

What percentage of Japan's electricity is generated by solar PV?

Solar PV accounted for 25% of Japan's total installed power generation capacity and 11% of total power generation in 2023.

What is the growth rate of solar generation in Japan?

In contrast with other renewables, solar generation has experienced rapid growth in Japan. In 2024, solar contributed approximately 97 TWh, representing almost 10% of the electricity generation share. Global solar generation grew by 474 TWh in 2024: its largest increase ever recorded and the biggest absolute growth of any energy source.

Does Japan still use solar energy?

Solar energy is Japan's most used renewable energy source, yet it still makes up a small portion of its total energy mix. This will need to dramatically increase for Japan to stay aligned with its renewable energy and decarbonisation goals.

What is Japan's solar outlook?

Japan's solar outlook remains strong. Its 7th Strategic Energy Plan, released in February 2025, projects solar to rise from its current 10% share of electricity generation to between 23% and 29% by 2040, more than any other renewable energy source and even exceeding the forecasted nuclear share of 20%.

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This study investigates the future role of renewable energy in Japan as a case study. A 40-year hourly energy balance model is presented of a hypothetical 100% renewable ...

In recent years, Japan was one of the largest consumers of solar energy worldwide. Solar energy represents the largest energy-producing renewable energy source in ...

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In 2023, solar PV accounted for 11.2% of annual electricity production, up 1.3 percentage points from 9.9% the previous year, and ...

In 2022, solar energy accounted for 5.39% of Japan's total energy mix and 9.91% of its electricity generation. In both cases, solar power in Japan holds the largest share of all ...

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Japan's current Sixth Strategic Energy Plan envisions wind rising to only 5% of Japan's electricity by 2030. Wind and solar combined would hit only 20%, where the tripling of ...

In Japan, solar power generation is rapidly prevailing under the FIT system, which was started in 2012, but various issues have emerged in the realization of society with wide ...

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