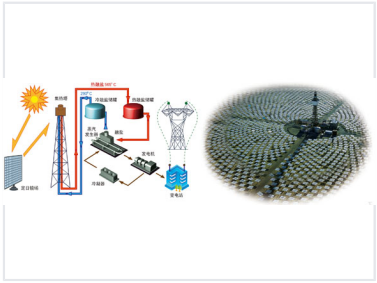
Concentrated Solar Power Tower System

This system uses mirrors to concentrate sunlight on a central receiver, heating molten salt. The hot molten salt drives a turbine to produce electricity.



System Overview

High-Efficiency Thermal Concentration

This concentrated solar power system utilizes a sophisticated array of mirrors to focus sunlight onto a central receiver. By heating molten salt to high temperatures, the system provides a reliable medium for large-scale steam generation and electricity production. Designed for industrial-scale energy efficiency, it integrates seamless storage and conversion components to ensure consistent power output.

Operational Metrics

Thermal Performance

565 °C	290 °C
Hot Salt Temperature	Cold Salt Temperature

System Components

Primary Modules

- Heliostat field (mirror array)
- Central tower receiver
- Hot molten salt storage tank
- Cold molten salt storage tank
- Steam generator
- Turbine and generator unit
- Condenser
- Substation

System Classification	Concentrated Solar Power, Thermal Energy Storage, Utility-Scale Power

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