



MODERNIZATION SOLAR

The first gravity energy storage project





Overview

The Rudong project is the world's first commercial scale deployment of a non-pumped hydro, gravitational energy storage system. What is gravity energy storage system (GESS)?

The 25 MW/100 MWh EVx™ Gravity Energy Storage System (GESS) is a 4-hour duration project being built outside of Shanghai in Rudong, Jiangsu Province, China. The EVx™ is under construction directly adjacent to a wind farm and national grid.

Where is the gravity energy storage system based?

The research and development of the gravity energy storage system has been based in Ticino and operational since 2019 with its own R&D centre. The commercial demonstration unit has been connected to the Swiss national utility grid and used for two years of testing and software commissioning.

What is Energy Vault project?

Energy Vault Project (China, Rudong) - Groundbreaking of this first of its kind, gravity energy storage center was announced in May of 2022.

Which energy storage project is under construction in China?

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, all-in-all totalling 468MWh of capacity.



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[Energy Vault completes world's first gravity ...](#)

Aug 7, 2023 · Energy Vault is commissioning the world's first grid-scale gravity energy storage system. It is adjacent to a wind power plant near ...

[China Tianying's Rudong 100MWh Gravity Energy Storage](#)

Nov 11, 2023 · The report highlighted that as the first domestic demonstration project for gravity energy storage, the Rudong 100MWh Gravity Energy Storage Project has entered its final ...

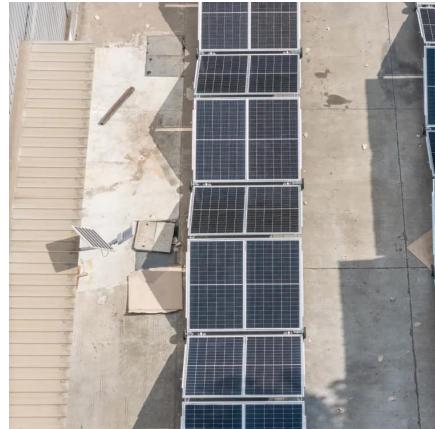


[Energy Vault connects first gravity energy ...](#)

Mar 4, 2024 · Another Energy Vault gravity energy storage project under construction in Zhangye City, Gansu Province, China. Image: Business ...

[Energy Vault, Agilitas Energy launch Texas ...](#)

Jun 12, 2025 · The 57MW/114MWh Cross Trails BESS is located in Scurry County, Texas. Image: Energy Vault In Texas, two companies, Energy ...



[First grid-scale gravity energy storage system undergoes ...](#)

Aug 2, 2023 · The system will be the world's first commercial, grid-scale gravity energy storage system - an alternative to existing pumped hydroelectric plants.



China Tianying Successfully Tops Out the First National Gravity Energy

Sep 27, 2023 · Once completed and operational, the project will become the world's first commercial-scale benchmark for gravity energy storage, providing a solid foundation for the ...



[Giant gravity batteries for storage of ...](#)

May 7, 2024 · The company's first commercial grid-scale project using its proprietary gravity energy storage technology in Rudong, near Shanghai, ...



Energy Vault connects commercial-scale

...

Mar 7, 2024 · The Rudong EVx project will be the world's first commercial, utility-scale, non-pumped hydro gravity energy storage system once final ...



World's first 26MW gravity energy storage project nears ...

The China Tianying Rudong Gravity Energy Storage Project, located in Yangkou town, Rudong county, Nantong, is the world's first 26MW gravity energy storage facility. With a total ...



Energy Vault connects first gravity energy storage unit to ...

Mar 4, 2024 · Another Energy Vault gravity energy storage project under construction in Zhangye City, Gansu Province, China. Image: Business Wire. Energy Vault has connected its first ...



Energy Vault completes world's first gravity energy storage ...

Aug 7, 2023 · Energy Vault is commissioning the world's first grid-scale gravity energy storage system. It is adjacent to a wind power plant near Shanghai.



[Energy Vault starts commissioning gravity](#)

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Aug 2, 2023 · The company's EVx project in China, the first commercial one it has deployed. Image: Business Wire. Energy Vault has started

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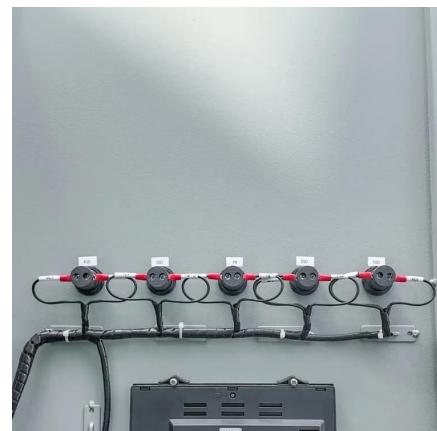


[China Tianying Successfully Tops Out the First ...](#)

Sep 27, 2023 · Once completed and operational, the project will become the world's first commercial-scale benchmark for gravity energy storage, ...

[Solid gravity energy storage: A review](#)

Sep 1, 2022 · The decision tree is made for different technical route selections to facilitate engineering applications. Moreover, this paper also proposed the evaluation method of large ...



[Gravitricity and Energy Vault Move Forward ...](#)

Apr 27, 2023 · The technology is similar to that employed by Switzerland-headquartered and NYSE-listed Energy Vault, whose CEO Robert Piconi ...



Energy Vault commissions China project.

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May 10, 2024 · Energy Vault's first large-scale EVx gravity storage project in China. The project has completed commissioning and will soon enter ...



Energy Vault connects commercial-scale gravity energy storage ...

Mar 7, 2024 · The Rudong EVx project will be the world's first commercial, utility-scale, non-pumped hydro gravity energy storage system once final provincial and state approvals are ...

Giant gravity batteries for storage of renewable energies

May 7, 2024 · The company's first commercial grid-scale project using its proprietary gravity energy storage technology in Rudong, near Shanghai, was connected to the grid in December ...



First grid-scale gravity energy storage system ...

Aug 2, 2023 · The system will be the world's first commercial, grid-scale gravity energy storage system - an alternative to existing pumped ...



Energy Vault tests and commissions the ...

May 13, 2024 · Leading grid-scale energy storage solutions provider, Energy Vault Holdings Inc., (Energy Vault) earlier in May announced that it has ...



WILL CHINA TIANYING BUILD A 100 MWH GRAVITY ENERGY STORAGE PROJECT

China's flywheel energy storage practical application project. This project represents China's first grid-level flywheel energy storage frequency regulation power station and is a key project in ...

"25-Megawatt Gravity Battery Lights Up Shanghai": China's ...

Aug 10, 2025 · Rudong EVx, a pioneering gravity energy storage project on the outskirts of Shanghai, has successfully integrated into China's national grid, marking a transformative step ...



Rudong, China Gravity Energy Storage System

2 days ago · Energy Vault Project (China, Rudong) - Groundbreaking of this first of its kind, gravity energy storage center was announced in May of 2022.



[The first gravity energy storage project in China built by ...](#)

Sep 28, 2023 · At 8:18 on September 26, the main project of the Rudong 100MWh Gravity Energy Storage Project, the first gravity energy storage demonstration project in China invested and ...



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