

SOLAR PARK PATHWAY LIGHTING

Improves safety and visibility in
Sacramento, California

LEADSUN

Limitless Light. Beyond the Grid.



Project Snapshot



Location

Sacramento, CA



Application

Community park main
pathway lighting



Systems Installed

11 LeadSun solar
lighting systems



Technology

AE3 All-In-One integrated
solar lighting

Project Implementation

Leadsun Solution

LeadSun delivered a decentralized solar lighting solution for Howe Community Park, a beloved Sacramento space where heavy tree cover blocked adjacent street lighting and left the main walkway dark after dusk. With no electrical infrastructure on site, traditional grid lighting would have required thousands of feet of trenching through existing water lines, plus conduit, wire, and concrete foundations costing hundreds of thousands of dollars. Eleven AE3 All-In-One systems were installed along the pathway, each integrating the solar panel, battery storage, controller, and LED fixture into a single pole-mounted unit, eliminating trenching and cabling. Highly efficient 30W LED arrays delivered effective illumination without glare or light trespass. Adaptive motion-based output extends battery life while maintaining coverage. The walkway running to Howe Elementary is now visible after dark, creating a safer environment for pedestrians.

Project Impact

- ✓ Improved nighttime visibility along the park's main walkway
- ✓ Increased safety for families and children near Howe Elementary
- ✓ Reduced illicit nighttime activity at a popular community park
- ✓ Rapid installation without trenching through existing water lines
- ✓ Effective coverage with no undue glare or light trespass

System Performance

Adaptive Output Control: Dusk-to-dawn operation at 40% baseline, ramping to 100% on motion detection to maximize battery life while maintaining pathway coverage.

Glare-Controlled Illumination: Efficient 30W LED arrays delivered effective light exactly where needed, without undue glare or trespass onto neighboring properties.

Trench-Free Installation: Eleven systems installed without disturbing existing water lines, avoiding the hundreds of thousands of dollars grid conduit and foundations would have cost.