

Light Pollution has  
**GLOBAL IMPACTS**

Light emissions from the continents represents

**246,238**  
gigawatt-hours of energy



Representing 1% of global emissions, or the equivalent of



**38 MILLION**  
vehicle miles



**80 ROUNDTRIPS**  
from Earth to the Moon

1

Light Pollution is  
**WASTED LIGHT**



**99%** of outdoor light is **WASTED**

**1%** of outdoor light serves a useful purpose



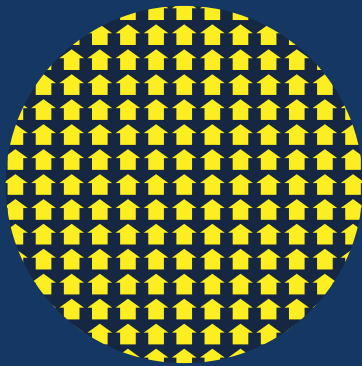
2

Light Pollution is  
**WASTED ENERGY**



In the U.S. alone, outdoor lighting consumes about

**380 tWh**  
every year



That's enough to power

**35 MILLION**  
homes

3

Light Pollution drives  
**CLIMATE CHANGE**

U.S. outdoor lighting creates about

**228 MILLION**

metric tons of

**CO<sub>2</sub>**  
emissions every year



Which is the same as  
**49 MILLION**  
passenger vehicles  
driven for a year



And would take  
**3.8 BILLION**  
tree seedlings growing  
10 years to offset



4

Light Pollution has  
**SOLUTIONS**



This waste can be solved with advanced lighting controls like **DIMMING** and **MOTION SENSORS**

and transitioning to **ENERGY-EFFICIENT LEDs**



which would save  
**\$15.4 BILLION**  
per year in the U.S. alone

5

**3 things YOU CAN DO**

1.



**Assess your home's outdoor lighting**  
[darksky.org/home-lighting](https://darksky.org/home-lighting)

2.



**Look for Dark-Sky Approved fixtures at your retailer**  
[darksky.org/fsa](https://darksky.org/fsa)

3.



**Join us and be part of the international movement**  
[darksky.org/join](https://darksky.org/join)

Sources

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4 U.S. Environmental Protection Agency, GHG Equivalencies Calculator  
<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator#results>

