



Power generation of Sufengying Hydropower Station





Overview

Fengning is the first pumped storage hydropower plant connected to a flexible DC grid. Annual output is estimated at 6.61 TWh while the system will pump 8. This article provides a list of the largest hydroelectric power stations by generating capacity. Only plants with capacity larger than 3,000 MW are listed. It is located on Wujiang river/basin in Guizhou, China. The project construction commenced in 2009. 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. 6 billion and over 11 years of construction, the facility is now the world's most powerful. SHIJIAZHUANG, Dec.



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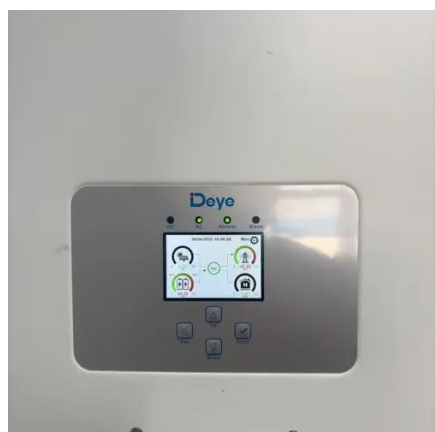
[China's Fengning Station: World's Largest Pumped Hydro Power Plant ...](#)

According to the World Hydropower Outlook 2024, China continues to lead the world in new hydropower development, with 2023 alone seeing the country bring 6.7 GW of new capacity into ...



[Pumped-Storage Hydropower Plant: China Breaks Records](#)

Located in Fengning County, Hebei Province, the plant features 12 single-stage pump-turbine units, each with a capacity of 300 MW. Two of these units employ variable-speed technology, ...



Power plant profile: Suofengying, China

Suofengying is a reservoir based project. The hydro reservoir capacity is 201.2 million cubic meter. The project generated 2,011 GWh of electricity. The project construction commenced in 2002 and ...

How Hydropower Works

Hydropower, or hydroelectric power, is a renewable source of energy that generates power by using a dam or diversion structure to alter the natural flow of a river or other body of water.



[China's high-altitude hydropower station generates 3.5-billion-kWh of](#)

By the end of last year, all five units of the hydropower station had been fully commissioned for power generation. The clean power it generated is equivalent to saving ...



[List of largest hydroelectric power stations](#)

This article provides a list of the largest hydroelectric power stations by generating capacity. Only plants with capacity larger than 3,000 MW are listed. The Three Gorges Dam in Hubei, China, has the world's largest instantaneous generating capacity at 22,500 MW of power. In second place is the Baihetan Dam, also in China, with a capacity of 16,000 MW. The Itaipu Dam in Paraguay and Brazil is the th...



[State Grid Corp. of China commissions world's largest pumped ...](#)

Since the first two units came online in late 2021, the facility generated more than 8.6 TWh. Four 500 kV lines connect it to a flexible direct current (DC) grid, which is also the world's first, ...





[List of largest hydroelectric power stations](#)

The total generating capacity of this two-dam complex is 25,215 MW. The Itaipu on the Brazil-Paraguay border has 20 generator units with overall 14,000 MW of installed capacity.

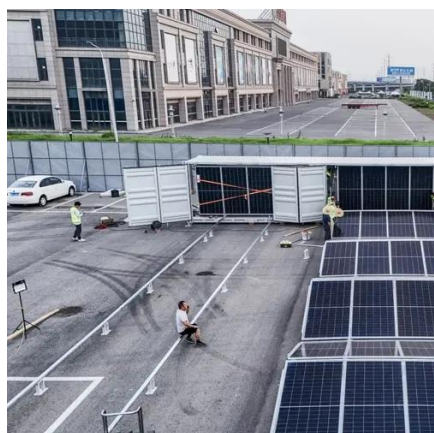


[China Completes World's Largest Pumped Storage Hydropower Plant](#)

The plant, which has a total installed capacity of 3.6GW, is operated by the State Grid Corporation of China (SGCC). The final turbine unit was activated on August 11, 2024, marking the ...

[3600MW pumped storage power plant commissioned in China](#)

With a total installed capacity of 3600 MW, the world's largest pumped hydro storage power station has been commissioned in China. Construction began in May 2013 on the US\$ 2.6 ...



World's largest pumped storage hydropower plant in full operation in ...

Operated by the State Grid Corporation of China, the facility boasts a total installed capacity of 3.6 million kilowatts and is designed to generate 6.61 billion kilowatt hours of electricity ...



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