

COBAR MINE UPGRADE



PROJECT DETAILS

PROJECT LOCATION:
Louth road, Cobar, NSW 2835

COMMENCEMENT DATE:
Feb 2016

COMPLETION DATE:
March 2017

TYPE OF CONTRACT:
Design & Construct

CONTRACT VALUE:
\$2.0 Million +

PROJECT MANAGER:
Kevin Raffler

E&I MANAGER:
Phil Tilden

OVERVIEW TRADE PACKAGE

The CSA Mine is located approximately 14 kilometres northwest from the township of Cobar in central western New South Wales.

Operated by Glencore's management company Cobar Management Pty Ltd the site consists of a consolidated mining lease and in addition to about 820km² of tenements in the local Cobar area.

Star Group were selected to complete the upgrade of the underground electrical works including:

- High Voltage Capacity for the whole plant with 2 new feeders and switchboards
- New High Voltage feeds for underground vent fans
- Upgrade/replacement of L9 (u/g) HV feeds & switch boards

COMMERCIAL FACTORS

The scope of works for the CSA Mine consisted of:

- Co-Ordinated Design & Installation of Surface 11kV HV Switchboards.
- Design & Installation of HV Junction Box and Culvert.
- Installation of 8 x 3c 400mm² 11/22kV XLPE SWA Feeder Cables buried direct.
- Terminations, testing and commissioning of service.
- Co-Ordinated Design & Installation of Underground 11kV HV Switchboards
- Design & Installation of Switchboard stand to accommodate UG Switchboard installation.
- Installation, termination & commissioning of 11/22kV HV cable Underground.
- Install and Upgrade to Surface Vent Fans HV Feeder.

PROJECT CHALLENGES

- Environmental influences impacted on a number of occasions. Extreme temperatures, extreme rain events causing flooding and impacting civil works.
- Co-Ordination of main stakeholders, Essential Energy, CSA & scope work activities, all with different schedules, time frames & impacts, particularly when shut downs are involved.
- Procurement of materials required fore planning well in advance of normal practice given the remoteness of the site and lead time for materials.
- Transportation and assembly of HV Switchgear Underground.

PROJECT SPECIFICS

- 800m of 3c x 400mm² 11/22kV SWA Cable
- 900m of 1c x 630mm² 11/22kV SWA Cable
- 259 HV Cable Terminations 300mm² to 630mm²
- 18 HV Switch Board Sections

