

Case study: Bloomfield Collieries



Energy: LED



Industry: Industrial

The Bloomfield mine is one of the Hunter Valley's oldest, continuously running open-cut operations which, through steady growth and innovation, continues to produce quality coal products.

Background

Bloomfield Collieries wanted to upgrade to LED at their coal mining site in Ashtonfield to improve lighting quality and reduce energy and maintenance costs. It is also an important part of their environmental sustainability contributions. Shine On was selected due to the overall quality of our offering. In particular, quality products backed by long term warranties, a full turnkey solution, references from other large projects completed in the area and a locally available team.

The project

Prior to finalising the project, lighting designs and trials were undertaken to ensure everything would be completed to their requirements. Floodlights and highbay fittings were then installed in the main workshop, as well as floodlights in the carpark and highbays in the storage areas.

Results

The mine site is now saving 78% on their annual lighting energy costs with a payback period of only four months! They have found the new LEDs to be a massive improvement in terms of quality of light across all of the areas that have been upgraded.

Results

Energy savings	78% reduction
Payback period	4 months
Annual lighting energy saving	210,547 kWh
First year return on investment	321%
Greenhouse gas reduction	200.02 tonnes per annum
Total 10 year saving	\$431,210

Energy efficient products used

Product	Quantity
Shine On Orbon Mk3 LED Floodlight	38
Shine On H-Flux Mk4 LED Highbay	29

"The Bloomfield Group would like to thank Shine On for the pleasurable experience to our worksite. The process from start to finish was managed in accordance to our business plan and was executed on time, on budget and within spec. As a result of the upgrade we were able to reduce our carbon footprint, increase our lighting output and reduce electricity usage by 77% with a ROI within 4 months.

We thank Shine On for their efforts and look forward to them providing us a service again in the future."

Brendon Avery
Electrical Supervisor, Bloomfield Collieries

Energy savings (kWh)

