

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.

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.

How does Antora work?

Antora's thermophotovoltaic (TPV) technology converts light from the hot carbon blocks into electricity with no moving parts. This enables output of both electricity and heat at industrial scale. Antora's factory-made thermal batteries flexibly scale to match the energy needs of any industrial facility.

What can Antora do for your business?

They Could Also Help Spell the End of Fossil Fuels. LET'S TALK ABOUT WHAT ANTORA CAN DO FOR YOUR BUSINESS. Electrify industrial operations, predictably and profitably. Antora's American-made thermal batteries convert renewable energy into reliable heat & power.

How can Antora help climate investors?

Giant factories that produce textiles, food, chemicals and cement require massive amounts of energy. Antora is one of several companies developing batteries that can store wind and solar energy. Clean energy is a top priority for climate investors.

How much money has Antora raised?

Antora has raised \$80 million to date. Along with funding from Breakthrough Energy, Antora is also backed by Chris Sacca's Lowercarbon Capital, Shell Ventures, BHP Ventures, Grok Ventures and Trust Ventures. Antora is one of several companies developing batteries that can store wind and solar energy and ship the technology to large factories.

Antora's solution is a solid carbon battery capable of storing large amounts of energy during periods of high renewable output, enabling continuous, reliable energy supply. This has the potential to significantly reduce the heavy industry's emissions, which currently account for around 30% of global emissions.

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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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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 ...

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 ...

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.

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Seeking long-term, scalable alternatives has long been at the forefront for firms, including Antora Energy. The California-based startup aims to solve this problem by employing thermal battery techniques to harness and store energy for ...

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