

Australian Home Brewing Eco Lighting Case Study

Shedding light while brewing beer...

Case Study Key Findings

- A **44%** reduction in electricity for lighting.
- A saving of over **\$752** each year on electricity.
- A reduction of **6.1 tonnes** of CO² emissions per year.
- On top of that, there are savings of **\$206** each year in maintenance costs.
- A return on investment in three and half years.
- Cost of Retrofit: **\$3,343**.

About Australian Home Brewing

Australian Home Brewing supplies an extensive range of premium quality local, imported and specialty ingredients and equipment for brewing beer, wine and making spirits and liqueurs.

Australian Home Brewing has three retail outlets in Victoria; the location of this eco lighting retrofit is the Australian Home Brewing Shop in Oakleigh South, 24 Eskay Road.



Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, the Australian Home Brewing Oakleigh South Shop's annual electricity bill for lighting was **\$1,710**.



After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Australian Home Brewing was reduced by **44%**. Table One below shows the lights that were replaced during the retrofit, including the details about the globes replaced and the wattage per globe.

Location	Original Item	No.	Consumption Power (W)	Total	Efficient Lighting Replacement Item	No.	Consumption Power (W)	Total
Outside Front Building	150w Par 38	1	150	150	23w Par38 CFL	1	23	23
Shop	36w T8 Fluoro	16	40	640	28w T5 Fluoro	10	30	300
Drea's Office	36w T8 Fluoro	2	40	80	28w T5 Fluoro	2	30	60
Passageway	36w T8 Fluoro	4	40	160	28w T5 Fluoro	4	30	120
Shane's Office	36w T8 Fluoro	4	40	160	28w T5 Fluoro	3	30	90
Mail Room	36w T8 Fluoro	4	40	160	28w T5 Fluoro	3	30	90
Meeting Room	50w MR 16	4	55	220	6w MR LED	4	7	28
Hamish's Office	50w MR 16	4	55	220	6w MR LED	4	7	28
Denis's Office	36w T8 Fluoro	2	40	80	28w T5 Fluoro	2	30	60
Workroom	36w T8 Fluoro	10	40	400	28w T5 Fluoro	7	30	210
Changeroom	36w T8 Fluoro	1	40	40	28w T5 Fluoro	1	30	30
Dispatch Room	36w T8 Fluoro	6	40	240	28w T5 Fluoro	6	30	180
Backstore	36w T8 Fluoro	4	40	160	28w T5 Fluoro	4	30	120
Ladies Toilet	11w CFL	2	11	22	11w CLA CFL	2	11	22
Men's Toilet	11w CFL	2	11	22	11w CLA CFL	2	11	22
	60w GLS	1	60	60	11w CLA CFL	1	11	11
Food Room	36w T8 Fluoro	4	40	160	28w T5 Fluoro	4	30	120
Kitchen	36w T8 Fluoro	2	40	80	28w T5 Fluoro	2	30	60
Warehouse	36w T8 Fluoro	18	40	720	28w T5 Fluoro	18	30	540
Fix It Area		1	30	30	28w T5 Fluoro	1	30	30
Coolroom	11w CFL	1	11	11	28w T5 Fluoro	1	11	11
Grinder Room		1	30	30	28w T5 Fluoro	1	30	30
Total				3845				2185

Table One: Original and efficient lighting replacements during the retrofit

Hamish Rogers-Wilson, Business Development Manager at Australian Home Brewing said "Every light globe from the warehouse to the office was replaced during the retrofit". With almost halving our energy consumption for lighting, this retrofit will make a sustainable, significant impact on the environment".

Hamish added, "Another advantage from this retrofit is that the new efficient globes last longer, hence the amount of time we will spend changing light globes in the future will drastically reduce".

The Australian Home Brewing Shop in Oakleigh South has reduced its lighting costs by **\$958** a year, with substantially less impact on the environment with a saving of **6.1** tonnes of CO² 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.

