

Companies in the phase change energy storage industry





Overview

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As industries transition toward sustainable temperature control solutions, PCMs are emerging as a game-changer for latent heat storage applications. In this blog, we profile the Top 10 Companies in the Phase Change Material Industry —innovators driving material science advancements across organic.

Embark on a journey into cutting-edge thermal solutions with the top advanced phase change materials (PCM) companies. These industry leaders are revolutionizing temperature management through innovative PCM technologies. Specializing in materials that undergo phase transitions to store and release.

In this week's Top 10, Energy Digital takes a deep dive into energy storage and profile the world's leading companies in this space who are leading the charge towards a more sustainable energy future. 10. Vivint Solar Acquired by Sunrun in 2020 for US\$3.2bn, Vivint Solar entered the home energy.

BioPCM ® for a broad spectrum of industries Phase Change Solutions is a global leader in temperature control and energy-efficient solutions, using phase change materials that stabilize temperatures across a wide range of applications. Customers across transportation of perishables and.

According to the International Energy Agency (IEA), to meet the increasing global energy demand, storage capacity must expand to 1,500 gigawatts (GW) by 2030. It also projects that 90% of this should come from batteries alone. However, current trends in the energy storage industry are creating a.

The global energy storage industry is entering a phase where expectations no



longer hinge on novelty, but on delivery. Battery energy storage systems (BESS), once seen as promising add-ons to renewables, are now considered essential grid infrastructure—tested during blackouts, storms, and surging. Who is phase change materials products?

Phase Change Materials Products Ltd. (UK) Phase Change Materials Products is a specialized manufacturer of PCMs for various applications. The company offers a wide range of PCM formulations, including organic, inorganic, and bio-based PCMs.

Who is phase change solutions?

Phase Change Solutions is awarded as a 2020 BNEF Pioneer from BloombergNEF, one of ten game-changing companies recognized for their leadership in transformative technologies. Phase Change Solutions (“PCS”) is a global leader in the development of temperature control and energy-efficiency solutions utilizing phase change materials (“PCMs”).

Why is Panasonic a leading energy storage company?

Thanks to a wide and varied portfolio of solutions, Panasonic has positioned itself as one of the leaders in the energy storage vicinity. Panasonic is one of the industry’s top names due to its advances in innovative battery technology alongside strategic partnerships and extensive experience in manufacturing high-quality products.

How are EPCs and developers changing the supply chain?

EPCs and developers are choosing flexibility in procurement and control logic, allowing assets to adapt to the market rules and revenue models. The rise of US-based supply chains is another growing trend. Storage developers are moving procurement away from vulnerable overseas pipelines to domestic battery management and integration ecosystems.

Is Tesla Energy a good energy storage company?

Tesla Energy’s energy storage business has never been better. Despite only launching its energy storage arm in 2015, as of 2023 the company had an output of 14.7GWh in battery energy storage systems. Its portfolio includes storage products like the Powerwall and the Megapack.

What is Johnson Controls battery storage & energy solutions?



6. Johnson Controls Battery storage and energy solutions systems from Johnson Controls allow for seamless integration with existing building technology systems. These utilise algorithms that provide for flexible and custom applications, the company says, such as demand management, frequency regulation and integration with renewables.



Companies in the phase change energy storage industry



Phase change materials for thermal energy storage in industrial

Thermal energy storage (TES) with phase change materials (PCM) was applied as useful engineering solution to reduce the gap between energy supply and energy demand in ...

[Top 10 Energy Storage Companies to Watch in 2025](#)

This article discusses 10 energy storage companies that are working on emerging solutions to support global energy needs. Find out more about innovations, ...



Application and research progress of phase change energy storage ...

The advantages and disadvantages of phase change materials are compared and analyzed. Summary of the application of phase change storage in photovoltaic, light heat, ...

Top Phase Change Energy Storage Brands Revolutionizing ...

Let's face it - storing energy efficiently has always been the holy grail of renewable tech. Enter phase change energy storage (PCES)



brands, the unsung heroes quietly transforming how we ...

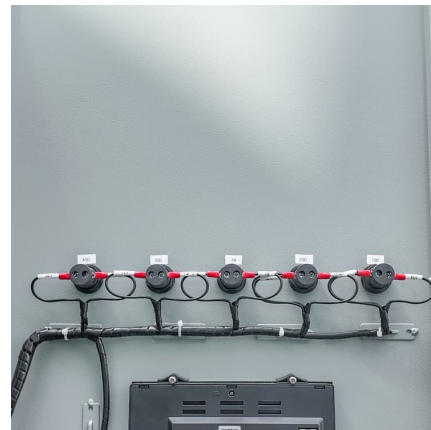


[Thermal Energy Storage Systems Market Size, 2025 ...](#)

The thermal energy storage systems market size crossed USD 54.4 billion in 2024 and is estimated to grow at a CAGR of 5.6% from 2025 to 2034, on ...

