

Solar Energy South Africa

French Guiana antora batteries



Overview

What makes Antora a good thermal battery?

Antora's factory-made thermal batteries flexibly scale to match the energy needs of any industrial facility. Carbon is 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.

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.

What is Antora energy?

Antora Energy is unlocking zero-emissions industrial heat and power, cheaper than fossil fuels. Antora's thermal battery uses renewable electricity to heat blocks of solid carbon—a low-cost, earth-abundant, and safe storage medium that's used extensively across industries—to glowing-hot temperatures.

What was Antora's first thermal battery?

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. The battery could supply heat for industries such as cement, lime, glass, food and beverage, chemical, and steel.

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.

How will Antora's batteries impact the energy industry?

Traditionally, fossil fuels have been the cheapest way to power industry, making it the largest greenhouse gas-emitting sector in the country. With Antora's batteries, factories could run on low-cost renewable energy 24/7 without relying on cost-prohibitive, critical material intensive lithium-ion batteries.

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[Antora - Home](#)

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

[23 Amazing Facts About French Guiana](#)

Cultural Melting Pot. French Guiana's history and culture are deeply influenced by a mix of indigenous peoples, African descendants, and European settlers. This blend has created a rich cultural tapestry that is evident in the region's traditions, cuisine, and festivals.. The population is a vibrant mix of ethnic groups, including Creole, Maroons, Amerindians, ...



Daily news on business and economy in French Guiana

SHANGHAI, Aug. 08, 2024 (GLOBE NEWSWIRE) -- ECARX Holdings Inc. (Nasdaq: ECX) ("ECARX" or the "Company"), a global mobility tech provider, today announced unaudited financial results for the quarter ended June 30, 2024. "We delivered another quarter of ...

Antora Energy: Thermal

Batteries Revolutionizing ...

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 ...



Antora Energy raises USD 150m to accelerate thermal batteries

US thermal batteries company Antora Energy has completed a USD 150 million (EUR 138m) Series B funding round led by Decarbonization Partners, a joint venture between US investment giant BlackRock and Singapore's sovereign wealth fund Temasek. Image by Antora Energy on X. Antora said last week the capital will allow it to ramp production of its

Antora Energy: Thermal Batteries Revolutionizing Industrial

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 Energy , arpa-e.energy.gov](https://arpa-e.energy.gov)

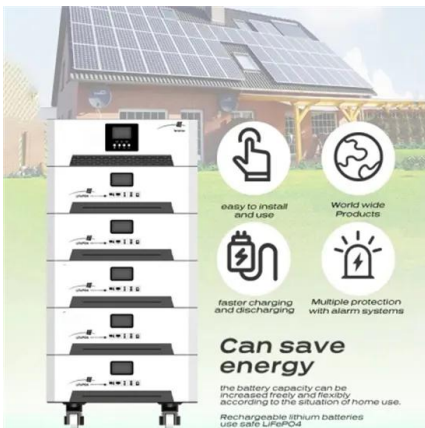
Antora Energy is unlocking zero-emissions



industrial heat and power, cheaper than fossil fuels. Antora's thermal battery uses renewable electricity to heat blocks of solid carbon--a low-cost, earth-abundant, and safe storage medium that's ...

ARPA-E Disruptors: Antora Energy

Antora's thermal battery stores energy in carbon blocks to heat and power industry without emissions. Innovation 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 ...



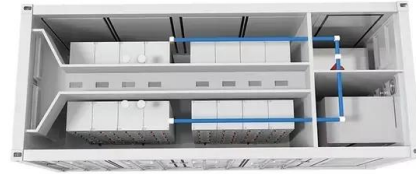
Long-duration storage ready to decarbonise industry

However, even in those instances there are technologies of promise emerging, such as multi-day energy storage through novel battery technologies, while cement or steel producers could still leverage LDES tech to enable round-the-clock renewable energy use and use thermal storage technologies for the lower temperature steps used.

Bill Gates' VC investment firm leads US\$50m injection into thermal

Bill Gates founded Breakthrough Energy Ventures and is its chairman. Image: UK Department for International Development.

Thermal storage startup Antora Energy has raised US\$50 million from a group of investment firms including Bill Gates' Breakthrough Energy Ventures to accelerate the development of its heat-based carbon block energy storage system ...



[Antora - Company](#)

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

[Portuguese conquest of French Guiana](#)

The Portuguese conquest of French Guiana, also known as Conquest of Cayenne (Portuguese: Conquista de Caiena), was a military operation against Cayenne, capital of the South American colony of French Guiana, launched in January 1809 in the context of the Napoleonic Wars. The invasion was undertaken by a combined expeditionary force that included Portuguese (from ...



Daily news on business and economy in French Guiana

French Guiana Business Daily "Think Globally, Les batteries 18650 équipées de matériaux à base de silicium GEN3 continuent de fournir une



capacité de 3 734 mAh après 200 cycles [1], surpassant les batteries haute performance MuRata US18650VTC6 de 25 % par rapport à leur capacité initiale annoncée de 3 000 mAh,

Antora - Solutions

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.



Bill Gates' VC investment firm leads US\$50m injection ...

Bill Gates founded Breakthrough Energy Ventures and is its chairman. Image: UK Department for International Development. Thermal storage startup Antora Energy has raised US\$50 million from a group of investment ...

Antora - Antora Energy Announces U.S. Thermal Battery ...

Factory Marks Significant Milestone for Large-Scale Industrial Decarbonization and Domestic Manufacturing . Sunnyvale, CA - Antora Energy, a leader in zero-carbon heat and power for the industrial sector, has announced its first large-scale thermal battery manufacturing



facility. Located in San Jose, California, the 50,000-square-foot manufacturing facility will be ...



Beyond the Ordinary: A Week in French Guiana

Day-by-Day Itinerary: Explore French Guiana in a Week
 Day 1: Arrival in Cayenne. Where to stay in Cayenne: Hotel Ker Alberte. Grand Hotel Montabo. Mercure Cayenne Royal Amazonia. Hotel Amazonia Cayenne Centre. Hotel des Palmistes. Morning: Cayenne Market: Start your trip by exploring the bustling market in Cayenne. Sample local fruits, spices

MIT alumnus' thermal battery helps industry eliminate ...

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 ...



[Zenobe , Discover Zenobe](#)

The Coventry (UK) site will include onsite battery storage using recycled bus battery cells. Find out more. Case Studies / United Kingdom. Capenhurst 100MW battery: a world first We've built the first battery to have a commercial contract for reactive power in the world. It's the largest transmission connected battery in Europe and will ensure

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