

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)

Contact Details

Ph (07) 3260 6009
Mob 0439 703 709
PO Box 235
Banyo QLD 4014

Clermont Coal Mine 66kV Transformer Up-rate and Repair



Project Achievements

- Development of transformer thermal rise modeling tools by senior engineer Kerry Prickett in-line with the recommendation of IEEE/ANSI C57.115 (Previously C57.92)
- Successful up-rating of the TYREE unit in-line with the client's expectations.
- The repair of the transformer was successfully completed.

Project Scope

UDCS Consulting was engaged by Protech Power to undertake appropriate design to facilitate the up-rating of a TYREE 66/11kV transformer at Rio Tinto's Clermont Coal Mine. The unit in question being some 27 years old had been allowed to exceed its expected half life. The project intention was to undertake both maintenance and up-rating works in one operation.

The mine engaged others to dismantle the transformer and make ready for transport. On receiving the transformer Protech Power workshop staff identified that the unit had sustained damage during dismantlement. Due to this fact, UDCS Consulting's scope was expanded to include making recommendations with respect to necessary repairs.



Key Personal

Client:	Protech Power
Client Contact:	Peter Eastoe
Consulting Engineer:	Kerry Prickett

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