



# Mineglow improves safety of longwall change-out with portable LED strip lighting solution



## REGION

NSW,  
Australia



## COMMODITY

Coal



## MINE TYPE

Underground  
Longwall Mine



## SOLUTIONS

60-36V Long Range  
LED Strip



## METRES SUPPLIED

160m



## Challenge

Underground longwall mining operations present some of the toughest working conditions, due to the confined space, large machinery and a lack of adequate lighting.

In preparing for a longwall change-out, the underground coal mine required a flexible, low-profile, robust lighting solution that would provide continuous “daylight” illumination across the entire longwall face. It was also required that the mine would be able to easily transport and re-use the lights for future longwall change-outs.

The mine had previously relied on fluorescent tube lighting, which were inadequate, difficult to maintain and often damaged during the relocation of heavy equipment. Underground mine personnel relied mainly on their cap lamps to carry out work and as they moved around the mine which presented safety risks.

## Requirements

- Highly portable for re-use
- Easy to install and uninstall for future use
- Durable and flexible lighting solution
- Low profile and low maintenance
- Robust to withstand knocks during equipment relocation
- Easily repairable if damaged
- Provide a high level of illumination
- Enhance visibility for a safer working environment

## Solution

Mineglow worked with the mine to have 160 meters of the x-Glo 60-36V DC LED Long Range (LR) lighting strip installed. 120 metres of the 60-36V LED strip lighting was installed along the longwall face, with the remaining 40 metres installed in the Beam Stage Loader (BSL) installation area.

The portability of x-Glo's LR LED strip lighting allows the mine to easily install and relocate the LED strip lights for future longwall change-outs or to other areas of the mine.

The x-Glo 60-36LR LED Strip Lighting delivers daylight (6500k) white light that provides a 180-degree of lighting, removing dark spots and shadowing where the teams are working. This creates a safer and more productive environment for the underground team.



**Image:** The extra thick copper backbone of the Long Range, x-Glo solution delivers continuous run lengths of up to 168 metres. [LEARN MORE](#)

## Contact us today

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Mineglow is the exclusive Asia Pacific distributor for x-Glo LED strip lighting **x-Glo**

[mineglow.com.au](http://mineglow.com.au)

## Results

- ✓ Less downtime of the longwall
- ✓ Higher standard of illumination
- ✓ Improved health, safety and wellbeing
- ✓ Increased productivity
- ✓ Reduced risk of asset damage
- ✓ Lower operational costs
- ✓ Improved energy efficiency

## Outcome

The Mineglow LED strip light solution provides continuous illumination across the entire longwall face, vastly improving site safety, productivity and visibility while reducing assets from damage during relocation. Due to the success of the LED lighting installed for the longwall change out, the mine has standardised on the x-Glo LED strip lighting for other areas of the mine such as underground intersections and cable storage units. The mine has been able to improve illumination, leading to increased well-being, safety and production.

“Mineglow’s LED strip lights were exactly what they were described to be – high quality, robust, easy to install, uninstall and reuse. Not fragile – a usable and cost-effective product.”

**- Longwall Engineer**