

In many parts of the world, direct solar radiation is considered to be one of the most prospective sources of energy. Among the different energy end uses, energy for cooking ...

This research explores the integration of an enhanced thermal energy storage composite graphene-paraffin phase change material (PCM) into an IoT-enabled box-type solar cooker.

Classification of thermal energy storage medium along with a discussion on sensible heat storage mediums and latent heat storage mediums is also presented. The ...

The present work aims to design, optimize, fabricate, and test different geometries of thermal energy storage (TES) units for solar cooker (SC) using paraffin wax as ...

Solar cooking technology requires a method for advancement to improve its efficiency, cost, and practicality. The objective of this paper is to give a comprehensive literature evaluation of the ...

Solar cooker with PDC was studied by Senthil 30 using paraffin wax as an energy storage medium. Heating time for water was reduced to 90 min compared to 120 min ...

Many researchers have been interested in solar energy as an unlimited energy resource over the last few decades due to its vast range of applications, including household ...

The performance of paraffin wax as phase change material (PCM) for thermal energy storage (TES) was investigated using a Solar Box Cooker (SBC) exposed to Maiduguri weather condition.

To address this issue, thermal storage is added to the system to provide heat during off-peak hours which is well addressed in earlier literature. This paper tries to make an ...

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Thermal energy storage helps in overcoming the fluctuations in the supply of energy required for cooking during different time periods of the day. This study focuses on the ...

To promote solar cooking, a cooking pot integrated with energy storage is developed and studied. It features a

concentric cylindrical arrangement, with the inner cylinder ...

The objective was to examine the performance of the solar still with used cooking oil and paraffin wax (SSUCO) and compare it with a conventional solar still (CSS) ...

Integrating solar cookers with thermal energy storage (TES) makes cooking during off-sunshine periods possible. This paper presents a comprehensive review of parabolic solar cookers with ...

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