

Solar thermal power station molten salt pump

Molten salt pumps are specifically designed to handle the unique challenges associated with pumping molten salts. Molten salts are typically used as heat transfer fluids in high-temperature applications, ...

Molten salt circulation pumps circulate the primary heat transfer fluid (molten salt) through the solar receiver to heat it up and to either feed the solar steam generator, store the energy during the high ...

This study proposes and evaluates the coordinated control strategy (CCS) to improve the peak shaving performance of molten salt solar tower power (STP) plants.

A major concentrated solar power (CSP) project in China selected Sulzer, a global fluid engineering company, to supply both the hot and the cold molten salts pumps for the installation.

At present, the two-tank molten salt storage is the only commercially available concept for large thermal capacities being suitable for solar thermal power plants.

During the day, molten salt from the cold tank is pumped to the central receiver. As it circulates, concentrated sunlight heats the salt to around 565°C (1,049°F). This superheated salt ...

The VEY and VNY are vertical mixed-flow molten salt pumps with high capacity and medium to high head. Its design includes hydraulics from proven ranges.

Phase I of this project is the evaluation of molten salt pump parameters for a solar power plant, conceptual design of the pump itself, and cost projections for Phase II and Phase III.

The objective of this project is to design, build and test a long-shafted, molten salt pump. This is the type of pump necessary for a molten salt thermal storage system in a commercial-scale ...

The component research is not limited to the molten salt tank systems but also focuses on power components and other components in the molten salt loop (e.g., pumps, valves, in-strumentation), as ...

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