

What is Antora thermal battery?

Antora's thermal battery turns cheap, clean energy into the standard that powers global industry. Charges with surplus clean electricity to deliver cost-effective, zero-emission energy at a predictable price. Multi-day storage delivers always-on heat and power for industrial operations where downtime is not an option.

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.

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 energy while 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.

Will Antora start producing thermal batteries next year?

Justin Briggs, Antora's co-founder and COO, says the new factory will begin producing thermal batteries next year, though Briggs was tightlipped on naming customers. (The company has technology that will allow its batteries to output both heat and electricity, but the current factory will produce batteries that output only heat at first.)

Where are Antora batteries made?

The company tested out its first full-scale pilot plant at an industrial site in Fresno, Calif., last month. Justin Briggs, Antora's co-founder and COO, says the new factory will begin producing thermal batteries next year, though Briggs was tightlipped on naming customers.

Antora's thermal batteries store renewable energy as heat in blocks of solid carbon, an earth-abundant material with extensive existing supply chains on six continents. The production made ...

Bill Gates-backed startup Antora Energy is preparing to roll out a containerized, modular heat battery, designed to store renewable energy at the lowest possible cost - then release it ...

US thermal batteries company Antora Energy has completed a USD 150 million (EUR 138m) Series B



## Antora batteries

funding round led by Decarbonization Partners, a joint venture between US investment giant BlackRock and Singapore's sovereign wealth fund Temasek. Antora said last week the capital will allow it to ramp production of its factory-made thermal batteries to help ...

Antora's thermal batteries are the new standard for running always-on industrial operations on renewable energy. Explore. Explore. Our Products ... Antora's modular architecture enables rapid installation by an experienced construction team to deliver projects on time and on budget.

An Antora thermal battery leaving the factory Manufacturing at Scale From the very beginning, we've designed our American-made thermal batteries for rapid production and scale. We turned on our first thermal battery deployment in 2023, and now we're on the path to manufacturing thousands. Our landmark gigafactory in San Jose, California is ...

Antora's thermal batteries seek to address high-heat intensive industries like steel and cement production. The company's thermal battery absorbs solar and wind power during hours of peak production when these electricity sources are the least expensive.

Antora's thermal batteries are meant to solve that problem. Essentially, their system is an insulated box, filled with stacks of graphite, the black material used in pencils, and coils that ...

Antora's thermal battery can store 15 megawatt hours in the footprint of a shipping container--that's 5 times more than a Lithium-ion battery. Antora's thermal batteries take excess solar and wind energy not needed for the grid, and use it to heat blocks of carbon until they're glowing hot -- think of the glow from your toaster when ...

Antora has demonstrated the highest efficiency solid-state heat engine in history. This superpower enables the deployment of energy storage so cheap that it competes with natural gas -- a price point more than 10x lower than lithium-ion batteries.

On February 22, 2024, ARPA-E awardee Antora Energy announced a \$150 million Series B funding round, led by Decarbonization Partners, for their modular thermal batteries. In March 2024, DOE's Office of Clean Energy Deployment announced the department's largest industrial decarbonization investment to date, and Antora is part of a team that is selected to receive up ...

Batteries that store heat can replace fossil fuels for steelmaking and other industrial processes. Antora uses large versions of carbon blocks to store and release heat. By Amrith Ramkumar.

Feb 22 (Reuters) - Thermal battery maker Antora Energy on Thursday said it has raised \$150 million in a funding round led by a tie-up between the world's biggest asset manager BlackRock, opens ...

Thermal battery startup Antora Energy has raised a \$150 million Series B round led by Decarbonization



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Partners, a joint venture between BlackRock and Temasek. Why it matters: The large round adds validation for a new type of energy storage tech that could help companies and utilities better access clean energy and reduce carbon emissions.

Antora plans to use the funds to hire more employees and ramp up manufacturing to deliver its thermal batteries at scale to its customers. Antora's target customers include companies in the ...

Antora Energy's breakthrough in thermal energy storage technology was honored in Fast Company as a World Changing Idea in the Sustainability & Energy category. A panel of Fast Company editors and reporters selected winners and finalists from a pool of more than 2,200 entries.

World's First Thermal Battery Capable of Cost-Effectively Delivering Zero-Carbon Heat and Power . Sunnyvale, CA - Antora Energy, a leader in zero-carbon heat and power for the industrial sector, has launched its proven, ready-to-scale thermal battery. The company revealed that it has reached the highest temperature that has been demonstrated to date for thermal batteries at full scale ...

Antora's Thermal Battery Named One of TIME's Best Inventions 10.24.23 Press -- Reuters 02.22.24 BlackRock, Temasek-led Group Invest \$150M in Thermal Battery Maker Antora 02.22.24 View All Featured Insights Antora Updates 02.22.24 Antora Raises \$150 Million to Slash Industrial Emissions: A Letter from Our Founders ...

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 ...

Antora's batteries store renewable energy as heat, which can then be used to manufacture industrial products like cement or glass. Producing industrial heat accounts for about 20% of all global energy demand, in part because this process relies heavily on fossil fuels to generate the high temperatures needed to make products. Antora hopes its ...

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