

# Civilian solar photovoltaic power generation capacity



## Overview

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Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity. Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity. Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity changes. If those plans. Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U. The focus is on ground-mounted systems larger than 5M AC, including photovoltaic (PV) standalone and PV+battery hybrid projects (smaller projects are covered in Berkeley Lab's. Utility-scale solar generation grew to 232 TWh in the rolling 12 months through March 2025, according to the latest data from the Energy Information Administration. Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy. 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 domestic uses, to warm buildings, or heat fluids to drive electricity-generating turbines. Data source: IRENA (2025) - Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data. To cite data downloaded from this page. The American Public Power Association is the voice of not-for-profit, community-owned utilities that power approximately 2,000 towns and cities nationwide. We represent public power before the federal government to protect the interests of the more than 55 million people that public power utilities.

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### Highvoltage Battery



### Utility-Scale PV , Electricity , 2024 , ATB , NLR

Definitions: The rated capacity used to calculate CAPEX for PV systems is reported in terms of the aggregated capacity of either all its modules or all its inverters.

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### Installed solar energy capacity

Pumped storage (note that this is included in total hydropower capacity, but not in total renewable capacity)  
 Marine energy Wind energy Onshore wind energy Offshore wind energy Solar  
 ...



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### U.S. Utility-Scale Solar, 2025 Data Update

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.



51.2V 150AH, 7.68KWH

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### Solar photovoltaic industry in the U.S.

Find up-to-date statistics and facts on the solar photovoltaic industry in the United States.

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### Solar Industry Research Data - SEIA

Solar and Storage Lead New Capacity Additions Solar and storage have become the backbone of new electricity infrastructure in the U.S. Combined, these technologies have represented 85% of new ...

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### U.S. developers report half of new electric generating capacity will

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the ...

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### Electricity generation from U.S. solar grows 28% year-over-year

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information

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Administration's (EIA) latest release of its Electric ...

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**Solar, battery storage to lead new U.S. generating capacity additions**

We expect this trend will continue in 2025, with 32.5 GW of new utility-scale solar capacity to be added. Texas (11.6 GW) and California (2.9 GW) will account for almost half of the ...



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**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. ...

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**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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