



# LEADSUN

EST. 2005

In partnership with



CASE STUDY

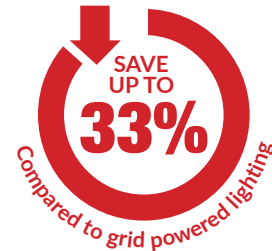
Client: Goulburn Mulwaree Council (GMC)

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 the local community requesting council to invest in a healthy and more active environment around them, the Goulburn Mulwaree Council was able to seek a Federal Sport and Recreation Grant to fund SMART public lighting along a well used shared pathway so it could be used safely in the evenings and early mornings. After a successful first stage, council extended the SMART public lighting for another 2km making this Australia's largest solar lighting project.

## Leadsun Solution

- 135 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
- Platinum '7' year warranty

Stage 1 saw 4km of SMART public lighting installed along a shared pathway lighting next to the Wollondilly River. Most of this pathway was clear of shading issues, 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, as this area was highly prone to flooding, council had to ensure it was installing the most dependable and robust system available. As all components of the Leadsun system are located at the top of the pole any damage in flood zones are avoided.

Stage 2, referred as Riverside, saw the addition of another 2km of SMART Public Lighting installed along the pathway and 6 new systems installed in a connecting car park. The project to date lights up both the Northern and Southern sides of the Wollondilly River pathway network and allows the community easy access from 10 separate locations. Council plans additional phases over the next 3 years.



This project has an expected design life of 15 years

*"Council's use of sustainable energy options reflects community expectations. 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 pathway, particularly in winter."*

Local Federal Member, Angus Taylor (Minister for Energy)

