered excellence in engineering, design and manufacturing for the mining, oil and gas, industrial and commercial industries.

The Point of Difference

Our extensive range of world-class equipment is designed and custom built to operate in the harsh Australian environment. Our regular on-site servicing capability extends from installation to commissioning, ensuring your project remains operational as long as required.

Our Focus

We design our equipment to be modular and mobile, providing our clients with a simplified, customised solution for their needs. Our focus on life cycle cost reduction and design highlights our commitment to sustainable energy generation and power control systems.

The Benefits

Flexible

- The LV Switchboards range from a standard incoming supply, up to and including a 6300 amp with multiple incoming supply arrangements.

Engineered for safety

- Operator safety is paramount and a governing factor in the design process of our product range. This ensures that the end user is provided with the maximum level of personnel and equipment protection.

Innovation

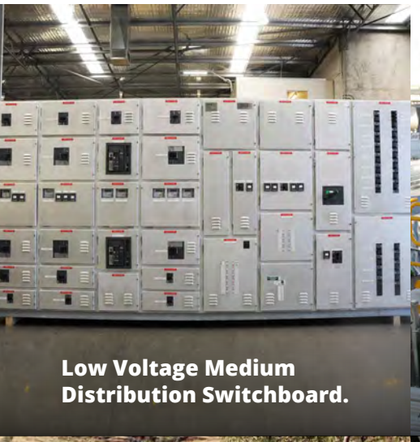
- UON specialises in delivering innovative designs which are modular, scalable, renewable, re-usable and reduce on-site installation costs.

Reliable

- All ranges are designed and manufactured in accordance with all relevant AS/NZS standards and all statutory regulations.
- All electrical switch gear and components are factory tested, well designed and are of high quality, sourced from first-class accredited international companies.

Designed for the end user

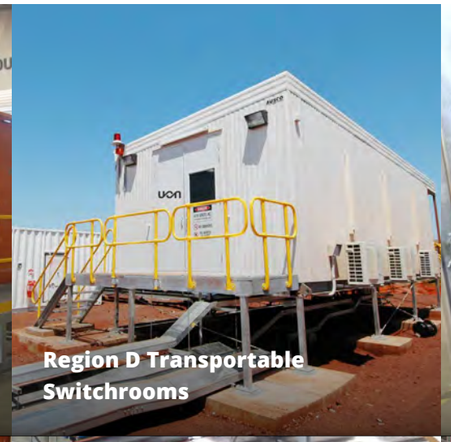
- Our products are designed for easy modifications and maintenance.
- Our user-friendly access and removable panels make it easy to conduct these works and ongoing maintenance resulting in minimum down time.


Low Voltage Medium Distribution Switchboard.


