



Electricity Cost of Waste Outdoor Lighting, United States - 2016

EIA Data for 2016 - EIA data Release date Nov. 6, 2017. Next release date October 15, 2018.
 U.S. Lighting Market Characterization data published November 2017

Electricity Consumption

Sector	Number of Customers	Consumption avgKWh/month	Consumption avgKW/year	Consumption totalKWh/Year	avgRate \$/KWh	2016 Total\$	Overall Avg\$/KWh
Residential	131,068,760	897	10,764	1,410,824,132,640	\$0.1255	\$177,058,428,646	
Commercial	18,148,353	6,278	75,336	1,367,224,321,608	\$0.1043	\$142,601,496,744	
Industrial	838,059	97,121	1,165,452	976,717,537,668	\$0.0676	\$66,026,105,546	
				3,754,765,991,916		\$385,686,030,936	\$0.1027

(16% of total elec)	Lighting	600,762,558,706.56	\$61,709,764,950
(32% of lighting)	Outdoor Lighting	192,244,018,786.10	\$19,747,124,784
(30% of Outdoor Lighting)	Waste Outdoor Lighting	57,673,205,635.83	\$5,924,137,435

2016 Waste Outdoor Lighting \$/yr = \$5,924,137,435

Sources:

U.S. Department of Energy, Energy Information Administration

http://www.eia.gov/electricity/sales_revenue_price/index.cfm

Summary Tables - Electric Sales, Revenue, and Average Price with data for 2016
 For Residential, Commercial and Industrial market sectors

https://energy.gov/sites/prod/files/2017/12/f46/lmc2015_nov17.pdf

DOE 2015 U.S. Lighting Market Characterization published November 2017

From Table ES-1 U.S. National Energy Use for Lighting Disaggregated by Sector

Lighting accounts for 16% of total electric consumption

Outdoor Stationary lighting is 32% of total lighting electric consumption (Table 5.1)

The outdoor sector comprises nine different applications including building exterior, airfield, billboard, railway, stadium, traffic signals, parking, roadway, and communication tower.

The outdoor stationary sector accounts for the sources not installed inside buildings.

Outdoor stationary includes sources that may be associated with a specific commercial or industrial building but are installed on the exterior, such as parking lot lights or exterior wall packs.

* The Waste Outdoor Lighting \$ shown here is based on 30 percent waste factor (estimated) for all outdoor stationary light sources

Waste Outdoor lighting is defined as: Direct upright + Lights on where they are not needed + Lights on when they are not needed