

## SOLAR CARPORT LIGHTING

Improves resident safety at Solstice at Fiddymment Ranch, Roseville, California

# LEADSUN

Limitless Light. Beyond the Grid.



### Project Snapshot



#### Location

Roseville, CA



#### Systems Installed

27 Link Lights across  
16 carports



#### Application

Residential carport and  
garage lighting



#### Technology

AE3C60 + AE3C90  
solar engines

### Project Impact

- ✓ Improved visibility for residents arriving home after dark
- ✓ Increased safety for children playing around carports at dusk
- ✓ Dependable, grid-independent lighting with no electricity bills
- ✓ Rapid installation without trenching or mains connection
- ✓ Low-maintenance solar operation across a semi-rural site

## Project Implementation

### Leadsun Solution

LeadSun delivered a solar carport lighting solution for Solstice at Fiddymment Ranch, a luxury residential development in a semi-rural, very dark stretch of Roseville where residents needed safer passage from carport to front door after dark. Twenty-seven 30-watt Link Lights were installed across 16 carports: five single-car garages each received one Link Light powered by a 60-watt AE3C solar engine, while eleven two-car garages received dual Link Lights on a larger 90-watt AE3C engine. Because each system is solar-powered, installation required no cabling, trenching, or mains connection, keeping the work quick with minimal disruption to residents. Adaptive output runs the lights for six hours after dusk at 15-80%, adjusting to ambient light, then holds 10-50% until dawn. The result is dependable, grid-independent illumination with no electricity bills and minimal ongoing maintenance.

### System Performance

**Two-Stage Adaptive Output:** Lights run six hours after dusk at 15-80%, adjusting to ambient conditions, then hold 10-50% until dawn to conserve battery.

**Sized-to-Structure Configuration:** Single-car carports paired one Link Light with a 60W engine; two-car carports ran dual lights on a 90W engine.

**Grid-Independent Installation:** No cabling, trenching, or mains connection required, delivering clean solar power with no electricity bills and minimal ongoing maintenance.