

# **Energy storage power supply in Hamburg Germany**





## Overview

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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.

How does the port of Hamburg affect energy demand?

In addition, the strong deviations of the HafenCity's energy demand are dampened by the demand of the Port of Hamburg. Thus, connecting more districts of Hamburg or even other cities in Germany or the European Union can have similar effects.

Does Germany need a smart energy grid?

Germany, in its transition to renewable energies, faces challenges in regulating its energy supply. This study investigates the impact of various technologies, including energy storage solutions, peak shaving, and virtual buffers in a smart energy grid on a large scale.

Does Germany need to regulate its energy supply?

Author to whom correspondence should be addressed. Globally, efforts are made to balance energy demands and supplies while reducing CO<sub>2</sub> emissions. Germany, in its transition to renewable energies, faces challenges in regulating its energy supply.



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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 nsenenergybusiness Tracxn



## Energy Storage Tech Startups in Hamburg, Germany - Tracxn

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reducing CO2 emissions. Germany, in its transition to renewable energies, faces challenges in ...



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