Compressed air energy storage news

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.

It is the largest grid-connected CAES project of its size in the world, engineering firm China Energy Engineering Corporation claimed in its announcement of the project (or specifically, the first in the world of that scale).

The project is owned by China Energy Construction Digital Group and State Grid Hubei Integrated Energy Services Co. Both China Energy Engineering Corporation and China Energy Construction Digital Group are part of government-owned Assets Supervision and Administration Commission of the State Council.

CAES technology works by pressurising and funnelling air into a storage medium to charge the system, and discharges by releasing the air through a heating system to expand it, which turns a turbine generator.

Primarily, the project will improve the peak shaving capacity of the regional power grid, or in other words improve the provision or balancing of supply/demand during peak demand hours. More generally, it will help the grid integrate more renewable energy sources like wind and solar.

Engineering, procurement and construction (EPC) was provided by the Zhongnan Institute of EPC while other contractors were Hunan Thermal Power and Nanfang Construction. Zhongneng Equipment supplied the main and auxiliary core equipment as well as equipment manufacturing and management services, while a firm called Losda provided the ‘whole process data’.

A page from the Hubei Provincial Development and Reform Commission describes the project as belonging to a company called Hubei Chuyun Energy Storage Technology Co, but its role in it is not clear.

The project is similar in size and investment to one which started construction in 2022 Energy-Storage.news reported on at the time, but it is not clear if it is the same one. That came shortly after a 60MW/300MWh one was completed in Jiangsu province.

CAES and advanced-CAES (A-CAES) technologies are being used for the world’s largest non-lithium, non-PHES energy storage projects in advanced development or construction today.

Energy-Storage.news" publisher Solar Media will host the 2nd Energy Storage Summit Asia, 9-10 July 2024 in Singapore. The event will help give clarity on this nascent, yet quickly growing market, bringing together a community of credible independent generators, policymakers, banks, funds, off-takers and technology

providers. For more information, go to the website.

Recharge is the world"s leading business intelligence source for the renewable energy industries. We provide award-winning international coverage of breaking news, in-depth features and analysis across the wind and solar sectors. Learn about key energy issues as they happen and get industry insight from our experts.

Hydorstor, a global long duration energy storage developer and operator based in Canada, has signed a 65-year Crown Lands lease with the New South Wales (NSW), Australia, government, a significant milestone in the construction of the 1,600-MWh Silver City Energy Storage Center, which is slated to begin next year.

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