


# Clipsal Mining Solutions

Increasing workplace safety.  
Adding value to mining operations.





A large yellow and orange mining truck is shown from a low angle, driving on a dirt road. The truck has a large, open-top cargo area and is equipped with heavy-duty tires. The background features a clear blue sky and a range of mountains in the distance. The foreground shows a dirt road with some loose gravel and a small puddle of water.

Investing in reliable,  
innovative electrical  
solutions optimises  
capital expenditure,  
maximises workplace  
safety, and contributes to  
successful profit margins.

# Experience and Expertise Achieves Better Results

Clipsal by Schneider Electric is Australia's number one supplier of electrical products and solutions, with multiple manufacturing facilities across the nation. The Clipsal brand offering comprises more than 20,000 products, including electrical accessories, lighting, data, industrial, control systems, cable management and energy efficient solutions.

As an industry leader, we are dedicated to supplying the most innovative and sustainable solutions on the market - providing a positive return on investment, and improving operational efficiency for our customers.

Our innovative, compliant electrical products combined with extensive expert advice assist you to achieve the best electrical solution for your project.

## The Mining Market Sector

In today's competitive market, achieving optimum results in mining operations is integral to success. The mining industry has become the economic backbone of Australia, bringing billions of export income dollars into the country. It provides work for over 750,000 Australians, and supports communities across the entire nation.

Huge expenditure in exploration and infrastructure continues to fuel both Australia's mining boom and its contribution to national economic growth. We understand the importance of mining to the Australian economy and the global dependence on our natural resources.

## Improving Mining Operations in Four Key Areas

We are committed to the success of your mining operations through providing individually tailored electrical solutions, to meet your specific requirements in the most cost-effective way possible. Our goal is to build a long-term relationship and assist with the ongoing success of your business.

When you choose Clipsal by Schneider Electric, you are tapping into a vast global network of electrical and energy management expertise. Our aim is to provide you with the safest, most innovative, sustainable electrical solutions available on the market.

Clipsal solutions can keep you at the forefront of technology and assist to improve your mining operations across four key areas:

- High-Level Occupational Health and Safety (OH&S)
- Financial Performance
- Operational Performance
- Mining Camp Accommodation & Facilities

**CLIPSAL**  
by Schneider Electric

**Schneider**  
Electric





## High-Level Occupational Health and Safety

Superior levels of safety are imperative for any mining operation, to prevent staff injury, increase productivity and reduce costly downtime. Clipsal Mining Solutions can greatly improve staff and operational safety through integrated technology and innovative product design.

### Clipsal solutions provide high-level OH&S through:

- a huge range of quality products and solutions that improve safety in any mining operation, while reducing maintenance and operational downtime costs
- electrical solutions, which provide superior safety. This includes switchboard RCD protection; IP66 rated industrial switchgear; impact resistant diecast industrial switchgear; RCD protected power outlets; smoke alarms; emergency lighting, surveillance cameras and portable RCD devices
- intelligent lighting control systems, which greatly improve worker safety by activating lighting in specific areas when required. Furthermore, integration with emergency systems provides a clearly lit path to safely guide staff out of the mining operation or offices
- intelligent lighting and energy management systems that monitor the status of individual lights to provide management with precise information on lamp life. This eliminates unnecessary operational downtime and hazards associated with lamp failure, which can place workers at risk
- flexible and modular health solutions, which meet the need for medical facilities to be removable and adaptable, as well as being able to be installed onsite or off-site - terminating into consolidation boxes
- emergency systems, which can be integrated with onsite medical technologies.



