
Germany Hamburg Energy Storage Group 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.

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 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.

"We are putting another part of Hamburg's energy transition in place by drilling for the aquifer heat storage facility," said Jens Kerstan, Senator for the Environment. Instead of ...

Large-scale heat storage systems enable the integration of renewable energies, increase grid flexibility and ensure a reliable supply. With sound engineering know-how and in ...

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, ...

Today Aurubis AG CEO Dr. Toralf Haag and Hamburger Energiewerke GmbH (HENW) Managing Director Michael Prinz joined First Mayor of the Free and Hanseatic City of ...

The Hamburg Green Hydrogen Hub has tapped Siemens Energy to provide and install six electrolyzers for a 100 MW system, with ...

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The ETES (electric thermal energy storage) pilot plant in Hamburg, Germany -- at the site of a decommissioned conventional power plant -- converts electrical energy into hot ...

On 26 September Siemens Gamesa Renewable Energy (SGRE) celebrated the topping-out ceremony of its electric thermal energy storage (ETES) facility in ...

The Hamburg Green Hydrogen Hub (HGHH) project company is building a 100 MW electrolysis plant for green hydrogen at the site of the former Moorburg coal-fired power plant.

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The Hamburg Green Hydrogen Hub has tapped Siemens Energy to provide and install six electrolyzers for a 100 MW system, with construction set to begin next year and ...

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Discover how Hamburg's cutting-edge energy storage solutions are reshaping renewable energy integration and grid stability. This article explores the technical innovations, environmental ...

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