

Bureau of Street Lighting

bsl.lacity.org



The City of Los Angeles has the second largest street lighting system in the nation with over 221,000 streetlights and over 400 different styles. The Bureau's mission is "To Provide SMART Energy Efficient Lighting that will promote community safety and identity".

The system is an integral part of the City, providing many different functions during the day and night. It not only provides lighting for Angelenos and visitors at night, makes streets safer for drivers, pedestrians and cyclists, encourages after-dark outings to restaurants, stores, theaters and outdoor events and provides a sense of community identity. The Bureau has many different programs with a few highlighted below.

KEY PROGRAMS AND PROJECTS

SMART CITY

Smart Street Lighting is being recognized by many cities as a first step toward the development of a SMART City. In addition to increasing energy efficiency of the City and reducing energy costs, carbon emissions, and maintenance costs, intelligent lighting can also provide the backbone for a range of other city applications, including public safety, traffic management, smart parking, environmental monitoring, and extended Wi-Fi/cellular communications. The Bureau is working on several pilot projects as technology advances, including SMART nodes, Air Qualify Sensors, digital banners, and transitional lighting near event centers. BSL has been installing remote monitoring units on streetlights that report when a streetlight is malfunctioning, and to some degree the nature of the problem. They will utilize new technology in the near future to enhance the information and uses for these nodes attached to our streetlights.

HIGH VOLTAGE CONVERSION

The City of Los Angeles has approximately 7,500 remaining high voltage streetlights in the City which will be converted to energy efficient, low voltage LED street lights. The Bureau is in the fourth year of the 5-year program, with a completion date in Fiscal Year 2020-2021.

ELECTRIC VEHICLE CHARGING STATIONS

The Bureau has installed 282 Electric Vehicle (EV) Charging Stations throughout the City, which are attached to the existing Streetlights. This program is part of the City's Sustainable City PLAN to provide a network of EV Charging Stations to encourage the expansion of electric car use in the region. In FY 19-20, the Bureau will install an additional 150 EV chargers throughout the City.

CO-LOCATION/TELECOMMUNICATION ATTACHMENTS

The City of Los Angeles has a resident population of approximately 4 million and as more communication devices are being used with the need for faster service, the demand and need to attach additional antennas and cabinets are required. These attachments are required Citywide and will strengthen the City's cellular coverage for constituents, businesses, visitors and for use during emergency situation.

Within the public-right-of-way there are few options where these communication systems can be installed; cabinets within the sidewalk area; the addition of a monopole (single pole installed just to hold up the antennas); and on a streetlight. Streetlights are the best option since they are at the optimum height, have an existing electrical infrastructure, and do not add an additional structure into the public right of way. It is for this reason the Bureau has implemented the co-location program.

VISION ZERO/MID-BLOCK CROSSWALK

The Vision Zero is a road safety policy that promotes smart behaviors and roadway design to reduce collisions that result in severe injury or death. Street Lighting plays an important role in the public safety of vehicles and pedestrian traffic to provide nighttime visibility of and for pedestrians crossing the street. The Bureau designs and constructs increased lighting at mid-block crosswalks and intersections, to ensure the safety of Angelenos throughout the City.

Total Number of Electric Vehicle Chargers Installed

2018 - 2019	150
2017 - 2018	50
2016 - 2017	50
2015 - 2016	32

New Streetlights Installed

2018 - 2019	949
2017 - 2018	1,374
2016 - 2017	2,473
2015 - 2016	1,771

Street Lighting Maintenance Assessment Fund Revenue in Millions

2018 - 2019	\$46.1 M
2017 - 2018	\$45.4 M
2016 - 2017	\$45.4 M
2015 - 2016	\$44.7 M



By the Numbers

BSL

65,849	METRIC TONS OF CO2 EMISSIONS REDUCED (LED PROGRAM TOTAL)
5,000	HIGH VOLTAGE UNITS CONVERTED TO LOW VOLTAGE
6.7	AVERAGE DAYS FOR SINGLE LIGHT REPAIR
15.3	AVERAGE DAYS FOR MAJOR STREETLIGHT REPAIRS
99.34%	LIGHTS OPERATING
1,083	LIGHT BANNER PERMITS APPROVED
949	NEW STREET LIGHTS INSTALLED
1,979	REMOTE MONITORING NODES INSTALLED ON STREETLIGHTS
84%	ELECTRONIC PLAN CHECKS PROCESSED
1,175	CO-LOCATED CELL TECHNOLOGY ATTACHMENT PERMITS APPRVOED
150	ELECTRIC VEHICLE CHARGING STATIONS INSTALLED IN FY 17-18
100	TUNNELS CONVERTED TO LED LIGHTING
75	PEDESTRIAN CROSSWALK LIGHTING UPGRADES

