



The first energy storage project in Hamburg Germany

Why is Hamburg promoting storage development?

Hamburg's municipal energy supplier developed an IT platform to which the storage unit is connected. The platform guarantees that maximum possible proceeds are achieved by an optimized storage usage. The Federal Ministry of Economics and Energy is promoting storage development as part of the Future Energy Solutions project.

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.

How many households can a German energy storage facility hold?

The storage facility, able to hold the daily energy requirements of 1,500 German households, is set to be commissioned in 2019. Scientists from the Institute of Thermo-fluid Dynamics at the Technical University of Hamburg and the energy supplier Hamburg Energie have been involved in the development.

What is a heat storage facility?

The innovative storage technology makes it possible to store large quantities of energy cost-effectively and thus decouple electricity generation and use. 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.

What is Siemens Gamesa's Hot-Rock thermal energy-storage system?

Siemens Gamesa has begun operation of its revolutionary hot-rock thermal energy-storage system, which has the potential to cost-effectively store gigawatt hours (GWh) of renewable energy for up to two weeks with minimal losses.

Sep 4, 2024 – Encavis AG, a wind and solar park operator based in Hamburg and listed on the MDAX of Deutsche Börse AG, has acquired a ready-to ...

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Sep 26, 2018 · To kick off the Global Wind Summit, comprising WindEnergy Hamburg, the world's leading wind energy expo, and the global WindEurope conference, Siemens Gamesa ...

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