

PowerLogic P7 Protection Relays Homologated in the World's Largest Mining Company

Background

A global leader in the mining and metals industry—headquartered in Australia and recognized as the **world's largest mining company by market capitalisation** and the **third-largest by revenue**—sought to modernize its electrical protection systems across its high-value mining operations. With a focus on safety, reliability, and digital transformation, the company required a next-generation protection relay platform that could meet stringent technical, cybersecurity, and operational standards.

Solutions

Schneider Electric partnered closely with the mining giant to introduce and qualify the **PowerLogic™ P7** Protection Relay platform—a high-end, next-generation solution designed for critical power applications in demanding industrial environments.

Key highlights of the solution included:

- Advanced protection, control, and monitoring for medium-voltage networks
- IEC 61850 compliance for seamless digital substation integration
- Cybersecurity by design, aligned with IEC 62443 standards
- Flexible configuration to support a wide range of feeder, motor, and transformer protection schemes
- User-friendly interface and powerful diagnostics for improved asset management

The PowerLogic P7 platform underwent a rigorous qualification and homologation process, including lab testing, field trials, and cybersecurity assessments, to meet the mining company's global engineering standards.

Achievements

-  **Successfully qualified and homologated** across the company's global operations
-  **Standardized protection platform** for new and retrofit projects across mining sites
-  **Enhanced cybersecurity posture** with secure communication and access control
-  **Reduced downtime and maintenance costs** through advanced diagnostics and remote monitoring
-  **Enabled digital transformation** of electrical protection systems in line with Industry 4.0 goals



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