
Germany Hamburg Industrial and Commercial Energy Storage Project

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.

How does Hamburger Energiewerke deliver industrial heat?

The heat can then be fed into the over 860-kilometer city network using a network pump system. To deliver the industrial heat to Hamburg households, Hamburger Energiewerke is using an existing enercity Contracting Nord GmbH pipeline to cover the first segment from the Aurubis plant to the Elbe River crossing.

How did Hamburger Energiewerke get funding?

Hamburger Energiewerke received funding from BAFA as part of the Model Project Heat Network Systems 4.0 (Module II) program. The Hamburg Investment and Development Bank (IFB Hamburg) also provided funding for the HEnW project in keeping with the "Companies for Resource Conservation" funding guidelines.

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The Stade LNG Terminal, also known as the Hanseatic Energy Hub, is Germany's first land-based liquefied natural gas (LNG) ...

The Energy Storage Market is expected to reach USD 295 billion in 2025 and grow at a CAGR of 9.53% to reach USD 465 billion by ...

Port of Hamburg kick-starts the Sustainable Energy Hub Initiative The Port of Hamburg is taking advantage of the opportunities presented by the energy transition and positioning itself as a ...

From 10 kWh to 30 MWh outputs, connected to low or high voltage, on-grid or off-grid, in combination with solar, wind, hydro or combined heat and ...

Analysis on Installations in Germany In 2023, Germany witnessed an unprecedented surge in energy storage installations, ...

Imprint The study "Energy Storage in Germany - Present Developments and Applicability in China" is published within the framework of the "Sino-German Energy ...

The first borehole for an underground hydrothermal aquifer heat storage facility began Friday (December 30, 2022) on the site of the Tiefstack CHP plant. Surplus waste heat ...

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, ...

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