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Title: The first energy storage project in Hamburg Germany

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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.

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 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 much energy can a thermal energy storage system store?

The Electric Thermal Energy Storage system can store up to 130MWh of thermal energy for a week, which can be converted back into electrical energy using a 1.4MW steam turbine generator that can produce electricity for up to 24 hours.

Aug 2, 2019 – The 130MWh Electric Thermal Energy Storage (ETES) demonstration project, commissioned in Hamburg-Altenwerder, Germany, in June 2019, is the precursor of future ...

Jan 9, 2025 – Hamburger Energiewerke and Aurubis kick off flagship project for carbon-neutral district heating Hamburg, January 9, 2024 -- Today Aurubis AG CEO Dr. Toralf Haag and ...

The first energy storage project in Hamburg Germany

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