

Energy Storage Project No 1





Overview

On January 9, 2025, the "Energy Storage No. 1" global first 300-megawatt compressed air energy storage demonstration project, invested and constructed by China Energy Engineering Group Co., Ltd., achieved full-capacity grid connection and began power generation in Yingcheng, Hubei. What is energy storage No 1?

The "Energy Storage No. 1" project utilizes the caverns of an abandoned salt mine, reaching up to 600 meters of depth, as its gas storage facility. This allows for a gas storage volume of nearly 700,000 cubic meters, translating into a single unit power output of up to 300 MW and a storage capacity of 1,500 MWh.

What is a compressed air energy storage project?

A compressed air energy storage (CAES) project in Hubei, China, has come online, with 300MW/1,500MWh of capacity. The 5-hour duration project, called Hubei Yingchang, was built in two years with a total investment of CNY1.95 billion (US\$270 million) and uses abandoned salt mines in the Yingcheng area of Hubei, China's sixth-most populous province.

How many energy storage projects are there in the world?

It has 9.4GW of energy storage to its name with more than 225 energy storage projects scattered across the globe, operating in 47 markets. It also operates 24.1GW of AI-optimised renewables and storage, applied in some of the most demanding industrial applications.

What is energy storage technology?

Energy storage technology allows for a flexible grid with enhanced reliability and power quality. Due to the rising demand for energy storage, propelled further by the need for renewable energy supply at peak times, energy storage facilities and producers have grown tremendously in recent years.



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