

Case Study - City of Sydney – Town Hall House



World's leading City leads the world

Project Description:

The City of Sydney is arguably one of the world's leading cities blessed with natural beauty and a vibrant populace. It is governed by the Council of the City of Sydney which has embarked on a number of projects to ensure the City leads in areas of energy efficiency and sustainability.

Starting in its own back yard, the City of Sydney has just completed some major projects to upgrade the energy efficiency of many of its depots, community centres and most importantly its own headquarters building, the 23 storey Town Hall House in the heart of the CBD.

The City of Sydney has been a customer of Ilum-a-Lite since 2002 when the Light Eco energy controller system was installed in all underground parking levels. These units have been saving 25% of energy used by the lighting in the carparks ever since and have repaid the investment many times over.

Ilum-a-Lite was selected to partner the City of Sydney with lighting upgrades to a number of sites utilising a Save-it-Easy T5 upgrade. The upgrade was specified by leading Sydney consulting engineers, Cundalls, project managed by the Project Control Group (PCG) with CBD Mechanical and Electrical acting as the prime contractor.

The Save-it-Easy in-line T5 upgrade was specified to retrofit all the old 58 Watt T8 fluorescent luminaires to highly efficient 35 Watt T5 operation with 45% energy saving and consequential reductions in Greenhouse Gas. Many areas were able to de-lamp fittings, sometimes up to 40% while remaining well within Australian Standards for indoor lighting. Most importantly the solution required no replacement of light fittings, no re-wiring of existing fittings and was completed with minimal delay and disruption. The solution was as simple as re-lamping the old fittings.

From initial contract to completion of the upgrades took less than 3 weeks. All sites are now enjoying the advantages of longer life, lower energy T5 fluorescents and significant savings in energy, cost and of course Greenhouse Gas. With the very high level of savings from the upgrade and the low cost of Save-it-Easy the Council can expect a Return of investment that has not been available for T5 upgrades in the past.

Minimal waste was generated and all the old T8 fluorescent tubes were re-cycled. In future years the City of Sydney will further reduce waste as the T5 lamps installed will have double the life of those replaced and only one third the mercury content.

Summary of Results:*

Approximate Annual savings	\$86,000
Approximate Investment	\$150,000 Including T5 lamps
Approximate Payback	21 months
Greenhouse gas savings per year	640 tonnes CO ² equivalent

Further Information: Contact Ilum-a-Lite 1800 133 666 www.ilumalite.com or www.saveiteasy.com.au

*This case study only covers lighting upgrades. City of Sydney did numerous other energy efficiency works as part of the project. For details contact City of Sydney.