

Elwood Village FoodWorks Eco Lighting Case Study

It's the little things that make a big difference to customers and the environment...

Case Study Key Findings

- A **42.5%** reduction in electricity for lighting.
- A saving of over **\$733** each year on electricity.
- A reduction of **6 tonnes** of CO² emissions per year.
- On top of that, there are savings of **\$114** each year in maintenance costs.
- A return on investment in **two years and four months**.
- Total cost of the retrofit was **\$2,013**.

About Elwood Village FoodWorks

The FoodWorks Chain, comprising of over 710 supermarkets, food and convenience stores in Australia, prides itself on its fresh, contemporary approach to retail whilst still retaining a friendly, community-focused relationship with its customers.

This eco lighting retrofit took place at the Elwood Village FoodWorks, located at 109 Ormond Road, Elwood.



Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, the Elwood Village FoodWorks' annual electricity bill for lighting was **\$1,735**.



After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Elwood Village FoodWorks was reduced by **42.5%**. 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
Front Sign	36w T8 Fluoro	1	40	40	28w T5 Fluoro	1	30	30
Awning	36w T8 Fluoro	2	40	80	28w T5 Fluoro	2	30	60
	11w CFL	1	11	11	11w CLA CFL	1	11	11
Shop	36w T8 Fluoro	59	40	2360	28w T5 Fluoro	46	30	1380
	120w Par 20	1	120	120	23w Par 38 CFL	1	23	23
Walkthrough	36w T8 Fluoro	2	40	80	28w T5 Fluoro	2	30	60
Storeroom	36w T8 Fluoro	3	40	120	28w T5 Fluoro	3	30	90
Small Office	36w T8 Fluoro	1	40	40	28w T5 Fluoro	1	30	30
				0				0
Toilet	8w CFL	2	8	16	8w CLA CFL	2	8	16
Shop Display	18w T8 Fluoro	1	20	20	14w T5 Fluoro	1	15	15
Total				2887				1715

Table One: Original and efficient lighting replacements during the retrofit

“The results from the eco lighting retrofit have met our expectations, and we look forward to the savings that will come”, said Peter Koutis, owner, Elwood Village FoodWorks.

Elwood Village FoodWorks has reduced its lighting costs by **\$847** a year (cost of electricity and maintenance), with substantially less impact on the environment with a saving of **6 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.

