

Case Study: CTY Envirotech - Lighting Energy Efficiency Upgrade in Commercial Buildings

Project Manager: CTY Envirotech, an Accredited Certificate Provider, under the Energy Saving Scheme, was requested to provide an energy efficiency upgrade package.

Site location : Strata Apartment Building, St Leonards, NSW.

Installed in Common Areas: Carparks, lobby, level corridors and firestairs

All incumbent lighting equipment was upgraded to state-of-the-art LED technology with occupancy and dimmable sensors to minimise energy wastage.

20 W infra sensor, dimmable LED Tube to replace 36 W linear fluorescents
 18 W LED Emergency sensor light to replace maintained linear fluorescent tubes
 7W LED downlights to replace 35W halogens
 32W LED lamp, IP65, to replace circular fluorescents
 15W Oyster dimmable light, to replace circular fluorescents

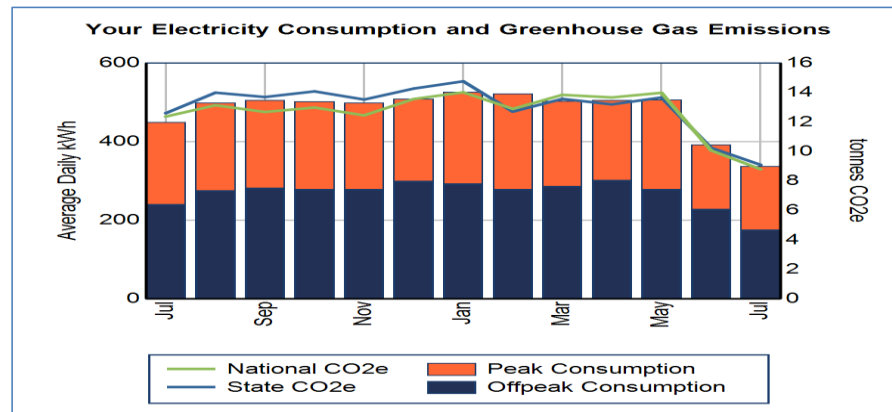
CTY Envirotech was closely engaged with the Customer , Suppliers and Installers.

The favourable outcomes were a significant energy savings of 94 % in lights i.e. about \$18,000 per year and recovery of these investments within 1.5 years.

Moreover, there was satisfactory feedback from the Apartment Residents on the improved output quality and consistency of the new lights.

Total costs of project	\$27,155.00
Energy Saving Certificates	\$5,400.00
Total savings (power and maintenace savings) /yr	\$17,769.00
Payback period/ yr	1.53 years
Power savings (MWh/year)	60
Power savings (%)	94%

The Diagram below shows the reduction in electricity consumption and the greenhouse gas emmsissions (extracted from electricity bill) due to the new installs of energy efficient lights.



Note: site visit / validation available on request to CTY Envirotech