# The power generation rate of solar panels is still increasing

What is the growth rate of solar energy generation in 2024?
In this context,electricity generation from solar PV grew by a record 475 TWh (30%),the largest increase of all electricity generating technologies by far (Chart 1). In 2024,the growth in electricity generation from solar PV alone surpassed that of all other renewable energy (RE) technologies combined.

How has solar impacted global power generation?
Regarding global power generation,solar nearly doubled its share over the past 3 years,growing by 1.3 percentage points only last year to a 7% share in the world's electricity mix. This growth continued to drive renewable penetration and pushed additions of conventional electricity sources to a new low.

Will solar power increase in 2025?
Source: International Energy Agency, Electricity 2025 (February 2025). According to the International Renewable Energy Agency, solar PV installed capacity increased by a massive 452 GW (alternating current "AC") in 2024.

Is solar power the fastest growing power generation technology?
Solar experienced the fastest growth among all power generation technologiesin terms of electricity output,three times as much as wind power,which was ranked second. As if that weren't enough,global installed solar capacity surpassed 2 TW in 2024. It took nearly 70 years to reach the first terawatt,but only two more to double it.

We explore the data to see where the clean energy transition stands today, from rising investment and job growth to grid needs and critical mineral demand.

The IEA expects global PV module generation to increase by 1,800 TWh per year between 2025 and 2027, causing solar to become the second-largest renewable energy source after wind turbines. The leap in ...

In the first nine months of 2025, more than three-quarters of the electrical generating capacity added in the United States was solar power, according to new data ...

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World installed 380 GW of new solar capacity in first six months of 2025 Global solar installations are on track for another record year. In the first six months of 2025, the world ...

Percentage change in solar energy generation relative to the previous year.

To meet net-zero targets, solar capacity must therefore increase by 20% every year until 2030.

Although it's currently on track to meet that target, the industry still faces challenges. The intermittent ...

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