



LEADSUN
EST. 2005

ALWAYS DEPENDABLE

CASE STUDY

CLIENT

Main Electric

PROJECT

Fiddymment Ranch carport lighting

Solstice at Fiddymment Ranch Garage Lighting

Solar lights for parking lots shine bright at Fiddymment Ranch

A luxury residential housing complex in Roseville, California needed a dependable, sustainable lighting solution for residents arriving home after dark. Working with the developer, Leadsun installed 27 solar powered link lights, improving visibility and safety for the whole community with clean, sustainable, dependable, lighting powered by the sun all year round.

Better Lighting needed for residents at night

Solstice at Fiddymment Ranch is a luxury housing development in Roseville, California. Seven generations of the Fiddymment family have called Roseville home and at one point, this pioneer family held over 10,000 acres of land. Their history is intertwined with the Donner Party, the Gold Rush and the Great Depression[1]. Today, the Solstice development at Fiddymment Ranch attracts new families to the area, lured by the semi-rural location and luxury single family homes. Developed by Taylor's builders, the homes come in two, three, and four-bedroom layouts, each with a detached garage for one or two cars in select residences. Adjacent to farmland and a wilderness area, the semi-rural location of Solstice at Fiddymment Ranch means that the area is very dark at night. Better lighting was needed to improve visibility for residents walking from their garage to their front door at night. "Parents were also worried about their kids after dark," said David Pineda, Leadsun's Business Development Manager for the project. "Young children were playing in and around the carports at dusk, creating a potentially dangerous situation".



Leadsun solar lights for parking lots

Leadsun installed 27 30-watt Link Lights in 16 separate garages at Fiddymment Ranch. Five of the smaller single car garages were equipped with a 30-watt Link Light powered by a 60-watt AE3C solar engine. Eleven two-car garages were installed with dual 30-watt Link Lights powered by a larger 90-watt AE3C solar engine. The lights were programmed to come on for six hours after dusk at 15% - 80% power, with lighting levels dynamically adjusted within this range depending on the ambient light available. After midnight, the lights operate at 10% - 50% maximum power until dawn. “We carefully engineered the design, ensuring an economical solution that delivered more than enough light all year round,” Pineda said. “Installation was also really straightforward because the lights are solar powered. No cabling, trenching or connection to the mains electricity was required so the installation was quick with minimal disruption to residents.

Life looks bright for Fiddymment Ranch residents

The new lights at Fiddymment Ranch have significantly improved visibility and safety for residents arriving home at night and children playing at dusk. Briana Ortega, Lighting Project Coordinator for the client, Main Electric Supply Co. said she was “very impressed with the build quality of the product.” Powered by the sun, the new lights will provide clean, sustainable, dependable lighting all year round with no electricity bills and minimal on-going maintenance.

Leadsun Products Used

Solar module series	AE3C60 and AE3C90 Solar Engines
Solar PV size	60W and 90W
LED output programming	6 hours after dusk (15%-80% power), then 10%-50% power until dawn

Lighting Applications

- Solar Parking Lot Lighting

