

Small Space Jewellery Eco Lighting Case Study

Jewells of efficient light...

Case Study Key Findings

- A **59.4%** reduction in electricity for lighting.
- A saving of over **\$432.5** each year on electricity.
- A reduction of **3.5 tonnes** of CO² emissions per year.
- On top of that, there are savings of **\$249.4** each year in maintenance costs.
- A return on investment just under four years.
- Total cost of retrofit: **\$2,594**.

About Small Space Jewellery

Small Space Jewellery is an intimate encounter of the contemporary kind. The business was established in 2000 by Robyn Wernicke, a jeweller and designer with over 25 years experience.

Small Space Jewellery, located at 365A Street Georges Road, North Fitzroy, specialises in hand made contemporary pieces with an eye for design.

Small Space Jewellery specialises in all forms of repair work remodelling of existing jewellery and hand making one off individual pieces for a discerning clientele that actively seeks out the hand made.



Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, Small Space Jewellery's annual electricity bill for lighting was **\$728.16**.



After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Small Space Jewellery was reduced by **59.4%**. 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	Total	Efficient Lighting	No.	Consumption	Total
			Power (W)		Replacement Item		Power (W)	
Front Window	MR 16 50w	2	55	110	LED Strip	1	40	40
Shop Front	MR 16 50w	7	55	385	6w MR LED	7	7	49
	Bi Pin 50w	9	55	495	LED Strip	9	40	360
	MR 11 50w	8	55	440	6w MR LED	8	7	56
Workshop	T8 Fluorescent 36w	4	40	160	T5 Fluoro Kit 28w	4	30	120
	T8 Fluorescent 18w	2	20	40	T5 Fluoro Kit 14w	2	15	30
	T9 Circular 22w	1	25	25	T9 Circular 22w	1	25	25
	60w GLS	1	60	60	15w CFL	1	15	15
Upstairs	Halogen Lamps 50w	8	55	440	20w MR IRC	8	25	200
Total				2155				895

Table One: Original and efficient lighting replacements during the retrofit

Robyn Werneicke, Owner of Small Space Jewellery said, “Initially, I wasn't happy with the eco lighting retrofit results... the lighting was very cold. However, I contacted the retrofit team and we reassessed the lighting design. The cool efficient light globes were exchanged for warm efficient light globes and it has made a huge difference”.

Robyn added “Now the lighting in the shop is equally good or better than before the retrofit. We needed to do improve our lighting and this Government initiative prompted us to do it”.

Small Space Jewellery has reduced its lighting costs by **\$682** a year, with substantially less impact on the environment with a saving of **3.5 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.

