

Total capacity of solar power generation equipment



Overview

In 2024, generators added a record 30 GW of utility-scale solar to the U. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. 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. 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 at retirements, planned retirements, and cancellations since 2017. In 2024, the United States. Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity.

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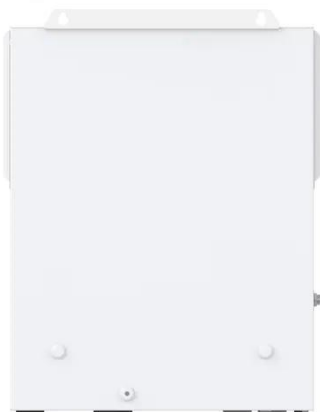


Solar energy

It is one of the fastest-growing renewable energy technologies and is playing an increasingly important role in the global energy transformation. The total installed capacity of solar PV reached 1 865 GW ...

A global inventory of photovoltaic solar energy generating units

Here we provide a global inventory of commercial-, industrial- and utility-scale PV installations (that is, PV generating stations in excess of 10 kilowatts nameplate capacity) by using a



America's Electricity Generating Capacity

The largest fuel source for this capacity is natural gas (42.7%), followed by coal (15%). Wind, nuclear, solar, and hydro together account for more than one-third of capacity. Solar continues to be the main ...

Solar accounted for 58% of all new electricity-generating capacity added to the US grid through the third quarter of 2025, with more than 30 GW installed. Solar and storage, combined, ...



Solar PV capacity by country

On this webpage, you can find the rating of top solar photovoltaic generating countries, get to know the volume of solar PV capacity installed in each individual nation annually, and find the solar PV ...

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

We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory ...



Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity



expansion. Low module costs, relatively efficient permitting processes ...

Installed solar energy capacity

Depending on the data, this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as ...



REPORT: Solar Adds More New Capacity to the Grid in 2024 Than ...

According to the U.S. Solar Market Insight 2024 Year in Review report released today by the Solar Energy Industries Association (SEIA) and Wood Mackenzie, solar and storage account for ...

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