

# New business model of thermal power storage





## Overview

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The need for reliable, cost-effective, utility scale energy storage that is universally applicable across different regions is becoming evident with the global transition towards non-polluting renewable energy resources. While tech giants explore nuclear fusion, thermal storage is ready today and can be deployed in months to provide cost-effective, reliable clean energy. Participants at the World Economic Forum Annual Meeting 2026 will discuss how such innovations can help build prosperity within planetary. Battery systems have so far dominated the energy storage conversation—but Thermal Energy Storage (TES) systems, often overlooked, are rapidly proving indispensable in strengthening grid resilience and ensuring energy security in clean-energy environments. Exhibit A is the US startup Fourth Power, which has just nailed down \$20 million to bring its new thermal energy storage system to market.



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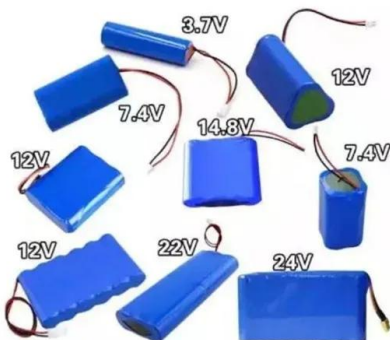


### 5 Thermal Energy Storage Startups to Rise in 2025

Headquartered in Silicon Valley, Fourth Power is pioneering a novel approach to thermal energy storage that can solve the above challenge. Their approach captures and stores excess renewable power as ...

### McKinsey & Company , Sustainability , Energy Storage , Sustainability

Learn how McKinsey's integrated solutions can help you navigate the complexity of energy storage systems and generate business value.



### Defining a business model for utility-scale thermal energy storage

The investigation into the business model, value proposition and economic viability of a utility scale thermal energy storage was part of a program sponsored by the United States ...

### Technology Strategy Assessment

About Storage Innovations 2030 This technology strategy assessment on thermal energy storage, released as part of the Long-Duration Storage Shot, contains the findings from the Storage ...



### Thermal Energy Storage: Grid Resilience Beyond Batteries

Energy markets require more resilient and scalable storage solutions, and with the continuing expansion of solar and wind energy, TES offers a long-duration and cheap flexibility ...



### Electrified thermal energy storage

Electrified thermal energy storage converts electricity into heat for thermal energy use. This Review assesses available and emerging technologies, identifying research needs for scalable, ...



### Thermal Energy Storage Market Trends and Leaders (2024-2032)

Explore the global Thermal Energy Storage (TES) market: trends, drivers, key players, and forecasts from 2024 to 2032 based on recent industry analysis.





## Business Models and Profitability of Energy Storage

Using the framework, we identify 28 distinct business models applicable to modern power systems. We match the identified business models with storage technologies via overlaps in ...



## Thermal energy storage makes the leap to commercial usage

Thermal energy storage can also help transition nuclear energy from its traditional base load power generation to become adaptable to varying power demands. The number of publications ...

## Defining a Business Model for Utility-Scale Thermal ...

The utilization and re-use of infrastructure at existing thermo-electric power plants yielded the most viable business model for the implementation of the form of thermal energy storage



## How thermal storage can satisfy rising global energy demand

Instead of waiting years to access energy resources, data centres and manufacturing facilities can tap into nearby, intermittent electricity, or deploy new clean energy assets in tandem ...



## 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 looking beyond ...



## Energy storage technologies: An integrated survey of developments

Energy Storage Technology is one of the major components of renewable energy integration and decarbonization of world energy systems. It significantly benefits addressing ancillary ...

## Thermal storage power plants - Key for transition to 100 % renewable

Thermal Storage Power Plants (TSPP) that integrate solar- and bioenergy are proposed for that purpose. Finally, in the third phase, renewable power supply can be extended to other ...



## New Energy Storage Technologies Empower Energy Transition

Depending on how energy is stored, storage technologies can be broadly divided into the following three categories: thermal, electrical and hydrogen (ammonia). The electrical category is further divided into ...



## Defining a Business Model for Utility-Scale Thermal Energy ...

Specific focus was placed on the business model based on the market needs in the context of the power grid in the United States. The utilization and re-use of infrastructure at existing thermo-electric power ...



## Thermal Energy Storage Market Size, Trends & Outlook Report 2035

Global thermal energy storage market size in 2026 is estimated to be USD 7.53 billion, with projections to grow to USD 17.92 billion by 2035 at a CAGR of 10.11%.

## Business models in energy storage

With a changing role for storage in the energy system, new business opportunities for energy storage will arise and players are preparing to seize these new business opportunities. Energy storage ...



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