Solar thermal power generation molten salt pump

Premier Resource Management (Bakersfield, CA), in partnership with the National Renewable Energy Laboratory, will develop a 100-kWe demonstration power plant with more than 12 ...

These pumps have been engineered to balance high efficiency, low submergence, net positive suction head required (NPSHR) considerations, long lifetime and reliability as required for concentrated solar ...

Completed the TES system modeling and two novel changes were recommended (1) use of molten salt as a HTF through the solar trough field, and (2) use the salt to not only create steam but also to ...

Hayward Tyler, Inc (HTI) proposed development of journal bearing materials for use in vertical pumps designed for pumping high temperature molten salt on both the hot and cold sides of ...

Molten salt, with its high specific heat capacity and excellent heat transfer, is widely used as the main heat transfer medium in solar thermal power plants. These ...

Among these candidate materials, molten chloride salts are considered the most promising TES/HTF materials for the next generation molten salt technology, which can be operated at up to ...

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 ...

Discover how converting sunlight into stored heat using molten salt allows solar towers to generate a continuous, reliable supply of renewable electricity.

Preliminary testing shows a promising pump design for use in the Concentrating Solar Power Gen 3 systems and sets the ground for further development of the HybrimetTM NiWC3b as a ...

When a ther-mal storage reservoir using molten salts is integrated into a CSP plant, electricity can be generated even after the sun goes down, with an extended operation period of up to 6-8 hours. ...

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