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Title: Solar Cycle System Pressure Design

Generated on: 2026-08-08 20:20:09

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The proposed integrated system, which harnesses solar energy and LNG through a novel combination of dual-pressure Kalina and organic Rankine cycles, emerges as a pivotal ...

A solar combined cycle equipped with a triple-pressure Rankine Cycle and PTC collectors was analysed by Manente (Manente et al., 2016). Here, a detailed off-design model ...

Regarding the heat collection choice of bottom cycle, the optimal photoelectric efficiency model prefers the high-pressure boiler (HPB), while the optimal system efficiency ...

Concentrating Solar Power (CSP) Models SAM includes models for the following kinds of CSP systems: Parabolic trough, molten salt and direct steam power towers, molten salt and direct ...

Compared with a single solar electricity generation system, the integrated system not only reduces the adverse effects of solar energy volatility and instability on the system, but ...

Among the numerous solutions, the integrated solar combined cycle (ISCC) system is one of the most effective solutions, which is based on the gas turbine combined ...

Integrating conventional power plants with concentrated solar power may facilitate the transition towards a more sustainable power production. In this paper, a novel natural gas-fired ...

The present study aims to develop a novel design of an integrated energy system that synergistically integrates an open-loop Brayton cycle and a closed-loop Rankine cycle ...

Integrating conventional power plants with concentrated solar power may facilitate the transition towards a more sustainable power production. In ...

In this work, the combined effects of design condition, and distributions of ambient temperature and power demand on the cycle operating performance are analyzed, and the off ...

In order to improve the solar power plant performance, four combinations of combined cycles have been investigated in this work to gather solar heat from the SPT ...

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