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A key benefit of using phase change materials for thermal energy storage is that this technique, based on latent heat, both provides a greater density of energy storage and a smaller ...

A state-of-the-art review of the application of phase change materials (PCM) in mobilized-thermal energy storage (M-TES) for recovering low-temperature industrial waste ...

In particular, the implementation of latent heat thermal energy storage (LHTES) technology in industrial thermal processes has shown promising results, significantly reducing ...

An overview is provided of the features to use certain waste streams from industry and agriculture as phase change materials (PCMs) for thermal energy storage (TES) ...

Phase change energy storage (PCES) systems leverage the characteristics of specific materials known as phase change materials (PCMs), which undergo phase ...

Phase Change Material (PCM): A substance capable of storing and releasing thermal energy during a phase transition, typically from solid to liquid and vice versa. Thermal Energy Storage...

Recent advancements in PCESMs have opened up opportunities for their extensive use in many industries, providing inventive solutions for effective energy storage, ...

This study reports the results of the screening process done to identify viable phase change materials (PCMs) to be integrated in applications in two different temperature ranges: ...

Energy storage can add significant value to the industrial sector by increasing energy efficiency and decreasing greenhouse gas emissions (Mitali, Dhinakaran, and Mohamad 2022; Kabeyi ...

The review aims to direct future research directions and foster sustainable, efficient energy storage technologies for contemporary energy management and conservation.

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