

# Case Study T5 Commercial Lighting

Hume City Council



We save your energy

**62 tonnes of CO<sub>2</sub>-e  
and \$16,000 saved  
per year!**

Site: Community  
Education & Recreation  
Scope: Lighting upgrade  
Project value: \$41.5k  
Cost to client: \$36k  
Total savings: 16.6k/year  
Total energy reduction:  
57 MWh/year  
Payback: 2.2 years

Hume City Council is committed to reducing its greenhouse gas emissions through design, energy efficiency and renewable energy opportunities.

**Pradeep Dissanayake, Sustainable Energy Officer said “It was a very smooth process of communication and execution by Genesis Now’s team. They were approachable, understanding and executed the work to the professional standards expected. They achieved what they promised in energy saving. We’re thoroughly satisfied with their work and would use their services again in future”**

Genesis Now’s engagement with Hume

In 2013 Genesis Now audited 13 buildings for Hume City Council as part of the federal Community Energy Efficiency Program (CEEP). The company led the implementation of upgrades to lighting, insulation, boilers, and pool pumping control. Genesis Now has since been appointed to a supplier panel to identify and implement energy efficiency opportunities and as an approved supplier under Hume’s Business Efficiency Network Light\$mart program.

This latest lighting installation at two community facilities will save the Council over \$16,000 plus 62 tonnes of greenhouse gas emissions each year. Financial incentives available to all businesses from the Victorian Energy Upgrades (aka VEET) program helped reduce the capital expenditure.

## Leisure Centre



LED batten fittings replacing old T5 fluorescent tubes

## Replacement of “efficient” T5s

75% of the total upgrade involved replacement of T5 fluorescent fittings with LED fittings. In the early 2000s T5 installations were state-of-the-art for energy efficiency. To this day, practitioners often ignore replacement of T5s with LEDs due to lower savings compared to older technology fittings. A new wave of super high efficiency products has allowed Genesis Now to achieve energy savings of 50 to 70% with improved illumination outcomes for the T5 retrofits.

Feedback from staff and community members at both facilities has been positive with a noticeable improvement in the quantity and distribution of light, despite the lower energy consumption fittings.

## Learning Centre



Before



After