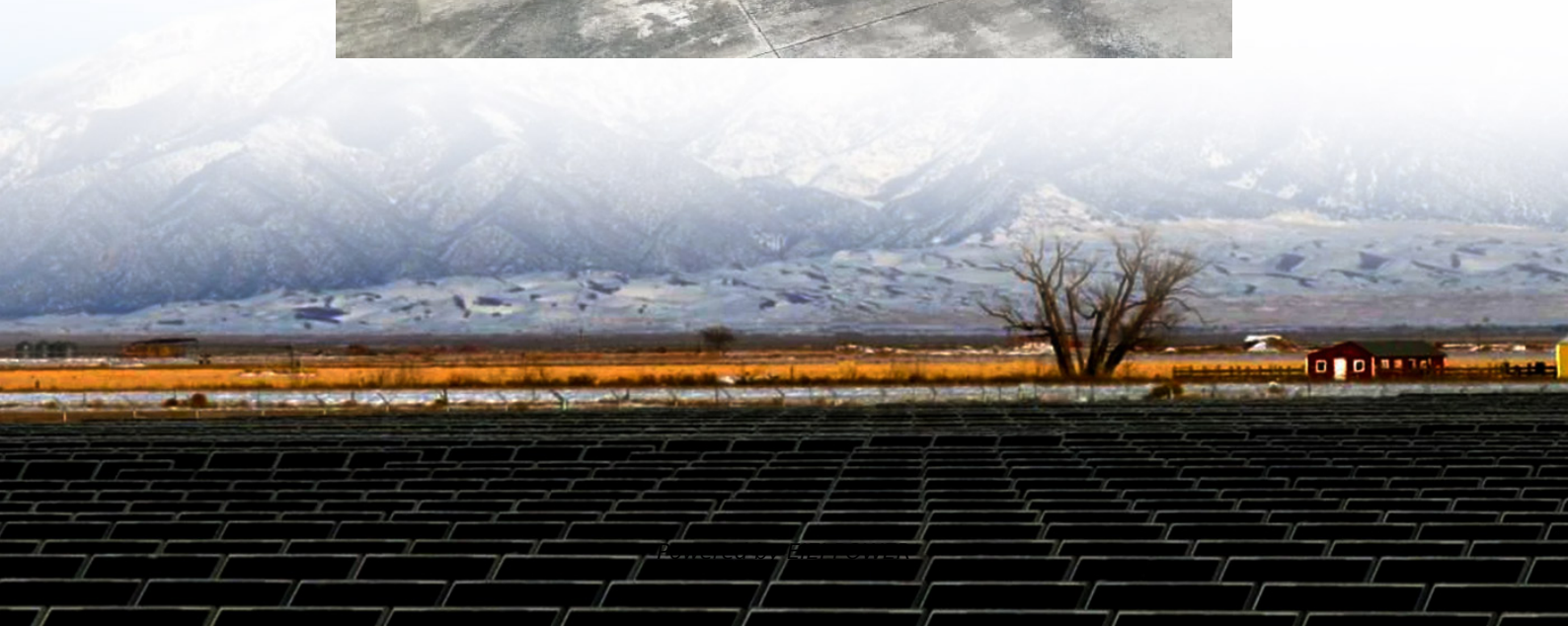


# Compressed Air Energy Storage Projects in Asia





## 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.

How can compressed air energy storage improve the stability of China's power grid?

The intermittent nature of renewable energy poses challenges to the stability of the existing power grid. Compressed Air Energy Storage (CAES) that stores energy in the form of high-pressure air has the potential to deal with the unstable supply of renewable energy at large scale in China.

Should China develop a CAES power plant based on underground air storage?

Based on China's current national conditions, several conclusions are drawn from this review. First, grid-level (100 MW and above) CAES power plants based on underground air storage are the first choice for developing CAES in China due to its mature technology and available geographical conditions.

Which energy storage technology is most suitable for large-scale energy storage?

Among the available energy storage technologies, Compressed Air Energy Storage (CAES) has proved to be the most suitable technology for large-scale energy storage, in addition to PHES .



## Compressed Air Energy Storage Projects in Asia

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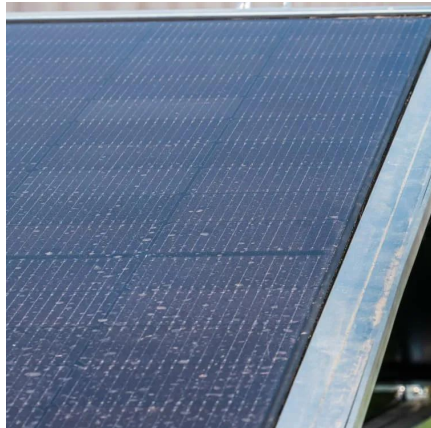
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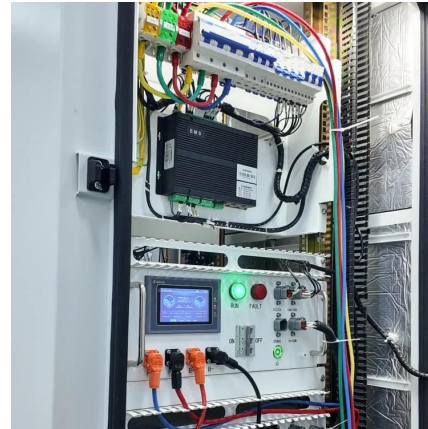
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