Norwegian high temperature solar system design

This paper proposed a design scheme and an optimization method for a high-temperature solar receiver operating with a Stirling engine. The designed cylindrical cavity receiver with insulation consists of an ...

A novel design of hybrid high-temperature solar receiver and Small-scale concentrated solar powers (CSP) integrated with micro gas turbines can be mentioned as an effective way to power off-grid and rural areas.

This work focuses on the use of CFD to analyze fluid mechanics and heat transfer properties in the design and thermal characterization of a solar receiver which can reach high temperatures suitable for ...

Distributed temperature sensing measurements from high temperature borehole thermal energy storage (HT-BTES) are presented. Thermal losses from HT-BTES are found as function of loss mechanism ...

This paper investigates the potential role of solar photovoltaic (PV) in a Norwegian future energy system, focusing on the trade-offs between land use and increased RES integration.

In this study HT-BTES is evaluated for seasonal thermal heat storage and recovery. To this end, a CMG STARS model was built and validated using the existing 100-wells BTES system in Norway. Then,...

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.

strategies to support stakeholders, experts, or public authorities for successfully implementation and integration of solar energy systems in high-sensitive built environments in the future.

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Can high temperature borehole thermal energy storage help green cities?High temperature borehole thermal energy storages (HT-BTESs) have a huge potential in enabling green cities by storing and supplying a large ...

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