High temperature trough solar integrated system

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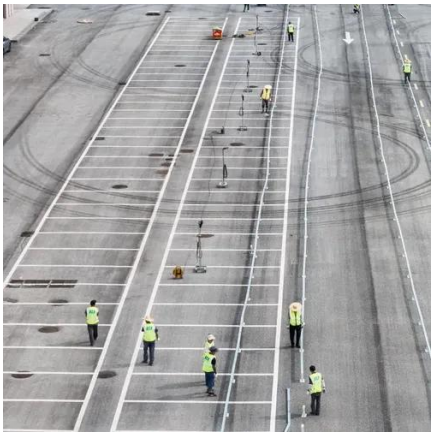
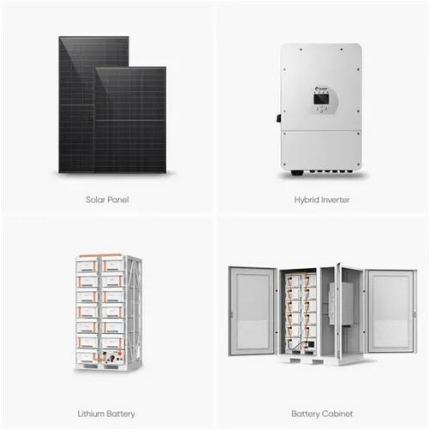


Energy, exergy, economic and environmental (4E) evaluation of a solar

This paper proposes a solar-integrated energy system at medium-high temperature (i.e., working temperature >300 °C) for power generation, desalination, and sodium hydroxide (NaOH) ...

Thermodynamic Analysis and Performance Assessment of a Novel Solar

This study offers a comprehensive assessment of the thermodynamic performance of a novel solar-based multigeneration system, which caters to the energy needs of a ...



[High-temperature two-layer integrated receiver storage for]

Here a two-layer integrated receiver storage (TLIRS) system design is proposed consisting of a cavity receiver and a two-layer packed-bed storage. The first layer is a porous ...

Energy, exergy, economic and environmental (4E) evaluation of a solar

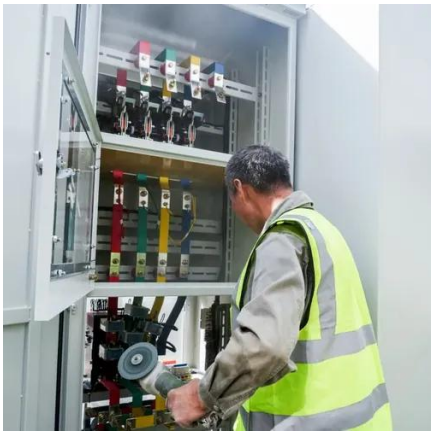
This paper presents a comprehensive analysis of this medium-high temperature solar-integrated energy system in terms of energy, exergy, economics, and environment.

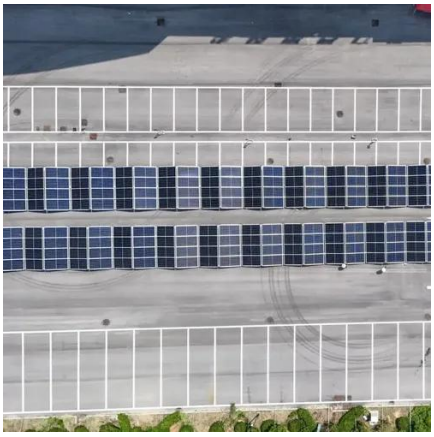
[Integration of Concentrating Solar Power with High ...]

Figure 3 illustrates a flow diagram of the simulated CSP and high temperature electrolysis (CSP-HTE) process, including key components of the CSP system, O-SOEC subsystem, heat ...

[Life Cycle Assessment (LCA) of High-Temperature Solar Thermal]

Abstract Solar energy technologies are central to global efforts toward the creation of a low-carbon energy system in the economy. This paper provides a life cycle assessment ...





Energy, exergy, economic and environmental (4E) evaluation of a ...

This paper presents a comprehensive analysis of this medium-high temperature solar-integrated energy system in terms of energy, exergy, economics, and environment.

Comparative analysis of a novel geothermal and nanofluid-based solar

In this comparative study, the thermodynamic and economic investigation of an integrated system driven by a parabolic trough collector and geothermal water is carried out.

Process Integration and Optimization of the Integrated Energy System

Based on the principles of cascaded energy utilization, this paper improves the coupling methodology of an integrated solar thermal and coal-fired power generation system ...

Research on the thermal characteristics of the solar-gas ...

In accordance with the principle of "energy matching and cascade utilization," this paper innovatively proposes an operational scheme for a combined solar-gas turbine cycle ...

Proceedings of

In this work, a novel PTC system integrated with solar photovoltaics (PTC-PV) is proposed. The PV panels have a narrow width which is the same as the diameter of the parabolic trough ...

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