LEADSUN
EST. 2005

In partnership with wyndhamcity city.coast.country

CASE STUDY

Client: Wyndham City Council
Project: Shared Pathway Princes Highway, Werribee
Lighting Compliance: AS/NZS 1158.3.1 PP3 & PP5 (DIM)

★★★★★
This project has huge cost savings by being cable free!
SOLAR LIGHTING
SAVE UP TO 33%
Compared to grid powered lighting

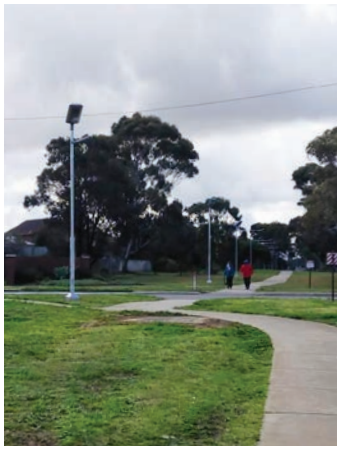
Project Overview

Due to the high amount traffic along a 1000m section of shared pathway parallel to the Princes Highway, Wyndham City Council identified the need for more light to create a safer environment. However, with a high pressure oil pipe running underneath, no underground cabling for powered lights could be considered and strategic pole placement was crucial.

The design brief for this project identifies the need to enhance prestige in this popular area for pedestrian use and has a 'low' crime risk rating. As specified by City of Wyndham the lighting requirements for the area should be 'P3' in full illumination and P5 whilst in DIM Mode.

Leadsun Solution

- 23 AE3 & 3 AE6 Solar Engines and 29 lights
- Solar Module Size = 55W and 130W
- LED output = 10W
- Adaptive lighting control automatically dims lights to 30% during inactivity
- Lithium-ion batteries provides 10+ years maintenance-free life span
- EDGE Wireless Control System installed for remote monitoring and configuring the complete lighting network.
- Preset Lighting Program – DIM Mode (20%) till dawn. Full brightness for 5min on detection of movement.



Strategic pole placement was vital due to proximity of underground services to the pathway, particularly a VIVA energy high pressure oil pipe. Requirements specified an exclusion zone of 4M for pole from the oil pipe. This required the engineering of outreaches of 3.5m in some areas to ensure a consistent coverage of lighting for the pathway.

Tree shading also needed consideration as there are three areas that have high tree foliage blocking sun light. A Master/Slave arrangement was design for this by using a large AE6 solar engine to not only power the light connected to it's own pole, but also an additional light on separate pole 30m down the pathway with no solar engine attached.

Lastly, due to the extensive in ground infrastructure and the large amount of tree roots, a hydro excavation method was used for trenching and footings which illuminated any possible damages to the underground works or the surrounding environment.

15 YEARS
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