



SAVE MONEY WITH SOLAR LIGHTING

Learn how solar lighting can save you money compared to grid lights





So you have a new lighting project and are thinking of looking at solar lights as a green alternative. As we all know, solar is becoming the go to option for all types of applications.

This is an overview of how installing solar instead of a typical 250 Watt HPS street light can save you lot of money as well as reduce your CO₂ impact on the earth.

By the end of this you will have a better knowledge of the costs associated with solar and how solar is a better option for both your wallet and the environment.

Electrical Components

Electrical Lights require:

250 Watt HPS Street Light Fixture

Fixture Mounting Bracket

Light Pole

Total Cost: \$1,375.00

As you can see, there isn't much to purchasing a standard electrical street light, but there are hidden costs to consider, we will cover that further on.





Solar Components

Solar Power Assembly w/ Battery Backup

40 Watt LED Light Fixture

Fixture Mounting Bracket

Light Pole

Total Cost: \$4,800.00

Solar lights have a higher upfront cost...

but there are other things to consider.

Electrical Installation

First step is bringing in the electric grid:

This includes:

Step down transformers

Trenching and boring

Underground wire

Estimated Total Cost: \$3200.00

Second step is set pole and install fixture:

Estimated Total Cost: \$750.00

Final Electrical Installation Cost: \$3950





Solar Installation

Solar does not require extension of the grid power or any trenching. All that is required is to set pole and install solar and fixture:

Estimated Total Cost: \$750.00

The cost difference between the installation alone can offset the cost of the solar lights.

Electrical Operation

The national average electrical costs is .18/kWh

The average night is 12 hours and uses 3.6 kWh

250 Watt HPS light consumes 3.6 kWh per night

One light costs \$19.71 to operate per month

One light costs \$236.52 to operate per year

One light costs \$5,913 to operate over 25 years

Cost to operate AC powered lights adds up fast!

Over 25 years, a mere 10 lights will cost over \$59,000 in electrical costs alone! And that is assuming that the cost of electricity does not go up in the next 25 years.





Solar Operation

Solar produces electricity from the sun making the cost nothing:

No matter how many lights

No matter how long they run

No matter how many years

No matter what!

Electrical Maintenance

250 Watt HPS Fixture Maintenance

Lamp Replacement (5 years) \$200

Photocell Replacement (5 years) \$85

Labor for Replacements \$750

Estimated Total Cost \$1035 (25 Years)





Solar Maintenance

The only routine maintenance required on a SEPCO solar lighting system is:

Battery Replacement (6 years): \$2050

LED Lamp Replacement: (20 years): \$850

Labor for Replacements: \$1100

Estimated Total Cost \$4000

Electrical

Electric 250 Watt HPS

Parts = \$1875

Installation = \$3950

Electricity = \$5913

Maintenance = \$1035

Total = \$12773

Solar

Solar Powered Light

Parts = \$4800

Installation = \$750

Electricity = \$0

Maintenance = \$4000

Total = \$9550

-30% Federal Tax Incentive = \$6685

Note: Additional State, Local, and Utility Credits are available that can lower the cost more. Visit www.dsireusa.org for more info.



While the high upfront cost of solar lighting can be daunting at first glance, the reality is that in the long run, solar lighting is far more economical than standard AC power lighting when all things are taken into consideration (i.e. parts, installation, electricity and maintenance). Better yet, solar lighting is good for the environment and will eliminate thousands of pounds of CO₂ over their lifetime.

**This comparison is for a standard 250 Watt HPS fixture vs a 40 Watt LED fixture as the LED can meet minimum lighting requirements standardly used for roadway applications.*

THANK YOU FOR YOUR TIME!

Kindly get in touch to let us know if you have any questions.

One of our solar specialists would be happy to help you choose the best option for your Solar Lighting project and provide clean, renewable solar energy!

INFO@SEPCONET.COM
WWW.SEPCO-SOLARLIGHTING.COM

1521 SE PALM COURT
STUART, FL 34994
772-220-6615