

CASE STUDY

134 WILLIAM ST

LOCATION	SYDNEY, AUSTRALIA
RESULTS	78% CONTROL SAVINGS
CO2 SAVED	190 KG / LUMINAIRE P.A.

THE PROJECT

Organic Response delivered a lighting upgrade solution to the Level 5 offices of 134 William St, Woolloomooloo, Sydney. As well as providing more contemporary lighting for the users by transitioning from T8 to LED technology, the upgrade aimed to identify and quantify the Organic Response savings attributable to the lighting controls, separately from the luminaire upgrade. Each of the following Organic Response features was separately activated, and the impact on energy consumption recorded:

- **Trimming of MaxLight level,**
- **Dynamic Occupancy**
- **Daylight Dimming**

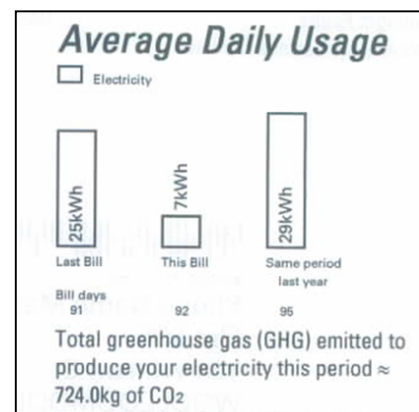
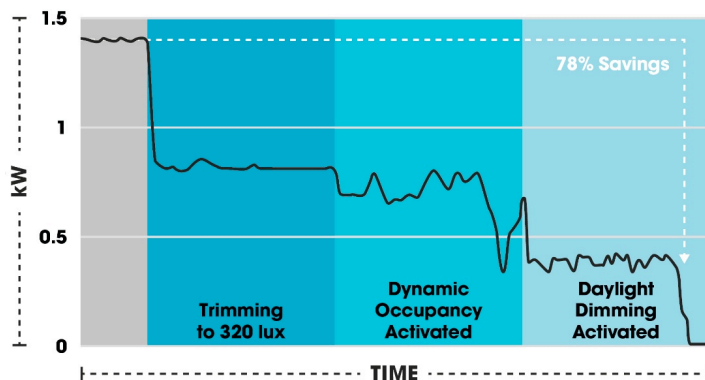
The installation took place in November 2013, taking just 2 hours for two tradesmen to remove the old lights and upgrade to new Organic Response-Enabled Eagle Lighting LED luminaires. The subsequent optimisation process occurred in minutes, not days. Lighting Energy consumption was monitored for 4 months, metered in 5 minute time intervals. The analysis was conducted independently by consultancy firms Team Catalyst (TC) and Light, Art & Science (LAS)

PROJECT DETAILS:	
OPERATION HOURS	70 hours per week
INDUSTRY	Commercial Office
PRE-PROJECT DETAILS	41 x 2x36W T8 Luminaires Consumption = 92W each Controls = Wall Switch
UPGRADE DETAILS	41 x 33W LED Luminaires Consumption = 33W each Controls = Organic Response
LIGHT UPGRADE TIME	2 HOURS x 2 TRADESMEN
DESIGN TIME	0 HOURS
CONTROL INSTALL TME	0 HOURS
OPTIMISATION TIME	0.5 HOURS

THE RESULT

As each feature of Organic Response was activated, the energy consumption of the system reduced dramatically, allowing the lights to respond more intuitively to the occupants and natural light within the space. **Organic Response delivered energy savings of 78%, attributable to the controls only.**

ENERGY SAVINGS DELIVERED BY ORGANIC RESPONSE



The details of this analysis are available through the independent report published by TC & LAS available at www.organicresponse.com.au/resources.