



# DELIVERING THE GREEN MESSAGE

## CASE STUDY



## DHL Australia

**LINK ROAD,  
MELBOURNE  
AIRPORT  
BUSINESS PARK**  
VICTORIA

DHL's new facility in Tullamarine utilises a complete ECS Managed Lighting System to control the office lighting, and energy efficient ECS Altitude T5<sup>®</sup> fluorescent light fittings in the warehouse.

DHL recently expanded operations by constructing a new facility in Tullamarine. The new building incorporates a multi-level office space with a large 10,000m<sup>2</sup> warehouse attached.

The project involved design, documenting and commissioning of an ECS Managed Lighting System and efficient Altitude T5<sup>®</sup> fluorescent fittings.

ECS support throughout the construction and installation stage ensured the project ran smoothly and on schedule.

ECS congratulates DHL on its commitment to sustainability and we look forward to working closely with DHL on future projects.

### KEY OUTCOMES

20% ENERGY SAVING WITH NEW ENERGY EFFICIENT 6 X 54W ALTITUDE T5<sup>®</sup> FITTINGS

REDUCED MAINTENANCE COSTS WITH LONGER LASTING FIXTURES

COMPLETE INTEGRATED MLS LIGHTING CONTROL SYSTEM WITH AV INTERACTION

### KEY SOLUTIONS

A COMPLETE AUTOMATED FACILITY WITH NO SWITCHES FOR LIGHTING

INCREASED LIGHTING LEVEL IN WAREHOUSE WITH FIXTURES INSTALLED AT 12m MOUNTING HEIGHTS.



## ECS Support

“The support provided by ECS within the time frame of the project, particularly design and commissioning, allowed for a smooth transition on installation.”

Helen Kavanagh , Property projects manager



### Efficient Lighting & Controls

Lighting throughout the facility is automatically controlled via an ECS MLS Lighting Control System, removing the need for staff to manually control lighting.

A direct one-for-one replacement of existing designed 400W metal halide high bay fittings with ECS 6 x 54W Altitude T5® fixtures gives a guaranteed 20% energy saving. By using a Miro 4® reflector with reflectance efficiency of 94.2% at a surface to mounting height ratio of 0.7, these fittings were mounted at a 12 metre mounting height with 10 metre spacing between.

A commitment of an average maintained 160 LUX level was required for the warehouse space with instant strike up ability. Initial light levels are in excess of 230 LUX with a designed average maintained level of 176 LUX over a 24000h life span. Furthermore, multiple high output T5 temperature-optimized lamps have no warm up or cool down period allowing for instantaneous switching.

“Lighting throughout the facility is automatically controlled via ECS MLS Lighting Control System, removing the need for staff to manually control lighting.”

Front Image | DHL Tullamarine facility, Tullamarine, Victoria  
1 | MLS PIR detector used in a DHL boardroom  
2 | Lights only operate in occupied office space  
3 | Front view of the DHL offices  
4 | MLS microwave detector, located in a ceiling tile  
5 | DHL warehouse lit with ECS Altitude T5® light fittings  
6 | ECS Altitude T5® light fitting  
for contributing to helping the environment