CASE STUDY

Product: *ecoBright® T5 Adaptor and ecoBright® R4 6W LED's*
Customer: *Melbourne Zoo*
Customer Contact: Available on request
Location: *Elliott Avenue Parkville VIC 3052 Australia*
Investment: *AU$10,700*
Annual Savings: *AU$5,600*
Return On Investment: *53% (simple payback = 1.9 years)*
Greenhouse gas savings per year: *27 Tonnes of CO_2 equivalent*

Multi-product Solutions!

Project Description:

The Melbourne Zoo (the Zoo) is one of the most environmentally conscious zoos in Australia. With a goal to be carbon neutral by 2012 the Zoo has already made significant gains in water conservation, energy use reduction and the use of renewable energy.

Through leadership by example the Zoo has shown they are willing to implement innovative, results-driven energy saving technologies. Enter the ecoBright® R4 LED range of downlights which attracted the eye of the Zoo's sustainable solutions evaluator, during a visit by Bryan Evans, BDM (VIC) for ecoBright®.

"When we presented the R4 LED & T5 adaptor solutions, the Zoo was keen to realise the savings potential for their retail shops", explained Bryan. "The shop had T8 fluorescent lamps and heat generating halogens all clustered in a confined area. Due to long operating periods, excessive heat build up led to halogen lamps failing continuously, increasing maintenance costs".

Part of the product display setup in the Zoo's Retail stores - the ecoBright® R4 LED solution is seen easily retrofitted into existing Halogen fittings.

"Our R4 LED solution replaced the halogens, reduced the heat and saved over 80% on energy costs. Zoo staff have actually preferred the LED's over the halogens…".

Zoo staff have also commented on a noticeable reduction in maintenance costs and that light quality has "not changed".

Another area within the Zoo's Retail store showing the T5 and LED solutions working together to produce better lighting and big energy reductions.

Zoo staff reported that "*...lights are more pleasing and the product doesn't get washed out. People working in the shop prefer the light output now".*

Commenting on the ease of installation, Zoo staff advised that *"...even during the installation, you don't want the shop to be disrupted, yet the product was obviously very easy to install, as sparky's were in and out very quickly."*

Since the lighting upgrade, solar panels with a capacity to generate up to 4kW have been installed for one of the Zoo's retail stores.

With the installation of ecoBright®'s R4 LED and T5 Adaptor technology, total energy consumption is less than 2 kilowatts for that store, and energy is now being exported back into the grid - a great result and just the beginning!

Contact us at:

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Product Safety
Approval Code : **NSW21227**
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EEI rating = **A2 Electronic Ballast**
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