

## **SMUD Charges for Maintenance and Non-Standard Equipment on Street and Outdoor Lighting Service Rates**

SMUD's monthly bills for street and outdoor night lighting services include separate charges for 1) The energy used by the light fixture and 2) Any services provided by the District for installing equipment and ongoing maintenance.

**Energy Charges.** The charge for the energy use can be found in the SMUD tariff schedules SLS and NLGT as a monthly cost multiplier to the lamp wattage. This charge can only be revised through a rate action approved by the SMUD Board of Directors.

The following tables present the additional monthly charges for SMUD services to install, maintain and replace standard lamps and fixtures, and for the cost of providing additional or alternate non-standard installations.

**Maintenance Charges.** Table 1 presents the monthly maintenance and replacement charges for currently approved lamps with standard fixture installations. The costs vary by lamp type, lamp wattage, and the ownership status of the pole and fixture under the following rate options:

*Customer-Owned, District-Maintained, (Rate Code CODM)* where the customer owns the street lighting equipment and desires SMUD to provide for the lamp servicing and maintenance, including the lamps, refractors and ballasts,

*District-Owned, District-Maintained (Rate Code DOM)* where the customer wishes SMUD to install, operate and maintain the entire street lighting system, and

*Outdoor Lighting Service (Rate Code NLGT)* where SMUD installs and maintains its own fixtures on SMUD-owned poles to provide security and night lighting at customer sites.

**Cost Updates.** SMUD's 2009 rate action effectively unbundled the charges for street and night lighting for the first time. As a result, Table 1 reflects the residual cost for operations and maintenance after the appropriate energy charges have been subtracted out from the original total costs per lamp. Future updates will seek to align these costs more closely with actual District expenses. Costs reflected in both Table 1 and Table 2 will be reviewed annually and updated for the addition of any new SMUD-approved lamps and fixtures and for any substantive changes.

**Table 1**  
**Lighting Fixture Maintenance Charges**  
For Standard Installation (*Effective January 1, 2019*)

Lamp Type	Lighting Fixture Ownership	SMUD Rate Code <sup>1</sup>	Rated Watts <sup>2</sup>	Cost per Lamp per Month
Incandescent <sup>3</sup>	SMUD	SL_DOM	189	\$4.49
			295	\$1.96
			405	\$4.14
Mercury Vapor <sup>3</sup>	Customer	SL_CODM	205	\$1.40
			455	\$0.75
	SMUD	SL_DOM	205	\$7.87
			455	\$12.09
		NLGT	205	\$8.32
			455	\$11.32
Sodium Vapor	Customer	SL_CODM	117	\$2.97
			228	\$2.93
	SMUD	SL_DOM	117	\$9.97
			228	\$17.48
		NLGT	117	\$10.42
			228	\$16.71
LED_Cobra <sup>4</sup>	SMUD	SL_DOM	38	\$9.23
			73	\$9.77
LED_PT <sup>4</sup>	SMUD	SL_DOM	38	\$10.86
			71	\$11.27
LED_NL <sup>4</sup>	SMUD	NLGT	40	\$9.58
			60	\$8.76

**Notes:**

- Rate Codes  
SL\_CODM = Street Lights, Customer Owned, District (SMUD) Maintained  
SL\_DOM = Street Lights, District (SMUD) Owned and Maintained  
NLGT = Night lighting  
LED = Light Emitting Diode, District (SMUD) Owned and Maintained
- Connected load wattage based on manufacturer's rating, including auxiliary equipment to operate the lamp. Incandescent wattages, which are rated for 130 volts, have been adjusted for operation at 120 volts.
- Mercury and incandescent lamps are among the least efficient lighting sources and the most expensive to operate. SMUD does not support future installation of these lamp and is in the process of replacing all existing SMUD-owned mercury and incandescent lamps with more efficient lamp types. During future updates, these lamp costs will rise faster than other lamp types to more closely reflect their actual costs. For this reason, SMUD encourages customers with mercury lamps to convert.
- The rated wattage of LED lamps may vary due to the technology improving to create more energy efficient lights. Currently SMUD offers a sodium vapor 100W equivalent and a sodium vapor 200W equivalent for LED lamps. For example, the SL\_DOM has a 38W LED (100W equivalent) option and a 73W LED (200W equivalent) option for SL\_DOM cobra head lamps.

**Non-Standard Equipment.** SMUD standard design for lighting installations includes luminaires with arms of six feet or less, mounted on wood poles and powered by secondary service voltage. Table 2 presents the additional billing charges for customers who require non-standard fixture installations, including longer luminaire arms, alternate pole types, primary service voltage, added transformers and longer line extensions.

Table 2  
 Additional or Alternate Equipment Charges  
 For Non-Standard Installations (*Effective January 1, 2019*)

Additional Equipment*	Installed Cost / month	Standard Installation
12-foot luminaire arm and brackets	\$0.66 per pole	Up to six feet
Glare shield	\$0.84 per luminaire	None
Additional wood pole	\$2.15 per pole	Wood pole
Alternate fiberglass, concrete, steel or laminate pole	\$5.75 per 20-25 ft pole \$12.35 per 30-35 ft pole	
Pole on primary voltage service	\$35.45 Per pole	Secondary voltage
Transformer	\$19.49 per transformer	None
Line extension on secondary service	\$16.46 per span	First 250 feet

\* No additional charges will be applied for facilities installed on or prior to February 1, 1950.