



# The annual electricity generated by solar power stations





## Overview

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Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Solar power generation has increased drastically over the past two decades, especially since 2011, when it hovered just below two terawatt. Our annual report on electricity generation capacity in the United States breaks down the current and imminent generation of electricity by type of fuel, location, and ownership type.



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### Solar energy

Solar radiation may be converted directly into solar power (electricity) by solar cells, or photovoltaic cells. In such cells, a small electric voltage is generated when light strikes the junction ...

### Electric Power Annual

Table 2.14. Electric power industry - U.S. electricity imports from and electricity exports to Canada and Mexico Available formats:XLS



### [U.S. solar power generation 2024, Statista](#)

In 2024, net solar power generation in the United States reached its highest point yet at 218.5 terawatt hours of solar thermal and photovoltaic (PV) power.

### Solar power in the United States

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### [Electricity generation from U.S. solar grows 28% year-over-year](#)

For the rolling 12 months ending March 2025, solar facilities, including utility-scale and small-scale projects, generated 321,830 GWh, up from 250,539 GWh in the rolling 12 months ...

### Solar power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this ...



### [America's Electricity Generating Capacity](#)

Our annual report on electricity generation capacity in the United States breaks down the current and imminent generation of electricity by type of fuel, location, and ownership type. The report also looks ...



### Solar Industry Research Data - SEIA



Solar energy in the United States is booming. Along with our partners at Wood Mackenzie Power & Renewables, SEIA tracks trends and trajectories in the solar industry that demonstrate the diverse ...



## Solar power in the United States

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther reading

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovol...

### [How much electricity does solar energy generate each year?](#)

When it comes to yearly output, these installations generated over 1,000 terawatt-hours (TWh) of electricity. This massive output showcases solar energy's potential to meet an increasing ...



## Solar PV Energy Factsheet

Solar energy can be harnessed two primary ways: photovoltaics (PVs) are semiconductors that generate electricity directly from sunlight, while solar thermal technologies use sunlight to heat water for ...





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