

# High Temperature Energy Storage New Energy Company

**1mwh** (500kw/1mw)

AIR COOLING  
ENERGY STORAGE CONTAINER





## Overview

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Antora Energy is electrifying heavy industry with thermal energy storage for zero-carbon heat and power. EnergyNest offers a truly game changing technology for storing thermal energy on a large scale. Sunamp is a company that provides industrial and residential heat battery storage systems. What is Hyme energy storage?

Hyme is maturing a grid-scale thermal energy storage solution based on molten salts to greatly improve the integration of sustainable energy in the energy system. Electrified Thermal Solutions replace fossil fuels with renewable heat in every furnace, turbine, boiler and kiln to decarbonize industry.

How TES is transforming the energy storage industry?

Companies and governments have realized TES's potential and have started working on its storage facilities. As a result, we have witnessed thermal energy storage facilities in different parts of the world. Europe has seen the most growth in this particular energy storage trend.

What is thermal energy storage system?

The Thermal Energy Storage System, part of the Long-Duration Energy Storage System (LDES), is considered a primary alternative to solar and wind energy. Global Thermal Energy Storage System Market Size during 2020-2030 (\$Billion) Companies and governments have realized TES's potential and have started working on its storage facilities.

What is thermal energy storage system (TESS)?

This technology is used in Thermal Energy Storage Systems (TESS), which provide continuous high-temperature heat or power that is safe, low-cost, long-lasting, and high in capacity. The solid-liquid phase change in the blocks stores significant thermal energy released as they cool and the particles solidify.



Who are Antora energy & EnergyNest?

Antora Energy is electrifying heavy industry with thermal energy storage for zero-carbon heat and power. EnergyNest offers a truly game changing technology for storing thermal energy on a large scale. Sunamp is a company that provides industrial and residential heat battery storage systems.

What is a thermal energy storage tank based on?

HeatVentors developed a thermal energy storage tank based on phase change material technology called HeatTANK. Calctra is a Bay Area-based startup on a mission to electrify the heavy industry - at low cost. Aed Energy is developing transformative longer-duration energy storage technology.



## High Temperature Energy Storage New Energy Company

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### **New applications for ultracapacitors , MIT Energy Initiative**

FastCAP also earned a 2012 DOE Geothermal Technologies Program grant to develop very high-temperature energy storage for geothermal well drilling, where temperatures ...

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### **Comprehensive review of energy storage systems technologies, ...**

The applications of energy storage systems have been reviewed in the last section of this paper including general applications, energy utility applications, renewable energy ...

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### [Heat2Power: a hot new startup that converts stored heat into](#)

A new startup company called Heat2Power (H2P) holds the key for low-cost, efficient generation of energy from stored heat. Its core product, based on thermophotovoltaic ...

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### **Thermal Energy Storage Startup Calectra Raises \$1.6M Pre-seed ...**

Calectra is developing a power-to-heat thermal storage technology to provide manufacturing industries with low-cost, high-temperature (up to 1600°C), emission-free ...



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### **Thermal Energy Storage: The Industrial World's Hottest Batteries**

Industrial firms seeking to switch to renewables to electrify operations must find efficient storage mechanisms that eliminate intermittency issues. Some entrepreneurs are ...

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### [Antora - Antora Energy Launches Ready-to-Scale Industrial](#)

Antora uses renewable electricity to heat blocks of solid carbon--a low-cost, earth-abundant, and stable storage medium that's already used extensively in other industries--to ...

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### [Top 10: Energy Storage Technologies . Energy Magazine](#)

The top energy storage technologies include pumped storage hydroelectricity, lithium-ion batteries, lead-acid batteries and thermal energy storage Electrification, integrating ...

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## Meet the Company Making Ice the Future of Energy Storage: Ice ...

2 days ago · Based in Southern California, Ice Energy is a leading innovator in thermal energy storage technology. The company's flagship product, the Ice Bear, transforms traditional air ...

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## Innovation trends on high-temperature thermal energy storage to

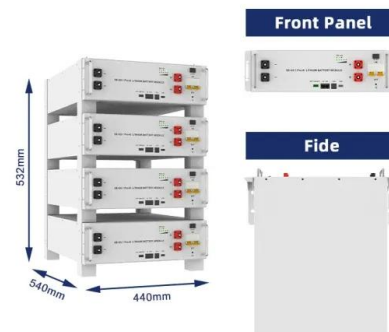
Today, different TES technologies and solutions are commercially available, close to market or under development. These can be divided into three main categories: sensible, ...

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## [Top 20 Thermal Energy Storage startups \(September 2025\)](#)

Hyme is maturing a grid-scale thermal energy storage solution based on molten salts to greatly improve the integration of sustainable energy in the energy system.

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## Worldwide overview of high-temperature energy storage system ...

31 high-temperature energy storage system providers sorted by level of commercialization. The complete data of the company overview can be found in this PDF table.

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## Heat-storing batteries are scaling up to solve one of climate's

Starting next year, Antora's new manufacturing plant will produce modular thermal batteries to help decarbonize heavy industries. Today Antora Energy, a California-based ...

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## [100 Top Energy Storage Companies in United States](#)

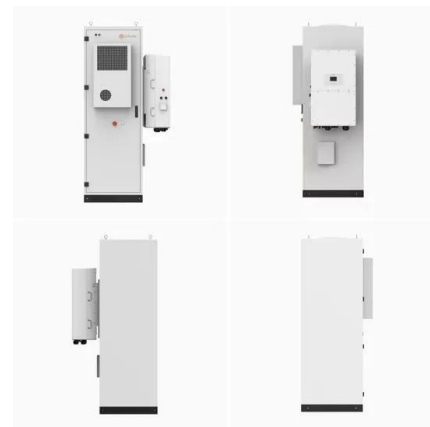
Detailed info and reviews on 100 top Energy Storage companies and startups in United States in 2025. Get the latest updates on their products, jobs, funding, investors, ...

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## Meet the Company Making Ice the Future of Energy Storage: Ice Energy

2 days ago · Based in Southern California, Ice Energy is a leading innovator in thermal energy storage technology. The company's flagship product, the Ice Bear, transforms traditional air ...

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## [High Temperature Heat Storage . SpringerLink](#)

The importance of high temperature thermal energy storage needs hardly any emphasis. The intermittent nature of sun& #8217;s energy, importance to the central receiver solar thermal ...

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## High Temperature Thermal Energy Storage Systems

High-Temperature Thermal Energy Storage (TES) Systems revolutionize climate action by storing excess heat energy for later use in industrial processes or electricity generation. By enhancing ...

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## Exploring High Temperature Energy Storage System Market ...

The global High Temperature Energy Storage System market is expected to reach USD XXX million by 2033, growing at a CAGR of XX% during the forecast period 2023-2033. ...

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## 8 Thermal Energy Storage Companies and Startups

Polar Night Energy (PNE), a Finnish cleantech company, installed a thermal energy storage facility to store clean energy for months using the world's first "sand battery."

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## High-temperature thermochemical energy storage based on ...

This study focuses on thermochemical heat storage, which shows advantages over latent and sensible heat storage, including higher energy storage densities, possible heat storage at ...

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