Antora battery Bermuda

What makes Antora a good thermal battery?
Antora's factory-made thermal batteries flexibly scale to match the energy needs of any industrial facility. Carbonis a time-tested industrial material with no risk of thermal runaway. Always-on heat and power for industrial operations where downtime is not an option.

Does Antora energy have a ready-to-scale thermal battery?
SUNNYVALE,Calif-- (BUSINESS WIRE)-- Antora Energy,a leader in zero-carbon heat and power for the industrial sector,has launched its proven,ready-to-scale thermal battery.

Will Antora's thermal batteries decarbonize industrial energy?
Antora's thermal batteries will have a significant impact on decarbonizing industrial energywhile creating U.S. jobs,spurring America's manufacturing sector,and strengthening domestic supply chains. "When it comes to decarbonizing industry,we have no time to waste," said Andrew Ponec,co-founder and CEO of Antora Energy.

What is Antora energy?
Antora Energy has developed a low-cost,highly efficient thermal batterythat stores electricity produced by wind and solar generators as heat,allowing manufacturers and other energy-hungry businesses to eliminate their use of fossil fuels. Above: Antora installs its first commercial-scale unit at an industrial site near Fresno,California.

Is Antora a lithium ion battery?
Antora's battery is 3x energy dense compared to lithium-ion batteries. Antora's first commercial-scale thermal battery at Wellhead Electric Company in Fresno, California reached the highest temperature achieved to date for a thermal battery at full scale-1,800°C.

Where are Antora thermal batteries made?
Manufactured at the company's factory in San Jose,CA,Antora's modular thermal batteries roll off the production line ready to be road-shipped for simple installation at industrial sites.

Antora Energy is addressing the intermittent nature of wind and solar with a low-cost, highly efficient thermal battery that stores electricity as heat to allow manufacturers and other energy-hungry businesses to eliminate their ...

Antora"s thermal battery converts low-cost, intermittent renewable electricity into a reliable, on-demand source of zero-emissions industrial heat and power. Industry is the single biggest ...

Antora Energy has developed a low-cost, highly efficient thermal battery that stores electricity produced by

wind and solar generators as heat, allowing manufacturers and other energy-hungry businesses to eliminate their use of fossil fuels.

At Antora, we"re on a mission to stop climate change. And we can"t do that unless we tackle the 30% of global emissions that come from industry. ... Direct ownership of structural, fluid, and/or electrical subsystems and components within Antora"s thermal battery module by driving basic architecture evaluations, generating detailed ...

Antora"s solution is to collect electricity from inexpensive, renewable sources like wind and solar and store it as high-temperature heat, creating a thermal battery. This stored thermal energy can then be used directly to provide process heat up to 1500°C, which many industrial processes require, or it can be converted back to the ...

In demonstrating a modular, factory-assembled, commercial-scale thermal battery using low-cost and earth-abundant materials, Antora has proven a clear path to cost-effectively decarbonizing ...

Antora Energy has developed a low-cost, highly efficient thermal battery that stores electricity produced by wind and solar generators as heat, allowing manufacturers and other energy-hungry businesses to eliminate their ...

Assignee: Antora Energy, Inc. Inventors: Andrew Joseph Ponec, Justin Briggs, David Bierman, Sam Kortz ... Abstract: A solid-state thermal battery system is disclosed herein. The system includes a stationary thermal storage medium that can be charged by adding heat to the thermal storage medium. Actuated heat engines can be utilized to discharge ...

Antora Energy is addressing the intermittent nature of wind and solar with a low-cost, highly efficient thermal battery that stores electricity as heat to allow manufacturers and other energy-hungry businesses to eliminate their use of fossil fuels.

Sunnyvale, CA - Antora Energy, a leader in zero-emissions industrial heat and power, has been selected by the Department of Energy"s Advanced Research Projects Agency-Energy (ARPA-E) to begin award negotiations for up to $14.5 million to accelerate the launch of Antora"s combined heat and power thermal battery product.

A thermal battery unit. Image: Antora Energy . US$150 million has been raised in a Series B by Antora Energy, a US-based startup with a novel "thermal battery" technology claimed to be suitable for decarbonising industrial processes.

justin@antora.energy Solid State Thermal Battery Antora Energy The Antora Energy team will develop a thermal energy storage system that contains thermal energy in inexpensive carbon blocks. To charge the battery, power from the grid will heat the blocks to temperatures exceeding 2000 °C. To discharge, the hot blocks are exposed to

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Antora Energy has developed a low-cost, highly efficient thermal battery that stores electricity produced by wind and solar generators as heat, allowing manufacturers and other energy-hungry businesses to eliminate their use of fossil fuels. Above: Antora installs its first commercial-scale unit at an industrial site near Fresno, California.

US$150 million has been raised in a Series B by Antora Energy, a US-based startup with a novel "thermal battery" technology claimed to be suitable for decarbonising industrial processes. The company"s product delivers heat stored in blocks of carbon material, but it can also deliver electrical power using a patented "thermophotovoltaic ...

Leading Industrial Decarbonization Company Recognized for Landmark Thermal Battery Delivering Zero-Carbon Heat and Power . Sunnyvale, CA - Antora Energy, a leader in zero-carbon heat and power for the industrial sector, today announced its thermal battery has been named to TIME"s annual list of the Best Inventions, which features ...

US$150 million has been raised in a Series B by Antora Energy, a US-based startup with a novel "thermal battery" technology claimed to be suitable for decarbonising industrial processes. The company"s product ...

Antora Energy"s battery energy storage system (BESS). It is currently at a technology readiness level (TRL) of 7 and not ready for full-scale deployment. To support decisions on the value of near-term demonstrations, this analysis looked at the potential value of Antora Energy"s BESS if deployed in the future.

Antora Energy developed a revolutionary way to decarbonize heavy industry using thermal batteries that are 3x more energy dense than lithium-ion batteries. Antora"s battery stores energy in a stack of commercially available carbon blocks in an insulated box. These blocks are heated until they glow like a toaster.

To learn more about Antora Energy, visit and follow the company on LinkedIn and Twitter. About Antora Energy . Antora Energy is unlocking zero-emissions industrial heat and power, cheaper than fossil fuels. Antora"s thermal batteries convert low-cost, intermittent renewable electricity into reliable industrial energy.

Antora"s modular architecture enables rapid installation by an experienced construction team to deliver projects on time and on budget. 5 Operation & Maintenance We ensure reliable plant operations using advanced software and controls, experienced on-site operators, and around-the-clock monitoring.

Antora"s battery could dramatically expand the application of renewable energy by enabling its use in industry, a sector of the U.S. economy that accounted for nearly a quarter of all greenhouse gas emissions in 2021.. Antora says it is able to deliver on the long-sought promise of heat-to-power TPV technology because it has achieved new levels of efficiency and scalability with its ...

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