



**SolarMax Pro Energy Storage Systems**

# **Japan s new energy power supply**





## Overview

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What are Japan's Energy plans?

Japan's 6th Strategic Energy Plan (released in 2021) and the GX (Green Transformation) Decarbonization Power Supply Bill (released in 2023) target increasing the share of non-fossil fuel generation sources to 59% of the generation mix by 2030 compared with 31% in 2022.

What does Japan's new energy policy mean for Japan?

It also introduces a new target for hydrogen/ammonia-fired power at about 1 per cent, underscoring Japan's push to implement these new energy sources. Nuclear power is slated to provide 20-22 per cent of the energy mix, dependent on reactor restarts under strict safety measures.

Will renewables be the dominant energy source in Japan by 2040?

While solar power continues to show significant progress, becoming a dominant renewable energy source in Japan, other renewable sources including wind and geothermal are lagging. This slower pace in diversifying the renewable portfolio will make it more difficult for renewables to be the projected dominant component of Japan's energy mix by 2040.

What are Japan's energy goals?

Specific goals include achieving 23-29% from solar, 4-8% from wind, 8-10% from hydro, 1-2% from geothermal, and 5-6% from biomass energy. This would mark a significant shift from Japan's current power source composition, which consists of 68.6% from thermal power, 22.9% from renewable energy, and 8.5% from nuclear energy.

What does Japan's Energy Policy look like?

Yuka Obayashi reports on Japan's energy, metals and other commodities. 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%, according to a



draft of its revised basic energy policy, as it makes a clean energy push while meeting rising power demand.

What does Japan's Nuclear Power Plan mean for Japan?

Notably, the Plan removes the previous commitment to reduce nuclear dependency as much as possible, facilitating a goal to achieve around 20% from nuclear power by 2040 (up from the current 8.5%) with approximately 30 to 40% from thermal power. The Plan acknowledges that fossil fuels remain the primary source of Japan's energy supply.



## Japan s new energy power supply

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### Japan's energy policies aim for increased zero-carbon ...

Below, we examine policies affecting generation from non-fossil fuel sources, namely renewable sources and nuclear generation in the first ...

### [How about Japan's new energy storage battery](#)

Japan's new energy storage battery represents a significant development in the global shift towards renewable energy. 1. This innovative battery technology aims to enhance ...



### Japan targets 40-50% power supply from renewables by 2040

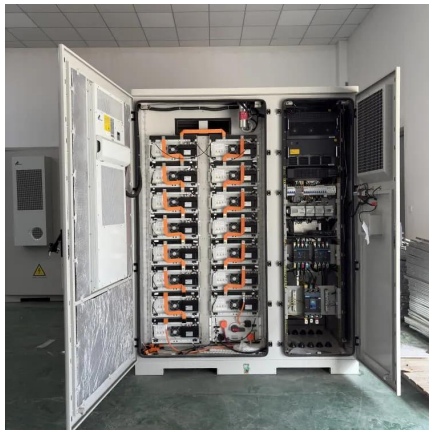
Japan wants renewable energy to account for up to 50% of its electricity mix by fiscal year 2040 with nuclear power taking up another 20%, according to a draft of its revised ...

### [?News?Japan's new 2040 energy targets continue ...](#)

The previous 6th Strategic Energy Plan divided the share of thermal power into 19% coal, 20%



LNG, 2% oil, and 1% hydrogen in 2030, but ...



### [Japan's Power Supply/Demand and Power Flow of ...](#)

New page launched on Renewable Energy Institute's website that allows you to see the power status of nine areas in Japan, and interactively ...

### **?News?Japan's new 2040 energy targets continue reliance on ...**

The previous 6th Strategic Energy Plan divided the share of thermal power into 19% coal, 20% LNG, 2% oil, and 1% hydrogen in 2030, but the new 2040 energy mix only ...



### **2023 Share of Electricity from Renewable Energy Resources in Japan**

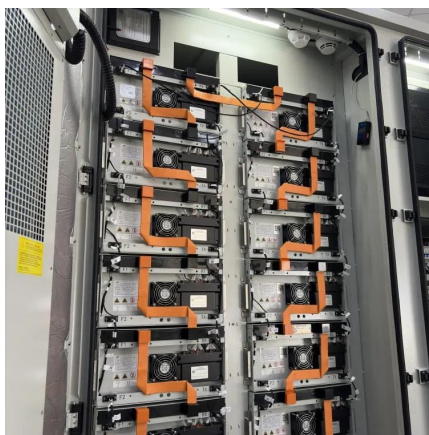
Nuclear power, on the other hand, increased from zero in 2014 to 6.5% of electricity generated in 2019, then decreased to 4.8% in 2022, but increased to 7.7% in 2023. ...





## Mihama Plant Leads Japan's Historic Nuclear Comeback Since ...

3 days ago· The 1,666 MW Mihama nuclear power plant in Fukui Prefecture is planning to build a next-generation reactor. Undertaking this is Kansai Electric Power Company. This marks ...



## Japan at an Energy Crossroads: Choosing Competitiveness ...

Renewable Energy Institute's comments following the cabinet's decision on Japan's 7th Strategic Energy Plan on 18 January 2025. We believe that the 40-50% share of ...

## 10questions for understanding the current energy situation

In order to ensure a stable supply, it is necessary to secure a method of energy storage to complement renewable energy in combination with flexible output power sources, such as ...



## Japan targets 40-50% power supply from renewable energy by 2040

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%, according to a draft of its revised ...



