



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

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

(19% of total elec)

(16.8% of lighting)

(30% of Outdoor Lighting)

Lighting

Outdoor Lighting

Waste Outdoor Lighting

713,405,538,464.04		\$73,280,345,878
120,258,771,618.88		\$12,352,867,905
36,077,631,485.67		\$3,705,860,371

2016 Waste Outdoor Lighting \$/yr = \$3,705,860,371

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

<http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/2010-lmc-final-jan-2012.pdf>

DOE 2010 U.S. Lighting Market Characterization published January 2012

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

Lighting accounts for 19% of total electric consumption

Outdoor Stationary lighting is 16.8% of total lighting electric consumption

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

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. This is in contrast to the 2001 report in which some outdoor lighting was classified in the commercial and industrial sectors.

In addition, the 2010 estimates for the outdoor sector include subsectors not previously analyzed, namely stadiums and railroad applications.

* 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