



case study: **Alligator Creek Substation**

Tenix delivered the Alligator Creek project to support Powerlink Queensland in maintaining a secure supply of electricity to the coal terminals of Hay Point, Dalrymple Bay, and surrounding areas.

Key Features and Outcomes

In November 2006, Tenix was awarded a contract by Powerlink to undertake extension works on the Alligator Creek Substation in Central Queensland. The contract was awarded under the period alliance agreement in place between Tenix and Powerlink. The Tenix project team maintained close working relationship with the Powerlink team to ensure that the project was delivered as specified. Major achievements for this project included:

- Practical Completion of works within the time requirements of the project
- 15,000 site hours
- Zero lost time injuries
- Shared lessons learned captured to benefit future projects

Our Role

Tenix was responsible for the design and 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. Alligator Creek Substation is located 20km south of the regional city of Mackay. The works undertaken by Tenix included:

- Upgrade of existing feeder bays
- Extension of the platform
- Installation of a second bus coupler circuit breaker
- Installation of a new transformer bay



Tenix[®]



Field Services

- ✓ Project Management
- Earthworks Design
- Civil Design
- ✓ Electrical Design - Primary
- ✓ Electrical Design - Secondary
- ✓ Earthworks Construction
- ✓ Civil Construction
- ✓ Electrical Construction - Primary
- ✓ Electrical Construction - Secondary
- ✓ Field Testing (FAT & SAT)
- ✓ Procurement (Partial)

Management Systems

- ✓ Project Management & Systems
- ✓ SQE Mgt & Systems
- ✓ HR & IR Management
- ✓ Construction Management
- ✓ Procurement Management
- ✓ Subcontractor Management
- ✓ Cost Planning & Estimation
- Planning Approvals
- ✓ Community & Stakeholder Mgt



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Resources & Skills

Tenix's project scope included the delivery of earthworks, civil works, structure erection, primary plant and secondary cabling installation, construction testing and pre-commissioning testing.

Asset Type:

Electricity transmission

Duration:

1 year

Client:

Powerlink, Queensland

Scope:

Construction

Contracting Style:

Program Alliance

Contract Secured:

November 2006

