

SCE LED Replacement Effort LS-1 Option E

LED streetlight Replacements for SCE Owned (LS-1)
Fixtures



SCE LS-1 Option E

- Option E facilitates the change out of existing SCE owned High Pressure Sodium (HPSV) streetlight fixtures in communities across our territory
- Communities that participate see savings as soon as the project is completed, and SCE manages the implementation from start to finish
- SCE utilizes “latest generation” GE Evolve Roadway Fixtures which feature superior optics, are “dark sky” compliant, and greatly improve visual acuity
 - Superior ability to “see” color beneath new LED lights versus HPSV
 - New LED lights provide better visibility, translating to safer driving and pedestrian conditions
 - New LED lights save significant energy and lower the community’s overall carbon footprint



Over 275,000 Lights Implemented Across SCE Service Territory

- SCE continues to work with local governments and communities across our service territory and have implemented lights in communities as diverse as Visalia, Blythe, Mono County, Joshua Tree, Santa Barbara, and across the greater LA Basin.
- SCE suggests the standard warmer color temperature for streetlights (3,000k) which has been very successful across implementations over the last several years.
- SCE utilizes a standard “like for like” wattage replacement to preserve the design and look of your community’s streets
 - Wattage replacement developed in conjunction with GE and the Illumination Engineering Society



Implementation

- SCE works during normal business hours to install the new streetlights
 - Installation process very unobtrusive and no outages are required
 - Crews work from curbside and typically work at each streetlight for about 10 minutes
- Most communities with 3,000 to 4,000 streetlights take a little over a month to complete assuming a normal five day per week schedule
 - At present, the wait time is about six months prior to installation begins given other communities in line already
- SCE continues to own, maintain, and operate the streetlights
 - If a light fails for any reason, SCE will replace or repair that light
 - There are never any charges for maintenance or replacement when any failure happens
- The LED upgrade will bring improved safety, lighting, energy and cost savings, and better visual acuity for residents and visitors



Technology

- SCE utilizes the most current generation of GE Evolve Roadway LED fixtures
 - The streetlights provide superior visual acuity and color rendering resulting in safer night environments for drivers and pedestrians
 - The streetlights utilize significantly less energy and reduce the overall carbon footprint within your community
 - The lights are dark sky compliant and have been used in sensitive areas within the SCE territory around Joshua Tree National Park and near the Palomar Observatory in southern Riverside County
 - <https://products.gecurrent.com/outdoor-lighting/street-roadway/evolve-led-roadway-fixtures>



Requirements to Move Forward

- Community to sign LS-1 Option E authorization
- Community confirms 3,000k color temperature
- Work with SCE to facilitate no-fee encroachment permit if required before implementation begins
- SCE manages and implements the project from start to finish
 - Crews spend roughly 10 minutes to replace each light during implementation and work from curbside
- SCE transitions billing as soon as completion is complete (usually takes roughly 90 days to complete billing transition to new LED rate)
 - City will receive credit from the time billing is transitioned back to the date installation was completed to ensure customer receives full savings and is whole

Questions?