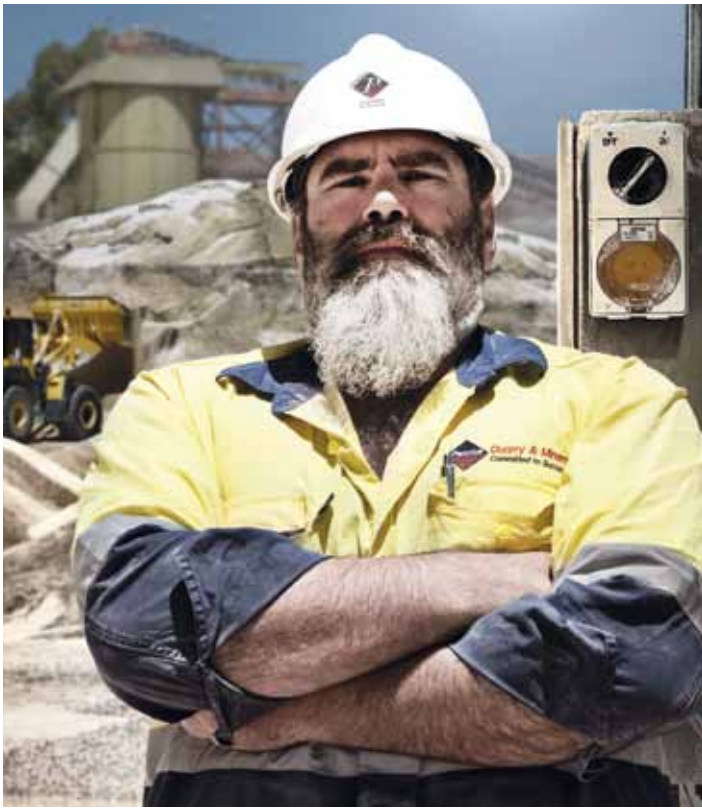
## Financial Performance

Good financial performance is an essential aspect of any well managed mining operation. Investing in our reliable, innovative electrical solutions optimises capital expenditure and contributes to successful profit margins.

### **Clipsal solutions assist to improve financial performance through:**

- offering end-to-end electrical solutions coupled with expert advice, eliminating the need to deal with multiple vendors. With an offering in excess of 20,000 products and solutions we can meet your specific requirements for any project
- customising products to suit mining requirements, which creates efficient installation times and prevents the need for costly onsite adaptation
- lighting control and energy management systems, which use energy more efficiently, while ensuring optimum lighting levels for safety and comfort
- integrated lighting control systems, which enable effective monitoring of the entire facility from one centralised location. This technology minimises operational downtime and maintenance requirements through precise monitoring and reporting, with automatically generated maintenance programs
- innovative product design, which ensures ease of installation and flexibility of systems when onsite alterations are required
- product and system compatibility with future technology, so upgrades can be made without making existing systems redundant
- quality products designed and engineered to the highest standards to endure the harshest environments. This optimises capital expenditure and ensures maximum return on investment
- Australian electrical industry's largest sales, customer care and wholesale network, which ensures timely information, support systems and product delivery efficiency.



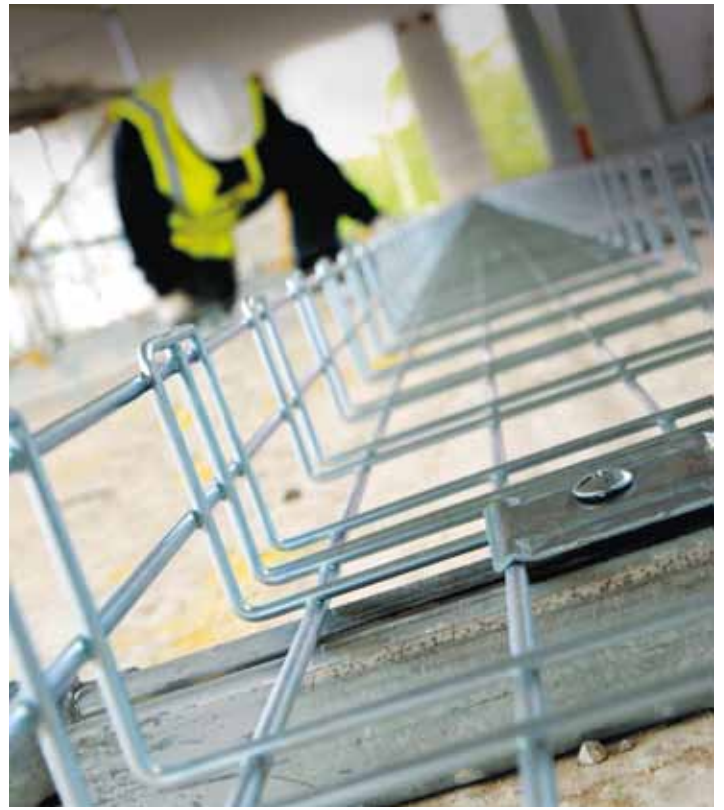


## Operational Performance

Our expert engineering and R&D design team continuously evolve Clipsal's extensive product range, to meet the specific needs of today's mining industries. With an extensive offering of more than 20,000 products, we can develop electrical solutions that are unique to the mining industry and specific operational requirements.

