Solar panel consumption per year

Overview

If you're thinking about going solar, one of your biggest questions is likely: how much electricity can a solar panel actually produce?

This in-depth guide breaks down the numbers, the factors that influence output, and how to calculate what you can expect.

The average solar radiation per year is 1831.42 kWh/m². There's no need to go by month for the average solar production per year. The value is found by adding up the estimated production per month over all months. Click on any state below to get the state's local average solar production over all.

The number of peak sun hours depends on your location and time of year. The difference in power output of your panels in summer and winter may be up to 40–50%. How many hours a day do solar panels work?

Southwest states get more sunlight throughout the year than the Northeast states. For instance.

In 2022, residential solar panels generated 37 million megawatt-hours, accounting for 18% of all solar energy in the US, according to the Energy Information Administration. The average US home uses about 11,000 kilowatt hours per year, meaning residential solar panels generated enough electricity.

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