



ANNUAL COST OF ELECTRICITY DUE TO WASTED OUTDOOR LIGHTING IN U.S.

Electricity Cost of Waste Outdoor Lighting, United States - 2008

Sector	Number of Consumers	Consumption avgKWh/month	Consumption avgKW/year	Consumption totalKWh/Year	Rate \$/KWh	2008 Total\$	Overall Avg\$/KWh
Residential	124,937,469	920	11040	1,379,309,657,760	\$0.1126	\$155,310,267,464	
Commercial	17,562,726	6,339	76068	1,335,961,441,368	\$0.1036	\$138,405,605,326	
Industrial	774,713	108,567	1302804	1,009,299,195,252	\$0.0683	\$68,935,135,036	
				3,724,570,294,380		\$362,651,007,825	\$0.0974

(22% of total elec)

(8% of lighting)

(30% of Outdoor Lighting)

Lighting

Outdoor Lighting

Waste Outdoor Lighting

819,405,464,763.60		\$79,783,221,722
65,552,437,181.09		\$6,382,657,738
19,665,731,154.33		\$1,914,797,321

2008 Waste Outdoor Lighting \$/yr = \$1,914,797,321

Sources:

<http://www.eia.doe.gov/cneaf/electricity/esr/table5.html>

Table 5. U.S. Average Monthly Bill by Sector, Census Division, and State 2008

<http://www.p2pays.org/ref/36/35859.pdf>

DOE 2002 U.S. Lighting Market Characterization Volume I: National Lighting Inventory and Energy Consumption Estimate

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

Lighting accounts for 22% of total electric consumption

Outdoor Stationary lighting is 8% of total lighting electric consumption

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

Waste Outdoor Lighting = Lighting operated when it's not needed, where it's not needed, more light than is needed, direct uplight.