

Heland Hands Eco Lighting Case Study

Heland Hands.... makes lite light work!

Case Study Key Findings

- An **87.3%** reduction in electricity for lighting.
- A saving of over **\$286** each year on electricity.
- A reduction of **2.3** tonnes of CO² emissions per year.
- On top of that, there are savings of **\$58** each year in maintenance costs.
- A return on investment in three years and three months.
- Total cost of the retrofit was **\$1,130**.

About Heland Hands

Heland Hands has been operating as a Remedial Massage business for 4 years at the Northcote Aquatic and Recreation Centre. The Health Services room is shared between Physiotherapy and Massage Therapy and is used extensively 7 days a week.

Before the Eco Lighting Retrofit

Prior to the eco lighting retrofit, the Heland Hands' annual electricity bill for lighting was **\$328**. The lighting in the room was known to be of high electricity consumption and when some of the down lights started to malfunction it was the stimulus to become proactive about reducing my carbon footprint in the workplace.

After the Eco Lighting Retrofit

After conducting a systematic lighting audit, the energy consumption for lighting at Heland Hands was reduced by **87.3%**. 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
Desk Area	MR 16 50w	4	55	220	35w IRC	4	6	24
Massage Area	MR 16 50w	4	55	220	35w IRC	4	6	24
					20w Dim Phillips	2	20	40
Total				440				88

Table One: Original and efficient lighting replacements during the retrofit

“As a Massage Therapist, appropriate lighting is essential. Since the eco lighting retrofit the lighting is magnificent. The oyster lights create a beautiful atmosphere”, advised Jenny Heland-Chaplin, Massage Therapist and Owner of Heland Hands Massage Therapy.

Jenny went on to say, “For me, savings money was not a factor, reducing CO² emissions was the most important issue for me. When I found out how much our carbon footprint would be reduced just by changing the lighting, it made me feel very proud”.

“We have reduced our energy consumption for lighting by 87%. That’s amazing. Even though this is a small room... every small bit makes a difference,” said Jenny.

Heland Hands has reduced its lighting costs by **\$344** a year (cost of electricity and maintenance), with substantially less impact on the environment with a saving of **2.3** 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 conducted by 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.