

Solar Street Lights Can Save Over \$50 Million In Energy Costs, Says Study

With an increasing number of LED street lights, the study suggests ways to save over 60% of total public lighting expenses

SARASOTA, FLORIDA, UNITED STATES, January 8, 2024 /EINPresswire.com/ -- A [study from Eco-\\$mart Inc.](#), suggests major cities in the country can together save more than \$50 million by simply switching over to solar-powered public lighting. The study analyzed over 1,918,999 street lights across 20 major cities to arrive at the total savings potential.

Cities & Their Total Street Lights:

City	No. of Streetlights
New York	315000
Chicago	250000
Los Angeles	230000
Houston	174000
Philly	129999
Phoenix	100000
Dallas	95000
Seattle	85000
Charlotte	72000
Boston	67000
Fort Worth	64000
Nashville	56000
Denver	55000
Portland	55000
San Diego	40000
Oklahoma City	34000
San Jose	27000
Indianapolis	27000
San Francisco	25000
El Paso	18000
Total	1918999

Key findings of the Eco-\$mart study:

Current Scenario: The study assumes that all 1,918,999 street lights, regardless of their existing technology, consume an average of 1.2 kWh per day. And with an average energy cost of \$0.10 per kWh, this results in \$83.35 million worth of yearly public lighting expenses.

The solution: While cities are increasingly switching over to LEDs for street lighting, energy-intensive HID lamps are still common at some places. Eco-\$mart proposes a two-phase solution for cost savings across the surveyed cities:

Switching from HID to LED lighting entirely

100% transition to solar energy for street lighting

Financial Gains: Although public [lighting costs](#) a whopping \$83.35 million in taxpayer dollar expenditure, a switch to solar can save at least 60 percent of this amount. In dollar value, this translates to more than \$50.01 million worth of savings.

Environmental Rewards: Apart from economic benefits, the transition to solar-powered LED lights also promises to significantly reduce carbon emissions. This will also result in sustainable urban development and aid global green energy efforts.

Here's what Matt from Eco-\$mart had to say:

"Our study highlights the potential for cities to save millions in electricity costs annually by simply switching to solar street lighting. This transition offers sensible economic choice and also helps make cities sustainable and resilient," said Matt Ross, CEO, Eco-\$mart Inc.

[Ecosmart Inc.](#) invites city officials, urban planners, and environmentalists to explore the adoption of solar-powered LED street lights. The cost savings and environmental impact of this transition will outpace the initial investment and help cities set a sustainable growth example.

Study References:

We gathered data regarding a number of street lights from city websites and other reputed resources. We listed a few resources below:

<https://fsg.com/case-studies/city-of-el-paso-streetlight/>

<https://sf.curbed.com/2017/5/18/15658330/led-streetlights-sf>

<https://www.nyc.gov/html/dot/html/infrastructure/streetlights.shtml>

<https://www.inquirer.com/politics/philadelphia/philly-to-get-all-new-streetlights-20230808.html>

https://www.chicago.gov/city/en/dataset/street_lights_out.html

[https://www.sanjoseca.gov/your-government/departments-offices/transportation/streets/streetlights/led-conversion-](https://www.sanjoseca.gov/your-government/departments-offices/transportation/streets/streetlights/led-conversion-program#:~:text=The%20City%20has%20partnered%20with,emiting%20diode%20(LED)%20fixtures)

[program#:~:text=The%20City%20has%20partnered%20with,emiting%20diode%20\(LED\)%20fixtures](https://www.sanjoseca.gov/your-government/departments-offices/transportation/streets/streetlights/led-conversion-program#:~:text=The%20City%20has%20partnered%20with,emiting%20diode%20(LED)%20fixtures)

<https://www.quora.com/Are-there-any-solar-powered-street-lights-in-New-York-City>

<https://www.ameresco.com/portfolio-item/chicago-smart-lighting-program-il/>

<https://lalights.lacity.org/about/>

<https://www.sanjoseca.gov/your-government/departments-offices/transportation/streets/streetlights/led-conversion-program>

<https://www.c40.org/case-studies/cities100-houston-led-street-light-conversion-yields-big-savings/>

<https://www.nbcdfw.com/news/local/switch-to-brighter-led-dallas-streetlights-considered/2927278/>

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