



ENERGY CONSERVATION/CASE STUDY

## LEDs a Clear Advantage in Distribution Centre Lighting Upgrade

Equipment Upgrade

**Lighting**

Annual Energy Savings

**\$334,000**

Certificate Value

**\$175,000+**

Project Payback Period

**1.1 years**

### PROJECT OVERVIEW

Metcash is Australia's leading wholesale distribution and marketing company specialising in grocery, fresh food, liquor, hardware and automotive parts and accessories. The company's massive Huntingwood NSW distribution centre in Western Sydney comprises more than 77,000 square metres of ambient and temperature-controlled warehouse storage areas and 5500 square metres of corporate office space.

### PROJECT CHALLENGES

- Reduce energy consumption
- The ongoing cost of inefficient energy consumption, globe replacement and maintenance
- Rising costs associated with increasing electricity prices
- Improving lighting levels both inside and outside of the site
- Maximum return on investment from reducing energy expenditure
- Installation of a large quantity of lights expanding over a large footprint with minimal interruption to the day to day running's of the facility

### PROJECT SOLUTIONS

- 5500 300kW T5 fluorescent tubes were replaced with 900 115kW LED High bays - 70% of the fixtures having integrated motion detecting lights to enable "on demand" lighting when an area is vacant across 77,000m<sup>2</sup> of floor space.
- Outdoors, replacing the metal halide floodlights with LEDs has reduced the full power drain from 16.8kW to 9.6kW
- The cost of purchasing and installing energy efficient lighting was significant offset by the upgrade through the financial reward generated from the energy savings certificates

**ENERGY**  
CONSERVATION

Your Partner in Energy and Waste Efficiency

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