

# **How much watts of solar power generation has increased**





## Overview

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What is the contribution of solar energy to global electricity production?

While the contribution of solar energy to global electricity production remains generally low at 3.6%, it has firmly established itself among other renewable energy technologies, comprising nearly 31% of the total installed renewable energy capacity in 2022 (IRENA, 2023).

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.

How many kilowatt-hours are generated by wind & solar energy in 2024?

The combined power generation from wind and solar energy amounted to 1.83 trillion kilowatt-hours in 2024, a 27 percent increase from 2023. The figure is roughly equivalent to the electricity consumption of the tertiary industry in 2024, and surpasses the residential electricity consumption, which stood at 1.49 trillion kilowatt-hours.

How did solar power grow in 2024?

While remaining a modest contributor to overall electricity generation for now, solar's share rose to 7% in 2024 – nearly doubling in just three years. Solar experienced the fastest growth among all power generation technologies in terms of electricity output, three times as much as wind power, which was ranked second.



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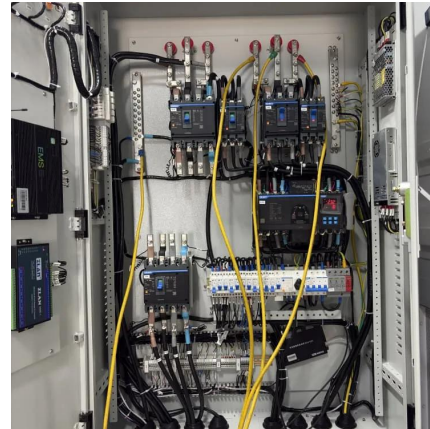
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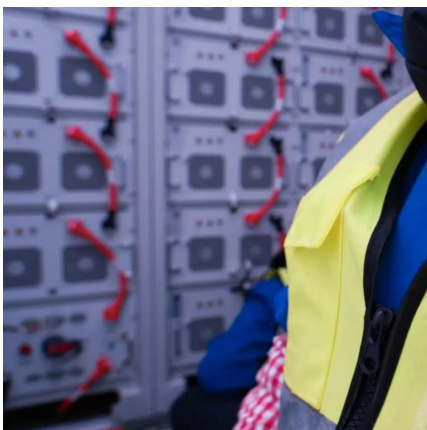
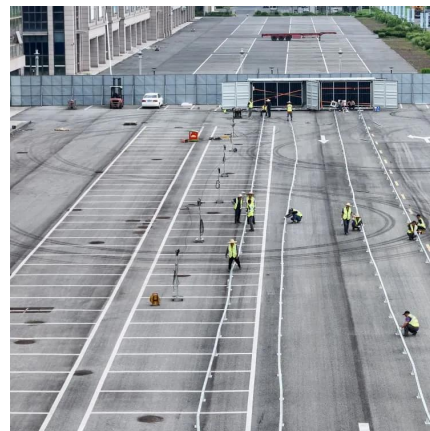


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