

## The Home Innovations Display Centre Eco Lighting Case Study

### Building, Renovating or Decorating your home? See the light...

#### Case Study Key Findings

- A **47.3%** reduction in electricity for lighting.
- A saving of over **\$3,170** each year on electricity.
- A reduction of **26** tonnes of CO<sup>2</sup> emissions per year.
- On top of that, there are savings of **\$267** each year in maintenance costs.
- A return on investment in two years and eight months.
- Total cost for the retrofit: **\$9,645**

#### About The Home Innovations Display Centre

The Home Innovations Display Centre, located in the Peninsula Lifestyle Centre, corner of Nepean Highway and Bungower Road in Mornington, is open 7 days a week. Home Innovations has 1000's of inspirational home ideas and concepts for people to touch, experience and compare... all under the one roof!



The Home Innovations Display Centre hosts a variety of events, including the Home Innovations Spring Home Show, New Home Builder EXPO, "Your Choices When Building" Seminar hosted by the Master Builders, Interior Design & Decoration Courses, Kitchen Industry Exposed and How To Be A Successful Owner Builder.

#### Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, the Home Innovations Display Centre's annual electricity bill for lighting was **\$6,700**.



### After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at the Home Innovations Display Centre was reduced by **47.3%**. Table One below shows the lights that were replaced during the retrofit, including the details about the globes replaced and the wattage per globe.

Original Item	No.	Consumption Power (W)	Total	Efficient Lighting Replacement Item	No.	Consumption Power (W)	Total
150MH	3	150	450	24w LED Flood	3	24	72
500w QI	4	500	2000	24w LED Flood	4	24	96
Bi Pin 35W	7	40	280	Bi Pin 20W	7	25	175
CFL 15W	7	15	105	CFL 15W	7	15	105
FR GLS 25W	1	25	25	FR LED 3.5W	1	3.5	3.5
Halogen Bi Pin	12	40	480	IRC Bi Pin	12	25	300
MEGA GU10 11W	2	11	22	MEGA GU10 11W	2	11	22
MR 16 50W	146	55	8030	MR IRC 35W	146	40	5840
MR 50W GU10	9	55	495	MEGA GU10 11W	9	11	99
MR 50W GU10	30	55	1650	MEGA GU10 11W	30	11	330
Par 38 120W	3	120	360	CLA Par 38 23W	3	23	69
<b>Total</b>			<b>13897</b>				<b>7111.5</b>

Table One: Original and efficient lighting replacements during the retrofit

Andrew Gorman, General Manager, The Home Innovations Display Centre said, “The lighting changes made during the retrofit have provided a substantial savings on both our energy usage and ultimately our power bill!”

Andrew added, “The changeover from traditional globes to efficient (low wattage) globes, fluorescent and LED options have provided predominantly an unnoticeable replacement.”

The Home Innovations Display Centre has reduced its lighting costs by **\$3,436** a year, with substantially less impact on the environment with a saving of **26 tonnes of CO<sup>2</sup> emissions per annum**.

### About the Eco Lighting for Victorian Business Project

The Eco Lighting for Victorian Business Project aims to demonstrate the latest energy saving lighting technologies to business and organisations. The Project is supported by the Victorian Government Sustainability Fund, managed by Sustainability Victoria.

The Project is funded by the Sustainability Fund with the management being conducted from the Environment Shop. Other partners include the Alternative Technology Association, the Cities of Darebin, Banyule and Hume, Moreland Energy Foundation (MEFL), Northern Area Greenhouse Alliance (NAGA), VECCI Grow Me the Money, Megaman Australia, CLA and Low Energy Developments.

