

# Ye Compressed Air Energy Storage Project





## Overview

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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.

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.

How can CAES technology contribute to a low-carbon energy grid?

The Jintan project exemplifies the potential of CAES technology to contribute to a low-carbon energy grid. By leveraging existing salt caverns for energy storage and integrating innovative designs, the project offers a sustainable solution to the intermittency of renewable energy sources.

How can a quick-start air turbine help a low-carbon energy grid?

The quick-start air turbine enables rapid response during peak-shaving operations, improving grid stability. These advancements not only enhance reliability but also position the facility as a model for future CAES projects worldwide. The Jintan project exemplifies the potential of CAES technology to contribute to a low-carbon energy grid.



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