### [Japan Shifts Focus of Energy Plan to Supply Security](#)

Zero-carbon power sources such as nuclear and renewables feature prominently in the new plan, while LNG could also take on a greater role in Japan's future energy supply.



### [The Electric Power Industry in Japan 2024](#)

JEPIC Japan Electric Power Information Center, Inc. (JEPIC) was established in 1958 as a non-profit association of the electric utility industry in Japan. Our primary purpose is to meet the ...

### [Japanese Cabinet approved the Seventh Strategic ...](#)

The use of renewable energy as a main power source requires steady reinforcement of the cross-regional interconnection lines, intra-regional ...



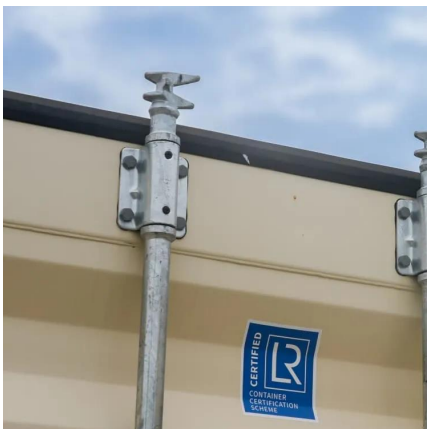
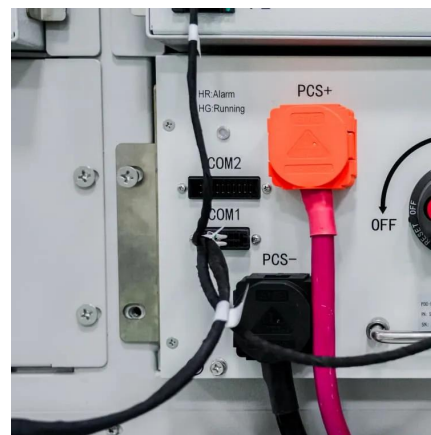


## Energy in Japan

Electricity pylons in Japan Japan is a major consumer of energy, ranking fifth in the world by primary energy use. Fossil fuels accounted for 88% of Japan's primary energy in 2019. [1][2] ...

## #1 Japan Approves New Climate, Energy, and Industry Policies

New nuclear reactor construction planned to ensure stable energy supply Japan's Greenhouse Gas Emissions Reduction Goals Under the new Nationally Determined ...



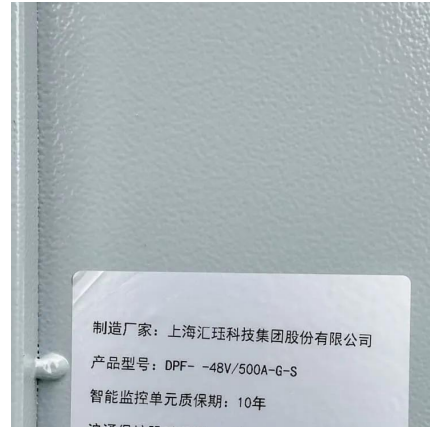
## Japan's new energy plan

Renewable energy is projected to account for 40-50% of Japan's power generation by 2040, which would surpass thermal power as the largest power source. Specific goals ...

## [Japan targets 40-50% power supply from renewable ...](#)

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 to maximize nuclear power in clean-energy ...](#)

The new proposal says nuclear energy should account for 20% of Japan's energy supply in 2040, up from just 8.5% last year, while expanding ...

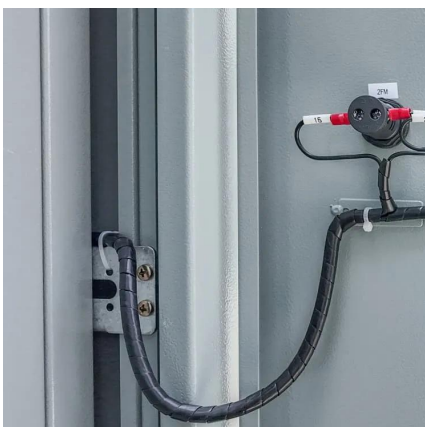
## **Japan sets climate and energy policies to cut emissions by 2040**

Japan's government has approved new climate, energy and industrial policies aimed at reducing greenhouse gas (GHG) emissions by 2040. Reuters reported that the focus ...



### [Japan's power demand may grow by up to 40% by 2050](#)

Japan's electricity demand is projected to grow by up to 40% from the 2019 level in 2050, if the wider use of generative artificial intelligence spurs the construction of more data ...





## Outline of Strategic Energy Plan

Overcoming challenges of Japan's energy supply and demand structure - Relationship between the structure of the 6th Strategic Energy Plan and the targets for 2050 and FY 2030 - Progress ...



## Japan's Energy Transition: The Interplay of Renewables, ...

While Japan remains committed to decarbonizing its energy sector, any shortfalls in the nuclear and renewable sectors will elevate the role of LNG as a means of balancing energy supply ...

## Japan's energy policies aim for increased zero-carbon electricity

Below, we examine policies affecting generation from non-fossil fuel sources, namely renewable sources and nuclear generation in the first part of a two-part series on ...



## Background Reference: Japan

Japan's current government intends to resume using nuclear energy as a baseload power source once safety measures have been implemented. The government believes nuclear energy is ...



## Japan to maximize nuclear power in clean-energy push as ...

The new proposal says nuclear energy should account for 20% of Japan's energy supply in 2040, up from just 8.5% last year, while expanding renewables to 40-50% from ...



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