Antora energy storage Andorra

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.

What is Antora thermal battery?

Antora's thermal battery turns cheap,clean energyinto 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.

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 storageto meet the growing need for long-duration storagecreated 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 does Antora energy decarbonize heavy industry?

Antora Energy developed a revolutionary way to decarbonize heavy industry using thermal batteriesthat are 3x more energy dense than lithium-ion batteries. Antora's battery stores energy in a stack of commercially available carbon blocks in an insulated box. These blocks are heated until they glow like a toaster.

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 24/7without relying on cost-prohibitive,critical material intensive lithium-ion batteries.

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.

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. Antora Energy Press Mentions. Stay in the know about the latest news on Antora Energy. Meet the startups bringing green thermal batteries to market.

justin@antora.energy Solid State Thermal Battery Antora Energy The Antora Energy team will develop a thermal energy storage system that contains thermal energy in inexpensive carbon blocks. To charge the battery, power from the grid will heat the blocks to temperatures exceeding 2000 °C. To discharge, the

hot blocks are exposed to

The announcement is a big step forward for thermal batteries (also known as heat batteries), an industry seeking to become a major player in the energy storage sector. Antora"s batteries store ...

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 ...

These batteries are revolutionizing the hard-to-decarbonize industrial sector, offering a simple, cost-effective, and eco-friendly alternative to traditional energy storage methods. Antora Energy have found a solution with their innovative thermal battery technology, which harnesses surplus solar and wind power to elevate carbon blocks to ...

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 ...

If successful, Ponec and his start-up Antora Energy could be part of a new, multi-trillion-dollar energy storage sector that simply uses sun or wind to make boxes of rocks hot enough to run the ...

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...

This inexpensive, long-duration energy storage technology will enable global adoption of renewable energy, and thus help eliminate gigatons of CO 2 emissions annually. Antora Energy is electrifying heavy industry with zero ...

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 Energy"s team hopes to provide long-duration energy storage at 5 percent of the cost of conventional batteries. When excess electricity is available--for example, at midday in electric power systems with high solar penetration--their technology uses a resistive element to heat inexpensive carbon blocks contained in a large, insulated ...

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 use of fossil fuels. Above: Antora installs its first commercial-scale unit at an industrial site near Fresno, California.

Andrew Ponec is the co-founder and CEO of Antora Energy, a startup developing thermal energy storage that turns solar and wind into zero-carbon industrial heat and power. Antora Energy is backed by leading investors including Lowercarbon Capital and Breakthrough Energy Ventures. Mr. Ponec previously founded a solar energy company called Dragonfly Systems.

At Antora Energy, we found a solution to this problem. We have developed a thermal energy storage system capable of turning sunshine and wind into reliable heat and power for heavy industry -- cheaper than fossil fuels. A deep ...

Antora believes its carbon-based system could be even cheaper and more useful, because it can store energy at upwards of 2,000 °C (3,632 °F), changing the way the energy can be extracted, both ...

SUNNYVALE, Calif., February 22, 2024--Antora Energy raises a $150 million Series B funding round led by Decarbonization Partners to slash industrial emissions and spur U.S. manufacturing

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