

**NKOSITHANDILEB SOLAR**

# **Japan s new energy power supply**



## Overview

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TOKYO, Dec 17 (Reuters) - 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. Does Japan need nuclear power?

Under the new energy strategy, nuclear power will provide 20% of Japan's energy supply by 2040. While policymakers argue that nuclear energy is necessary for a stable and low-carbon energy mix, critics point out the high costs and risks of restarting old reactors in a country prone to earthquakes.

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 is Japan's Energy Plan?

Japan's latest Strategic Energy Plan balances energy security, renewables, nuclear power and LNG demand amid decarbonisation challenges. Discover key insights on Japan's energy transition, critical minerals and evolving energy policies.

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.

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The country's Cross-regional Coordination of Transmission Operators (OCCTO) projects an additional 5.37GW in peak power ...

With slower-than-expected growth in renewables, thermal power will remain in the generation mix for longer. Japan's new energy plan now expects coal and gas to contribute as ...

The Japan's 7th Strategic Energy Plan has been approved by the Cabinet on 18 January 2025. Renewable Energy Institute has quantitatively demonstrated and presented ...

The new energy plan says that nuclear power should account for 20% of Japan's energy supply in 2040 while expanding renewables to ...

The country's Cross-regional Coordination of Transmission Operators (OCCTO) projects an additional 5.37GW in peak power demand by 2033, fuelled by the expansion of ...

The Japanese government has approved its Seventh Strategic Energy Plan, which aims to boost the country's renewables and ...

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

A new electric power supply system for the creation of disaster-resilient communities can be based on the traditional power distribution system, accommodate input ...

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The Plan states that from the perspective of simultaneously achieving a stable supply of energy and decarbonization, Japan will promote the maximum introduction of ...

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geothermal ...

The power grid is due for a long-awaited upgrade. The following outlines key movements in Japan's energy landscape this year, from LNG and nuclear to electricity ...

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The industry ministry is making final tweaks to set Japan's energy reliance in fiscal 2040 to nuclear power at 20 percent and ...

Japan approved the 7th Strategic Energy Plan in February 2025 with a primary focus on achieving carbon neutrality by 2050.

The Government of Japan formulates the Strategic Energy Plan under the Basic Act on Energy Policy to show the basic directions for Japan's energy policies. The Advisory ...

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The industry ministry is making final tweaks to set Japan's energy reliance in fiscal 2040 to nuclear power at 20 percent and renewable energy, such as solar and wind, to rise to ...

In a world where renewable energy accounts for more than 90% of the power generation mix, the surplus renewable electricity can be ...

The draft reflects Japan's strategy to achieve a well-balanced power generation mix, especially in light of heightened resource prices. ...

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