Title: Chilean solar System Model
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high solar potential in the Atacama Desert, where most of the mining operations are located. This industry is intensive in electricity and water consumption; therefore, there is an ideal market opportunity.

In our work we show the results of the development of these three steps for the CSP power tower potential estimation in Chile. The work starts by the review of some existing solar radiation data and ...

The present paper presents a very simple energy yield model fitted using the annual DNI and the latitude as main inputs, considering a solar tower CSP plant, with 100 MW of net energy output and 6 ...

This model is associated with a multiobjective optimization process using the NSGA-II algorithm, focusing on optimizing the solar collector area and storage volume to maximize solar ...

A simple global solar radiation model was developed for the Central Zone of Chile, being fully integrated within a geographic information system (Idrisi) and based on a digital elevation model (DEM).

Chile"s daily power generation usually exceeds its consumption, but insufficient energy storage leads to serious waste of solar energy. Therefore, when configuring residential and ...

We present in this paper a public on-line, validated database of the solar energy resource for the entire Chilean territory (excluding Antarctic territories), calculated with a radiative...

In Chile, the solar thermal regulation DS331, which utilizes a global modeling approach, governs the deployment of solar thermal systems (STSs) across highly variable climatic zones.

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