

This paper introduces the operating principles and system structure of solar thermal power generation technology, summarizes the advantages and disadvantages of various power generation technologies, and ...

This review paper systematically examines the current state of the art in the field of solar thermal power, especially concentric solar power (CSP), focusing on performance analysis and...

A unified model of a solar electric generation system (SEGS) is developed using a thermo-hydrodynamic model of a direct steam collector combined with a model of a traditional steam power house.

In the paper, the developed SAPG model has been used to study the energy and economic benefits of the SAPG with 200 and 300 MW typical, 600 MW subcritical, 600 MW supercritical, and 600 and ...

In this paper the option of the establishment of solar thermal power station based on Stirling dish (SD) technology is evaluated to alleviate the energy system of the island.

Semantic Scholar extracted view of "Thermodynamic performance evaluation of solar and other thermal power generation systems: A review" by M.K. Gupta et al.

Various heat transfer methods merged with solar thermal energy storage systems are examined and evaluated to achieve high accuracy and reliability for predicting the performance of solar thermal energy ...

The aim of the paper is to summarize overall research work being carried out worldwide on the thermodynamic performance evaluation of solar and other thermal power generation systems using different thermodynamic ...

This paper mainly analyzes the three stages of materials, production and transportation of two kinds of solar thermal power generation, calculates the unit energy consumption and environmental impact of the three ...

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