



LEADSUN
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CASE STUDY

CLIENT

Walter's Wholesale
Electric

PROJECT

Cal Poly Pomona Bus Shelter

Dark bus shelters a safety concern

California State Polytechnic University Pomona (Cal Poly Pomona), is a public polytechnic university in Pomona, California with 30,000 students. Even though criminal offences at Cal Poly Pomona are broadly in line with other campuses, the University wanted to further improve safety for students and staff commuting by bus with the introduction of better lighting at several bus stops.

Although the bus stops were all relatively new, none had internal illumination and ambient lighting from nearby street lights was inadequate. The University contracted Walter's Wholesale Electric to install solar powered lighting in three shelters located at two bus stops on West Temple Drive, Pomona.

Limited options for installing solar lighting

Initially, the design team considered attaching the solar engines used to power the lights to existing kerb-side sign posts. Unfortunately, not all of the shelters had these. Instead, the shelters themselves would have to be used, however the curved design of the roofs meant that custom designed fixings would need to be engineered.



A customized solar road light system

Leadsun collaborated with Alfie N Design to engineer and fabricate customized brackets to attach the solar engines to the bus stop shelter roofs. Leadsun Business Development Manager Walter Terella explained, “there was an existing screw pattern on top of the Shelter Roof, so it worked nicely to take advantage of that to allow the brackets to mount at those points and then have an aluminum L-Channel mount to those, which in turn clamps the AE2 Panels.”

Three, 40 watt AE2 solar engines with on-board batteries were installed onto the roofs of the three bus shelters. Low voltage DC cables connected each solar engine to two 5 watt LED Link Lights mounted to the shelter ceilings with brackets.



A safer commute for Cal Poly Pomona students

The new lighting system has significantly improved illumination for students and staff commuting by bus to Cal Poly Pomona. Leadsun Ontario Office Manager David Pineda said, “this is a great example of how Leadsun’s innovative products and approach to area lighting can make our communities safer”.

A safer commute for Cal Poly Pomona students

Number of lights	6
Solar module series	AE2540L Solar Engine series
Solar size	40W
LED output programming	30% - 100%

Leadsun-CS AE2 Cal Poly Pomona Bus Shelter 241113