

# The market of solar phase change energy storage



## Overview

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According to our latest research, the global Thermal Energy Storage Phase Change Module market size reached USD 1.48 billion in 2024 and is poised to grow at a CAGR of 13%. The efficient utilization of solar energy technology is significantly enhanced by the application of energy storage, which plays an essential role. A 4% CAGR growth trajectory makes it one of the fastest-growing segments. Growing demand for energy-efficient solutions is driving the market. Global solar growth is flattening in major markets as oversupply from China and India drives prices down and shifts competition from sheer volume to execution, policy alignment, and system integration.

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### [Solar Phase Change Energy Storage: Market Trends, Key Players.](#)

Global investments in solar phase change energy storage systems hit \$4.89 billion in 2024, with projections soaring to \$17.64 billion by 2031 . This 20.4% CAGR growth trajectory makes it one of

### **Thermal Energy Storage Phase Change Module Market**

According to our latest research, the global Thermal Energy Storage Phase Change Module market size reached USD 1.48 billion in 2024 and is poised to grow at a CAGR of 13.2% from 2025 to 2033. By



### **Energy Report**

The business case for storage will be built around the capacity market and energy arbitrage, including through a new dedicated platform launched by Terna where storage owners will be able to sell 'time

### [Phase change materials in solar energy storage: Recent progress](#)

This paper addresses the limitations of traditional thermal energy storage systems and explores the advancements in PCM integration within various solar energy systems.



### [Recent Advances, Development, and Impact of](#)



### **Phase Change Materials Market Size & Share 2025 - 2034**

The market size for phase change materials is expected to reach USD 7.9 billion by 2034, fueled by growing demand for energy-efficient products and sustainable infrastructure



### [Research Progress in the Thermal Energy Storage of Phase Change](#)

In this paper, we have overviewed the research conducted to date on phase change materials (PCMs) for photothermal power collection and storage, especially their applications as



### [Using Phase Change](#)

This paper briefly reviews recently published studies between 2016 and 2023 that utilized phase change materials as thermal energy storage in different solar energy systems by collecting



### [Global solar enters period of adjustment, as market conditions](#)

Across the U.S., Europe, and China, energy storage is becoming essential for project viability, making PV-plus-storage and strong EPC partnerships the new basis for winning projects in



### [Solar Thermal Phase-Change Storage Market Research Report 2033](#)

The solar thermal phase-change storage market is segmented by technology into sensible heat storage, latent heat storage, and thermochemical storage, each offering distinct advantages and applications.

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