

Case Study

VICTORIA UNIVERSITY, VICTORIA

CHALLENGE

Following an energy audit conducted in the second half of 2006, Victoria University (Vic Uni) identified a number of opportunities to significantly reduce its energy consumption. One of those opportunities related to the replacement of existing 36W T8 fluorescent lamps across six campuses with more efficient, latest technology 28W T5 electronic fluorescent lamps. Lighting typically accounts for around 25% of total electricity consumption in a commercial environment and savings can quickly be realised through lighting upgrades.

Converting to the shorter T5 electronic fluorescent lamps would normally require existing magnetically ballasted T8 fittings to be replaced.

SOLUTION

Save It Easy® solution was presented as a viable alternative for less than a third of the cost.

Project teams were set up at each campus and the Save It Easy solution implemented in stages to fit in with campus activities and take advantage of campus vacation periods.

Using Save It Easy, Vic Uni was able to retrofit T5 tubes into all of the old T8 fluorescent lam luminaires.

The Save It Easy solution required no replacement of light fittings, no re-wiring of existing fittings and was completed with minimal delay and disruption. Installing Save It Easy was as simple as re-lamping the old T8 fittings.

RESULT

As a result of the upgrade, Vic Uni gained at least a 25% energy saving on their fluorescent light costs. At one campus a comparison of their electricity bill over two corresponding periods, 12 months apart showed a reduction in cost of 11% of the total electricity consumption.

This initiative has also resulted in significant reductions in greenhouse gas of approximately 477 tonnes of CO2 equivalent per year, and generated a payback in less than four years.

Approximate annual savings	\$73,700
Approximate investment	\$250,000 including T5 lamps
Approximate payback	41 months
Greenhouse gas savings per year	477 tonnes CO2 equivalent



TOWARDS A MORE SUSTAINABLE WORLD