



# Japan's Surface Solar Power Generation

What percentage of Japan's Energy is solar?

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.

Why is solar power growing in Japan?

The steady growth of solar power in Japan is attributed to several factors, including the country's focus on energy security, economic efficiency and environmental sustainability. Post-Fukushima, there was a national reevaluation of energy sources.

Is solar energy the future of Japan's Energy Strategy?

Solar energy in Japan is emerging as a cornerstone of Japan's strategy to meet its ambitious long-term sustainability goals. The Sixth Strategic Energy Plan aims for carbon neutrality by 2050 with an interim goal of 36-38% of energy from renewables by 2030.

Can solar energy be used in Japan?

To maximize the use of solar energy and overcome those drawbacks, two promising technologies have been developed: space-based solar power (SBSP) and next-generation flexible solar cells. Japan is making steady progress toward the practical implementation of both.

Who makes solar power in Japan?

In line with the significant rise in installations and capacity, solar power accounted for 9.9% of Japan's national electricity generation in 2022, up from 0.3% in 2010. Japanese manufacturers and exporters of photovoltaics include Kyocera, Mitsubishi Electric, Mitsubishi Heavy Industries, Sanyo, Sharp Solar, Solar Frontier, and Toshiba.

How much solar energy does Japan need in 2022?

This is a drastic contrast to even a decade ago when solar energy contributed less than 1% of the country's energy. In total, solar energy in Japan grew from 11.05 TWh in 2010 to over 260 TWh in 2022. However, even with this shift, the country must dramatically increase its solar energy infrastructure to meet its 2030 and 2050 targets.

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