



FTMRS SOLAR

Germany Hamburg Factory Energy Storage Project





Overview

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 energicity 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.

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.

Who is Hamburger Energiewerke?

Hamburger Energiewerke GmbH is a 100 percent municipal energy supplier. The company supplies more than 160,000 customers in Hamburg with green electricity and gas. Hamburger Energiewerke also operates one of the largest district heating networks in Germany, supplying over 525,000 residential units with city heat for heating and hot water.



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Electric Thermal Energy Storage (ETES) System, Hamburg

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 VoltfangEnergy Transition at the Pump: JET & Voltfang HPC in HamburgDec 6, 2025 · Energy Transition at the Fuel Pump: JET Deploys Fast-Charging Infrastructure with Voltfang Battery Storage in Hamburg Without Grid Expansion Aachen, Sept 11, 2025 - ...

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