

Pet Art Eco Lighting Case Study

Four Paws... Let the light Shine!

Case Study Key Findings

- A **48%** reduction in electricity for lighting.
- A saving of over **\$563** each year on electricity.
- A reduction of **4.6 tonnes** of CO² emissions per year.
- On top of that, there are savings of **\$110** each year in maintenance costs.
- A return on investment in **two years and four months**.
- Total cost of the retrofit was **\$1,600**.

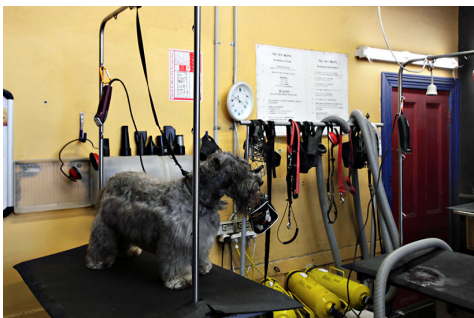
About Pet Art

Pet Art, an animal retail and animal grooming business, is located at 78 Scotchmer Street, Fitzroy.

Pet Art is a shop for locals to purchase retail items for their four legged family members. Pet Art also offers pet grooming.

Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, Pet Art's annual electricity bill for lighting was **\$1,168**.



After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Pet Art was reduced by **48%**. 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)	
Kitchen	T8 Fluoro 36W	2	40	80	T5Fluoro28W	2	30	60
Toilet	FR GLS 60W	1	60	60	CLACFL11W	1	11	11
Grooming Room	T8Fluoro36W	12	40	480	T5Fluoro28W	12	30	360
Grooming Room Store	T8Fluoro36W	4	40	160	T5Fluoro28W	4	30	120
DogBath Room	FRGLS100W	1	100	100	CLACFL20W	1	20	20
Dogfood Store	FRGLS100W	1	100	100	CLACFL20W	1	20	20
Shop Main	T8Fluoro36W	10	40	400	T5Fluoro28W	10	30	300
Stairs and Hall	T8Fluoro36W	4	40	160	T5Fluoro28W	4	30	120
Upstairs Store	T8Fluoro36W	4	40	160	T5Fluoro28W	4	30	120
Office	T8Fluoro36W	4	40	160	T5Fluoro28W	4	30	120
	FRGLS100W	1	100	100	CLACFL20W	1	20	20
Bathroom	FRGLS75W	1	75	75	CLACFL15W	1	15	15
Other Room	FRGLS75W	1	75	75	CLACFL15W	1	15	15
Front Window	Par38120W	4	120	480	CLAPar3823W	4	23	92
Total				2590				1393

Table One: Original and efficient lighting replacements during the retrofit

“The roll out of the retrofit was really efficient; the work was done on our day off. The lights look fantastic, really natural”, said Helen Altmajer owner of Pet Art.

Helen added “in our business we use water to wash dogs; so reducing our electricity consumption is something we can do for the environment”.

Pet Art has reduced its lighting costs by **\$674** a year (cost of electricity and maintenance), with substantially less impact on the environment with a saving of **4.6** 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.

