

Photovoltaic panel installation quantity statistics table



Overview

Official statistics by year of solar electricity installed capacity (GW). The values are presented in tables and charts with calculations of changes and shares, and with extensive analytical functionality. 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. 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 estimates of the performance of potential PV installations. In 2024, cumulative solar PV capacity reached some 886 gigawatts in China alone. Investments in solar. 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. Except where otherwise noted, content on this site is licensed under a Creative Commons Attribution 4. Our data comes from trusted sources.

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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 adding or adapting ...

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PVWatts Calculator

NREL's 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 ...



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Solar electricity installed capacity. Data by Countries from 2000 to 2023

Official statistics by year of solar electricity installed capacity (GW). The values are presented in tables and charts with calculations of changes and shares, and with extensive analytical functionality.

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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.

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How Many Solar Panels Do I Need? 2025 Calculator , SolarTech

How many solar panels do I need? Use our 2025 calculator to size your system by home size, kWh usage, and location. Get panel count, roof space, and kW--free from SolarTech.

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Residential solar market in the U.S.

Of the total solar capacity installed in the U.S., over 26 percent corresponds to residential installations. This segment has grown in recent years, reaching some 4.7 million installations

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90+ Solar Energy Statistics: The Green Gold Rush (2025)

These statistics showcase the current



capabilities of solar technology, from panel efficiency rates and lifespan to emerging innovations in hybrid systems and energy storage, demonstrating how

...

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Solar Industry Research Data - SEIA

There are now 262 gigawatts direct-current of solar capacity installed nationwide, enough to power 45 million homes. In the last decade, solar deployments have experienced an average annual growth rate of 28%.

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Solar Data Cheat Sheet - SEIA

The Solar Energy Industries Association (SEIA) is leading the transformation to a clean energy economy. Learn more at [seia](http://seia.org).

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