

# JIANGNENTUO ENERGY STORAGE POWER STATION



What is the largest compressed air energy storage power station in the world? The power station, with a 300MW system, is claimed to be the largest compressed air energy storage power station in the world, with highest efficiency and lowest unit cost as well.



What is pumped storage power station (PSPS)? The pumped storage power station (PSPS) is a special power source that has flexible operation modes and multiple functions. With the rapid economic development in China, the energy demand and the peak-valley load difference of the power grid are continuing to increase.



What is a 300 MW energy storage plant? The \$207.8 million energy storage power station has a capacity of 300 MW/1,800 MWh and uses an underground salt cave. Chinese developer ZCGN has completed the construction of a 300 MW compressed air energy storage(CAES) facility in Feicheng, China's Shandong province. The company said the storage plant is the world's largest CAES system to date.



Should Chinese power systems develop pumped storage systems? The result shows the urgency of developing the PSPS in Chinese power systems that have given priority to thermal power, and the energy resources need the wide-range optimal allocation within the system. The development cycle of the pumped storage is long, and at least 8-10 years are needed from the planning to the completion.



Does Gangnan hydropower station have load regulation? For the application of the pumped storage unit, Gangnan hydropower station owns the ability of load regulation. Currently, it can only generate seasonal power. Although the scale of this PSPS is small, it is designed reasonably and utilized appropriately. Its construction initiates the history of the PSPS development in China.

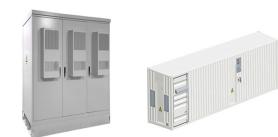
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What is a compressed air energy storage station? "The compressed-air energy storage station offers large capacity, long storage time (over 4 hours), and efficient response, making it comparable to small and medium-sized pumped storage power plants," Liu Yong, Secretary General of Energy Storage Application Branch of China Industrial Association of Power Sources told the Global Times on Wednesday.



With the continuous development of energy storage technologies and the decrease in costs, in recent years, energy storage systems have seen an increasing application on a a?|



On May 8 th, 2020, the Fujian Energy Regulatory Office issued the first power business license (power generation type) for the independent storage power station of Jinjiang Mintou Power Storage Technology Co., Ltd. of Fujian a?|



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Two different converters and energy storage systems are combined, and the two types of energy storage power stations are connected at a single point through a large number a?|

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Based on the current market rules issued by a province, this paper studies the charge-discharge strategy of energy storage power station's joint participation in the power spot market and the a?|



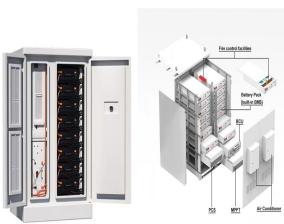
Project highlights The lithium-ion battery energy storage power station featuring the largest space on the grid side; Excellent performance in power frequency modulation far exceeding ordinary modulation units; The first a?|



China has made breakthroughs on compressed air energy storage, as the world's largest of such power station has achieved its first grid connection and power generation in China's Shandong province.



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Due to the dual characteristics of source and load, the energy storage is often used as a flexible and controllable resource, which is widely used in power system frequency a?|