Mobile Bore Pump Control Panel

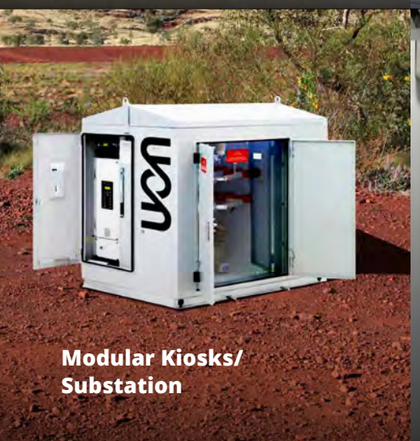
Load Banks

Motor Control Centre



Region D Transportable Switchrooms


Low Voltage Distribution Switchboard



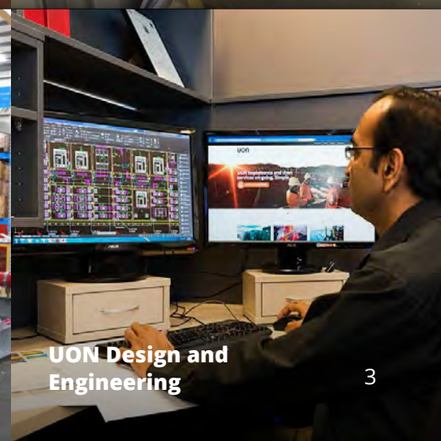
Modular Kiosks/ Substation


Motor Control Centres

Soft Starter Control Panel


Programmable Logic Control (PLC) Panels

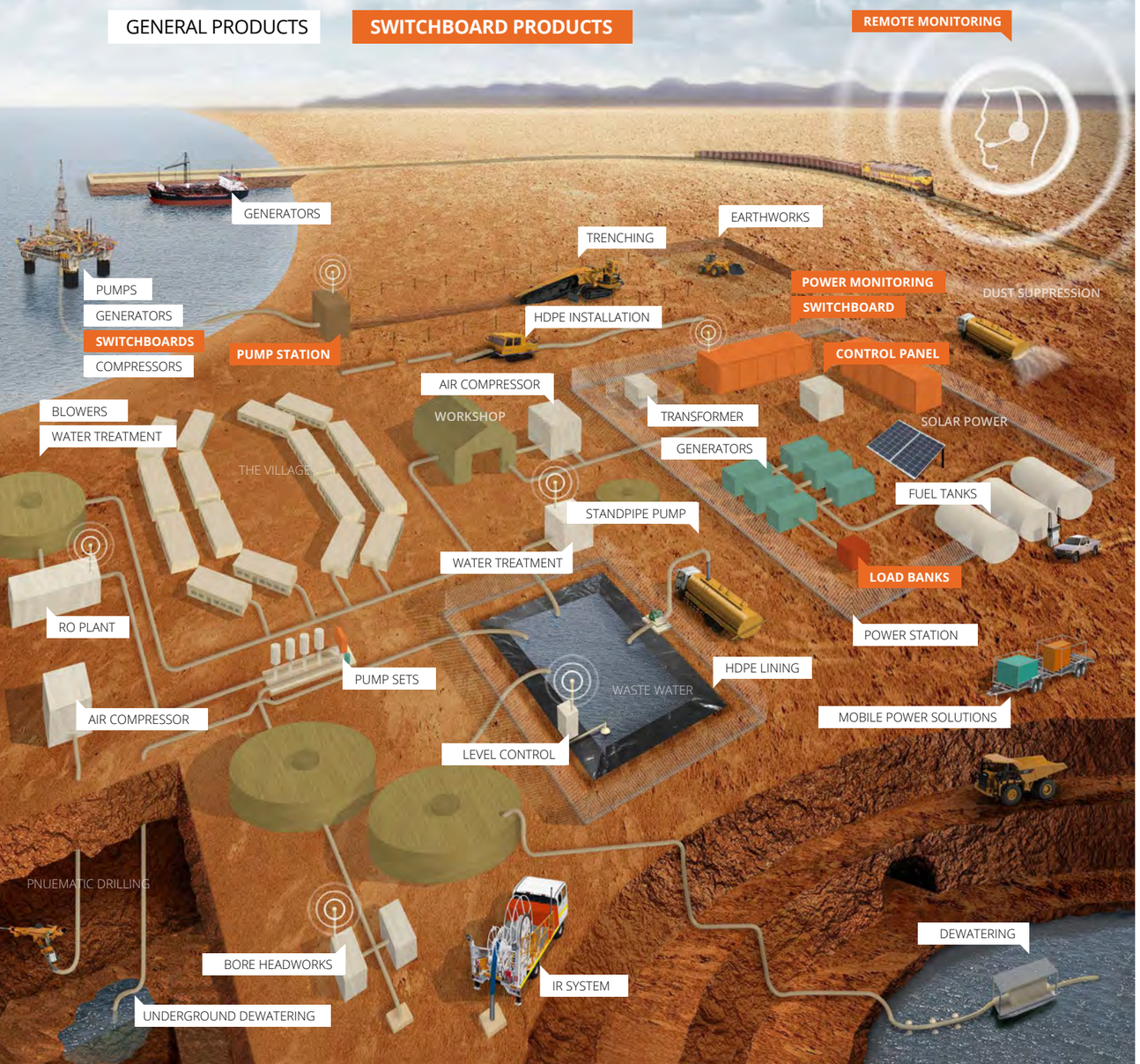
Fire Pump Control Panel


UON Design and Engineering

UON Overview

UON provides a range of standard and customised switchboards that are smart and modular. UON can design, manufacture, install, maintain and monitor switchboards, motor control centres, control panels and switch rooms to your specifications.