### Clipsal solutions improve the performance of mining operations through:

- industrial switchgear, which provides superior power reliability and performance through features such as IP66 ratings; chemical, impact and UV resistance; a selection of voltage and current ratings in several pin configurations; colour coding for application identification; and backward compatibility
- diecast aluminium industrial switchgear, which provides high impact resistance, IP66 ratings and is tested to operate in temperatures of -20°C to 60°C. These features ensure long life in extremely arduous conditions. Also available in a selection of voltage, current ratings and configurations
- intelligent lighting control, which provides lighting system monitoring and control into a single integrated solution. This improves energy efficiency and decreases operational downtime, as the status of individual lights can be monitored and controlled via an Ethernet network
- time schedules, switches and sensors, which are programmed to suit specific lighting requirements for mining operations, such as automatically switching lights off after hours; adjusting the lighting intensity in accordance to ambient light levels; integration with mining systems and more



- comprehensive and high-level connectivity solutions, which cater for all mining data requirements and create a solid communications platform to conduct your mining operations. This includes an extensive range of fibre optics, data products, enclosures, connectors and cabling, to ensure every requirement can be met with the best possible solution available
- connectivity solutions, which are available with a comprehensive Clipsal Lifetime Warranty when installed by Clipsal Endorsed Installers
- extensive cable management solutions, which cater for all mining operational requirements. Quality products such as Clipsal's glass fibre reinforced polyester cable ladders and trays have a longer lifespan, ensuring maintenance costs are kept to a minimum, while making installation as streamlined as possible
- an extensive range of energy efficient lighting for mining operations, such as economical LED and fluorescent downlights for living facilities and offices, to efficient high-bays and high spectrum reflectors for onsite operations.



## Mining Camp Accommodation & Facilities

To maintain high levels of productivity it is essential that mining living quarters and facilities are comfortable, convenient and safe - providing staff a homely environment with access to modern technology.

### **Clipsal solutions assist with improving mining camp accommodation and facilities through:**

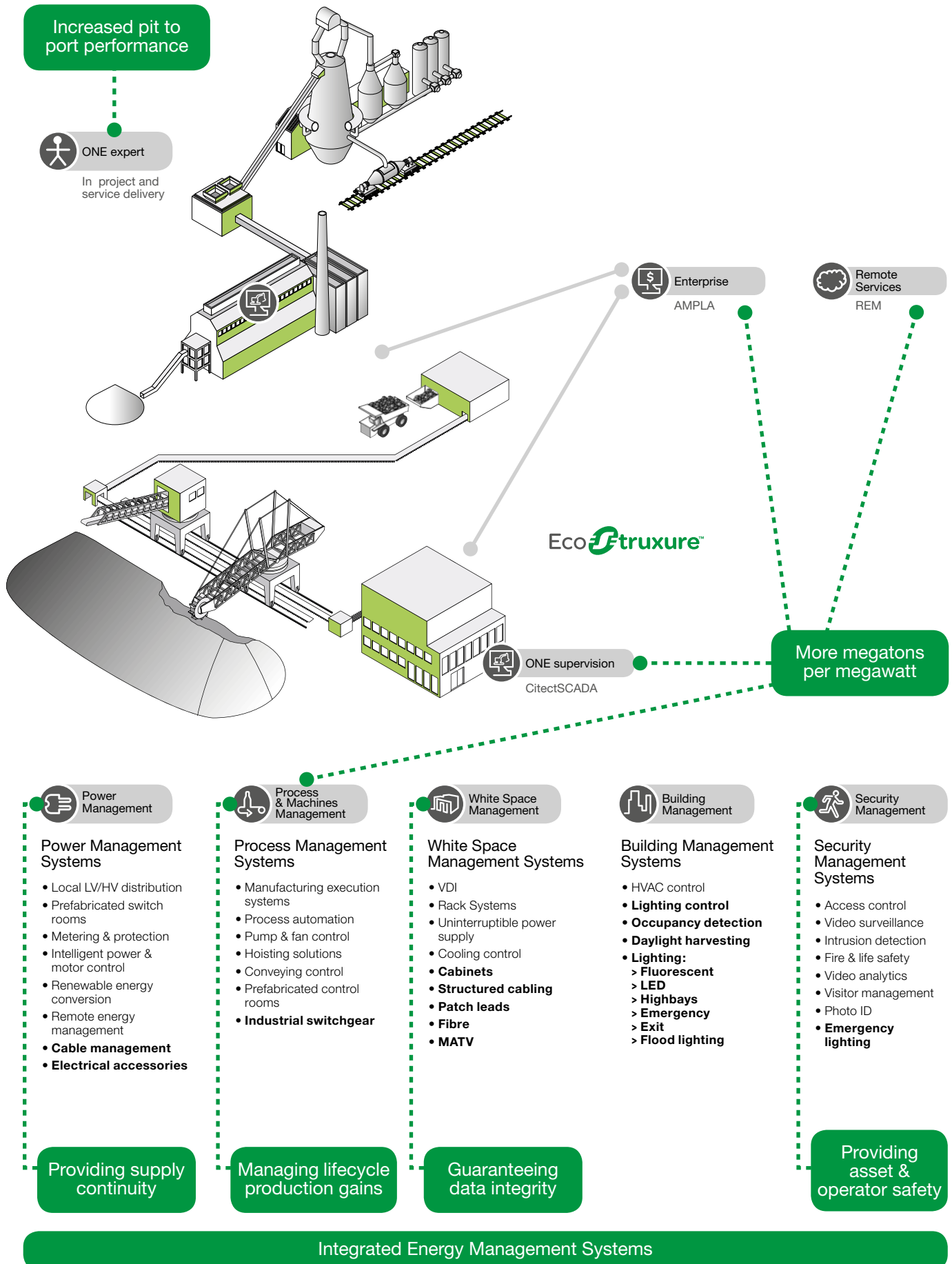
- end-to-end, high-speed data solutions, which provide superior Internet connectivity. This allows staff to enjoy modern conveniences and entertainment via the web. It also facilitates easy, low cost communications back home
- improved TV reception to mining accommodation through high quality master antenna television (MATV) solutions. Maintaining comfortable living standards contributes to greater productivity through increased staff satisfaction
- comprehensive Cat. 5e, 6, 6a and 7 data solutions, which includes fibre optic cabling, patch panels, data cabinets and enclosures, connectors and data outlets
- ease of functionality and 'Plug and Play' connectivity for external devices into existing in-room audio and visual equipment
- scalable data solutions, which future-proof data installations. This allows for simple, cost-effective system upgrades as new technology develops
- a large range of premium electrical accessories, which match any décor or finish





