

SOLAR PARKING LOT LIGHTING

Improves safety and extends hours in
El Dorado Hills, California

LEADSUN

Limitless Light. Beyond the Grid.



Project Snapshot



Location

El Dorado Hills, CA



Systems Installed

10 LeadSun solar
lighting systems



Application

Commercial shopping
plaza overflow parking lot



Technology

AE3 All-In-One with EDGE
wireless control

Project Impact

- ✓ Improved pedestrian and driver safety in overflow parking
- ✓ Extended usable evening hours for dining and retail
- ✓ Increased patronage of previously underused plaza outlets
- ✓ Rapid installation without trenching or rising utility costs
- ✓ HOA-compliant photometric design controlling light pollution

Project Implementation

Leadsun Solution

LeadSun delivered a decentralized solar lighting solution for the overflow parking lot at Montano De El Dorado Shopping Plaza, a popular Mediterranean-inspired hub where the unlit lot created safety concerns and left dining and retail outlets underused after dark. Traditional grid lighting meant rising energy costs and disruptive installation, with the added challenge of avoiding obtrusive light spill onto neighboring residents and the HOA. Ten AE3 All-In-One systems were deployed, each integrating the solar panel, battery storage, controller, and LED fixture into a single pole-mounted unit, eliminating trenching and cabling. LeadSun supplied a compliant photometric design documenting foot-candle levels at the lot and property line, securing city approval and addressing HOA concerns. EDGE wireless control lets plaza management monitor battery health and remotely adjust each fixture, delivering grid-independent illumination that extended usable hours and increased patronage.

System Performance

EDGE Wireless Control: Plaza management remotely monitors battery health and adjusts on/off or dimming per fixture, including on-demand changes requested by the HOA.

HOA-Compliant Photometrics: Documented foot-candle levels at the lot and property line secured city approval and controlled light spill onto neighboring residents

All-Weather Reliability: Leading battery technology kept systems running nightly through California's uncharacteristically harsh early-2023 winter, despite reduced solar collection conditions.