

# China vigorously develops pumped storage

How big is China's pumped-storage capacity?

China's pumped-storage capacity is set to increase even more, with 89 GW of capacity currently under construction. Developers are seeking governmental approvals, land rights, or financing for an additional 276 GW of pumped-storage projects, according to the data from Global Energy Monitor. Pumped storage is a type of energy storage.

Will China expand its pumped storage capacity by 2027?

China intends to expand its pumped storage capacity to 80 GW by 2027 and total hydropower capacity to 120 GW by 2030. The 3.6 GW Fengning Pumped Storage Power Station in China started commercial operations Sunday on its twelfth and final reversible turbine unit.

Does China need pumped storage?

China's installed capacity of pumped storage ranks first in the world, and there are many small power grids in many places, which puts forward higher requirements for the development of small and medium-sized pumped storage.

How many kilowatts of pumped storage capacity has China built?

By the end of 2022, China has built 45.79 million kilowatts of pumped storage capacity.

Will China develop pumped hydro storage system by 2035?

Our Standards: The Thomson Reuters Trust Principles. China released a plan on Thursday that sets out measures to develop its pumped hydro storage system by 2035, in an effort to boost renewable energy consumption and ensure stable grid operation.

Why is China building pumped-storage hydropower facilities?

China is building pumped-storage hydropower facilities to increase the flexibility of the power grid and accommodate growing wind and solar power. As of May 2023, China had 50 gigawatts (GW) of operational pumped-storage capacity, 30% of global capacity and more than any other country.

Since the 1980s, China has begun to vigorously build large-scale pumped-storage power stations. In recent years, with the rapid development of my country's economy and power industry, my country has achieved fruitful scientific and technological achievements in the equipment autonomy of large-scale pumped storage units.

1 &#0183; Employees work at the construction site of a pumped storage hydropower station in Fengning Manchu autonomous county, Hebei province, on Oct 13. ... The plan said China will vigorously improve the comprehensive regulation capability of the power system, accelerate construction of flexible regulation power,

guide self-supplied power plants ...

Pumped hydro is cost-effective and efficient for large-scale, long-duration storage, while batteries offer greater flexibility and quicker response times. The two technologies can therefore play complementary roles. As of the end of 2023, China had 86 GW of energy storage in place, with pumped storage accounting for 59.3% and battery storage 40.6%.

According to the World Hydropower Outlook 2024, China continues to lead in hydropower development, having added 6.7 GW of new capacity in 2023, including over 6.2 GW of pumped storage. With Fengning now online, China aims to expand its pumped storage capacity to 80 GW by 2027 and reach a total hydropower capacity of 120 GW by 2030. Globally ...

Leveraging abandoned mine tunnels to establish pumped storage power stations holds significant ecological and economic importance for repurposing these sites. ... JIAO Xiao-miao, et al. Research and judgment on the development trend of China's coal industry under the new situation [J]. Coal Economic Research, 2023, 43(5): 52-56. DOI: <https://doi.org/10.13247/j.cnki.jcr.2023.05.010>

China gives priority to renewable energy development, and vigorously develops and utilizes renewable energy. ... With the continuous application of pumped storage technology development, the requirements of terrain and the interference effect on the ground landscape gradually unfolded. ... Technical points and feasibility analysis of ...

Furthermore, China will vigorously develop clean energy. The country will accelerate the construction of large hydropower stations in Southwest China, actively develop coastal nuclear power plants in a safe and orderly manner, vigorously develop pumped storage power stations, and continuously improve the system's adjustment ability, he said.

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