

# What are the energy storage power stations in Hamburg Germany





## Overview

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What is Germany's energy storage capacity?

Germany had 4,776MW of capacity in 2022 and this is expected to rise to 19,249MW by 2030. Listed below are the five largest energy storage projects by capacity in Germany, according to GlobalData's power database. GlobalData uses proprietary data and analytics to provide a complete picture of the global energy storage segment.

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 is Hamm battery energy storage system?

The Hamm Battery Energy Storage System is a 140,000kW lithium-ion battery energy storage project located in Hamm, North Rhine-Westphalia, Germany. The electro-chemical battery storage project uses lithium-ion battery storage technology. The project will be commissioned in 2024. The project is developed by RWE Power. Buy the profile here. 5.

Can ETEs be scaled-up to store more than 1gwh of electricity?

Siemens Gamesa, Hamburg University of Technology, and Hamburg Energie. The ETES system has the potential to be scaled-up for storing more than 1GWh of electricity. Image courtesy of Siemens Gamesa Renewable Energy, S.A. The 130MWh Electric Thermal Energy Storage (ETES) demonstration project was commissioned in June 2019.



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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





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