



Energy Upgrade Myer Centre Brisbane

Certified Professional:

Tristan Webber (CEES)



Client:

Vicinity Shopping Centres

The aim of this project was to reduce the energy consumption of the car park ventilation fans at the centre.

This project scope included: installation or replacement of variable speed drives for 21 car park fans; integration with the existing fire strategy; control of car park ventilation via the building management system using carbon monoxide sensors; re-commissioning of car park systems; installation of electricity meters, and integration with the existing energy monitoring system.

The energy savings objectives were 2,100,000 kWh per year with an estimated energy cost reduction of \$180,000 per year.

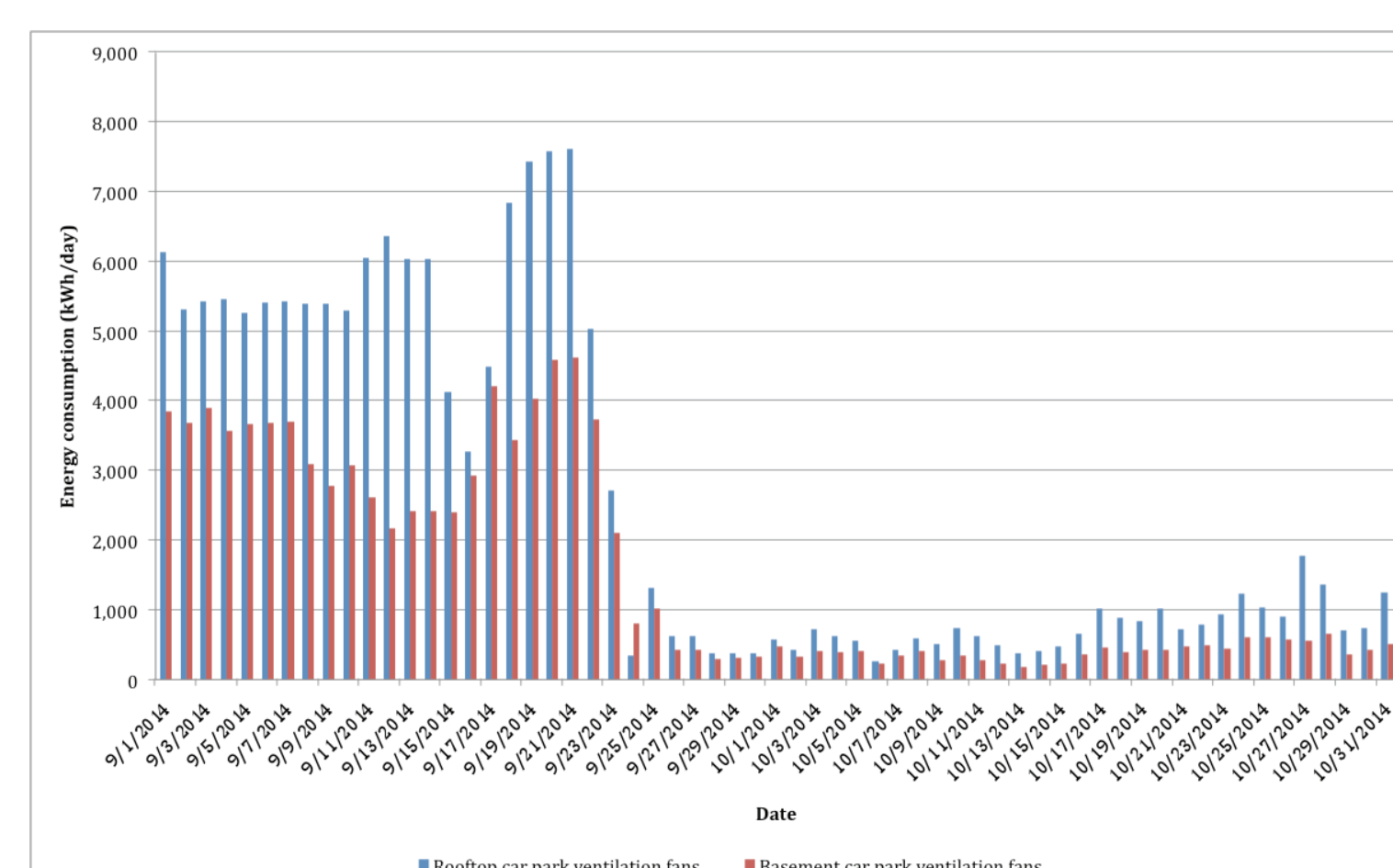
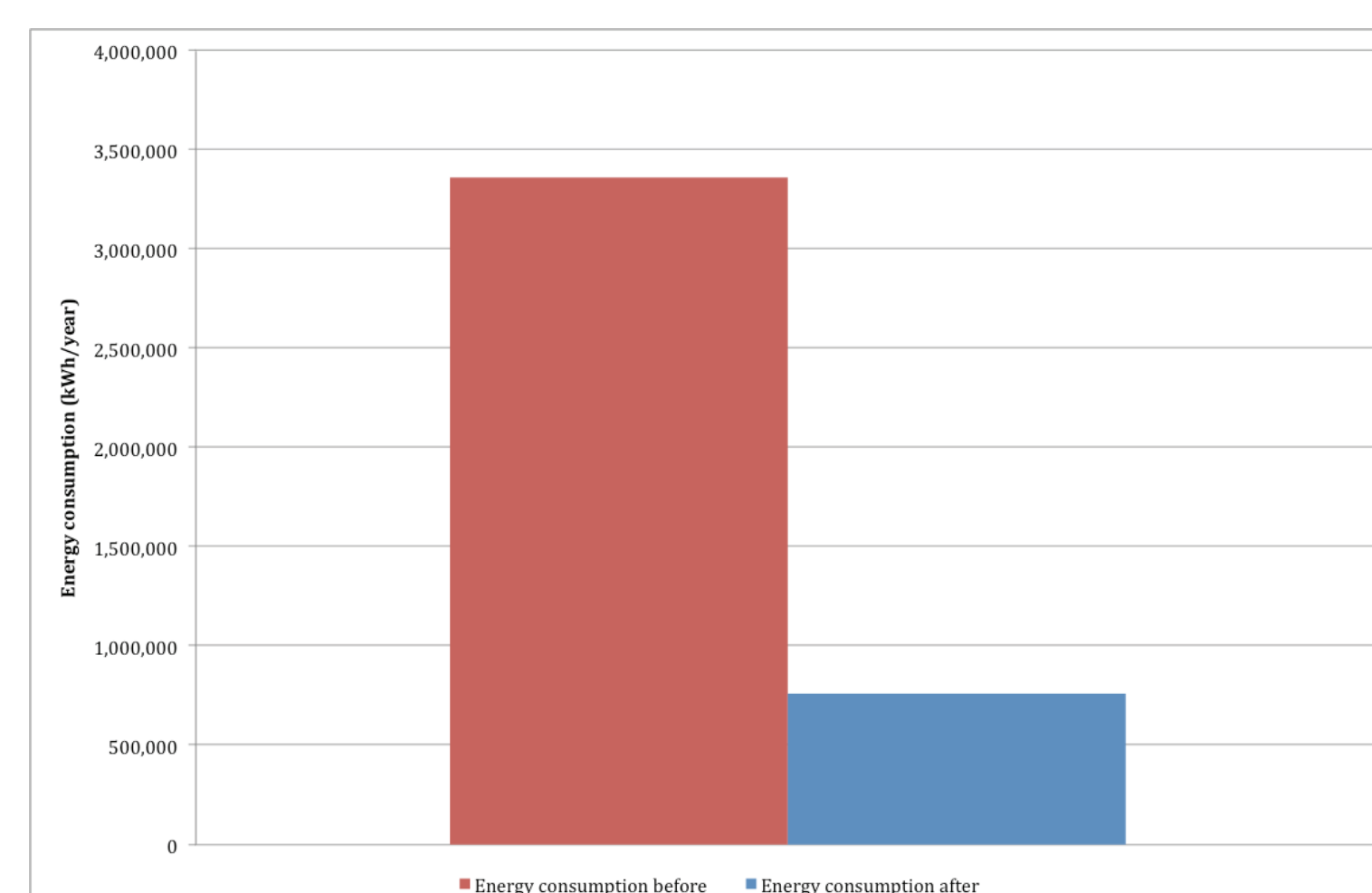
Project Outcomes

