

## Electricity Cost of Waste Outdoor Lighting, United States - 2020

U.S. Department of Energy, Energy Information Administration (EIA) Data for 2020 - EIA data Release date Oct. 7 2021. Next release date October, 2022 U.S. Lighting Market Characterization data for 2015, published November 2017

## **Electricity Consumption**

Sector	Number of	Consumption	Consumption	Consumption	avgRate	2020	Overall
	Customers	avgKWh/month	avgKW/year	totalKWh/Year	\$/KWh	Total\$	Avg\$/KWh
Residential	136,682,001	893	10,716	1,464,684,322,716	\$0.1315	\$192,605,988,437	
Commercial	18,848,813	5,692	68,304	1,287,449,323,152	\$0.1059	\$136,340,883,322	
Industrial	992,311	80,542	966,504	959,072,550,744	\$0.0667	\$63,970,139,135	
			Total	3.711.206.196.612		\$392.917.010.894	\$0.1059

16% of total elec)	Lighting	593,792,991,457.92	\$62,866,721,743
32% of lighting)	Outdoor Lighting	190,013,757,266.53	\$20,117,350,958
30% of Outdoor Lighting)	Waste Outdoor Lighting	57,004,127,179.96	\$6,035,205,287

2020 Waste Outdoor Lighting \$ =

\$6,035,205,287

## 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 2020 For Residential, Commercial and Industrial market sectors, tables 5.a, 5.b, and 5.c

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 uplight + Lights on where they are not needed + Lights on when they are not needed