

TOWNSVILLE CITY COUNCIL

LIGHTING UPGRADES



Sustainable Focus has been working with Townsville City Council to implement comprehensive lighting upgrades at the Garbutt Operations Centre, Dalrymple Road Depot, Aitkenvale Library, Tony Ireland Stadium and the Riverside Community Centre. The projects have resulted in Townsville City Council reducing their lighting energy use by half and an annual reduction of greenhouse emissions of 213 tonnes CO₂.

OUR TEAM



Sustainable Focus has been operating successfully since 2001. We are an experienced team of energy efficiency practitioners with a diverse range of skill sets. We also have an established network of expert partners we utilise when required.

For instance Rob Smith has extensive experience in the Heating, Ventilation and Air-conditioning (HVAC) industry with expertise in energy efficiency, control system strategy, passive building design and solar systems. His comprehensive knowledge of these fields enables him to evaluate the functionality of active and passive systems to implement site specific strategies to improve overall efficiency. Rob is a Certified Energy Manager with the Association of Energy Engineers.

"Our people are passionate about energy efficiency and ensuring we deliver the right result for each client."

Rob Smith
Technical Director

KEY OUTCOMES

GREENHOUSE GAS SAVINGS

213
TONNES



ANNUAL ENERGY SAVINGS OF

\$65K
ACROSS THE OFFICE



ANNUAL ENERGY REDUCTION OF

270,000
KWH



OVERALL PAYBACK OF

5 YEARS



SUSTAINABLE FOCUS WAS ENGAGED TO DESIGN AND IMPLEMENT COMPREHENSIVE LIGHTING UPGRADES FOR TOWNSVILLE CITY COUNCIL



THE SOLUTION

The project was implemented through the following methodology:

1. REVIEW

The first stage involved a comprehensive lighting review to determine the most suitable technologies.

2. DESIGN

Sustainable Focus then designed upgrade solutions and developed a project plan for implementation. The design and testing stage included:

- A room by room review to specify the lighting upgrade requirements
- Data logging of occupancy and lighting run hours in areas suited to occupancy control
- Measurement of lighting levels in representative spaces in the early phases of implementation to ensure lighting requirements were achieved.

3. IMPLEMENTATION

Sustainable Focus managed all aspects of the project and equipment ordering, including:

Placing orders for lighting equipment supply and managing the installation process.

Coordinating installation and inspection of all work at all sites

- Assisting with communication to staff about the upgrade
- Working within agreed timeframes
- Managing the project budget

4. VERIFICATION & REPORTING

- Data logging of electricity consumption was undertaken before and after the upgrade in representative areas to provide performance data.
- Complete handover documentation

LIGHTING UPGRADE

A range of technologies were used in this project depending on the existing lighting in each facility, and the lighting outcomes required. Where practical, existing luminaires were retrofitted to save resources and avoid waste generation.

THE RESULTS

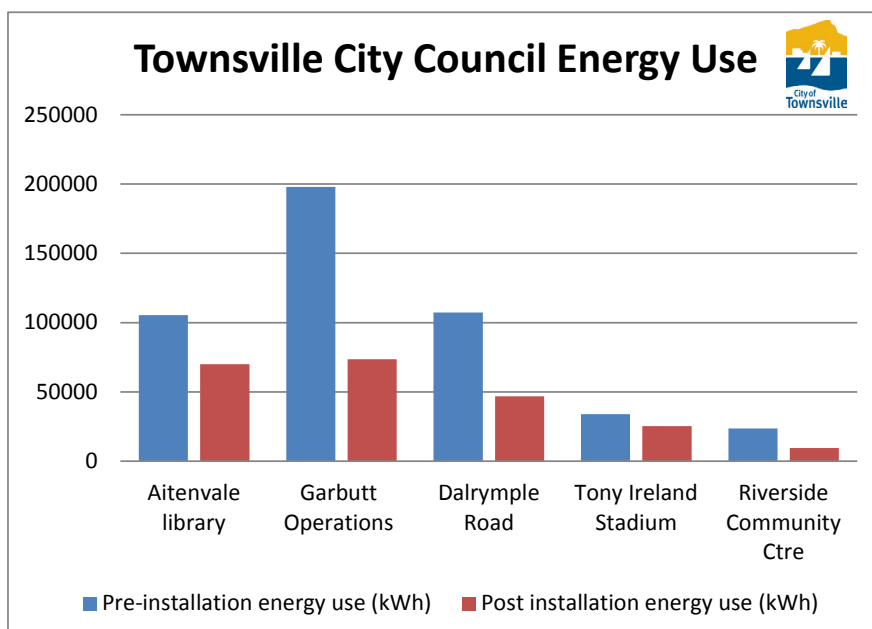
ENERGY SAVINGS

- 270,000 kWh per annum
- \$65,000 per annum
- Annual reduction in greenhouse emissions of 213 tonnes CO₂
- Project payback of 5 years

OTHER BENEFITS INCLUDE

- Uniform lighting levels in accordance with Australian standards
- Uniform lighting appearance across buildings
- Reduced maintenance costs
- Reduced heat load to airconditioning system
- Fewer flickering lamps

Sustainable Focus has undertaken hundreds of energy efficient lighting upgrades in Australia and has worked with some of the largest Government departments and NGO's including Department of Health, University of South Australia, Honeywell, Flinders University, The Town of Gawler, QLD Ambulance, Adelaide City Council, Department of Community Safety, Coober Pedy Hospital, Flinders University, The University of Adelaide, Uniting Communities and SA Pathology.



Sustainable Focus

14 Tucker Street
Adelaide SA 5000
info@sustainablefocus.com.au
(08) 8232 2552
www.sustainablefocus.com.au