- intelligent integrated lighting control and management systems, which provide greater levels of comfort and convenience within mining accommodation and facilities
- lighting systems that are programmed to operate at specific times with preset lighting levels to suit specific requirements. Furthermore, integrated and programmed electrical devices, such as air conditioners turn on at specific times ensuring mining accommodation is the perfect temperature when staff return from work. When staff return to duty these electrical devices turn off, providing improved energy savings
- innovative products, which improve the speed of construction, deployment onsite, and allow flexibility and scalability if accommodation facilities are relocated, modified or extended
- an extensive range of energy efficient products and solutions, which reduce daily energy costs. This includes integrated lighting control and energy management systems, motion sensors, timer switches, building management systems (BMS), energy efficient lighting and energy monitoring devices.

# Mining Solutions





# Solutions that Benefit your Business

The powerful combination of Clipsal's extensive product range and Schneider Electric's global expertise in energy management, allows us to provide complete electrical solutions. This is achieved through:

- **One key vendor**

Clipsal offer in excess of 20,000 products and solutions, and can meet the specific requirements for any project. Expert advice and superior after sales service eliminates the costs and difficulties associated with using multiple vendors.

We can actively participate in project implementation. With assistance of our in-house Solution Design experts, we'll work closely with you to understand specific needs and create the best solution for your requirements.

- **Energy efficiency**

Our sustainable electrical solutions assist you to make the most of your energy and achieve more while using less. As global specialists in energy management we recognise the responsibility of coupling good business with good environmental outcomes. This is a key focus of all our electrical solutions.

We manufacture and supply reliable, sustainable electrical solutions to optimise energy usage, produce positive return on investment and comply with all relevant Australian and International Ratings. This includes Green Star, National Australian Built Environment Rating System (NABERS) and Leadership in Energy and Environmental Design (LEED).

The company's corporate commitment to sustainability involves leveraging the company's capabilities to meet the customers' growing focus on energy usage and environmental practices. Our commitment to environmentally friendly product design (ISO 14001 Certification), compliance with RoHS, PVC minimisation strategy and strong portfolio of energy efficient products, reinforces the company's commitment to sustainability and best practice.

- **Customised solutions**

We can tailor electrical solutions to suit individual requirements. From the smallest installation to large systems, Clipsal solutions are highly scalable, allowing you to procure only what you need now and expand as your business grows.

- **Research & development**

By remaining at the forefront of technology, our innovative products and solutions deliver superior reliability, safety and performance. The company invests an average of \$20 million per annum on research and development, and have access to a vast pool of global expertise.

- **Safety, reliability & performance**

You can be confident that all Clipsal products and solutions meet stringent OH&S guidelines. All products are manufactured to comply with relevant Australian and International Standards, and meet Environmental Ratings, such as RoHS.

- **Partners in business**

Our goal is to build a long-term relationship with you, for the ongoing success of your business. We look beyond the project to find ways to add value in the future. When you engage Clipsal by Schneider Electric, you can be confident you are dealing with Australia's most experienced electrical solutions supplier and manufacturer. We strive in every aspect of the business, to provide all market sectors with high quality, intelligent, environmentally friendly, economical electrical solutions now and in the future.

## Schneider Electric

From its inception back in 1836, Schneider Electric has become the global specialists in energy management, with presence in Australia since the early 60s. Today, Schneider Electric's commitment to Australia and New Zealand is a \$1.3 billion investment, with staff and factories around the world, and research and development centres in 25 countries.



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