

# Current status of foreign compressed air energy storage projects

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.

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.

Where is compressed air stored?

Compressed air is stored in underground caverns or up ground vessels,. The CAES technology has existed for more than four decades. However, only Germany (Huntorf CAES plant) and the United States (McIntosh CAES plant) operate full-scale CAES systems, which are conventional CAES systems that use fuel in operation ,.

Can compressed air energy storage improve the profitability of existing power plants?

Linden Svd, Patel M. New compressed air energy storage concept improves the profitability of existing simple cycle, combined cycle, wind energy, and landfill gas power plants. In: Proceedings of ASME Turbo Expo 2004: Power for Land, Sea, and Air; 2004 Jun 14-17; Vienna, Austria. ASME; 2004. p. 103-10. F. He, Y. Xu, X. Zhang, C. Liu, H. Chen

What countries use compressed air?

Buenos Aires, Argentina, used air pulses to move clock arms every minute. Starting in 1896, Paris used compressed air to power homes and industry. Beginning in 1978 with the first utility-scale diabatic CAES project in Huntorf, Germany, CAES has been the subject of ongoing exploration and development for grid applications.

What is the current status of CAES projects?

The current status of major CAES projects worldwide is presented, comparing their technological routes, key technical specifications, operational status, and air storage methods. It reveals that CAES projects are evolving toward larger scales, higher efficiency, and more environmentally friendly practices.



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