

# The world's largest hydropower storage power generation

What is the largest pumped hydropower plant in the world?

Designed initially to support the 2022 Beijing Winter Olympics, the Fengning plant now surpasses the Bath County project in the U.S. as the largest pumped hydro station worldwide in terms of capacity. Pumped hydropower plants like Fengning are essential for stabilising energy grids, especially with increasing renewable energy use.

What is pumped storage hydropower?

Pumped Storage Hydropower is the largest form of renewable energy storage, with nearly 200 GW installed capacity providing more than 90% of all long duration energy storage across the world with over 400 projects in operation.

Which country has the most pumped storage hydropower in 2024?

Japan and the United States followed second and third respectively, with roughly 21.9 gigawatts and 18.9 gigawatts of capacity respectively. Capacity of pumped storage hydropower worldwide in 2024, by leading country (in megawatts) Add this content to your personal favorites. These can be accessed from the favorites menu in the main navigation.

Is Fengning the world's largest pumped hydropower plant?

Initially designed to support the 2022 Beijing Winter Olympics, the Fengning plant now surpasses the Bath County Pumped Storage Station in the US as the world's largest pumped hydro station in terms of capacity. Pumped hydropower plants like Fengning are vital for stabilizing energy grids, especially as renewable energy use increases.

Is China's Fengning power station the world's largest hydro power plant?

China has set a new global benchmark in the global hydropower sector with the completion of the Fengning Pumped Storage Power Station, the largest of its kind in the world. China's Fengning Station: World's Largest Pumped Hydro Power Plant Sets New Global Benchmark

Where is Fengning pumped storage hydropower plant located?

[Photo/Xinhua]SHIJIAZHUANG, Dec. 31 -- The Fengning pumped storage hydropower plant, the largest of its kind globally, has commenced full operation in the city of Chengde, north China's Hebei Province.

China has completed the Fengning Pumped Storage Power Station in Hebei province, now the largest facility of its kind globally. The plant, ...

The Fengning Pumped Storage Power Station, the world's largest facility of its kind, has commenced full operations with the commissioning of its ...



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Pumped storage hydropower has a major role to play in renewables integration, with plans in place to develop several new sites globally. ...

The Fengning pumped storage hydropower plant, the largest of its kind globally, has commenced full operation in the city of Chengde, north China's ...

DOWNLOAD REPORT 24 May 2018 The 2018 Hydropower Status Report offers insights and trends on the hydropower sector. Now in its fifth edition, the report provides information ...

As a leading renewable energy storage technology, pumped storage plays a key role in advancing the country's green energy transition.

Globally, communities are converting to renewable energy because of the negative effects of fossil fuels. In 2020, renewable energy sources provided about 29% of the world's primary ...

As of 2021, the world's largest hydroelectric dam based on generation capacity was the Three Gorges dam built on Yangtze River in China.

On March 10, a new unit of the Jurong pumped storage power project was put into operation in East China's Jiangsu Province. The project consists of upper and lower reservoirs connected by a water ...

The Fengning station, now the largest pumped storage facility in the world in terms of installed capacity, began its full operations after the final of its 12 units went live, reports Chinese ...

As the world's largest producer of renewable energy, hydropower ensures global decarbonisation goals remain within reach, while complementing variable renewables through its flexibility and storage. 100+

Europe hit a renewable energy milestone in 2024, with hydropower playing a key role in grid flexibility, energy security, and decarbonisation efforts.

Annual hydropower generation comes in at 1.42 trillion kilowatt-hours, accounting for 57 percent of China's total renewable energy output, official figures show. China's total reservoir ...

In 2024, China ranked first in the world in terms of pumped storage hydropower capacity, with more than 50.9 gigawatts. Japan and the ...

Pumped Storage Hydropower is the largest form of renewable energy storage, with nearly 200 GW installed capacity providing more than 90% ...

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Pumped storage hydropower stores energy and provides services for the electrical grid. This Review discusses the types, applications and broader effects of this form of grid-scale ...

Fengning power station, the pumped-storage power station with the largest installed capacity of its kind in the world, was put into full operation on ...

The Fengning Pumped Storage Power Station, located just north of Beijing, is officially up and running as of 2025. After over 11 years of ...

The world's biggest pumped storage plant, the Fengning Power Station, went into full service at the end of the year, supporting 10 gigawatts of ...

SHIJIAZHUANG, Dec. 31 -- The Fengning pumped storage hydropower plant, the largest of its kind globally, has commenced full operation in the city of Chengde, north China's Hebei Province.

List of largest power stations Three Gorges Dam in China, currently the world's largest hydroelectric power station, and the largest power-producing facility ever ...

China now has the world's biggest carbon market and biggest clean power generation system: the installed capacity of renewable energy has ...

The latest World Hydropower Outlook, published today by the International Hydropower Association, shows that in 2023, hydropower capacity grew by 13.5GW to 1,412GW, of ...

Hydropower without dams and reservoirs means producing at a smaller scale, typically from a facility designed to operate in a river without interfering in its flow. For this reason, many consider small ...

After testing the last units in its Fengning pumped storage hydropower station, State Grid now operates the largest such facility on the ...

Hydropower plants also make a major contribution to the flexibility and security of electricity systems. Many hydropower plants can ramp their electricity generation ...

As the world prioritises clean energy sources, hydropower rises to the top of the available choices. China easily leads in hydropower generation, ...



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