

Japan evaluates solar power generation



Overview

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%. It was the 5th largest country by electricity demand. In 2025, its share reached 10% of generation for the first time, nearly. Estimates indicate Japan added between 5.8 GW and 6 GW of solar last year, likely taking the country past 100 GW of cumulative solar capacity. Last year's installations were led by the commercial and industrial market, while the residential sector also saw increased demand. 7% (preliminary figures), a significant increase (3 percentage points) from the 22. The country was a major manufacturer and exporter of photovoltaics (PV), with a global market share of around 50% in the early 2000s.



Article Content

Dynamics and regional heterogeneity in the generation efficiency of ...

This study investigates the dynamics of technological innovation in the field of PV power generation in Japan and discusses issues regarding the substantial new installation of PV power

The Spread of Solar Power Generation in Japan

On June 9, 2008, Japanese Prime Minister Yasuo Fukuda said in his speech at the Japan Press Club that Japan plans to increase the introduction of solar power generation by ten-fold by 2020, and forty

Tensor Energy | Japan solar growth

Japan boosts solar power toward 2050 decarbonization, cutting fossil reliance but facing grid, demand, and geopolitical challenges.

Japan aims to power 5.5 million homes with next-gen

The Ministry of Economy, Trade and Industry on Nov. 26 announced a new target to install about 20 gigawatts of next-generation perovskite solar

Japan's Long-Planned Photovoltaics: Space-Based

Solutions are emerging to conquer solar power's shortcomings, namely, limited installation sites and low-capacity utilization rates. Japan is

Japan Renewable Energy Update – Tightening Regulations on Solar Power

The Japanese Government's Mega Solar Countermeasure Package The decision follows the Mega Solar Countermeasure Package 2 adopted at the Inter-Ministerial Meeting on Large-Scale

Japan adds 5.8 GW of solar in 2025

Estimates indicate Japan added between 5.8 GW and 6 GW of solar last year, likely taking the country past 100 GW of cumulative solar capacity. Last year's installations were led by the...

G7 POWER SYSTEMS SCORECARD COUNTRY PROFILE: JAPAN

OVERALL COUNTRY SCORE: 131/400 Although faring relatively well on energy efficiency, Japan currently has the highest share of fossil fuel-based generation of any G7 country. It also has the

Japan's Strategy to Expand Renewable Energy Contributes to the

This article shines light on Japan's policy regarding renewable energy, which is also expected to contribute to global efforts toward tripling renewable energy generation capacity by 2030,

Solar Energy

Japan: In Japan, electricity generation in the Solar Energy market is projected to reach *****bn kWh in *****. The solar energy market has grown significantly in recent years, driven by ...

Japan's renewable curtailments on track to hit record as

Curtailment of wind and solar power generation in Japan is set to rise to record levels this year due to increased nuclear power use, a Reuters

Solar Rises to 10% of Japan Power Generation in 2025,

Solar power accounted for 10% of Japan's electricity generation for the first time last year, exceeding the global average of 9%, according to a report

Solar power in Japan

In May 2021, the Japanese Trade Ministry said that Japan may require up to 370 GW of solar capacity by 2050 to reach the goal of cutting carbon emissions to zero.

Japan eyes next-gen solar power equivalent to 20 nuclear reactors

The Japanese government is planning to generate some 20 gigawatts of electricity, equivalent to the output of 20 nuclear reactors, through thin and bendable perovskite solar cells in fiscal 2040.

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Renewable electricity in Japan's 7th Strategic Energy Plan

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 global renewable capacity

Japan targets 40-50% power supply from renewables

Japan wants renewable energy to account for up to 50% of its electricity mix by fiscal year 2040 with nuclear power taking up another 20%,

Japan Solar Energy Market Size, Drivers | Industry Forecast 2031

The Japan Solar Energy Market size worth 96.73 gigawatt in 2026 is growing at a CAGR of 2.63% to reach 110.11 gigawatt by 2031. Sharp Corporation, Kyocera Corporation, Panasonic

2024 Share of Electricity from Renewable Energy

The annual share of solar power generation in 2024 was 11.4%, a slight increase from 11.2% the previous year. The share of Variable Renewable Energy (VRE),

Japan Solar Power Generation Market Size | Growth

Japan Solar Power Generation Market is projected to reach USD 12.21 billion by 2033, growing at a CAGR of 8.15% from 2025-2033.

2023 Share of Electricity from Renewable Energy

In 2023, the share of renewables in Japan's total electricity generation (including on-site consumption) was estimated to be 25.7%

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