



# Japan Solar 5 GW





## Overview

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The Japanese government is seeking to expand solar power by enacting subsidies and a (FIT). In December 2008, the announced a goal of 70% of new homes having solar power installed, and would be spending \$145 million in the first quarter of 2009 to encourage home solar power. The government enacted a feed-in tariff in November 2009 that requires utilities to purchase excess solar power sent to the grid by homes.

While the world may have added at least 500 GW of solar in 2024, Japan's PV market is slowing. Izumi Kaizuka, manager of the research division at RTS Corp., explains why the PV consultancy predicts Japan will add 5.5 GW of solar in 2025, down from 6.2 GW in 2024.

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Solar power in Japan has been expanding since the late 1990s. Japan is a large installer of domestic PV systems, with most of them grid connected. [1] The country was a major manufacturer and exporter of photovoltaics (PV), with a global market share of around 50% in the early 2000s. However, by.

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Japan aims to increase its solar energy capacity to 150 gigawatts (GW) by 2040. This ambitious target represents a significant leap from the current capacity of approximately 87 GW (as of 2023, according to PVKnowhow's Japan Solar Panel Manufacturing Report). The goal will be met by developing new.

Between 2014 and 2024, the share of solar power in electricity generation grew almost fivefold from 2% to nearly 10%, and the first half of 2025 marked the first time fossil fuels contributed less than 60% [8]. Nonetheless, surging demand, more complex system operations, and uncertainties from.



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### Solar power in Japan

As of July 2021, Japan was aiming at 108 GW of solar capacity by 2030. In May 2021, the Japanese Trade Ministry said that Japan may require up to 370 GW of solar capacity by 2050 ...

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### [Japan Solar Energy Market Size, Drivers, Industry ...](#)

Japan's solar energy market size for photovoltaic technology stood at 91.61 GW in 2024, locking in a 2.7% CAGR toward 2030 and ...

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### RE Trends in Japan , Statistics & Maps , Renewable Energy Institute

1. Cumulative Installed Solar PV Capacity in the World and in Selected Countries (GW) 2. Cumulative Installed Solar PV Capacity in Japan and by Distribution Area (GW) 3. Solar PV ...

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## Tensor Energy , Japan solar growth

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 ...

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## Japan Solar Energy Market Size, Drivers , Industry Forecast 2030

Japan's solar energy market size for photovoltaic technology stood at 91.61 GW in 2024, locking in a 2.7% CAGR toward 2030 and retaining a 100% segment share as ...

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## Japan unveils world's first solar super-panel: More powerful than ...

Ever since the nuclear disaster in Japan in March 2011, the solar energy scene in that country has evolved rapidly. Today, the solar electricity output accounts for almost 10% of the total energy ...

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## [Japan's Energy Transition: The Road to 150 GW of ...](#)

Japan's plan to achieve 150 GW of solar capacity by 2040 is a significant step toward a sustainable future. By developing large-scale ...

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## Strategic Energy Plan

Solar installations must increase from about 5 GW/year now to 7.5 GW/year to 2030. Its growth is being hampered by limited available sites, and more attention is needed to free up suitable ...

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## **Solar power in Japan**

Overview  
Government action  
Solar manufacturing industry  
See also  
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The Japanese government is seeking to expand solar power by enacting subsidies and a feed-in tariff (FIT). In December 2008, the Ministry of Economy, Trade and Industry announced a goal of 70% of new homes having solar power installed, and would be spending \$145 million in the first quarter of 2009 to encourage home solar power. The government enacted a feed-in tariff in November 2009 that requires utilities to purchase excess solar power sent to the grid by homes ...

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## Policy push for Japanese solar - pv magazine International

Izumi Kaizuka, manager of the research division at RTS Corp., explains why the PV consultancy predicts Japan will add 5.5 GW of solar in 2025, down from 6.2 GW in 2024.

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## G7 POWER SYSTEMS SCORECARD COUNTRY ...

According to the 6th Strategic Energy Plan, Japan has set a target for 36-38% renewables in 2030 (solar 14-16%, wind 5%, geothermal 1%, hydropower 11%, biomass 5%),<sup>52</sup> which is one ...



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## [Policy push for Japanese solar - pv magazine ...](#)

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## **Japan's Energy Transition: The Road to 150 GW of Solar Capacity**

Japan's plan to achieve 150 GW of solar capacity by 2040 is a significant step toward a sustainable future. By developing large-scale solar plants and optimizing existing ...

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## **Japan's new energy plan**

Solar power is anticipated to become the predominant renewable energy source by 2040, reflecting the government's ambitious targets. This Plan opens up substantial ...

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