

## Lismore Hotel Eco Lighting Case Study

### Cold Beer. Meals 7 days a week. Efficient lighting.

#### Case Study Key Findings

- A **51%** reduction in electricity for lighting.
- A saving of over **\$363** each year on electricity.
- A reduction of **2.9** tonnes of CO<sup>2</sup> emissions per year.
- On top of that, there are savings of **\$152** each year in maintenance costs.
- A return on investment in **three years and six months**.
- Total cost of the retrofit was **\$1,865**.

#### About Lismore Hotel

Lismore Hotel, located 165 kilometres west of Melbourne on the Hamilton Highway, in Lismore Victoria, offers cold beer and meals 7 days a week. Lismore Hotel also has an Express Bottle Shop, accommodation and espresso Coffee.

The hotel has open fires and a friendly atmosphere. Lismore Hotel was first established as Brown's Water Hole. In 1853 was renamed Lismore after a town in Ireland renamed.



#### Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, Lismore Hotel's annual electricity bill for lighting was **\$706**.



## After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Lismore Hotel was reduced by **51%**. 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 Awning	T8 Fluoro 36W	6	40	240	T5 Fluoro 28W	6	30	180
	Par 38 120W	2	120	240	CLA Par 38 23W	2	23	46
Public Bar	T8 Fluoro 18W	4	20	80	T5 Fluoro 14W	4	15	60
	T8 Fluoro 18W	6	20	120	T5 Fluoro 14W	6	15	90
Lounge	CFL 11W	2	11	22	CLA CFL 11W	2	11	22
	FR GLS 40W	5	40	200	CLA CFL 9W	5	9	45
	CFL 11W	2	11	22	CLA CFL 11W	2	11	22
Pool Table	T8 Fluoro 36W	1	40	40	T5 Fluoro 28W	1	30	30
Bistro	CFL 11W	4	11	44	CLA CFL 15W	4	15	60
Fan	FR GLS 60W	1	60	60	CLA CFL 11W	1	11	11
Hallway	T8 Fluoro 18W	1	20	20	T5 Fluoro 14W	1	15	15
	T8 Fluoro 18W	2	20	40	T5 Fluoro 14W	2	15	30
	T8 Fluoro 18W	2	20	40	T5 Fluoro 14W	2	15	30
Mens	CFL 11W	2	11	22	CLA CFL 11W	2	11	22
Ladies	CFL 11W	2	11	22	CLA CFL 11W	2	11	22
	FR GLS 60W	1	60	60	CLA CFL 11W	1	11	11
Storeroom	FR GLS 100W	1	100	100	CLA CFL 20W	1	20	20
Coolroom	CFL 11W	1	11	11	CLA CFL 11W	1	11	11
Rear Entry	FR GLS 60W	1	60	60	CLA CFL 11W	1	11	11
Beer Garden	Par 38 120W	2	120	240	CLA Par 38 23W	2	23	46
	Par 38 120W	1	120	120	CLA Par 38 23W	1	23	23
Breakfast Room	FR GLS 60W	3	60	180	CLA CFL 11W	3	11	33
Cleaners Cupboa	FR GLS 75W	1	75	75	CLA CFL 15W	1	15	15
Office	CFL 11W	1	11	11	CLA CFL 11W	1	11	11
	FR GLS 60W	1	60	60	CLA CFL 11W	1	11	11
Kitchen	CFL 11W	1	11	11	CLA CFL 11W	1	11	11
	T8 Fluoro 36W	2	40	80	T5 Fluoro 28W	2	30	60
	T8 Fluoro 36W	2	40	80	T5 Fluoro 28W	2	30	60
Kitchen Utility Stor	FR GLS 100W	1	100	100	CLA CFL 20W	1	20	20
Coldstore	FR GLS 100W	1	100	100	CLA CFL 20W	1	20	20
Residence	FR GLS 60W	2	60	120	CLA CFL 11W	2	11	22
	CFL 11W	5	11	55	CLA CFL 11W	5	11	55
Accommodation Ha	T8 Fluoro 18W	2	20	40	T5 Fluoro 14W	2	15	30
Rooms 3-12	FR GLS 40W	9	40	360	CLA CFL 9W	9	9	81
	FR GLS 60W	9	60	540	CLA CFL 11W	9	11	99
Mens Shower	FR GLS 60W	6	60	360	CLA CFL 11W	6	11	66
Ladies Showers	FR GLS 60W	2	60	120	CLA CFL 11W	2	11	22
Room 3	FR GLS 75W	1	75	75	CLA CFL 15W	1	15	15
<b>Total</b>				<b>4170</b>				<b>1438</b>

Table One: Original and efficient lighting replacements during the retrofit

Brian Parsons, the Owner of the Lismore Hotel commented, "We have noticed no difference in the lighting, which is great given the lighting is over 50% more efficient".

Lismore Hotel has reduced its lighting costs by **\$515.14** a year (cost of electricity and maintenance), with substantially less impact on the environment with a saving of **2.9 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.



**environment** SHOP

Green Goods and Environmentally Sustainable Living

**Sustainability  
Fund** Managed by  
Sustainability Victoria

