

WHITEHAVEN MINE NCO NARRABRI 66KV EXTENSION



CASE STUDY



fast facts:

JOB SIZE: 3 Poles, 1 H Structure

JOB STATUS: Stage 1 of 3

LOCATION: Whitehaven Mine, Gunnedah NSW

CUSTOMER: Curry Power

PROJECT OVERVIEW

Located 17km southeast of Narrabri Shire, the Whitehaven mine has become a vital source of employment for a significant portion of the local population. This employment rate is projected to grow even further with the upcoming mine extension. The primary objective of the Narrabri Stage 3 Extension project is to expand the existing Whitehaven coal mine south, effectively extending the mine's operational lifespan by over a decade.

As part of this extension, the implementation of a new 66kV powerline and fibre optics infrastructure is essential to provide reliable power supply to the expanded mine site. Summit Power was tasked to provide essential powerline hardware to Curry Power for this endeavour. This included providing a thorough material take-off as well as supplying the complete range of powerline hardware, conductor, and OPGW (Optical Ground Wire) needed for the project.

By delivering a comprehensive suite of powerline solutions, Summit Power play a crucial part in ensuring the successful development and efficient functioning of the extended Whitehaven mine.



SPECIALIST MATERIAL SUPPLY

Thanks to Summit's exclusive access to a vast global network of suppliers, we have the unique advantage of offering a comprehensive range of materials for powerline construction. Our extensive inventory allowed us to swiftly assemble kits and promptly dispatch the necessary materials, even when faced with tight deadlines. This enabled us to deliver on time, ensuring a smooth site experience.

The materials Summit Power supplied to Curry Power included:

- .132kV Insulators
- .6km Neon Conductor (stage 1-3)
- .OPGW
- .OPGW fittings
- .Fibre fittings
- .Custom bracketry
- .Stay Equipment - stay wire, anchor rods etc
- .ABS Structures
- .Earthing - Earth mats, earth cable, earth rods etc.
- .Vibration dampers



Problems

The project specifications required 96 core OPGW, which had a 12 week lead time. This would delay Curry Power's tight construction time by a significant amount.

Solutions

Summit Power worked with the project engineer to spec in dual 48 core OPGW, which could be completely sourced from the Summit Power warehouse stock hold.



For over 10 years Summit Power have been our leading supplier of powerline products for both the energy authorities and private HV customers. Their service and reliability is integral to the success of our business.

Tim Curry
Owner of Curry Power