The achieved energy savings of the project was 2,606,000 kWh from 30/9/2014 to 29/9/2015, a 77% energy reduction and 500,000 kWh greater than the project objective.

Energy savings were achieved by matching the operation of car park ventilation fans to demand for vehicle emissions or heat rejection. This allowed fans to turn off overnight and run at minimum speed on most days.

In addition to energy reduction outcomes and the associated financial savings the project has achieved reduced wear and tear on plant and equipment and reduced noise through full speed fan operation.

An integral part of the scope was a pre-project dilapidation report. This assisted in an appropriate level of planning around associated works and adherence to the timeline.



“ The car park ventilation energy efficiency project was highly successful. Energy Action specified the project and acted as Independent Commissioning Agent and Centre Management acted as the Project Manager for the works. The collaboration between stakeholders allowed for a relatively trouble free implementation, and all risks to project outcomes were identified early and pragmatically managed. The result was a significant energy saving which was greater than forecast, which has been demonstrated through monitoring and verification processes. ”

Rebecca Day, Vicinity Shopping Centres.

About the Energy Efficiency Certification Scheme

The EECS certifies professionals that have the skills and experience to lead and manage all scales of building energy upgrades, up to and including an Integrated Building Energy Retrofit (IBER) and to work effectively with their clients. The Scheme is delivered under the supervision of an independent Steering Committee made up of experts from industry, government and the property sector and is administered by the Energy Efficiency Council, Australia's peak body for energy efficiency, cogeneration and demand management.