

## European Solar Energy Storage

# Antora energy storage Cayman Islands



## Overview

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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.

How does Antora store carbon-free energy?

Antora, the iconoclastic Bay Area company, approaches carbon-free energy storage differently from other startups by heating metal blocks to extremely high temperatures instead of tinkering with new or improved batteries, harnessing gravity, or pumping air or water.

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.

How much electricity can Antora store?

Antora's prototypes can store up to 500 kilowatt-hours of electricity. The Series A financing will fund the creation and installation of a 5-megawatt-hour storage prototype, to be deployed at a customer site in Fresno, California.

Is Antora launching a heat-only battery product?

Antora is currently developing major commercial projects for its first heat-only battery product as Antora's combined heat and power battery product moves rapidly towards commercialization.

Does Antora have a partnership with Con Edison?

Antora will partner with Con Edison, the utility that serves New York City and Westchester County, to help meet its ambitious clean heat and power goals for New Yorkers. In addition, Antora has signed a letter of intent with Shell to evaluate potential opportunities to deploy the product in industrial processes such as chemicals production.



A new report by the Long Duration Energy Storage (LDES) Council says that thermal energy storage, or TES, has the potential to expand the overall installed capacity potential of LDES by to 2-8TW by 2040, versus 1-3TW without. This equates to a cumulative investment of US\$1.6-2.5 trillion, and would result in system savings of up to US\$540 billion a year.



## Invest In Antora Energy Stock , Buy Pre-IPO Shares

Antora Energy's Post. linkedin o Oct 03, 2024.  
 Antora Energy's Post. linkedin o Oct 03, 2024.  
 Antora Energy Named as a Best Workplace for Innovators by Fast Company. globenewswire o Sep 10, 2024. Antora Energy Selected by ARPA-E for \$14.5 Million Award to Accelerate Launch of Heat & Power Product. finance o Aug 03, 2024

### [Antora Energy](#)

Information on valuation, funding, cap tables, investors, and executives for Antora Energy. Use the PitchBook Platform to explore the full profile. Request a free trial Log in. Products; Systems for managing thermal energy within a thermal storage solution: Active: 25-Jun-2021: F28D20/0056: To view Antora Energy's complete patent history



## Antora Energy: Thermal Batteries Revolutionizing Industrial

Roughly one-third of global emissions come from the manufacturing sector--more than electricity, agriculture, or transportation. By 2030, industrial facilities



## Antora - Antora Energy Receives Over \$4 Million from California Energy ...

Antora's thermal battery stores renewable energy as heat in blocks of solid carbon, enabling cost-effective energy storage and outputting high-temperature industrial heat and electricity on demand at costs competitive with fossil fuels. Until now, converting stored heat back to electricity has required the use of conventional heat engines



## Antora Insider: A Q&A with Dr. Leah Kuritzky, Head of

Antora Energy turns sunshine and wind into a reliable, on-demand source of zero-carbon heat and power to decarbonize industry and the electric grid. To convert the heat stored in our thermal

## California Grants Over \$4M to Thermal Storage Startup

The funding comes through the Electric Program Investment Charge (EPIC) program and the Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E) through the

Duration Addition to electricity Storage (DAYS) program. Antora's thermal battery stores renewable energy as heat in blocks of solid carbon, which the company says

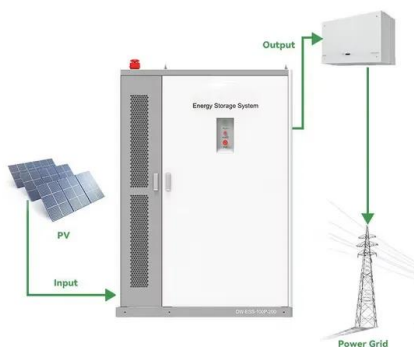


[CX-031653: Antora Energy, Inc.](#)

CX-031653: Antora Energy, Inc. -- Deep Decarbonization Enabled by Scale-Up of Solid-State Heat Engines for Ultra-Low-Cost Thermal Batteries Funding will support the project's research, development, and scaling the pilot production of a combined heat and power (CHP) thermal battery which...

**Antora Energy raises USD 150m to accelerate thermal batteries**

Antora uses renewable electricity to heat blocks of solid carbon to glowing hot temperatures in an insulated module. The stored heat is then delivered at the scale and ...



**Antora Energy Raises \$50M from Lowercarbon and Bill Gates**

Antora's three co-founders came together as Activate Fellows. Today, they are among the country's top energy storage innovators. Images of solar farms and massive turbines evoke hope for the clean energy transition, but they obscure the real work involved in capturing, storing, and

using that energy to power the industries most reliant on fossil fuels today.

## Antora Energy , Details , Darcy Partners

Antora Energy is developing a solid state thermal energy storage device for long duration applications. The company was founded in 2017 based on work funded by ARPA-E and ...



