

This study evaluates the effectiveness of phase change materials (PCMs) inside a storage tank of warm water for solar water heating (SWH) system through the theoretical simulation ...

This study evaluates the proposal of a concrete storage tank as molten salt container, for concentrating solar power applications. A characterization of the thermal and mechanical ...

The study explained that solar energy storage is done through the storage of latent or sensible heat energy. The researchers reviewed the optimal properties of PCM materials that ...

In this numerical study, the thermal performance of the latent heat storage system was simulated, and a new design of three tanks with different numbers of annular fins (10, 20 and 29 fins) ...

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Kanimozhi et al. [29] employed PCM-filled copper tubes to enhance the thermal performance of a solar TES-based tank compared with a regular water storage tank. The results ...

Thermal energy storage (TES) is an efficient solution for improving the dispatchability of Concentrated Solar Power (CSP) plants. A system, consisting of two tanks with Solar Salt ( $\text{NaNO}_3$  ...

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Abstract Thermal energy storage (TES) is an efficient solution for improving the dispatchability of Concentrated Solar Power (CSP) plants. A system, consisting of two tanks with Solar Salt ( $\text{NaNO}_3$  ...

Phase change Materials (PCMs) available in various temperature range have proved efficient in solar thermal energy storage situations. Incorporating PCMs in solar applications resulted ...