[2020 Energy Storage Industry Summary: A New ...](#)

Despite the effect of COVID-19 on the energy storage industry in 2020, internal industry drivers, external policies, carbon neutralization goals, ...



[Phase Change Green Energy Storage Company](#)

Application of bio-based phase change materials for effective heat Using thermal energy storage integrated with renewable energy sources, especially solar energy, is a popular ...

A review on phase change energy storage: materials and applications

This paper reviews previous work on latent heat storage and provides an insight to recent efforts to develop new classes of phase change materials (PCMs) for use in energy ...



Phase Change Energy Solutions - Strategic Position & Company ...

About Phase Change Energy Solutions With concerns for the environment and aspirations to create an energy-efficient future, Phase Change Energy Solutions (PCES) was formed in 2011 ...



Analysis of China's energy storage industry under the dual ...

As a key development area of the National "2025" plan and the "13th Five-Year plan" strategic plan, the energy storage industry has great potential for the future.



Phase Change Materials Market Size, Share, Analysis, Growth, ...

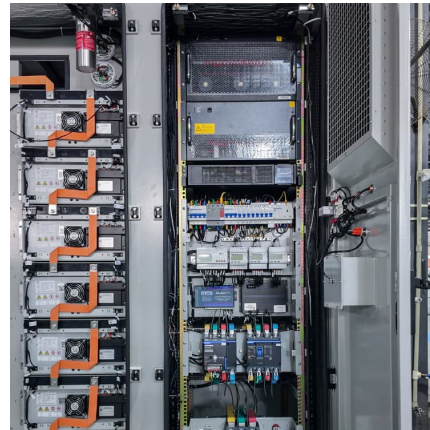
Phase Change Materials Market By Type (Organic PCM, Inorganic PCM, and Bio-Based PCM), By Form (Encapsulated and Non-Encapsulated), By Application (Building & Construction, ...





[Thermal Energy Storage 2024-2034: Technologies, ...](#)

25% of global energy pollution comes from industrial heat production. However, emerging thermal energy storage (TES) technologies, using low-cost and ...



18 Leading Advanced Phase Change Materials Companies ...

As competitive analysis demonstrates, these leading advanced phase change materials companies are propelling the industry with innovation, sustainable chemistry, and specialized ...

[Phase change energy storage companies](#)

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[Phase change energy storage material companies](#)

Phase Change Solutions is a global leader in temperature control and energy-efficient solutions, using phase change materials that stabilize temperatures across a wide range of applications. ...



18 Leading Advanced Phase Change Materials Companies ...

Phase Change Energy Solutions pioneers building-integrated and modular PCM panels using plant-based materials. Their scalable, eco-friendly offerings align with global energy efficiency ...



BoTemp

BoTemp develops, produces, and maintains cold storage and refrigeration systems for the transport and container industry. The company's technology centers on thermal energy storage ...

China's energy storage industry: Develop status, existing problems ...

For this reason, this paper will concentrate on China's energy storage industry. First, it summarizes the developing status of energy storage industry in China. Then, this paper ...



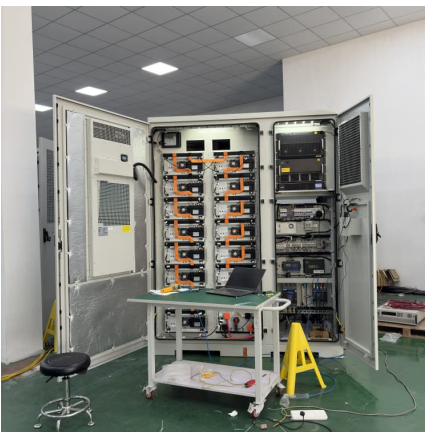


Energy Storage Market Size, Growth, Share & Industry Trends

The Energy Storage Market is expected to reach USD 295 billion in 2025 and grow at a CAGR of 9.53% to reach USD 465 billion by 2030. Contemporary Amperex ...

Phase change energy storage companies

Phase change materials (PCMs) are such a series of materials that exhibit excellent energy storage capacity and are able to store/release large amounts of latent heat at near-constant ...



Phase Change Material Market Size, Share & Industry Forecast ...

6 ???· The global phase change material market size surpassed USD 1.38 billion in 2025 and is projected to grow at a CAGR of around 18.5%, reaching USD 7.53 billion revenue by 2035, ...

Cold Storage Phase Change Materials Market: Sales Volume, ...

On Sep 15, Global Info Research released "Global Cold Storage Phase Change Materials Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031". This report includes ...



Phase change materials for thermal energy storage in ...

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