

# Supply of solar photovoltaic power generation

Nominal Capacity

**280Ah**

Nominal Energy

**50kW/100kWh**

IP Grade

**IP54**



## Overview

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In our January Short-Term Energy Outlook (STEO), which contains new forecast data through December 2025, we forecast new capacity will boost the solar share of total generation to 5. Explore solar resource data via our online geospatial tools and downloadable maps and data sets. Find and download resource map images and data for North America, the . We expect solar electric generation will be the leading source of growth in the U. 6% in . In 2024, between 554 GWdc and 602 GWdc of PV were added globally, bringing the cumulative installed capacity to 2. The rest of the world was up 11% y/y. The IEA reported Pakistan's rapid rise to . Summary: These statistics and charts are created from all interconnected energy storage applications in PG&E, SCE and SDG&E service territories with one entry per interconnection address/project.

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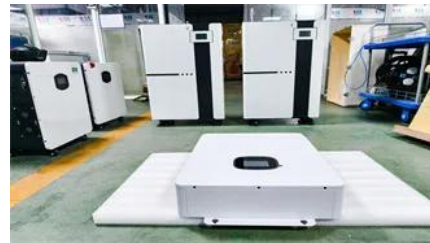


[We expect solar will supply almost all growth in U.S. electricity](#)

We expect solar electric generation will be the leading source of growth in the U.S. electric power sector. In our January Short-Term Energy Outlook (STEO), which contains new forecast data

### Spring 2025 Solar Industry Update

At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. In 2024, solar represented



### OEDI: United States Utility-Scale PV Supply Curves 2024

This data packet contains supply curves, hourly generation profiles, and a composite siting exclusion TIFF for utility-scale PV across the contiguous United States.

### Sector Spotlight: Solar PV Supply Chain

As solar PV plays an increasingly large role in supplying power, U.S. manufacturing of solar modules and their component parts (silicon wafers, ingots, and cells) is poised for tremendous



### Snapshot 2024

PV played an important role in the reduction of



## Solar Market Insight Report Q4 2025

Photovoltaic (PV) solar accounted for 58% of all new electricity-generating capacity additions through the third quarter of 2025, remaining the dominant form of new electricity-generating

the CO2 emissions from electricity in 2023, with more than 75% of new renewable capacity installed in 2023, generating nearly 60% of generation from



## America's Electricity Generation Capacity, 2025 Update

Solar is the leading resource for permitted plants, accounting for more than 70% of the 78,039 MW of permitted generation capacity. Wind and natural gas account for another quarter of capacity in this

[Solar Resource Data, Tools, and Maps](#), [Geospatial Data Science](#), [NLR](#)

View an interactive map or download geospatial data on solar photovoltaic supply curves.



## Statistics and Charts

Additionally, all NEM Solar cost/watt values are represented using AC capacity, and all Energy Storage cost/watt values are represented using Storage Size (kW AC) and only applications received after

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