



Germany Hamburg Air-Cooled Energy Storage Project





Overview

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July 2025 — Germany will become home to the world's first commercial-scale AirBattery, a long-duration energy storage system developed by Israeli company Augwind Energy. The facility will use Hydraulic Compressed Air Energy Storage (CAES) technology to store excess renewable electricity by.

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 Hamburg Dr. Peter Tschentscher in inaugurating the HENW thermal storage system, symbolically kicking off the supply of carbon-neutral.

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.

The company is Europe's largest copper manufacturer and has developed a multi-award-winning flagship project that has been successfully supplying an entire district with almost climate-neutral exhaust heat for several years now. Together with the energy supplier Enercity AG from Lower Saxony, a.

Augwind's hydraulic compressed air tech aims to solve Europe's "Dunkelflaute" problem by storing renewable power for months. Israel's Augwind Energy has announced plans to build the world's first commercial-scale AirBattery energy storage facility in Germany, marking a major breakthrough in the.

World first: Siemens Gamesa begins opera. 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, Energy State Secretary



Andreas Feicht, Hamburg's First Mayor Peter Tschentscher, Siemens.



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AugWind Energy To Install First Commercial-Scale AirBattery In ...

Augwind Energy, based in Israel, will build the "world's first commercial-scale AirBattery system" in Germany. The battery will use compressed air stored in salt caverns to ...

[Top five energy storage projects in Germany](#)

The electro-mechanical battery storage project uses compressed air storage technology. The project was announced in 2010 and will be commissioned in 2013.



[Germany to host world's first long-duration ...](#)

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[Heat transition in Germany using the example of Hamburg](#)

In Germany, more and more homeowners are currently undergoing their private energy transition: with a solar system on the roof, battery storage and a heat pump in the basement - 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 ...



[Electric Thermal Energy Storage \(ETES\) System, Hamburg](#)



Etes Project Background Financing Hamburg Etes Pilot Plant Details Efficiency Advantages of The Electric Thermal Energy Storage System The 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 nseenergybusiness kfw



Heat transition in Germany using the example of ...

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Symbolic start of industrial heat feed-in to Hamburg city network

It works a bit like a thermos, and the heat is released into Hamburger Energiewerke's over 860-kilometer-long city network when needed. The project received ...

New salt and air based BESS being commercially developed in Germany

Germany is developing both salt-based thermal energy storage and air-based energy storage technologies. The salt-based systems use molten salt to store heat, which can then be ...



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[Siemens Gamesa launches revolutionary thermal ...](#)

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



World first: Siemens Gamesa begins operation of its innovative

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.



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