

EFFICIENT DESIGN RENEWS CONFERENCE CENTRE HILTON SYDNEY



Key Outcomes

Hilton Sydney installed premium Zumtobel LED downlights to achieve significant annual electricity and maintenance cost savings, with Energy Savings Certificates offsetting more than 22% of project costs.

- 💰 Over 233 MWh and \$35,000 in electricity saved per year *
- 💰 Significant reduction in ongoing maintenance costs
- 💰 Over \$23,000 in ESCs to offset project costs by over 22% & cut simple payback by 8.5 months *
- 💰 Improved aesthetic appearance showcasing a premium conference room/ballroom

*Based on 15c/kWh electricity price.

Overview

Hilton is an internationally renowned hotel chain with locations in numerous iconic global destinations. Hilton Sydney champions this illustrious reputation with heritage-listed architecture, stunning views and an exceptional CBD location. The purpose-built conference and function centre spans 4 floors, features state of the art technology and AV equipment and is one of the country's most versatile event spaces.

Contributing to that versatility are numerous powerful downlights that can provide bright ambient light or be dimmed for a more intimate atmosphere. With the existing downlights aging and depreciating in light output, Hilton Sydney engaged Energy Conservation to facilitate performance-based lighting design, government approval of light fixtures and creation of Energy Savings Certificates to support their upgrade to more energy-efficient lighting.

The Challenge

- Ongoing cost of inefficient energy consumption, globe replacement and maintenance
- Existing lights generating large quantities of heat, presenting additional load to building HVAC
- Elegant location calling for a high-performance lighting design solution
- Custom-made lighting solution requiring approval by the government regulator
- Significant economic and time investment by client seeking first-class results

Contact us

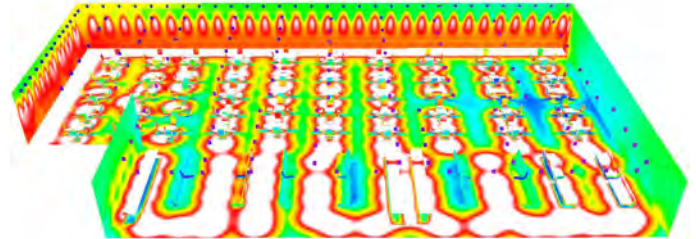
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The Solution

SUPPORTED BY ENERGY CONSERVATION, SYDNEY HILTON GAINED APPROVAL FOR A CUSTOMISED HIGH-PERFORMANCE LIGHTING SOLUTION AND OFFSET PROJECT COSTS BY MORE THAN 22%.

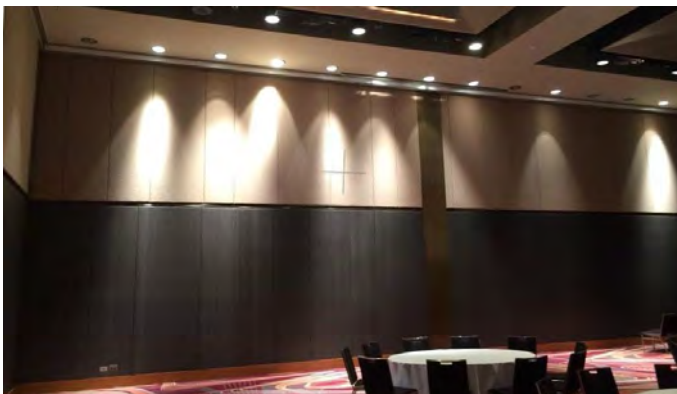
Energy Conservation facilitated the laboratory testing of custom fittings to ensure compliance with relevant standards and had safety certificates issued. We modelled the light output with specialist simulation software to determine satisfactory design performance prior to actual installation, and provided third-party verification of actual savings to be achieved. We were then able to create Energy Savings Certificates for the project in our role as an Accredited Certificate Provider under the NSW Energy Savings Scheme, providing a significant offset to the cost of the upgrade.



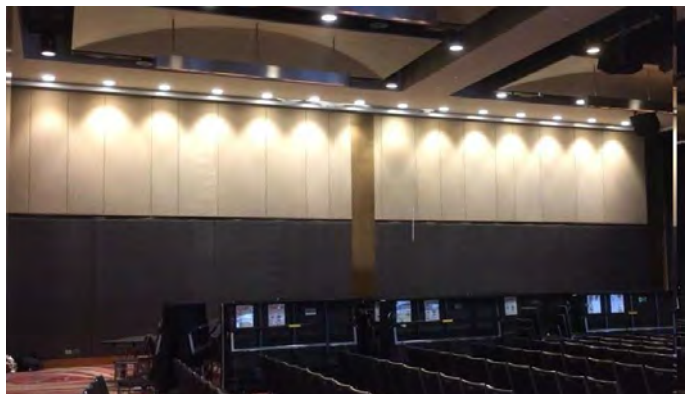
Modelling the lighting design with simulation software allowed our engineers to validate performance prior to installation.

Results

Before upgrade



After upgrade



Testimonial

"Energy Conservation managed the entire process from light testing & approval, to verification, recycling and certificate ceation. I highly recommend Energy Conservation for making the whole project simple!"

Craig Cavers Chief
Engineer, Hilton Sydney

IN ADDITION TO THEIR ONGOING SAVINGS IN ELECTRICITY AND MAINTENANCE, HILTON SYDNEY SAW UPGRADE COSTS SIGNIFICANTLY REDUCED BY SUPPORT FROM ENERGY CONSERVATION.

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