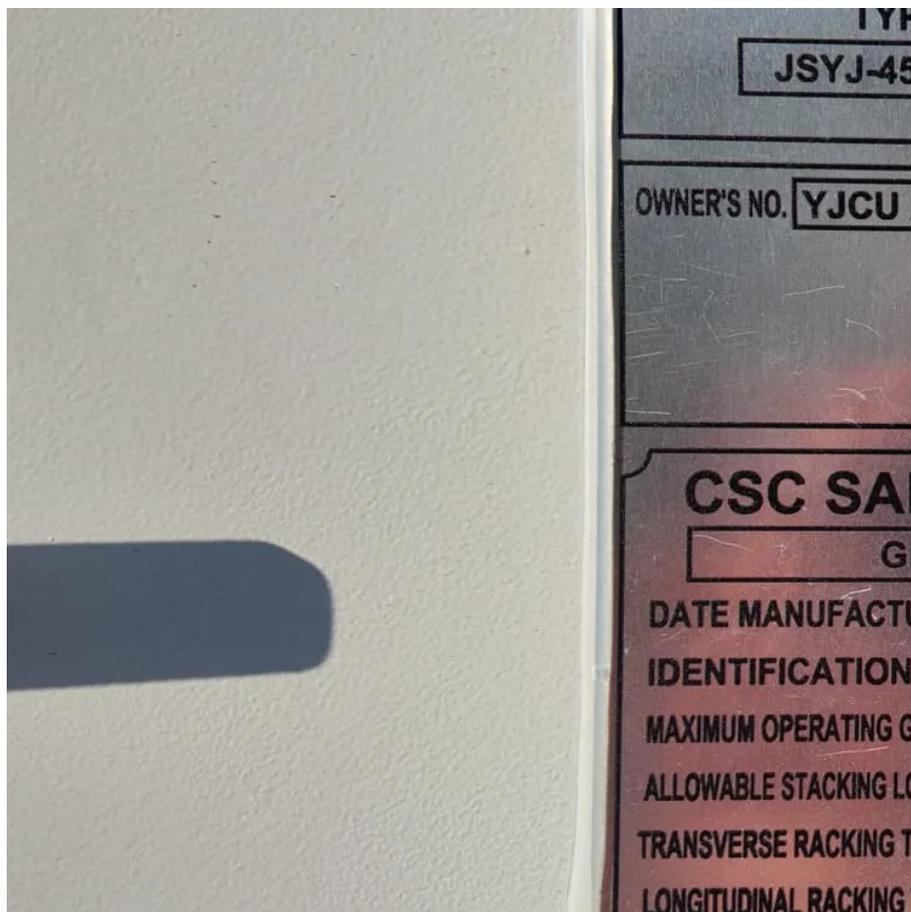


# Zagreb High Temperature Solar System Design





## Overview

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What is a high temperature solar power plant?

The operating temperature reached using this concentration technique is above 500 degrees Celsius —this amount of energy heat transfer fluid to produce steam using heat exchangers. The energy source in a high-temperature solar power plant is solar radiation. Meanwhile, a conventional thermal power plant uses fossil fuels such as coal or gas.

What is thermal analysis of high-temperature solar thermal systems?

Thermal analyses of high-temperature solar thermal systems typically combine aspects of conduction, convection and radiation heat transfer modes. The systems rely on heat transfer media selected to match the operating temperature and heat flux ranges for specific applications. Such media serve a multi-purpose role.

What are high-temperature solar thermal fluidised-bed reactors used for?

High-temperature solar thermal fluidised-bed reactors have been applied to various applications for energy storage, fuel production and CO<sub>2</sub> capture. Flamant and co-workers conducted on-sun tests for fluidised bed with high particle-phase volume fraction by dynamic control of the particle flow rate and gas velocity .

How can solar irradiation improve thermal reduction of ZnO?

The direct exposure to concentrated solar irradiation and the addition of water vapour were found beneficial for augmenting the reaction and the heat transfer rates. A beam-down, gravity-fed, solar particle reactor (Fig. 14 a) was developed for the thermal reduction of ZnO .



## Zagreb High Temperature Solar System Design

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