

National Solar Power Generation Hours



Overview

In 2025, net solar power generation in the United States reached its highest point yet at 295. 7 terawatt hours of solar thermal and photovoltaic (PV) power. Enter any US zip code to get NASA POWER satellite irradiance data — the same dataset used by solar engineers and NREL's PVWatts. Returns monthly peak sun hours (kWh/m²/day) and estimated annual output. Works for all 50 states: AZ, TX, CA, FL, NY, WA and all others. It is the single most important number for sizing a solar system, because it converts instantaneous. Solar power will lead electricity generation growth in the next two years, according to new data from the U. Energy Information Administration. What's going on: Electricity generation from solar power totaled approximately 4,260 billion kilowatt hours in 2025, and that number is expected to grow. Enhance PVWatts® with features tailored to your specific needs! We collaborate with companies, universities, and organizations to privately fund new capabilities or analyses.



Article Content

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 2025, utility-scale solar power generated 295.7 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 388.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovol

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Peak Sun Hours Calculator — Find PSH At Your Location (NREL Data)

Find your exact peak sun hours per day from your location or ZIP code. Powered by NREL PVWatts v8 and the National Solar Radiation Database. Includes monthly breakdown and kWh production estimate.

SolarUSA — Live US Solar Generation, Zip Code Calculator & Peak

Enter any US zip code to get NASA POWER satellite irradiance data — the same dataset used by solar engineers and NREL's PVWatts. Returns monthly peak sun hours (kWh/m²/day) and estimated

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Electricity in the U.S.

Nuclear energy provides the second-highest U.S. electricity source Nuclear energy accounted for about 18%—of U.S. utility-scale electricity generation in 2025. Nuclear power plants use steam turbines to

Energy | The Guardian

Solar generates more energy in US than coal for first time Jun 11 2026 06.00 EDT
Labor to set terms for datacentre and AI growth as it vows not to

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Solar Energy Generation by State Report June 2026

Solar energy generation by state JasonDoiy/iStock/Getty images California once again takes first place among the top states generating electricity from solar power this month. The Golden

NSRDB | US Data

Solar data was obtained through METSTAT (modeled 93% and measured 7%), and the meteorological dataset was obtained from the NCDC for Surface Airways hourly data. Please reference the Solar

Electric Power Monthly

May 21, 2026· Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-861M, Form EIA-861 and from estimation

Electricity generation, capacity, and sales in the United States

Estimates of small-scale solar PV capacity and generation by state and sector are included in the Electric Power Monthly. As of the end of 2023, California had about 35% of total U.S.

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U.S. solar power generation 2025| Statista

In 2025, net solar power generation in the United States reached its highest point yet at 295.7 terawatt hours of solar thermal and photovoltaic (PV) power.

Solar Just Produced More Electricity Than Coal for the First Time in ...

Case in point, according to global energy think tank Ember, solar power generation overtook coal for the first time in US history last month: in May, solar made up 12.8 percent of all

PVWatts Calculator

Estimates the energy production of grid-connected photovoltaic (PV) energy systems throughout the world. It allows homeowners, small building owners, installers and manufacturers to easily develop

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Business Standard

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

National Solar Radiation Database (NSRDB)

The NSRDB offers hourly solar radiation data including global, direct, and diffuse radiation data, as well as meteorological data for stations from the NCEI Integrated Surface

EIA: U.S. Solar Electricity Generation to Rise

What's going on: Electricity generation from solar power totaled approximately 4,260 billion kilowatt hours in 2025, and that number is expected to grow by 1.1% this year and by 2.6% in

National Grid: Live

National Grid: Live The National Grid is the electric power transmission network for Great Britain Time 10:15pm Price £121.46 /MWh Emissions 196 g/kWh Demand 27.6 GW Generation 23.0 GW

Reuters | Breaking International News & Views

Reuters provides business, financial, national and international news to professionals via desktop terminals, the world's media organizations, industry

NASA POWER | Data Access Viewer (DAV)

The NASA POWER project's Data Access Viewer (DAV) is an interactive web-mapping application providing access to NASA solar and meteorological data.

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