

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 renewable sources. This is a drastic contrast to even a decade ago when solar energy contributed less than 1% of the country's energy.

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Particularly, there are many solar power generation projects underway, and the number of accidents affecting them is increasing. Specific technical standards were established for solar power equipment in April 2021, which include ...

As of 2024, the worldwide solar power generation has reached 1 terawatt. Between the late 1990s and 2005, Japan boosted the world's largest production of solar cells.

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Solar and wind power accounted for 10.3% and 6.9%, respectively, the highest in Japan, and the VRE share was 17.2%, while hydro power also accounted for a large share at 16.2%. The Hokkaido area also has the highest share of biomass power in Japan at 6.7%, and geothermal power at 0.3%.

# Solar power generation in Japan

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Solar power is the most popular renewable in Japan. However, due to the scarcity of suitable terrain for the installation of photovoltaic power generation facilities in Japan, it is a critical challenge to secure suitable spaces for installation.

In 2022, solar PV accounted for 9.9% of annual electricity production, up 0.6 percentage points from 9.3% the previous year, and VRE (Variable Renewable Energy, Solar and Wind power) accounted for 10.8%. Biomass power generation accounted for 4.6%, up from 4.1% the previous year.

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