

The capacity of the designed cold storage is small and initially it is designed for 10 t capacity. The paper includes design aspects of the developed smart solar-powered cold storage as ...

Sustainable water by solar desalination. Desalination used to be an expensive process which relies heavily on fossil energy. Small-scale desalination solutions ranging from 4-100 m<sup>3</sup>/day were ...

The main aim is to design autonomous small-scale power systems and evaluate their life cycle environmental sustainability depending on the system configuration in terms of technology ...

Abstract Small-scale liquefied natural gas (SSLNG) carrier has drawn an increasing investment attention because of its flexible carrier capacity. However, the cargo loss and cold energy ...

Celador et al. [18] described a methodology to select the different design parameters for thermal storage systems to decrease the system cost. It is understandable that a small-scale solar ...

This paper presents the design and modeling of a small and mobile solar concentrator. The concentrator uses a compact heliostat field of 2 m × 5 m in size, allowing it to be towed on public roads in a utility ...

The present work is aimed to design an effective small capacity storage tank at low cost. Two storage tanks are designed for this purpose, and a thermal performance study is conducted ...

Highlights o A systematic approach for the design of small-scale solar desalination was presented. o Two different configurations of humidification-dehumidification and solar still desalination ...

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# Design of small-scale solar container solution

In this paper a design of small-scale cold storage for perishables which is capable of saving the perishables of the small farmers on a personal basis. The energy source for cold storage is supplied ...



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