

Land for air energy storage projects





Overview

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.

Will China's first large-scale compressed air energy storage project be commercialized?

A state-backed consortium is constructing China's first large-scale compressed air energy storage (CAES) project using a fully artificial underground cavern, marking a major step in the technology's commercialization.

What is compressed air energy storage (CAES)?

Compressed Air Energy Storage (CAES) has emerged as one of the most promising large-scale energy storage technologies for balancing electricity supply and demand in modern power grids. Renewable energy sources such as wind and solar power, despite their many benefits, are inherently intermittent.

What is Xinyang air storage?

Designated as a pilot project under China's National Energy Administration's new energy storage initiative, the Xinyang facility pioneers an innovative air-sealing approach for artificial underground storage, offering a significant boost to the commercialization of CAES technology in China.



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