



STATE LIBRARY OF NEW SOUTH WALES

Guaranteed Energy Savings

CASE STUDY



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After a simple walkthrough audit identified potential for significant energy savings from lighting and air-conditioning upgrades in the State Library of New South Wales, the initial response was, “Great idea, but we don’t have the money”.

Now all the upgrades have been completed, the Library is able to enjoy the immediate benefits of new equipment thanks to an Energy Performance Contract which guarantees a minimum level of savings each year. These savings more than cover repayments of the loan which financed the capital works. And once the loan is repaid, the savings will be available to the Library to further enhance its facilities and services.

“The Energy Performance Contract has allowed us to implement a range of improvements which will benefit the library and its users as well as save on energy bills. And the guaranteed savings mean there’s no risk to Treasury, who provided the financing.”

*Jim Sinclair;
Energy Manager, State Library of NSW*

The main opportunities for saving on lighting energy were in minimising over-lighting and using controls to turn off lights when they weren’t required. Jim Sinclair stated, it was important that appropriate lighting levels be maintained in office and public reading areas.

With over 10 years experience in lighting and control system design, Energy Conservation Systems (ECS) were awarded the sub-contract to carry out the design, installation, and commissioning of the lighting control system.

An impressive 473,000 kWh were saved following the lighting upgrade, providing a windfall in excess of \$27,000 per year.

KEY OUTCOMES

GUARANTEED SAVINGS:
\$104,000 PER ANNUM

TOTAL SAVINGS:
\$229,000 PER ANNUM

GREENHOUSE GAS SAVINGS
988 TONNES CO₂ PER ANNUM

KEY SOLUTIONS

- AN EPC FEATURING:
- LIGHTING CONTROLS
 - HVAC UPGRADE
 - WATER SAVINGS



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