

Germany Hamburg high power energy storage equipment





Overview

What is the heat storage facility in Hamburg-Altenwerder?

The heat storage facility, which was ceremonially opened today in Hamburg-Altenwerder, contains around 1,000 tonnes of volcanic rock as an energy storage medium. It is fed with electrical energy converted into hot air by means of a resistance heater and a blower that heats the rock to 750°C.

What is electric thermal energy storage (ETEs)?

The 130MWh Electric Thermal Energy Storage (ETES) demonstration project, commissioned in Hamburg-Altenwerder, Germany, in June 2019, is the precursor of future energy storage solutions with gigawatt-scale charging and discharging capacities. Siemens Gamesa, Hamburg University of Technology, and Hamburg Energie.

What does Hamburg energy do?

Hamburg Energie is responsible for marketing the stored energy on the electricity market. The energy provider is developing highly flexible digital control system platforms for virtual power plants. Connected to such an IT platform, ETES can optimally store renewable energy at maximum yield.

How many energy storage companies in Germany in 2025?

Detailed info and reviews on 27 top Energy Storage companies and startups in Germany in 2025. Get the latest updates on their products, jobs, funding, investors, founders and more.



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Summary: Discover how Hamburg's cutting-edge energy storage power stations are revolutionizing renewable energy integration, stabilizing grids, and supporting Germany's ...

[Electric Thermal Energy Storage \(ETES\) System. Hamburg](#)

Aug 2, 2019 · The 130MWh Electric Thermal Energy Storage (ETES) demonstration project was commissioned in Hamburg-Altenwerder, Germany, in June 2019.



[Energy Transition at the Pump: JET & Voltfang HPC in Hamburg](#)

Dec 6, 2025 · Energy Transition at the Fuel Pump: JET Deploys Fast-Charging Infrastructure with Voltfang Battery Storage in Hamburg Without Grid Expansion Aachen, Sept 11, 2025 - ...



[Pilot project in Hamburg: Hamburger Hochbahn AG and suena energy](#)

Nov 4, 2025 · Hamburger Hochbahn AG and suena energy are jointly implementing a pilot project: a stationary battery storage system that both optimizes self-consumption and actively ...



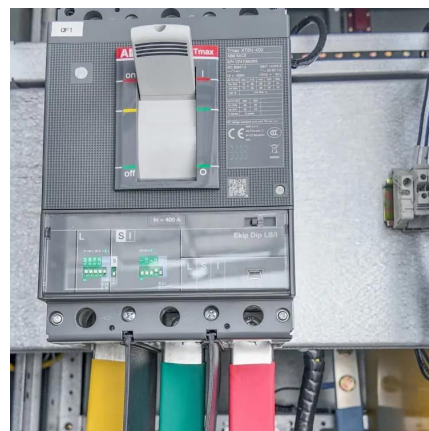
[World first: Siemens Gamesa begins operation of its ...](#)

Jun 12, 2019 · In a world first, Siemens Gamesa Renewable Energy (SGRE) has today begun operation of its electric thermal energy storage system (ETES). During the opening ceremony, ...



Energy Storage

Manufacturers, suppliers and system providers of energy storage systems will be presenting their most up-to-date technologies in the new exhibition area. This will cover battery technologies, ...



[Novel high-performance storage enters final construction ...](#)

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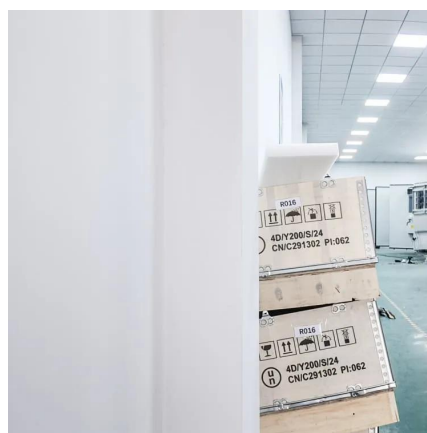
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[Electric Thermal Energy Storage \(ETES\) System, Hamburg](#)

Etes Project Background
Financing Hamburg Etes
Pilot Plant Details
Efficiency
Advantages of The Electric Thermal Energy Storage System
The ETES prototype uses 1,000 tonnes (t) of volcanic rocks as the medium for energy storage. The facility is charged using hot air produced with the help of a resistance heater and a blower. The thermal energy converted from electricity is stored in the volcanic rocks at a temperature between 750°C and 800°C. The facility can also



be charged with h See more on
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