

# Current status of solar thermal energy storage research in the world

This review analyses 925 STES research articles considering latent heat storage and solar collectors published between 1975 and 2023 in the Web of Science, Scopus, and Dimensions databases using ...

This review provides a comprehensive analysis of current heat storage technologies and their potential deployment in Switzerland, focusing on three primary types: sensible heat storage, ...

The objective of this review paper is to explore significant research contributions that focus on practical applications and scientific aspects of thermal energy storage materials and...

Now, analysis of the efficiency and costs of a large-scale interfacial desalination system operating outdoors over nearly four months suggests that scale-up is associated with high capital...

The objective of this review paper is to assess the progress of solar thermal energy technology in India compared to world and its potential to accomplish the clean energy goals.

This review highlights the latest advancements in thermal energy storage systems for renewable energy, examining key technological breakthroughs in phase change materials (PCMs), ...

His current research is focused on molecular solar thermal energy storage development, including design, synthesis, characterization and building of photoswitchable molecule-based devices for solar ...

This review has provided a roadmap toward the advancements of thermal energy storage technologies by synthesizing fragmented research into actionable recommendations toward material ...

This review aims to synthesize current knowledge while identifying pathways for accelerating the development and practical deployment of next-generation TES technologies.

As the world shifts toward renewable energy, one major challenge remains: efficient energy storage. An EU-funded research team is exploring the use of compressed air to store excess ...

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