

CASE STUDY

Product: Light Eco® 2.4 & 3.8

Customer: Royal Perth Hospital

Customer Contact: Available upon request

Location: Perth Western Australia

Investment: AUD\$59,000

Annual Savings: AUD\$33,500

Return On Investment: 60% (simple payback = 21 months)

Greenhouse gas savings per year: 377 Tonnes of CO₂ equivalent



Project Description:

Royal Perth Hospital's (RPH) engineering staff highlighted the hospital's fluorescent lighting as a major area for conservation with the aim of providing at least a 25% saving. They chose lighting as they recognised that it significantly contributed to operating costs and through the use of technology such as Light Eco®, was relatively easy to reduce energy consumed.

In choosing Light Eco® RPH recognised the vital importance of having a fail-safe product in the hospital controlling the operation of its lighting. Light Eco® is the only product of its type which constantly monitors current and voltage and immediately switches to full power if a critical drop or surge in power occurs, preventing brown out, blackout or a critical lighting failure.

A pilot installation of Light Eco® units was completed and the reduction of energy consumption monitored. This pilot led to a comprehensive installation of Light Eco® where over 100 units were installed.



Site Description:

The Royal Perth Hospital traces its history back to the first colonial hospital which was established in a tent on Garden Island just off the West Australian coast.

Today the hospital is located at two sites Wellington Street in the heart of the city of Perth and at Shenton Park an inner western suburb of Perth. A modern hospital with many areas of specialization, RPH is also a fully accredited teaching hospital. Their motto "Servio" bears testimony to a long tradition of excellence in service to patients.

The annual electrical energy consumption on lighting at RPH is approximately 1,250MWhr at a cost of \$100,000 from a total annual electricity spend of approximately \$400,000. Light Eco® units extend the life of electromagnetically ballasted T8 fluorescent tubes by 30% increasing maintenance periods and runs them on average 2°C cooler, creating air conditioning savings.

RPH monitors their energy savings and have found they exceed the 25% minimum guaranteed.



The information in this Case Study is for the use of ecoBright® customers. For advice or more information on ecoBright® products and applications please contact staff at:
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