

## CASE STUDY

**Product:** Light Eco® 2.4

**Customer:** Sydney Opera House Car Park

**Customer Contact:** Available upon request

**Location:** Bennelong Point, NSW Australia

**Investment:** \$15,000

**Annual Savings:** \$17,900

**Return On Investment:** 150% (simple payback = 9 months)

**Greenhouse gas savings per year:** 200 Tonnes of CO<sub>2</sub> equivalent



### Project Description:

A recognition that lighting energy represents a significant portion of operating costs, highlighted lighting as a major contributor to energy consumption (>33% of the site) that can effectively be controlled by the Light Eco® 2.4 economiser.

This resulted in one floor being installed in January 1998 and the reduction of energy consumption monitored. A commitment to complete the installation was made in March and completed in April.

This project was funded entirely by Enacon Parking Pty Ltd as owners of The Sydney Opera House Car Park. Energy savings and resultant expenditure are now being regularly monitored.

### Site Description:

The Sydney Opera House Car Park is an energy intensive facility covering quite an extensive underground area of 11 floors. 1100 cars can be parked daily.

The major energy installations are the 3 individual air-recycling units and the fluorescent lamps on each of the 11 floors. As the carpark is underground and thus below sea-level, each lamp is sealed and waterproofed. Enacon Parking insisted that the efficacy of the lighting system remain the same and that any change not increase the temperature of the lamp or fittings.

Our measurements post installation showed a lower average temperature of 2°C. Annual electrical energy consumption on lighting was approximately 700MWhr at a cost of \$60K from a total annual electricity cost of \$180K.



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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