

## European Solar Energy Storage

# Cnpc air energy storage project



## Overview

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As China's first large-scale compressed air energy storage station with a 350 MW capacity using artificial cavern storage technology, the implementation of this project marks a significant breakthrough in China's new long-duration energy storage technologies and their large-scale application. 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 much power does a new energy storage facility provide?

The \$207.8 million facility boasts an energy storage capacity of 300 MW/1,800 MWh and occupies an area of approximately 100,000 m<sup>2</sup>. According to ZCGN, it is capable of providing uninterrupted power discharge for up to six hours, ensuring power supplies to between 200,000 and 300,000 local homes during peak consumption periods.

How long does zcgn power supply last?

According to ZCGN, it is capable of providing uninterrupted power discharge for up to six hours, ensuring power supplies to between 200,000 and 300,000 local homes during peak consumption periods. The station uses an underground salt cave with wells reaching depths of up to 1,000 meters.

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### China's national demonstration project for compressed air energy

On May 26, 2022, the world's first nonsupplemental combustion compressed air energy storage power plant (Figure 1), Jintan Salt-cavern Compressed Air Energy Sto

### World's Largest Compressed Air Energy Storage Plant

The facility boasts a storage volume of nearly 700,000 cubic meters --equivalent to 260 Olympic swimming pools --and can store energy for eight hours while releasing it over five hours daily. This innovative system has achieved an ...



### World's largest compressed air energy storage project ...

Chinese developer ZCGN has completed the construction of a 300 MW compressed air energy storage (CAES) facility in Feicheng, China's Shandong province.

### China Energy Construction and Power Engineering Group Wins

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As China's first large-scale compressed air energy storage station with a 350 MW capacity using artificial cavern storage technology, the implementation of this project marks a significant breakthrough in China's new long-duration energy storage technologies and their large-scale application.



### **CEEC-built World's First 300 MW Compressed Air Energy Storage ...**

It is the world's first large-scale CAES solution with complete independent intellectual property rights and a full industrial supply chain, designed for long-duration physical energy storage.

### **China's national demonstration project for compressed air energy**

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### **CH ENERGY ENG-?????"?????"! ???350?? ...**

Group 1: Project Overview - The project is the world's largest single-unit compressed air energy storage project under construction, with an annual electricity generation capacity of 460 million kWh, sufficient to power over 200,000 households for a year [1].

## World's Largest Compressed Air Energy Storage Power Station ...

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.



## World's first 300 MW compressed air energy storage facility ...

The world's first 300-megawatt compressed air energy storage demonstration project has achieved full capacity grid connection and begun generating power on Thursday in Yingcheng, Hubei province, a

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## World's first 300 MW compressed air energy storage plant fully ...

It has set a world record for single-unit power at 300 megawatts, with an energy storage capacity of 1,500 megawatt-hours and an underground



gas storage volume of 700,000 cubic meters.

## World's Largest Compressed Air Energy Storage Plant

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