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Title: Energy storage application site in Hamburg Industrial Park Germany

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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 energy Contracting Nord GmbH pipeline to cover the first segment from the Aurubis plant to the Elbe River crossing.

What is the Hamburg ETES demonstration facility?

The Hamburg ETES demonstration facility is designed to draw surplus electricity from the grid, store it in the form of thermal energy, and utilise the same to produce electricity, when it is most needed. The facility is capable of powering 1,500 German households a day.

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.

How does hPa support alternative fuel infrastructure in Hamburg?

Together with private stakeholders, HPA takes pro-actively responsibility and supports the establishment of alternative fuel infrastructure in the port of Hamburg. Tanker Port areas are already bunker-ready in the port of Hamburg for any alternative fuel. Biofuels are locally available and being bunkered regularly.

In an opening ceremony in Hamburg yesterday, Siemens Gamesa Renewable Energy SA (BME:SGRE) put into operation an electric thermal energy storage system (ETES) that can ...

It encompasses the huge surplus heat potential at the Hamburg site that we will be extracting for our new energy park and the climate ...

The new exhibition area will focus on the integration of energy storage in the renewable energy supply chain. Among other things, large-scale battery ...

JET and Voltfang showcase the future of e-mobility in Hamburg: A 300 kW fast-charging station with battery storage enables ultra-fast charging without grid expansion, transforming traditional ...

Germany's push toward renewable energy just got a major boost with Hamburg's new energy storage base. Designed to store excess wind and solar power, this facility addresses one of ...

The new exhibition area will focus on the integration of energy storage in the renewable energy supply chain. Among other things, large-scale battery storage systems and groundbreaking ...

Etes Project BackgroundFinancingHamburg Etes Pilot Plant DetailsEfficiencyAdvantages of The Electric Thermal Energy Storage SystemThe 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 be charged with h...See more on nsenergybusiness

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