

# Japan s solar power supply system



## Overview

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The Sunshine Project (1973-1992) explored the potential of solar power, geothermal power, liquefied coal, and hydrogen as primary energy sources. In 1992, during the early years of commercial PV installation, Japan accounted for 27.8% of global PV production, and by 2004, this had risen to 50.4%. Installed capacity 91 GW (2022) (4) Annual generation 102 TWh (2024) Capacity per capita 744 W (2024) Share of electricity 13% (2024) Watch full video Overview Solar power in Japan has been expanding since the late 1990s. Japan is a large installer of domestic , with most of them grid connected. The country was a major manufacturer and exporter of photovoltaic. In the 2000s, Japanese manufacturers and exporters of included , , , , and . However, these manufactur. 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 sola. • • • • .

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[Japan unveils world's first solar super-panel: More powerful than 20](#)

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

### Japan's World-Leading Renewable Energy Development Review

Japan developed and commercialized solar power generation and other renewable energy. These efforts enabled us to take steps to cope with rising fossil fuel prices and prevent global warming.



### Solar Energy in Japan: Room For Growth

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

### Tensor Energy , Japan solar growth

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



### Is Japan's solar 2030 PV target feasible?

It appears that Japan is making significant strides



### [2024 Share of Electricity from Renewable Energy Resources in Japan](#)

It is estimated that the share of renewable energy in Japan's total electricity generation including self-consumption for the calendar year 2024 was 26.7% as preliminary value, an increase of 1

towards achieving its 2030 goal of having 36-38% of renewables in its power mix, including the goal of 14-16% of solar PV.



### **Japan's Breakthrough: Transmitting Solar Power From Space**

Japan successfully transmitted solar power from space to Earth. Discover how this breakthrough could revolutionize renewable energy, its challenges, and future potential.

### **The 7th Strategic Energy Plan**

In Japan, where natural disasters are frequent, it is also important to ensure the stable procurement and supply of petroleum products and LP gas, both of which are portable and storable, as a last resort,



### **Solar power in Japan**

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## Japan's 2035 Energy Outlook

Our expert coverage assesses pathways for the power, transport, industry, buildings and agriculture sectors to adapt to the energy transition. We help commodity trading, corporate strategy, finance and



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