

European Solar Energy Storage

Ranking of china s nuclear power storage power stations



Overview

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Data as of 2025-08-28 from IAEA Power Reactor Information System. The boundaries and names shown and the designations used on this map do not imply official endorsements or acceptance by the United Nations nor the IAEA.

China has achieved the world's largest nuclear power capacity, with 102 units—operational, under construction, or approved—totaling 113 million kilowatts, according to the China Nuclear Energy Development Report 2025, released by the China Nuclear Energy Association (CNEA) on Sunday.

According to the report, as of 26 April, China had 102 nuclear power units in operation, under construction, or approved for construction, with an installed capacity of 113 gigawatts (GWe). This marks the first time that China's total nuclear power capacity has topped the world rankings. How many nuclear power plants are there in China?

China is the ninth largest country in terms of nuclear power capacity, with 48 nuclear power plants in operations and another nine under construction. Power-technology lists the top ten nuclear power plants in China, based on the design net capacity according to International Atomic Energy Agency (IAEA).

Is China's nuclear energy development entering a new period of strategic

opportunities?

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How safe is China's nuclear power operation?

According to the latest World Association of Nuclear Operators' index on global nuclear power unit performance, China's nuclear power operation safety performance has continued to rank among the best in the world.

Why does China need a nuclear power plant?

The impetus for nuclear power in China is due to air pollution from coal-fired plants, as well as climate commitments and energy security. China's policy is to have a closed nuclear fuel cycle. China has become largely self-sufficient in reactor design and construction, but is making full use of Western technology while adapting it.

What is the biggest nuclear power plant in China?

The Yangjiang nuclear power plant is the biggest nuclear power plant in China. Image courtesy of China General Nuclear Power Corporation. The Yangjiang nuclear power plant (NPP) is located in the Yangjiang in China's western Guangdong province.

How many kilowatt-hours is China's nuclear power generation?

According to Huang Xuenong, a senior official of the National Energy Administration, China's nuclear power generation had reached 430 billion kilowatt-hours in 2023 — accounting for more than 13 percent of its total clean energy generation, which stood at about 3.1 trillion kilowatt-hours.

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Country Nuclear Power Profiles

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China's Nuclear Power Capacity Tops the Global Ranking for the ...

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The biggest nuclear power plants in China: Ranking the top ten

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Nuclear Power in China

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China's total nuclear power generation capacity tops world rankings

SHENZHEN, Nov. 13 (Xinhua) -- China's total nuclear power generation capacity, including units in operation, under construction and officially approved, ranks first in the world, according to the China Energy Research Society (CERS).



China tops global ranking of overall nuclear power capacity,

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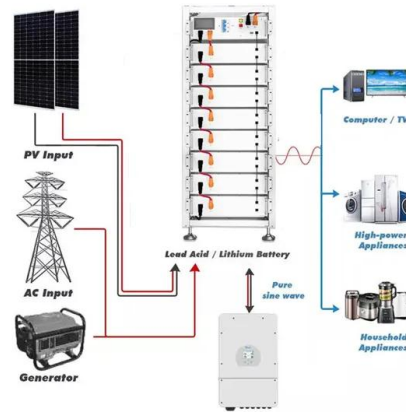
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