

Huawei Gitega Compressed Air Energy Storage Project





Overview

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 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 compressed air energy storage (CAES)?

ing energy utilization efficiency and ensuring power system security. Among these, compressed air energy storage (CAES) has emerged as a key large-scale storage solution due to its advantages in scalability, longevity, and cost-effectiveness. This paper analyzes the fundamental principles, t.

How is China energy storage building a CAES facility?

Construction involves precision blasting, structural reinforcement, concrete lining, and a sealed steel layer to withstand an operating pressure of 14MPa. The project is led by China Energy Storage's Henan subsidiary, which has previously developed multiple CAES facilities, including 100 MW, 150 MW, and 300 MW installations.



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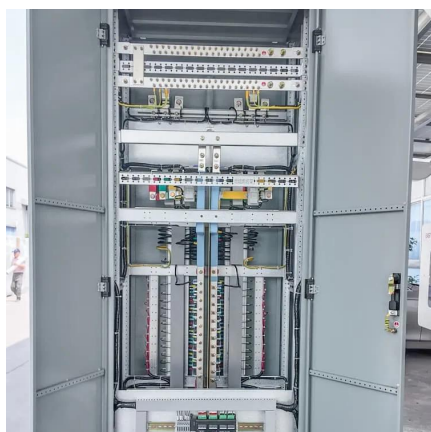
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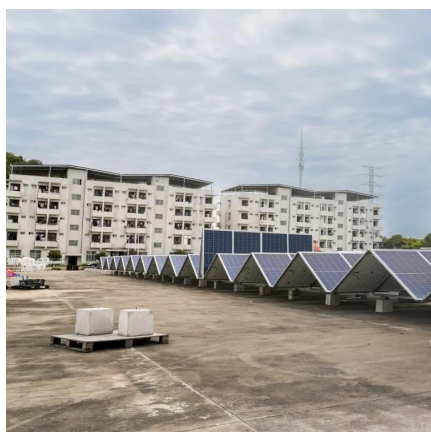


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