

SOLAR PARK & RECREATION LIGHTING

Improves safety and visibility in Sacramento, California



Project Snapshot

 Location Sacramento, CA	 Application Park pathway, parking lot, and recreation lighting
 Systems Installed 23 LeadSun solar lighting systems	 Technology AE3 + AE6 integrated solar lighting

Project Implementation

Leadsun Solution

LeadSun delivered a decentralized solar lighting solution for Arcade Creek Park, a multi-use site with no existing electrical infrastructure and underground water pipelines that made traditional grid lighting prohibitively costly. Twenty-three AE-series systems were deployed across pathways, the parking lot, basketball court, and play areas, with panel placement engineered to avoid shading from the park's mature oak and eucalyptus canopy. Each system integrates the solar panel, battery storage, controller, and LED fixture into a single pole-mounted unit, eliminating trenching and cabling. EZYPole and EZYFoot mounting accelerated deployment with minimal site disturbance. PIR motion sensors drive adaptive output, extending battery life while limiting impact on local wildlife. The result is consistent, grid-independent illumination that enhanced safety and usage while avoiding the disruption and expense of underground electrical work.

Project Impact

- ✓ Improved nighttime visibility across pathways and recreation areas
- ✓ Increased safety for park visitors and families
- ✓ Documented decline in illicit activity, reported by law enforcement
- ✓ Rapid installation without trenching or grid infrastructure
- ✓ Reliable solar operation across a tree-shaded site

System Performance

- Adaptive Output Control:** Dusk-to-dawn operation at 30% baseline, ramping to 100% on motion detection to maximize battery life and minimize wildlife disruption.
- Shade-Optimized Deployment:** Panel placement engineered around mature oak and eucalyptus canopy to maintain charge in a heavily treed park environment.
- Grid-Independent Installation:** 23 systems installed with no trenching or cabling, avoiding the high cost of grid power over underground water pipelines