

UDCS Consulting Project Summary

THE COMPANY

UDCS Consulting provides

- survey and
- engineering consultancy services

to the

- electricity
- infrastructure
- mining
- commercial sectors

The primary works being undertaken are in reticulation, distribution and transmission of power, water and gas.

Our Clients

Domestic and foreign Utilities
Major construction companies
Government & Private asset owners.

Services Offered

Engineering Survey
Electrical Distribution Design
Sub-transmission OH Design
Sub-transmission UG Design
Substation Design
Preparation of environmental reviews
Developer initiated Design
Solar Power and Lighting Design
Road Lighting Design
HV Auditing (QLD ESO)

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QMAG Kunwarra Mine Site 66/11kV Intake Substation Upgrade



The works included all necessary design aspects to facilitate the change including the preparation of:

- site survey; and
- engineering studies; and
- detailed design; and
- HV Auditing services

The engineering system studies included load flow, fault level, protection and earthing systems reviews.

Detailed design saw electrical and civil/structural modifications made to the installation to facilitate the new larger plant items.

Project Scope

UDCS Consulting was engaged by Queensland Magnesia via Protech Power to undertake appropriate design to facilitate the up-grading of 66/11kV intake substation at Kunwarra Mine Site. The project scope was a brownfield recovery of an Ergon Energy transformer and installation of a new 8.5MV.A unit. This unit had been installed as a temporary emergency approximately 3 years earlier. It was to be replaced by an upgraded TYREE unit.

Due to the approaching storm season, time was of the essence and a key driver of the project for both Ergon Energy and Queensland Magnesia.

Project Achievements

- Project was delivered in line with client expectations of cost and timing.
- Successful upgrading of the substation was achieved prior to the storm season to the satisfaction of Ergon Energy and QMAG.

Key Personal

Client:	QMAG Protech Power
Client Contact:	Peter Eastoe
Consulting Engineer:	Kerry Prickett Stephen Edwards Monty Schloss

UDCS Consulting

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