



Antora battery Cook Islands

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.

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.)

Why is Antora building a low-cost thermal battery for grid-scale energy storage?

Antora Energy is building a low-cost thermal battery for grid-scale energy storage to meet the growing need for long-duration storage created by the global transition to renewables. Most chemical battery technologies, such as lithium-ion, can only store enough energy for a few hours of power. Antora's technology, however, can discharge for days.

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 does Antora store energy?

Antora's energy storage technology, now in prototype form, is a "heat battery." It stores energy very cheaply in the form of carbon blocks, which are insulated to retain their high temperatures, up to 2,000 degrees Celsius. A special type of solar cell that can convert heat to electricity is used to draw off the power when needed.

Who is Antora energy?

Antora Energy, founded by David Bierman SM '14, PhD '17, is commercializing a thermal battery that lets manufacturers use renewable energy around the clock.

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.

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



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Drawing inspiration from smelting plants, which already utilize hot rocks to store ten times more energy than all the world's lithium-ion battery storage combined, Antora is innovating by incorporating cavities and insulated ...

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Their battery, a large box about the size of a shipping container, contains glowing hot blocks of carbon, whose heat can then be harvested in the form of electricity or process heat at a later date and sold. This idea, coined "hot rocks in a box", or "sun-in-a-box", has proven revolutionary, despite its relatively basic structure.

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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 actively producing thermal batteries for our first commercial projects.

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