

## Peter J Ramsay & Associates Eco Lighting Case Study

### Consultants focused on sustainable outcomes for their clients... and the planet

#### Case Study Key Findings

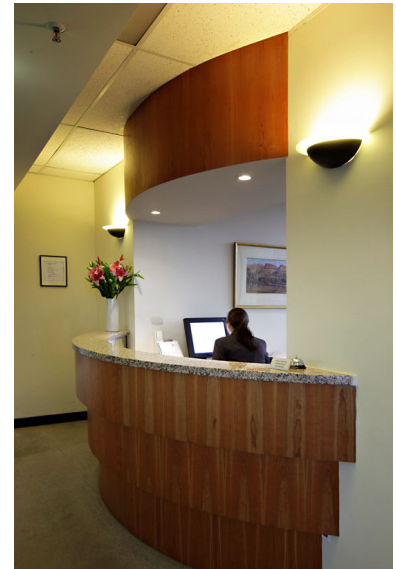
- A **70%** reduction in electricity for lighting.
- A saving of over **\$1,812** each year on electricity.
- A reduction of **14.7** tonnes of CO<sup>2</sup> emissions per year.
- On top of that, there are savings of **\$471** each year in maintenance costs.
- A return on investment in just under two years.
- Cost of retrofit: **\$4,634**

#### About Peter J Ramsay & Associates

Peter J Ramsay & Associates is a boutique environmental consulting firm offering a range of services in contaminated land, industrial facilities management and climate change including carbon asset management and strategy. Peter J Ramsay & Associates is focused on achieving sustainable outcomes for their clients.

#### Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, Peter J Ramsay & Associates' annual electricity bill for lighting was **\$2,569**.



*Peter J Ramsay &  
Associates' Reception*



## After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Peter J Ramsay & Associates was reduced by **70%**. 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)	
Board Room	T8 Fluoro 36W	12	40	480	T5 Fluoro 28W	10	30	300
	T8 Fluoro 36W	2	40	80	T5 Fluoro 28W	2	30	60
	T8 Fluoro 18W	2	20	40	T5 Fluoro 14W	2	15	30
	MR 16 50W	6	55	330	6w MR LED	6	6	36
	MR 16 50W	1	55	55	6w MR LED	1	6	6
	FR GLS 100W	2	100	200	CLA CFL 20W	2	20	40
Admin Office	FR GLS 100W	2	100	200	CLA CFL 20W	2	20	40
	R80 GLS 80W	2	80	160	MEGA R63 11W	2	13	26
	T8 Fluoro 36W	4	40	160	T5 Fluoro 28W	2	30	60
Reception	FR GLS 100W	2	100	200	CLA CFL 20W	2	20	40
	MR 16 50W	9	55	495	6w MR LED	9	6	54
Accounts	T8 Fluoro 36W	4	40	160	T5 Fluoro 28W	2	30	60
Peter Clark	T8 Fluoro 36W	8	40	320	T5 Fluoro 28W	4	30	120
Library	T8 Fluoro 36W	12	40	480	T5 Fluoro 28W	10	30	300
	T8 Fluoro 18W	2	20	40	T5 Fluoro 14W	2	15	30
Workroom	T8 Fluoro 36W	16	40	640	T5 Fluoro 28W	8	30	240
Mark's Office	T8 Fluoro 36W	6	40	240	T5 Fluoro 28W	3	30	90
	T8 Fluoro 18W	2	20	40	T5 Fluoro 14W	1	15	15
Joni's Office	T8 Fluoro 36W	6	40	240	T5 Fluoro 28W	3	30	90
Darren's Office	T8 Fluoro 36W	6	40	240	T5 Fluoro 28W	3	30	90
Alisons Office	T8 Fluoro 36W	4	40	160	T5 Fluoro 28W	2	30	60
Peter Ramsey's Office	T8 Fluoro 36W	12	40	480	T5 Fluoro 28W	8	30	240
Lunchroom	T8 Fluoro 36W	4	40	160	T5 Fluoro 28W	4	30	120
					CLA CFL 20W	1	20	20
Lift Lobby	50w MR 16	10	50	500	20w MR IRC	10	20	200
<b>Total</b>				<b>6100</b>				<b>2367</b>

Table One: Original and efficient lighting replacements during the retrofit

"We are extremely happy with our new energy efficient lighting system. Not only has it improved the lighting quality and aesthetic of the office, but it has also helped us to reduce our own carbon footprint!" Peter Clark, Consultant at Peter J Ramsay & Associates

Peter J Ramsay & Associates has reduced its lighting costs by **\$2,283** a year (electricity and maintenance costs), with substantially less impact on the environment with a saving of **14.7** tonnes of CO<sup>2</sup> emissions per annum.



Peter J Ramsay & Associates Board Room – daytime meeting scenario (left), nighttime meeting scenario (right).





**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.



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