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Title: New design of solar constant temperature system

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As the pursuit of lower LCOE intensifies for concentrated solar power (CSP) plants, the need for exploring new technologies becomes more pressing. This study focuses on the design of two key ...

This paper introduces a new solar constant temperature biogas production system. Aiming at the influence of environmental temperature change on biogas productio.

Here, we have designed a new type of heat exchanger for solar PV and thermal (PVT) hybrid systems and have studied the performance of the system. The PVT system has been ...

The impact of the outdoor environment and regional applicability on the performance of collector components and systems are analyzed, and the technical, environmental, and market ...

To overcome the shortcomings of the existing systems, this paper proposes a focused solar heating system containing phase change thermal storage.

This work is implemented at the framework of the InnoSolPower EU CSP ERANET project, which aims at designing and demonstrating a novel, low temperature heat storage system especially for ...

In order to ensure the annual gas demand of farmers in North China and explore the gas characteristics in the household biogas digester with constant temperature, the 3 m³ solar constant...

To overcome this issue, in this research new design for a high temperature solar receiver combined with a triple (sensible, latent, and chemical) storage was presented.

The advantages of the two tanks solar systems are: cold and heat storage materials are stored separately; low-risk approach; possibility to raise the solar field output temperature to 450/500 ...

Experimental validation of a solar system based on hybrid photovoltaic-thermal collectors and a reversible heat pump for the energy provision in non-residential buildings

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