

Toll Group

Mackay, Bundaberg, Gladstone

INDUSTRIAL SECTOR

NuGreen Solutions were engaged to provide complete LED retro fit solutions for three of Toll NQX's Northern QLD depots ; Mackay, Gladstone and Bundaberg.

The rollout would entail redesign of the current Warehouse lighting where inefficient 400 Watt Metal Halide lighting would be replaced by a range of LED Highbays between 90 and 165Watts. In all instances NuGreen were able to optimise the design so that not only did the wattage reduce but overall numbers of fittings were reduced to further improve the energy savings. The design review also Photo Electric (PE) cells which were installed to control all the lights based on the available ambient light, which would ensure that the lights are off when the lux levels are sufficient. Lux levels were dramatically improved across the three sites and ensured full compliance AS 1680.

Office lighting, external flood lighting and general area lighting completed the balance of the upgrade, in most cases the lights were upgraded on a one for one basis with equivalent LED Fittings achieving a average saving of 55% in some cases up to 90% on downlight replacement.

KEY OPPORTUNITIES FOR THE LED REPLACEMENT

- Save money through reduced electricity bills
- Reduced CO2 emissions for smaller carbon tax impact
- Zero maintenance costs over our guarantee period
- Better visual lighting environment
- No capital required for the LED upgrade
- Improvement of the site safety
- Use of the latest lighting technology for smart business
- Ability to market a 'Green' business to clients
- Future proofing business around rising energy cost

KEY METRICS OF PROGRAM	MACKAY	BUNDABERG	GLADSTONE
Projected savings on current lighting spend	66%	70%	70%
Projected savings over 10 years	\$530k	\$138k	\$80k
Onsite maintenance free period	7 years	7 years	7 years
Tonnes of CO2 saved for the life of the program	1100	300	200
Annual cost of waiting if not undertaking current proposal	\$53k	\$14k	\$8k

(Average over 10 years)

