



Are there many solar panels installed

How many solar panels are there in the United States?

Based on satellite data from Stanford researchers, over 1.47 million solar panels are in use across the 48 states. Even though renewable energy is growing fast, IRENA says the world is not on track to meet the goal of adding 7 TW of renewable capacity by 2030.

How many homes have solar panels?

Around 25 million households have solar panels around the world, according to the IEA. These installations generate a peak output of 130GW - which is 12.3% of the total global capacity. There will be 100 million homes with solar panels by 2030, the IEA has forecasted.

Are global solar installations on track for another record year?

Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in 2024, when 232 GW were installed.

How many solar panels are made a year?

Solar panel production is generally measured in gigawatts, not number of panels, but if we roughly assume 250-watt solar panels are the global average, that means 1.5 billion solar panels are made per year. And that number's only going up. To learn more, check out our guide to where solar panels are made.

That's 29% more than was installed last year, maintaining strong growth even after an estimated 87% surge in 2023. In 2024, an estimated 292 GW of solar capacity was installed by the ...

Global solar smashes annual installation record for the 10th year in a row, with 239 GW of new solar installed in 2022. More countries than ever are real solar contenders, with 26 countries ...

Even as the U.S. guts support for renewable power, the world is still pushing ahead on the shift to solar energy, with installations up 64 percent in the first half of this year. Solar is the fastest ...

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This blog post analyzes the global distribution of solar panels, highlighting the countries with the highest solar power capacity, the factors contributing to their success, and the potential for ...

How much solar capacity is installed in the UK? The UK has an installed solar capacity of more than 19 gigawatts (GW), as of August 2025, according to government data. If we measure that ...

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In the first half of 2025, the country installed more than twice as much solar capacity as the rest of the world combined, accounting for 67% of global additions.

Find up-to-date statistics and facts on the global solar photovoltaic industry.

All data and visualizations on Our World in Data rely on data sourced from one or several original data providers. Preparing this original data involves several processing steps.

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