

# National Energy Administration Solar Thermal Power Generation



## Overview

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The agency broke ground on a new CSP pilot plant in New Mexico and started testing its high-temperature molten chloride salt system in Tennessee. CSP systems use mirrors to pull energy from the sun, convert it to heat, and generate electricity via a steam turbine or engine.

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### Quarterly Solar Industry Update

Each presentation focuses on global and U.S. supply and demand, module and system price, investment trends and business models, and updates on U.S. government programs



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### Solar Energy: Frequently Asked Questions

Use of solar energy for electricity generation is growing in the United States and globally. In the United States, solar energy overall accounted for

3.9% of total electricity generation in 2021,

### [National Labs Gain Headway on Concentrating Solar](#)

Headed by the Department of Energy, two national laboratories are advancing their research in concentrating solar-thermal power systems.



### [National Solar Thermal Test Facility \(NSTTF\) - Energy](#)

Operated by Sandia for the U.S. Department of Energy (DOE), the National Solar Thermal Test Facility (NSTTF) is the only large-scale concentrating solar power

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### **2025 U.S. Geothermal Market Report , NLR**

Developed by the U.S. Department of Energy's (DOE's) National Laboratory of the Rockies and Geothermal Rising, the report presents geothermal technology, cost trends, and market

### **Electric Power Sector Basics , US EPA**

Solar thermal power plants are like steam

boilers, but the steam is produced from concentrated solar energy instead of fuel combustion. Solar



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## [Geothermal , Electricity , 2024 , ATB , NLR](#)

These efforts have led to recent signings of PPAs between EGS developers and clean energy offtakers for electricity from EGS-based power plants with some scheduled to begin power generation by 2026



## [Solar generation to rise 17% this summer: EIA - Utility Dive](#)

The U.S. Energy Information Administration's most recent short-term outlook highlights renewable energy's growing grid penetration, particularly during the summer. EIA's short-term

## [America's Electricity Generation Capacity, 2025 Update](#)

Current Capacity The largest fuel source is natural gas, accounting for just under 43% of all generation capacity. Coal, with a share of 15%, represents the second largest source of generation capacity.





### [NPS.gov Homepage \(U.S. National Park Service\)](https://www.nps.gov/)

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