

# Case Study

## NSW DEPARTMENT OF ENVIRONMENT AND CONSERVATION

### CHALLENGE

The New South Wales Government is committed to reducing greenhouse gas and reducing energy consumption. To this end the NSW Premier issued a Memorandum in 2004 which committed NSW government agencies to achieve or exceed Australian Building Greenhouse Rating (ABGR) star ratings in occupied premises.

The Department of Environment and Conservation engaged Insight Projects to design and manage the office fit out. Part of that brief was to maximise the energy efficiency of an old building in Dubbo which the Department had leased. Consideration was given to converting the lighting to energy efficient T5 luminaires but this was rejected as being uneconomical.

Faced with the challenge of an old, energy inefficient building and the need to present economically viable solutions, Insight approached Illum-a-Lite to specify lighting upgrades.

### RESULT

It took less than 3 weeks from initial specification to completion of the upgrade. The tenancy now has all the advantages of energy saving, long life T5 fluorescent tubes with added savings in maintenance cycles. Most importantly, it has also allowed the Department of Environment and Conservation to show leadership within NSW Government agencies by improving the greenhouse performance in a new tenancy which, under the Premier's guidelines, they were not obliged to do.

### SOLUTION

The Save It Easy® in-line T5 upgrade was specified which allowed all the old T8 fluorescent luminaires to be upgraded to highly efficient T5 operation with 33% energy saving and consequential reductions in greenhouse gas.

Most importantly the solution required no replacement of light fittings, no re-wiring of existing fittings and could be completed with minimal delay and disruption. The solution was as simple as re-lamping the old fittings.

<b>Approximate annual savings</b>	<b>\$3,300</b>
<b>Approximate investment</b>	<b>\$11,000 including T5 lamps</b>
<b>Approximate payback</b>	<b>36 months</b>
<b>Greenhouse gas savings per year</b>	<b>18 tonnes CO2 equivalent</b>



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