



LIGHTING  
EFFICIENCY  
UPGRADES

## Warehouse, Office & Area Lighting Upgrade

Yusen Logistics Dandenong South, VIC

The lighting throughout the warehouse and offices was especially dim and in need of replacement to meet safe working requirements. By improving their light levels, Yusen also significantly reduced their electricity usage.



*Continually improving  
your lighting experience*

*“ We have seen a fantastic difference in the new lighting levels which was clearly illustrated to us during the installation where a photo was taken of two aisles side by side with one aisle upgraded and the other not. I can also say now having had our first electricity bill since the upgrade, that the usage costs have reduced by more than half. The upgrade will soon pay for itself. ”*

Dean R. Ashford, Yusen Regional Manager VIC/SA

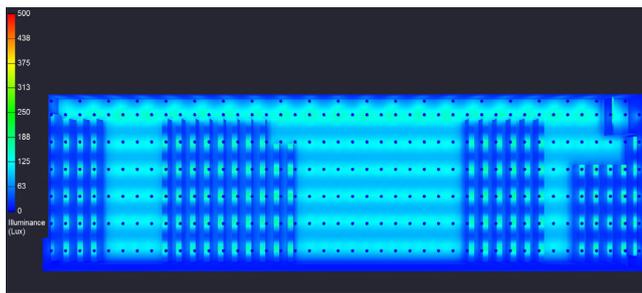


Warehouse after the installation

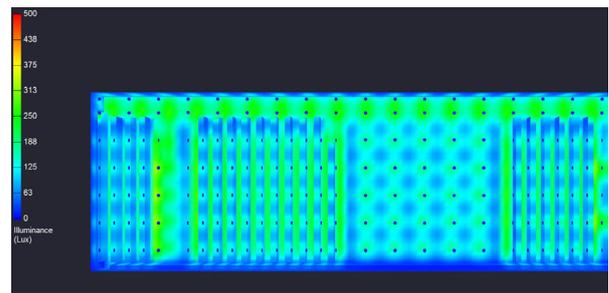


Left aisle shows existing lighting quality, new lights are installed on right

## Warehouse Lux Map Readings



Lux map readings indicate an average of 92 lux before installation



Lux map readings indicate an average of 191 lux after installation

## Summary

**>239,851**  
kWh  
ANNUAL  
SAVINGS

**>\$63,370**  
TOTAL ANNUAL  
SAVINGS

**77.5%**  
ROI

**1.2**  
year  
PAYBACK

**71%**  
ENERGY USAGE  
REDUCTION

## Opportunity

Yusen Logistics Australia is a leading provider of supply chain and transport solutions.

The Lyndhurst VIC facility is Yusen's second site that Aglo has efficiently upgraded the lighting for, having already completed the Wetherill Park NSW project. Throughout the warehouse, offices and outdoor areas the old 400W metal halide highbays and fluorescent lighting had significantly passed their use by date. The illumination levels they provided were inadequate for the task.

## Solution

As part of the building assessment and site audit, Aglo Systems provided a new lighting design for the 15,300 m<sup>2</sup> warehouse using energy efficient LED fittings with a 50,000 hour lifetime. 150W Europa Linear Highbays were used in the racking area which provide a long and wide beam spread and required 50 fewer fittings to cover the same area in comparison with the previous, round highbays. 150W Galaxy Highbays were used in the general warehouse areas.

In a 2nd stage the lighting for the rest of building from reception and offices, corridors, bathrooms, product assembly work areas, loading dock canopy and car parks were all upgraded to energy efficient LED fittings. All fittings were approved for VEET government rebates.

## Benefit

The average lux levels within the warehouse more than doubled from 92 lux to 191 lux after the retrofit. The ground floor of the office building increased from 300 lux to 513 Lux, and the 1st floor from 332 lux to 543 lux, thus providing a much safer, brightly illuminated facility.

The lighting upgrade reduced maintenance overhead and almost \$60K p.a. in reduced electricity bills for the warehouse alone. The VEET scheme generated \$44k in rebates, discounted off the cost of the project.

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