



# LEADSUN

In partnership with



CASE STUDY

Client: Goulburn Mulwaree Council (GMC)

Project: Wollondilly River Shared Cycle Way and Path Lighting

Lighting Compliance: AS/NZS 1158.3.1 P3/P4

★★★★★  
This project has huge cost savings by being cable free!

SOLAR LIGHTING



## Project Overview

As a result of community consultation and their request to engage in a more healthy and active lifestyle in the evening and early morning, the Goulburn Mulwaree Council was able to seek a Federal Sport and Recreation Grant to fund the project.

Council then looked for a partnership with a leading solar lighting supplier to design and illuminate a 4km section of the Wollondilly River Walking Track. The project involved the installation of over 120 'flood-resilient' solar lights that needed to comply with a minimum P4 lighting standard.

## Leadsun Solution

- 102 x AE3 Series 80W stand-alone solar lights
- 2 x AE6 Series 130W solar engine powering 4 – remote lights
- 2 x AE6 Series 260W solar engine powering 8 – remote lights
- 2 x AE6 Series 390W solar engine powering 13 – bollard lights
- 20W LED Maximum output power (Dusk to Dawn operation)
- Adaptive lighting control automatically dims lights to 30% during inactivity
- Lithium-ion batteries provides 10+ years maintenance-free life span
- Future proofed with built-in wireless control and monitoring system
- Platinum '7' year warranty

Most of the 4km pathway was clear of shading issues from adjacent trees which allowed most of the locations to use 'stand-alone' solar lights, however there were two sections of the pathway heavily shaded by trees which required a tailored engineered solution to ensure ALL lights work reliably all year round. Leadsun's engineering team were able to design a system using a high powered 'Master' solar engine to remotely power several 'remote' lights by installing shallow underground 12Vdc wiring between each 'remote' light location. Additionally, there were other areas of the pathway situated directly adjacent to residential properties that required low-glare LED remote bollards that were also powered by a high-powered 'Master' solar engine.



This project has an expected design life of 15 years

*Council's use of sustainable energy options reflects community expectations," Mr Taylor said. "There is an increasing awareness that we can all do our bit to reduce carbon emissions across a broad range of smaller scale projects and in our individual lives. "Along with many Goulburn residents, I enjoy running this track early in the morning or later in the afternoon. The lights will be a great addition to the course, particularly in winter."*

Local Federal Member, Angus Taylor (Minister for Energy)



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