



How many solar panels needed calculator

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You can calculate the number of solar panels you will need with your energy usage, the amount of sunlight you get, and the wattage of the solar panels you choose.

The formula for calculating how many solar panels you need = (Monthly energy usage ÷ Monthly peak sun hours) ÷ Solar panel output

The exact amount of solar panels needed for your home can vary with the characteristics of your roof, environmental factors, your local climate, your budget, your personal energy needs, and the size of your home.

Most homeowners need between 15 and 19 solar panels to cover their power needs. But how do you calculate the number of panels necessary to run your specific home? Solar expert Ben Zientara breaks down the calculations in the video below, or you can read on to find out how to estimate the amount of solar panels that are right for you.

You can get an estimate of how many solar panels you need by using the following formula:

Let's take a closer look at where you can find this information and how to use it to determine what solar system size is right for you in four easy steps!

Check your most recent power bill to see your monthly electricity consumption. The total amount of electricity used is usually shown at the bottom of the bill in kilowatt-hours (kWh).

Your electricity usage is the biggest deciding factor in how many solar panels you need. If you use a lot of electricity, you'll need more panels to cover the costs!

According to the U.S. Energy Information Administration, an average home in America uses about 886 kWh of electricity each month. That's a monthly electric bill of about \$135.

Remember that electricity usage can vary widely depending on your home, your habits, and where you live, so it's essential to check your electricity bills to get the most accurate estimate possible!

Expert tip! Annual home electricity usage will give a more accurate estimate. If you have access to your electricity bills from the last 12 months, you can better understand how many solar panels you'll need. Electricity usage varies significantly from month to month (think about cranking the AC in the summertime), so your most recent bill might not reflect your all-time-high electricity usage.



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The amount of sunshine that hits your roof also plays a vital role in how many solar panels you need. Solar energy production is higher in sunnier states, meaning you'll need to install fewer solar panels than those in overcast states.

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