



case study:

Jugiong Substation Country Energy

Tenix was engaged as the principal contractor for the civil, mechanical and electrical construction of the greenfield Jugiong 66kV to 11kV zone substation project designed by Country Energy

Key Features and Outcomes

In November 2007 Tenix was awarded a contract by Country Energy to provide civil works, electrical works and transportable control building.

The key features of the substation included:

- Two 66KV transformer bays
- Two 66KV feeder bays
- Earthing, installation of cable pits, conduits, ladder tray and cables.

The scope of the works involved in the procurement and installation of the substation included:

- 2-66V to 11kV 25mVA transformers
- 2-11kV to 415V 100kV transformers
- 66kV circuit breakers
- 66kV Disconnect Switches
- 66kV CT's and VT's
- 11kV Feeder and bus tie circuit breakers
- SCADA
- AC and DC distribution panels
- Transformer control and Protection panels



Tenix[®]



Field Services

- Preventative Maintenance
- Corrective Maintenance
- Fault Services (24/7)
- Asset Replacement
- ✓ New Build
- Connection services
- Asset Locations & stand-overs
- Close proximity permits

Management Services

- ✓ Design
- ✓ Project Management & Systems
- ✓ Quality Management & Systems
- ✓ HR & IR Management
- ✓ Construction Management
- ✓ Procurement Management
- ✓ Subcontractor Management
- ✓ Cost Planning & Estimation



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Our Role

Tenix was responsible for the physical delivery of the substation extension works, including project management, management of earthworks and civil works, major equipment installation, primary and secondary system installation and testing.

The works undertaken by Tenix included:

- The Civil Works for the construction of foundations, drainage and switchyard surfacing.
- Reinstatement of access roads and associated earthworks as specified.
- The Transportable Control Building supplied and erected by Tenix contained all control and protection equipment, batteries and staff amenities.

Resources & Skills

Tenix provided skills & resources including a Project Manager, Site Supervisor, Electrical Tradesmen, Mechanical Subcontractor and Civil Subcontractor.

Tenix was responsible for the physical delivery of the substation extension works, including project management, management of earthworks and civil works, major equipment installation, primary and secondary system installation and testing.

Asset Type: Electrical Substation	Duration: 4 months
Client: Country Energy	Value: \$1.2M
Location: Jugiong, NSW	Scope: Construct
Contracting Style: Lump Sum Contract	Contract Secured: November 2007

