



Power & Industrial Services for the Mining Industry

Tenix supports the mining industry, offering extensive experience in the design and construction of overhead and underground power lines, substations and switchroom installation as well as fabrication, installation and on-site services, including specialist welding, repairs and overhauls.

Projects where we provided power services include:

BHP Yandi Camp Project

Tenix worked with BHP Billiton to construct an overhead and underground power line extension within the BHP Yandi Camp Mine site. The project involved a site-based crew of eight to ten employees and includes the construction of overhead powerlines, the installation of 2.5 kilometres of underground cable and associated substation and switch room installation works.

Cloudbreak Mine Project

Tenix designed and constructed power lines at their Fortescue Metals Group's Cloudbreak Mine, 1,400 kilometres north east of Perth. The project involved the design and construction of three kilometres of dual-circuit 33kV overhead power lines, five kilometres of 33kV single-circuit power lines and installation of four high voltage underground cable crossings.

Brockman 2 Project

Rio Tinto awarded Tenix a contract to design and construct power lines and two substations at their Brockman 2 Mine, located 1,500 kilometres north east of Perth. The project involved the design and construction of seven kilometres of 33kV overhead Powerlines, two 10MVA 33/11kV substations, plus the installation of 750 metres of 33kV underground cable and associated spur lines.



Specialised Services

Power:

- ✓ Design, construction, procurement, commissioning and maintaining of overhead lines
- ✓ Design, construction, procurement, commissioning and maintenance of substations
- ✓ Periodic protection testing of HV circuits and equipment
- ✓ 6 monthly statutory testing of HV operating equipment

Fabrication and Installation:

- ✓ Conveyor & chute upgrades
 - ✓ Ball mill and crusher refurbishment
 - ✓ Site welding services
 - ✓ Pipe work design, fabrication and installation
 - ✓ Drag line and bucket overhauls
 - ✓ Shutdown and outage management
 - ✓ Asset and maintenance contractors
- *AS/NZS 9001-2000 accredited



Examples of our industrial and fabrication capabilities are:

Bayswater Power Station Conveyor Upgrade

Tenix was responsible for upgrading the coal delivery system from 3000tph to 4000tph for the Macquarie Generation Bayswater Power Station. The scope of Tenix's work included the supply, installation and commissioning of capacity upgrades to coal conveyors 10A/B, 11 A/B and MA1B. This included the replacement of drives, return idlers, pulleys take-up weights and modifications to the control systems and steelwork, such as delivery and loading chutes.

Lihir Gold Mine

Tenix was awarded a contract to install the Outokumpu Ball, SAG Mill and the Air Liquide Oxygen Plant at the Lihir Gold Floatation Plant. The Aker Kvaerner Lihir Floatation Project was an expansion of a major gold mine facility, located on Lihir Island, PNG. This project faced major challenges due to remote location, varied workforce and exceptionally high rainfall. It was a test and a challenge that required high levels of dedication and expertise to deliver the world class results required by the client.

Dalrymple Bay Coal Terminal Upgrade

Tenix was awarded a major contract for the Dalrymple Bay Coal Terminal 7X project upgrade in Queensland. The project involved the procurement, supply installation and commissioning of a 1.4km long yard conveyor, two out-loading conveyors and a fully fitted out transfer tower. This project involved 300 tonnes of structural steel, chutes, drives, rollers and brakes, control systems, telemetry, motors and civil works.

Blackwater Mine

Tenix has completed numerous works for the BMA (BHP Billiton Mitsubishi Alliance) Blackwater Mine. Works included the supply of all materials including steel poles, line hardware, insulators, conductors and earthwire, fitting and erection of poles, erection of all line hardware, supply, installation and testing of pole earthing and earth mats for the transportable substations as required, supply and stringing of conductors and earthwires and testing and commissioning of the line.

For more information contact:

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