All of our switchboards and switch rooms are designed and type tested to all relevant Australian standards and relevant statutory regulations. They are also built in-house where they are managed by UON's experienced and qualified industrial and electrical engineers, AutoCAD-proficient draftpersons, quality control officers, electrical fitters and apprentices.



In-House Design

Our in-house design and management allows us to communicate with our clients from beginning to end of projects. This provides flexibility and adaptability during the project, and consistent and genuine local support demanded by our clients.

Site Servicing

UON Switchboards site servicing capability extends right through from installation to commissioning. We offer preventative maintenance programs for electrical switchgear and switchboard systems, including, upgrading and/ or extensions of existing switchboard installations, analyses, testing and repairs. Our programmed maintenance package covers inspections, thermographic investigation to identify faulty busbar joints and cable terminations. We also perform tests for circuit breakers and busbar systems. With a team of over 20 dedicated staff servicing our clients' needs, the UON Switchboards team consists of experienced, medium and low voltage electrical technicians with extensive knowledge in safety procedures, including all technical and legislative facets of the electrical industry.

Workshop

UON Switchboards has fully integrated manufacturing facilities, based in Malaga, WA. Our 1000m² floor space is equipped with state-of-the-art equipment to produce switchboards. This facility has dedicated areas and machinery for:

- Switchboard construction, component fit-out and electrical wiring
- Copper fabrication used in cutting, punching and bending the copper and aluminum conductors for high-current switchboards
- Switchboard quality control and testing
- State-of-the-art Brady digital printer, providing ground-breaking productivity in label making for wire markers
- Epilog laser equipment used in producing the traffolyte, stainless steel labels and cable markers

Engineering

UON Switchboards is equipped with our own Engineering team from various technical backgrounds allowing us to provide exceptional solutions for all your switchboards, transportable switch room and substation-kiosk requirements.

Integration in Action

Certification

UON Switchboards complies with all the relevant Australian and international standards, up to 6300AMP 100KA fault level. Our switchboard solutions are type tested and comply with AS3439:1:2002 & IEC/EN 61439 standards, including arc fault containment and temperature rise testing.

Bore Pump Control Panel

Manufacture of 42 Motor Control Centre Switchboards for a major mine site in the Newman area in WA. All motor control switchboards were engineered and designed in-house by UON's skilled and talented staff. The client's delivery expectation put UON Switchboards to the test in this instance. However with years of experience in project delivery, the challenge was executed professionally and on time, with no compromise to safety and quality throughout the project.

Commercial Switchboards and Energy Metering

Manufacture 97 Commercial Switchboards for a major shopping centre south of Fremantle. The scope of supply included the 2500A site main switchboards through to the tenancy power distribution switchboards. The project delivery expectation was fast- tracked by the development company putting pressure on the UON team to meet the updated delivery schedules. Working closely with our client, focusing on quality communication through the process, UON was able to successfully meet the client's delivery expectations on time.

Power Generation and Fuel Control

UON was required to design, manufacture and install the outdoor modular switchboards for a major mine site in the north-west area of WA. The outdoor modular switchboard solution provided the client with the flexibility to relocate the power distribution and motor control switchboards along with the required machines in a quick, cost-effective method, making the complete system sustainable to the client redeployment program.

Load Bank Solution

UON was required to install a complete load bank solution for a power station in the north-west of WA. The scope of work included the supply of five x 6.5MW load bank systems, including five x 7MVA transformers and five x 11kV switchboards. UON manufactured the outer enclosures and assembled the five x 11kv switchboards, including the wiring of the protection relays. Also included in the scope of work was the communications integration between the medium voltage supply end and the low voltage load bank units. Site installation will shortly be underway for this complete solution.

Contact UON Switchboards

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