



# LEADSUN

In partnership with



CASE STUDY

**Client:** Hobsons Bay City Council  
**Project:** Merton Street, Altona - Street lighting  
**Lighting Compliance:** ASNZ:1158.3.1 category V4

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This project has huge cost savings by being cable free!

**SOLAR LIGHTING**

SAVE UP TO **33%**  
Compared to grid powered lighting

## Project Overview

Concerns raised by the community about poor street lighting forced the City of Hobsons Bay to invest in a new street lighting system. The community felt that the lack of sufficient lighting was having a negative impact on their public health and safety.

Leadsun and GE were nominated as the preferred suppliers and contractor to design and install a quality and reliable 'solar lighting' system for roadways, using the industry approved GE Evolve LED fixture (1600 Lumens output) to illuminate a section of unlit roadway (160m) on Merton Street, Altona.

## Leadsun Solution

- 10 x AE6 Series - 200W solar engine
- GE 'Evolve' 16W LED light heads
- Adaptive lighting control automatically dims lights to 30% during inactivity
- Lithium-ion batteries provides 10+ years maintenance-free life span

Before installing solar engines and LED fixtures, important consideration was needed to the existing underground power and communication infrastructure installed throughout the area, which posed a significant risk of being damaged with traditional excavation equipment.

A unique installation method using non-destructive Hydro / Suction excavation equipment, was proposed by Leadsun, which safely excavated the footing holes without any risk of damaging underground services.

Ten Leadsun 200W solar engines & GE 'Evolve' 16W LED fixtures were installed in optimal locations (solar irradiance & lighting performance) along a 160 metre section of road reserve and rail-line area.

Using a unique 'lowerable pole' concept developed to safely install and service the solar lighting equipment at ground level, without use of any cranes or lifting equipment, the project was successfully completed in only 3 days, without disruption to vehicular or pedestrian traffic along the roadway.



This project has an expected design life of 15 years

Call us on 1300 532 378 to discuss how we can deliver you a HUGE saving compared to grid power lighting