

# Moranbah North Coal Mine Lighting Enclosure

## Customer

AngloAmerican's Moranbah North Coal Mine, Qld, Australia

## Background

Moranbah North Coal Mine is situated in the Bowen Basin at Moranbah in Central Queensland. The mine has coal reserves amounting to 261 million tonnes of coking coal, one of the largest coal reserves in the world.

In order to maintain area lighting, development substations were being left in mined panels, requiring the purchase of additional substations.

## The Solution

Ampcontrol designed and manufactured a fit for purpose 11kV to 110V lighting enclosure to facilitate extra lighting along with 110V circuit connections for the site. Moranbah North was looking for a cost effective lighting option.

This solution provides the means to maintain the power to the lighting at a much lower cost than that for a typical substation. The installation of the 11kV to 110V lighting enclosure also freed up a development substation so it could be used the purpose for which it was designed.

## Challenges

Although the project itself was reasonably straightforward to complete, some challenges were encountered in installing the two 11kV adaptors in a smaller enclosure.

However, with a good design review, the team was able to offset the entries, ultimately resulting in no installation issues.

## The Result

Ampcontrol successfully manufactured a fit for purpose lighting enclosure that would provide facilities for 110V circuits to be installed on site as part of the 11kV installation system at Moranbah North Coal Mine.



↓ Reduced costs with this  
11kV to 110V lighting  
sub

