



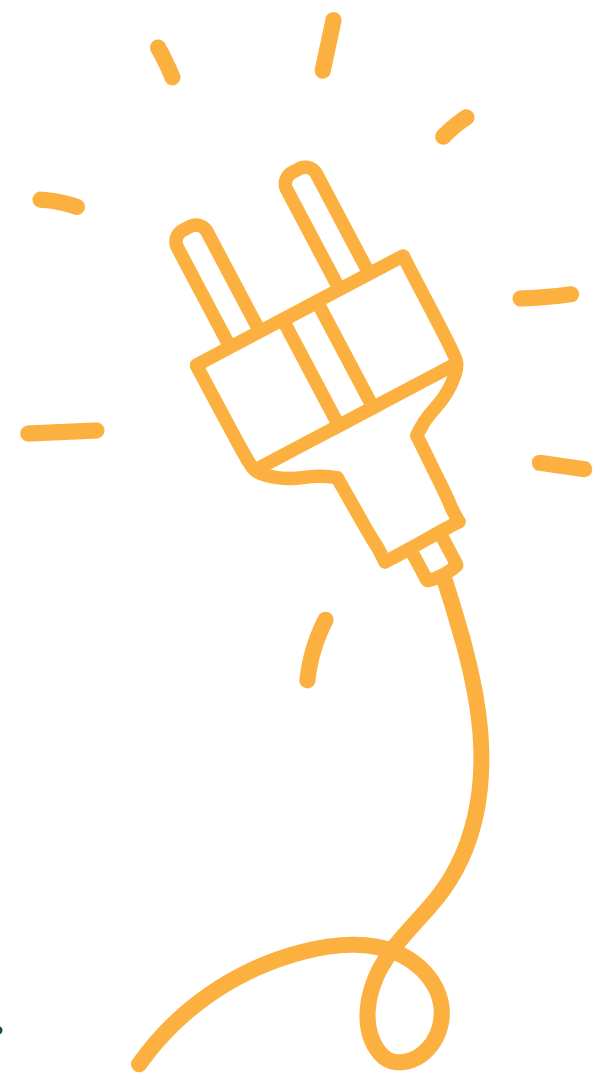
SUNFARM ENERGY SOLAR FRIDAY

# SOLAR PANEL PERFORMANCE

## **When will my solar panels generate power?**

Solar panels use sunlight to generate electricity for your home.

However, many people often wonder how panel performance changes during cloudy days or when the sun isn't shining.



## **Solar panels generate the most electricity on very sunny days.**

During daylight hours, your panels want to soak up as much sun as possible.

The more direct sunlight, the more power you're generating for your home.





## **Solar panels will generate power even on cloudy days.**

Solar panels generate energy as long as the sun is shining, but they may not perform as efficiently in cloudy weather.

On rainy or cloudy days, panels will produce about 10-25% of their normal power output. While it's true that solar panels may not perform as well on cloudy days, they can still help offset your power needs.

In some areas, the presence of clouds can boost performance by reflecting and magnifying sunlight.

So whether you're living in a sunny or cloudy climate, solar can still make a big difference.

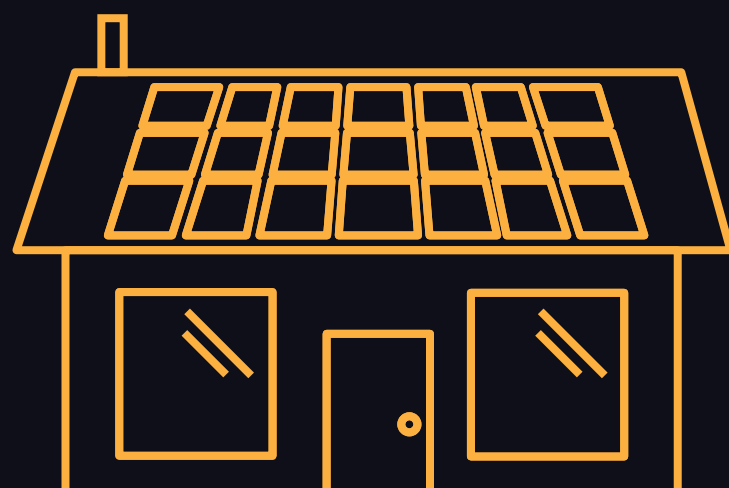


## Will my panels work at night?

The short answer to this question is no. Solar panels do need some form of sunlight to continue generating power.

However, net-metering programs can help customers earn credits when they send excess energy back to the grid. During nighttime hours, they can draw from these credits for their power needs.

Another solution is to add battery storage. Instead of sending any excess energy back to the grid, you can store it for later use during evening hours or in an outage.



## What about shade?

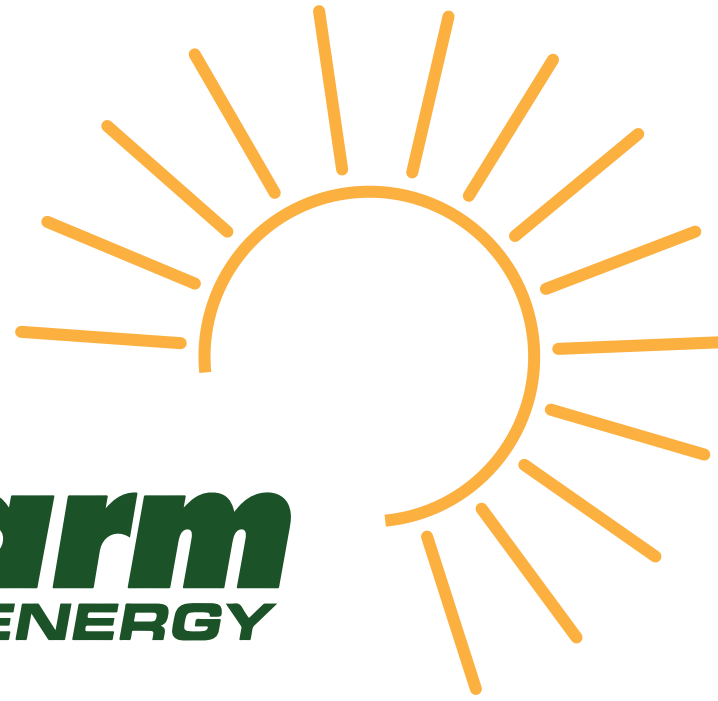
As we've mentioned, your solar PV system will perform best on sunny days with no clouds or additional obstructions.

That means it's important to factor in any shade on your property. Do you have large trees or roof features that might block your panels during daylight hours?

Be sure to work with your Energy Consultant to make sure all shade factors are considered when adding solar.



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**Have more questions about your solar panels? Give us a call!**

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