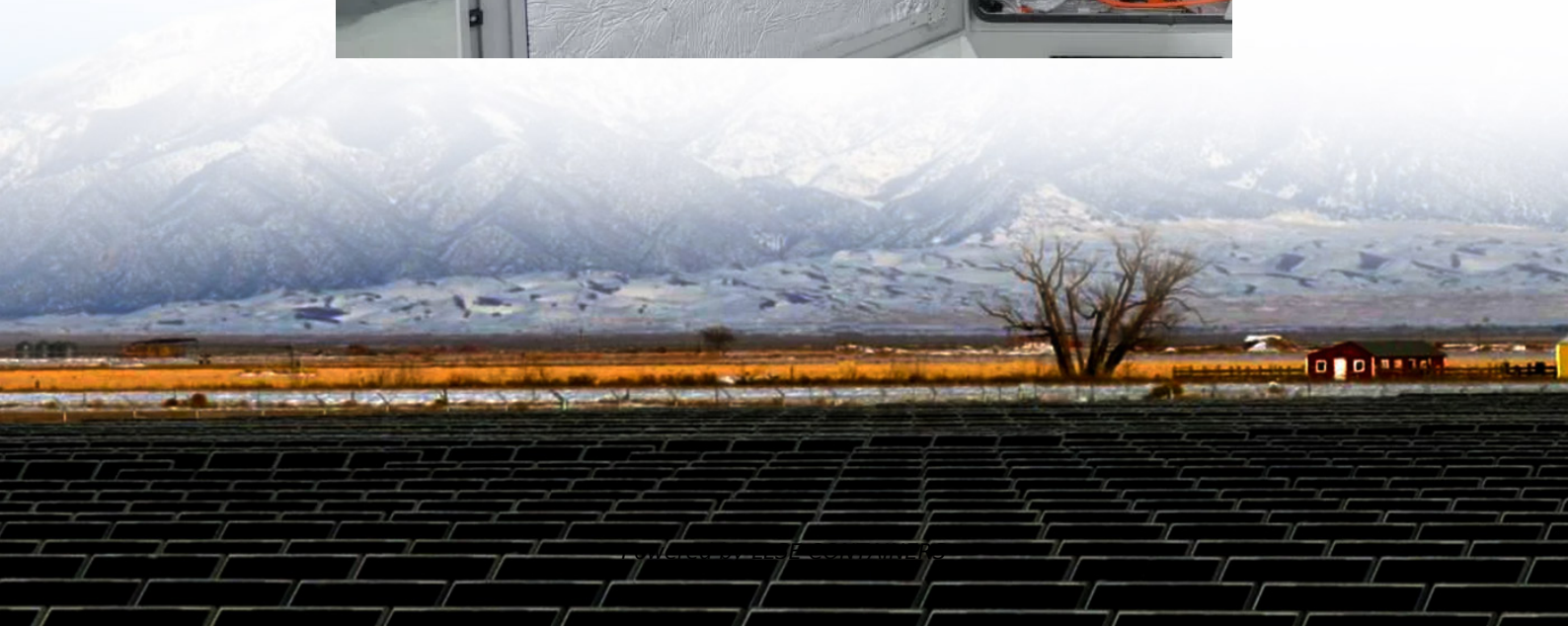


Huawei Nicaragua Compressed Air Energy Storage Project





Overview

What is compressed air energy storage (CAES)?

Among the different ES technologies, compressed air energy storage (CAES) can store tens to hundreds of MW of power capacity for long-term applications and utility-scale. The increasing need for large-scale ES has led to the rising interest and development of CAES projects.

How does compressed air energy storage technology work?

At its core, Compressed Air Energy Storage Technology works on a fairly simple principle: use electricity to compress air, store it under pressure, and then release it later to generate power. Think of it like charging a giant “air battery.”.

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.

Can CAES help achieve net-zero emissions targets?

As above-ground CAES tank technology improves, we may see deployments closer to cities and industrial hubs. By supporting renewable integration and reducing reliance on fossil-fuel-based peaker plants, CAES could play a direct role in achieving net-zero emissions targets worldwide.



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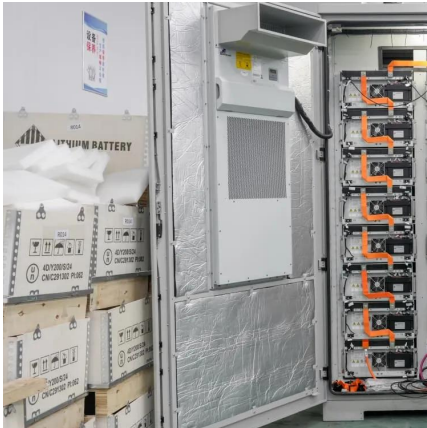
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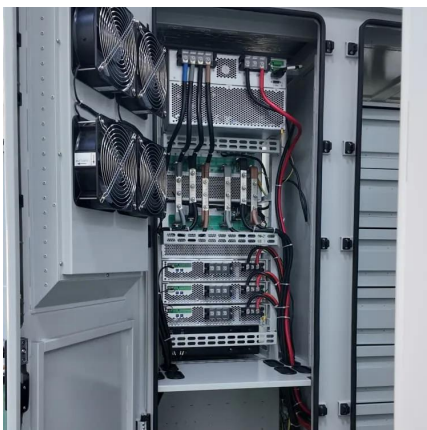


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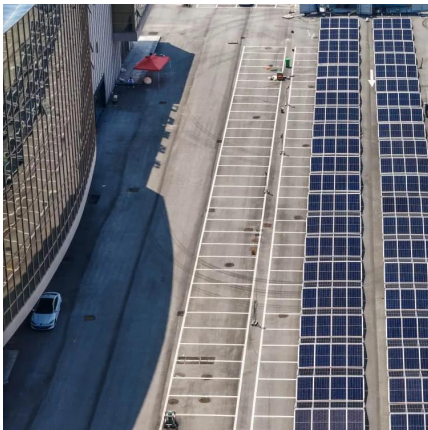
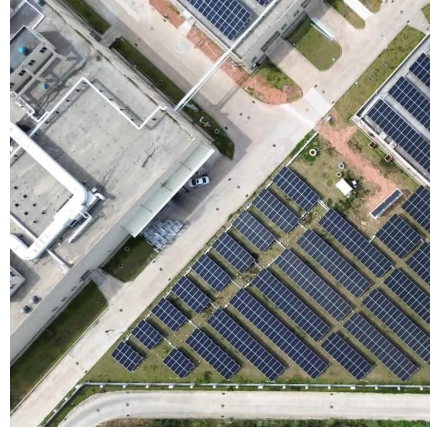
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