### [Antora - R& D Test Operator](#)

You will join the R& D Test Engineering Team, collaborating with engineers and other technicians to help build, deliver, and maintain Antora's custom R& D test rigs and low-volume production units. This work will directly contribute to the development and commercialization of a first of a kind long-duration energy storage technology.



### [Antora - Solutions](#)

We source the lowest-cost renewable energy for each project, backed by deep expertise in power markets and partnerships with renewable energy operators and electric utilities. 3 Project Financing. With sophisticated capital markets ...

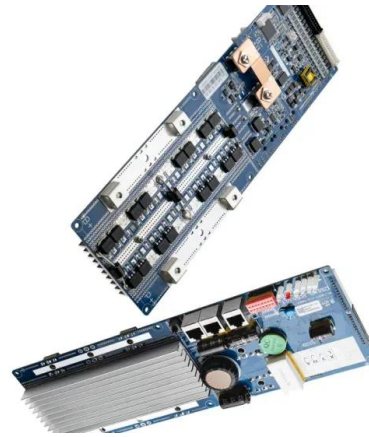


## A super-battery aimed at decarbonizing industry

In this episode, Antora Energy CEO Andrew Ponec talks up his company's game-changing



thermal battery. The company revealed that it has reached the highest temperature that has been demonstrated to ...



114KWh ESS



ISO 9001 ISO 14001 PICC RoHS CE MSDS UN38.3 UK CA IEC

[Antora Energy , arpa-e.energy.gov](http://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, ...

## Antora Energy

Antora Energy is electrifying heavy industry with thermal energy storage for zero-carbon heat and power. Search Crunchbase. Start Free Trial . Chrome Extension. Antora's thermal energy storage soaks up excess solar and wind electricity and uses it to heat blocks of carbon so they glow like inside a toaster. Products and Services.



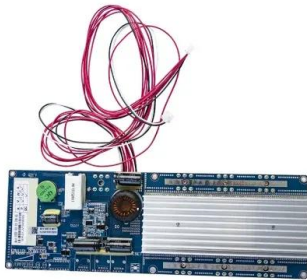
[Antora Energy](http://arpa-e.energy.gov)

Antora is unlocking zero-emissions industrial energy, cheaper than fossil fuels. Antora's thermal batteries store energy from renewables as heat for days on end, delivering that stored energy as



## 16 , Leah Kuritzky, PhD -- Head

Stick around to hear about Antora's recent pilot near Fresno, CA and learn more about Leah's career path from energy efficient lighting (LEDs) to energy storage, guided by a focus on environmental impact, sustainability, and climate change. She has advice for anyone looking to pursue cleantech or make a jump to a new career.

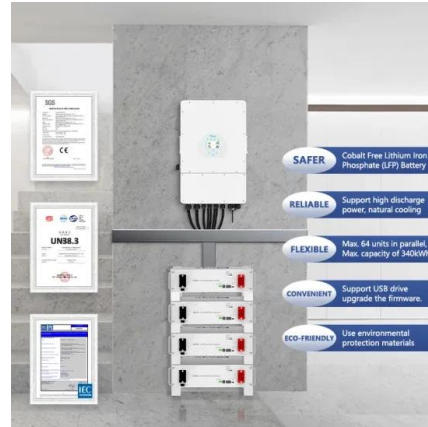


## **Antora - Antora Energy Raises \$150 Million to Slash Industrial**

Antora is unlocking zero-emissions industrial energy, cheaper than fossil fuels. Antora leverages 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 in an insulated module.

## **This startup's energy storage tech is**

Startup Antora Energy knows the power of the light side. The iconoclastic Bay Area company approaches the problem of how to store carbon-free energy very differently ...



## DOE provides \$63.5M for 'transformative' energy ...

Antora Energy, based in Sunnyvale, California, will use its award of \$14.5 million to scale production of its thermal battery technology, "which turns low-cost renewable energy into reliable, on



## White-Hot Blocks as Renewable Energy Storage?

Justin Briggs, Antora's co-founder and Chief Science Officer, says he and his co-founders Andrew Ponec and David Bierman, who launched the company in 2018, considered several energy-storage



## 2MWh deployment for 1000°C+ 'Heat Battery' technology

The company's backers include high-profile climate tech VCs Breakthrough Energy Ventures and Energy Impact Partners. Energy-Storage.news' publisher Solar Media will host the 5th Energy Storage Summit USA, 28-29 March 2023 in Austin, Texas. Featuring a packed programme of panels, presentations and fireside



chats from industry leaders

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Antora Energy's Post. linkedin o Oct 03, 2024.  
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Antora Energy Named as a Best Workplace for  
Innovators by Fast Company. globenewswire o  
Sep 10, 2024. Antora Energy ...



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