

# How many watts of solar panels can generate wind power





## Overview

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How many solar panels do you need for a wind turbine?

However, if you had a larger wind turbine, such as one with a 30-foot diameter rotor and tower height, you would need several hundred solar panels to equal its energy output each day. The more powerful the wind turbine is, the more solar panels you would need to create an adequate amount of electricity.

How many watts can a solar panel produce?

A single panel can produce between 250 and 400 watts of power, depending on the size and quality of the panel. Multiply that by the number of panels you have, and you'll get your total wattage. Now let's look at wind turbines. The average turbine has a capacity of 2 megawatts, which means it can generate up to 6 million watts of power annually.

Do wind turbines produce more energy than solar panels?

One single wind turbine can generate the same amount of electricity in kilowatt-hours as thousands of solar panels. But just because wind turbines produce more energy doesn't make wind energy the undefeated winner. Solar energy, through the CSP systems, can also be used even without the sun.

How much energy can a small wind turbine generate?

That's about the same amount of energy that a small wind turbine can generate in an hour. A small wind turbine can produce up to 10kW per day. So, if you had 10 solar panels, you would get 10 kW per day, which is equivalent to the energy from a small wind turbine.



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This gives you your total needs per day (in Wh and Ah). Then select how many watts of solar you initially want to do the calculation on (can be changed on the fly!) and/or select a wind ...



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