

# Hot New Energy Storage





## Overview

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Why do we need energy storage solutions?

As the global energy transition accelerates, the need for reliable, scalable and cost-effective energy storage solutions has never been greater.

Was 2024 a good year for energy storage?

For a good overview of the energy storage situation at the end of last year, focused on batteries collected to act at grid scales, read “ 2024 was a fantastic year for energy storage ” (Julian Spector, Canary Media).

Are energy storage technologies making a dent?

The energy storage space is heating up. Here are some of the technologies making a dent. Achieving the Biden administration’s goal of decarbonizing the power sector by 2035 will require a slew of energy storage technologies beyond just lithium-ion batteries, and multiple players are bringing new technology solutions to the market to fill that gap.

What are the different types of thermal energy storage?

Several types of thermal energy storage are being explored. One is “sensible heat storage” – simply heating and cooling some kind of material. For instance, sand batteries in Finland: “ How a sand battery could transform clean energy ” (Erika Benke, BBC) and “ A tiny town is betting on a sand battery to heat homes.

Does MGA have a 'thermo-thermal energy storage' system?

MGA has been fine tuning the material for a decade, and now all that hard work — and all that funding — is paying off. On April 29, MGA announced the operation of its first “Electro-Thermal Energy Storage” demonstration system, aimed at storing renewable energy to deliver industrial-grade steam.

Is MGA the only innovator hammering away at an energy storage solution?



MGA is far from the only innovator hammering away at an energy storage solution for industrial processes. Perhaps now would be a good time for fossil energy stakeholders to start looking over their shoulders. In some respects they are still coasting on the limitations of conventional battery storage.



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3 days ago · There are several key energy technology trends dominating 2025. Security, costs and jobs; decarbonization; China; India; and AI all need to be carefully monitored. The World ...

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Thermal energy storage (TES) captures energy as heat or cold which can be retrieved and used for heating, cooling or generating electricity. Molten salt, for example, can ...



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The energy storage landscape is changing quickly as scientists work to create better and longer-lasting storage solutions. Experts are focused on improving smart grids to ...

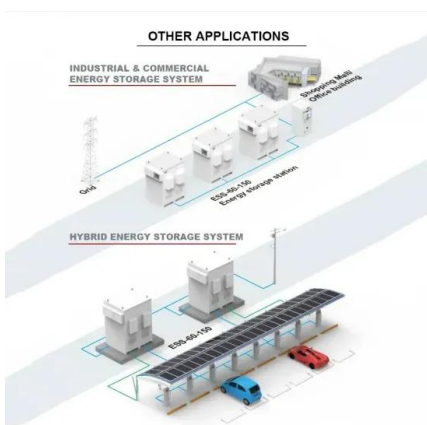
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### **The energy storage space is heating up. Here are some of the**

Utility Dive took a look at four technologies, and spoke to some of the companies spearheading them, to get a better picture of the emerging energy storage landscape.

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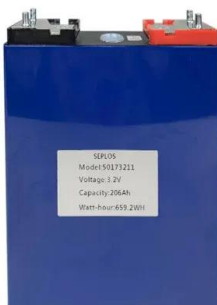




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Fourth Power says its ultra-high temperature "sun in a box" energy storage tech is more than 10X cheaper than lithium-ion batteries, and vastly ...

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Among the emerging solutions is a unique block-type thermal energy storage system developed by the Australian startup MGA Thermal. MGA claims that the system is ...

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