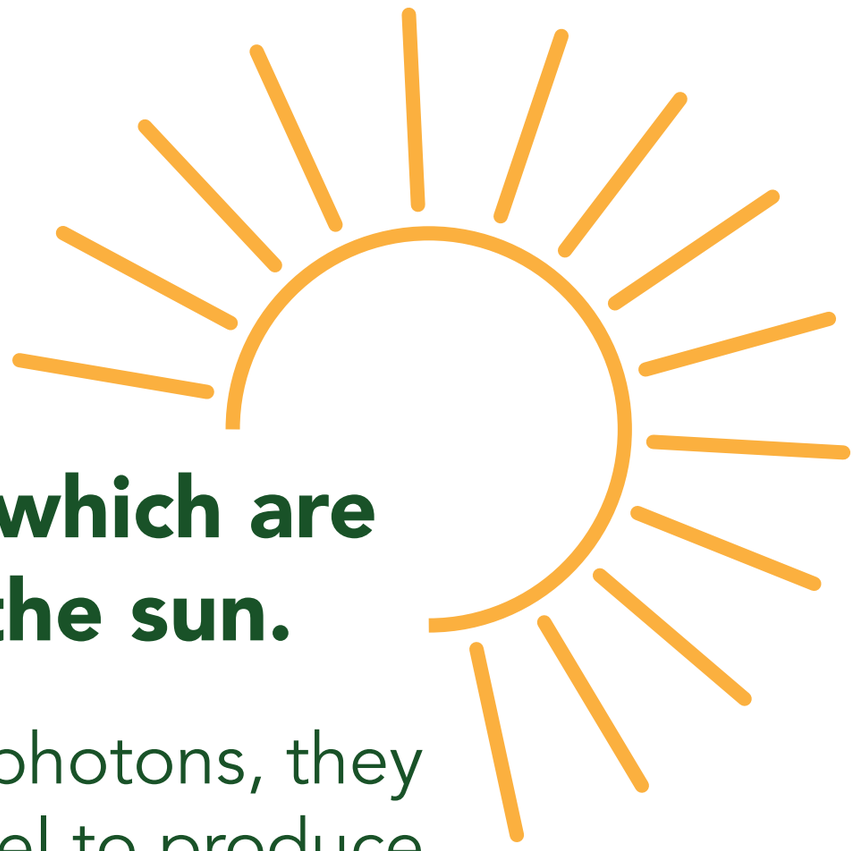
SUNFARM ENERGY SOLAR FRIDAY

HOW DO SOLAR PANELS WORK?

At their most basic level, solar panels convert light into electricity.

Did you know? Humans have been using sunlight to create thermal energy since as early as the 7th Century B.C., Improvements in technology over the past few decades have finally allowed rooftop solar to be a financially viable option for people all over the world.



Solar panels absorb photons, which are tiny particles of energy from the sun.

When your solar panels absorb these photons, they react with the materials inside the panel to produce an electric current. Solar panels are made from silicon, a key ingredient in modern electronics.

Photons excite electrons inside the silicon's atoms until they start to dart around and break away - creating an electric current.

This current is known as direct current, or DC. However, DC only flows in one direction. The nature and behavior of this type of current also makes it unsuitable for use in the home. That's why we need to introduce an inverter.

DC travels along copper wiring through an inverter where it's converted to alternating current or AC.

Solar panels contain copper wiring which leads the current through the inverter. SunFarm Energy uses a microniverter system, which means each panel has its own inverter attached. This system makes it easier to monitor how much energy you're producing. The AC that is created is now ready for use in your home!

After passing through your breaker box, the AC is now available for in-home use. You're finally using the electricity you've produced with solar!

You're now ready to use solar energy to power your home! Did you know? Solar panel systems are so efficient that they actually produce more energy than your home can typically use. Any excess energy produced on your rooftop is returned to the grid for use elsewhere.

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Congratulations on your new rooftop power plant!

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