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China Gravity Energy Storage Grid-Connected Power Generation Project



Overview

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Energy Vault's groundbreaking EVx™ is the world's first commercial-scale Gravity Energy Storage System (GESS), providing industry leading round-trip efficiency and a 35-year operating life. The 25 MW/100 MWh EVx™ Gravity Energy Storage System (GESS) is a 4-hour duration project being built outside.

Another Energy Vault gravity energy storage project under construction in Zhangye City, Gansu Province, China. Image: Business Wire. Energy Vault has connected its first commercial EVx gravity-based energy storage system to the grid in China, while construction has been launched on three others.

To use potential energy for energy generation, Energy Vault has replaced water in a conventional hydropower unit with "proprietary cement/polymer-based composite bricks that can be made of ultra-low-cost materials: soil, mine tailings, coal ash, incinerated city waste, and other remediation.

Energy Vault, a leading provider of innovative energy storage solutions, has achieved a significant milestone by connecting its first commercial EVx gravity-based energy storage system to the grid in China. This project, located in Rudong, boasts a capacity of 25MW/100MWh and marks a pivotal moment.

Energy Vault confirmed grid connection and power operation of the first gravity storage project in China alongside construction of three more. A second EVx system in Zhangye City, Gansu Province, started in Q2 2023 has completed foundation work and initial four floors of construction above

ground.

The Energy Vault (NRGV) installation at Rudong, near Shanghai, is the first gravity energy storage system to be commissioned in the world. The EVx facility towers above the wind turbines whose energy it will store. More Energy Vault (NYSE: NRGV) will license six additional EVx gravity energy.

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