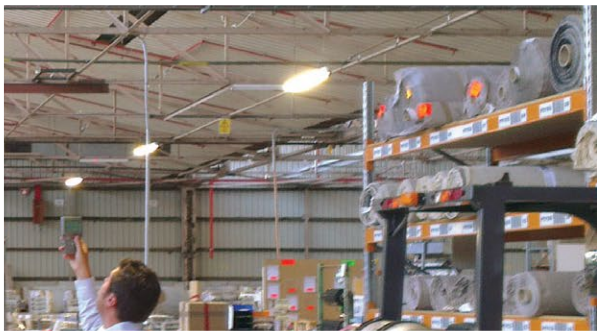
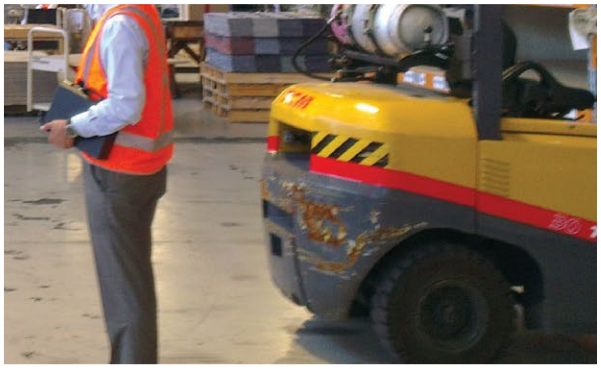
PROJECT PROFILE

Energy Conservation Solutions
'our promise, you'll save'

Godfrey Hirst – Samples Factory – Geelong South, VIC

INDUSTRY





RETROFITTING WITH ENERGY EFFICIENT ALTITUDE T5 LIGHTING + OCCUPANCY SENSORS

PROJECT OVERVIEW

Project Type
Energy efficient lighting and controls

Solution Overview
Altitude T5 Slimline fluorescent lighting retrofit replacement luminaires

Equipment Installed
Altitude T5 Slimline fluorescent luminaires with added PIR occupancy detectors

CUSTOMER BENEFITS

- Significant energy savings
- High-efficiency T5 luminaires
- PIR occupancy detectors utilising daylight harvesting for added savings
- Reduced maintenance costs with longer lasting fixtures
- Increased lighting level in warehouse and work areas
- A complete automated facility

As part of their internal energy efficiency program, Godfrey Hirst put down the challenge to maximize their luminaire energy savings within their large factory in Geelong South. Three separate factory areas required unique solutions, covering both day and night operation.

Storage Area

- Infrequently used, with plenty of daylight and lights to switch off after a set time period.

Walkways/Forklift areas

- Plenty of daylight available in areas not to be switch off and to maintain a minimum light level during the day. During the evening to dim to a pre-determined light level if the area was not occupied;
- In other areas where the requirement for light was only when the area was occupied for both the day and night.

Work Areas

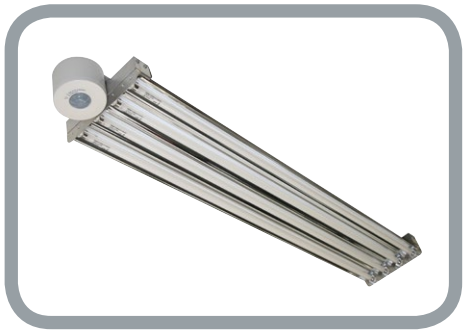
- Plenty of daylight available areas not to be switch off and to maintain a minimum light level when occupied however when the area was not occupied the luminaires needed to dim to a predetermined value.

Godfrey Hirst also required a long lamp life and a programming solution that did not require an expert to be called out when a program change was required.

Warehouse lit with Altitude T5 Slimline luminaires fitted with light-harvesting occupancy sensors

Lessons & Outcomes

PIR Occupancy detectors were fitted onto each Altitude T5 Slimline luminaire to make use of daylight harvesting, giving added savings as lights automatically dim or turn off if sufficient natural light is present.



Altitude T5 Slimline Luminaire + PIR detector

SOLUTION OVERVIEW

The Altitude T5 range was a perfect fit. We were able to fulfil all of Godfrey Hirst requirements by utilising the vast Altitude T5 range, its options and combinations.

We chose the Altitude T5 Slimline with Dimming Ballasts and the Ex-Or Mid-Bay detector which offered Occupancy Detection, Daylight Harvesting and the Dimming Control all in the one system, as well as an extended lamp life of 24,000 hours.

The Altitude T5 and the Ex-Or system gave the flexibility Godfrey Hirst required. We were able to maximize the use of the natural daylight on offer and program the detector so that it incorporated the occupancy and the dimming functions to meet all the demands of Godfrey Hirst. This ensured that the maximum amount of energy savings was achieved. Our HP2000 hand held programmer completed Godfrey Hirst's specifications ensuring an easy way of programming and reprogramming was at their finger tips.

THE RESULT

Godfrey Hirst has made available the result both pre and post installation.

The difference in the initial startup currents (Combined) between the 400w metal halide and the Altitude T5 Slimline units was a saving of 52%. Then with the introduction of the daylight harvesting this increased the savings up to 74%.

Greatly reduced maintenance costs will be achieved due to the long lamp life in the Altitude T5 Slimline, compared to replaced the 400w metal halide lamps.

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