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EST. 2005

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CASE STUDY

CLIENT

Campbelltown City Council

PROJECT

Junction Road Roundabout

TRADITIONAL CUSTODIANS

Dharawal Peoples

Groundbreaking solar powered roundabout lighting makes busy road safer

In a first for any Local Government authority in NSW, Campbelltown City Council illuminated a new roundabout with fully compliant LED street lights powered by the sun.

Junction Road roundabout is located on a busy arterial road in Campbelltown, NSW. The new roundabout was constructed to handle the growing traffic congestion from several nearby schools and a busy shopping centre. The existing street lighting along Junction Road was not compliant with the road safety requirements for the new roundabout and posed a significant safety risk at night for both drivers and pedestrians.



A potential traffic hazard requiring urgent action

A solution was urgently needed before someone got seriously injured, or worse.

Recognising these risks, Campbelltown City Council approached Leadsun, requesting an urgent lighting plan and quotation for new roundabout lighting. To minimise the immediate dangers, Council insisted that the new lights be installed and operational within a very tight, six-week timeline and with minimal disruption to traffic.



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A NSW first - fully compliant roundabout lighting powered by the sun

Local Area Traffic Management Devices like roundabouts must comply with standard (AS/NZS 1158.3.1 P). Leadsun’s team of in-house lighting engineers were able to design a fully compliant lighting solution for the Junction Road roundabout, specifying three AE6 solar-powered LED street lights, each delivering a minimum of 3.5 Lux continuous lighting from dusk to dawn.

To ensure sufficient power, even on cloudy days, three 150-watt solar engines were paired with the 15-watt LED lights. The entire solution took only two days to install, with no trenching, cabling or connection to the electricity grid required. To minimise disruption, EZYTilt poles were used so that all work could be completed at ground level without the need for a cherry picker.

A new benchmark for roundabout lighting

Junction Road roundabout sets a new benchmark for sustainable, compliant, and cost-effective roundabout lighting in Australia. Leadsun’s Business Development Manager for New South Wales, Gordon Manzione, said, “This was the first fully compliant solar powered LED street light solution for a roundabout undertaken by any NSW Local Government authority.”

Campbelltown City Council were pleased with the end result and the fast turnaround time which exceeded expectations. Most importantly, the new solar powered LED street lights at the Junction Road roundabout have significantly improved visibility and safety for drivers and pedestrians.

Leadsun Products Used

Solar module series	AE6
Solar size	150W
LED output programming	Dusk to Dawn 100%
Pole type	EZYTilt
Pole footing	Rag Bolt

Lighting Applications

- Road Lights/Road Safety Lighting
- Solar Street Lights

Lighting Compliance

- AS/NZS 1158.3.1 P Lighting Compliance

We acknowledge the Traditional Custodians of the land on which this project was undertaken, the Dharawal People. We recognise their continuing connection to land, waters and culture, and we pay our respects to Elders past, present and emerging.

Leadsun-CS AE6 Junction Road Roundabout Road Safety 250515

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