

# Underground Mining Flameproof Substation



## Custom design underground flameproof substations designed and built by PBE

**The PBE Underground Mining Flameproof Substation was designed and built in Australia and compliant to all local standards.**

Commonly used in mining these standards are in line with global standards.

The units are constructed to the customers specifications and are fully supported by our service teams with maintenance options available. ◆

PBE Group acquired Rutherford Power Group in 2018, and now provide a global integrated solution for Power, Safety, Communications and Data for the mining and tunnelling industries.

### Specifications

- Designed and manufactured in Australia
- Fully compliant to all international standards
- Excellent after sales and overhaul service
- Manufacture of standard units or custom built to specific customer requirements
- Complete suite of flameproof equipment for coal environments



**PBE**

INNOVATING SAFETY.  
POWERING PRODUCTIVITY.

[pbegrp.com](http://pbegrp.com)



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## Features

- Designed and manufactured by PBE to customer requirements with various enclosure configurations and sizes available
- Available in all supply voltages up to 11kV with 800A bolted adaptors
- Modular designed mounting pans for ease of overhaul and maintenance
- Fully compliant to relevant Australian and International Standards including AS/NZS4871 & MDG40, globally recognised
- Additional viewing windows for internal inspection and viewing of protection modules
- Increased operator and diagnostic displays and controls
- Motorised control circuit breakers viewable and resettable from outside of the enclosure
- Supplied with galvanised skid for ease of transport with options for solid wheels or crawler tracks
- Enclosures consist of separate isolator and control compartments to meet the requirements of AS/NZS4871
- Provide safer isolation points on the machine for electrical and mechanical personnel during maintenance and breakdowns
- Interlocked high voltage earth switch
- Individual circuit breaker protection of each outlet
- Option for mechanical interlocking between the circuit breaker and the receptacle for each outlet



In addition to substations, PBE has a range of flameproof equipment that is certified to the latest Australian and International Standards for Class 1 Zone 1 Exd Coal Mine Applications, and can be used in any country that accepts international certifications.



The units have a wide range of applications in hazardous areas and include:

- Load Centres/Distribution Control Box's
- Pump starters
- Feeding continuous miners and road headers
- Feeder breakers
- Conveyor starters
- Circuit breaker boxes
- Auxiliary fans

## About Us

PBE Group ("PBE") provide an adaptive and flexible integrated solution where a reliance on safety and productivity is essential. PBE is a true global systems provider for the mining, tunnelling, construction and associated markets. Our specialised engineering team integrates our industry specific manufactured products and best in class 3rd party products to ensure a sophisticated, robust and commercially viable solution. Our growth in international markets is based on the key verticals of Technology, Power and Service Delivery – fundamental in any industrial project. Our experience in confined space and underground construction has enabled PBE to complete over 850 projects in more than 60 countries with 320 staff and 18 regional offices.

## Disclaimer

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