



SUNFARM ENERGY SOLAR FRIDAY

UNDERSTANDING ELECTRICITY

AND SOLAR!

What is a watt?

A watt (W) is a unit of power. We can think of power as “the ability to do work.”

When talking about electricity, power is voltage times amperage. One watt (W) equals one volt (V) times one ampere (A)



What is a watt-hour?

While a watt is a measure of power, a watt-hour is a measure of energy, or the amount of work done over a certain period of time.



What is a kilowatt-hour?

A kilowatt is just 1,000 watts. A kilowatt-hour (kWh) measures the average output of 1,000 watts over an hour.

How do you compare power and energy?

Think about electricity as a marathon runner. Power is the ability to run at a specific pace, while the distance covered is the amount of energy they used.

The marathon athlete runs (power) for a period of time (hours) and travels 26.2 miles (energy).

Power (Watts)

Imagine running
13.1 miles takes
300 watts of power.



X

Time (Hours)

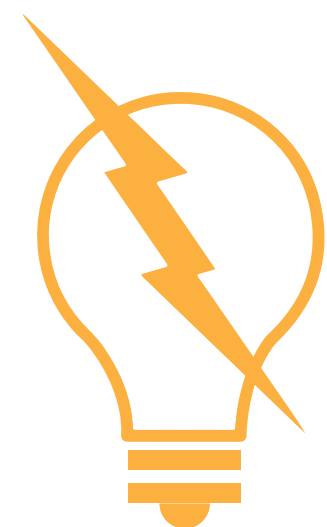
An athlete runs
for 2 hours



=

Energy (Work Done)

Running 26.2 miles
uses 600 watt-hours



$$\text{Watt-Hours (Energy)} = \text{Watts} \times \text{Time}$$

What does this mean for my electrical bill?

When you look at your bill, you will notice that your utility company charges you for the number of kilowatt-hours (kWh) that you use.

Each day, your electrical meter records the amount of power you use at home. At the end of each month, this measurement adds up to a specific number of kWh of energy consumption. Your utility then bills you at a fixed rate for that consumption.

CALCULATING YOUR ELECTRICAL BILL

You Used
1,000 kWh
Last Month

Your Utility
Bills at **\$0.15**
per kWh

Your Bill Will
Be **\$150**
Plus Fees

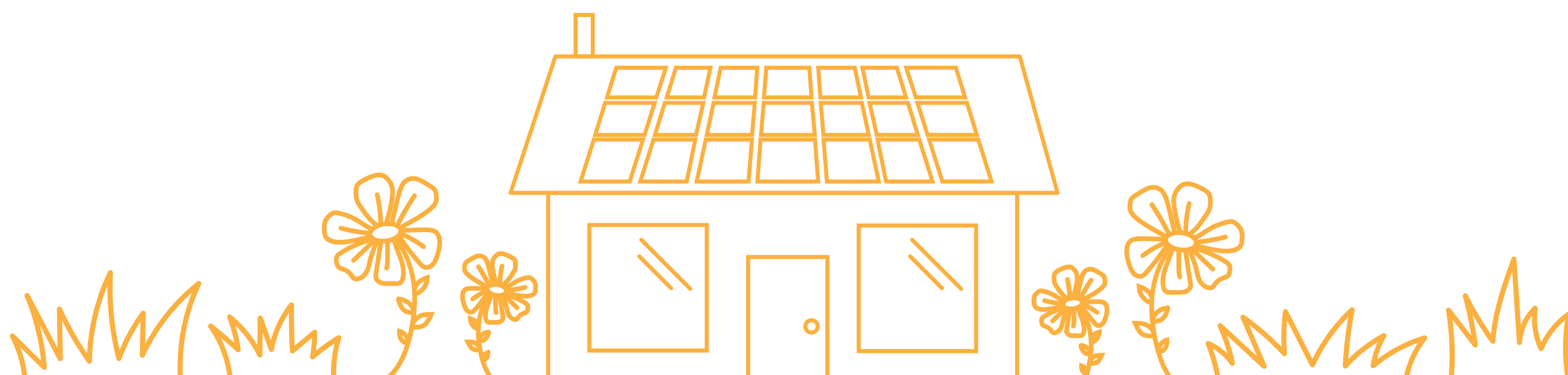
How does adding solar reduce my energy costs?

Solar panels produce power to help run all the electrical appliances in your home. This can include your air conditioner, dishwasher, and even an electric vehicle.

Adding solar reduces your electrical bill by replacing the electricity you would have normally purchased from the utility company.

Instead of being charged for the energy you consume, you're producing and consuming energy that's generated right on your rooftop.

Less energy purchased from the utility means a lower bill and more money back in your pocket.





**Learn more at:
solarreviews.com
or give us a call.**

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