

Number of solar power generation users





Overview

What are some statistics about solar energy?

These include IEA, SEIA, Forbes, and official government reports. Each statistic has been verified for accuracy. The statistics cover many aspects of solar energy. These numbers tell a clear story. Solar energy is getting cheaper. Installation rates are rising. More people are choosing solar power than ever before.

How much solar energy does the world use?

The world currently has a cumulative solar energy capacity of 850.2 GW (gigawatts). 4.4% of our global energy comes from solar power. China generates more solar energy than any other country, with a current capacity of 308.5 GW. The US relies on solar for 3.9% of its energy, although this share is increasing rapidly every year.

How many people are employed in the solar industry?

3,975,096 people are employed in the solar industry worldwide, and 263,883 of these are in the United States. The solar energy industry created more new jobs in the US than any other energy subsector last year. It would take around 18.5 billion solar panels to produce enough energy to power the entire US.

What percentage of US electricity is generated by solar power?

A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U.S. electricity generation capacity in 2023, with 22 states generating more than 5% of their electricity from solar, led by California at 28.2%.

What percentage of residential buildings are solar powered?

Up to 36% of U.S. residential buildings are projected to be solar-powered by 2050, with solar energy expected to account for 50% of global electricity generation by that time. Which countries are leading in solar energy adoption?



How many people use solar panels in the US?

The US relies on solar for 3.9% of its energy, although this share is increasing rapidly every year. 3.2 million US homes have solar panels installed. 3,975,096 people are employed in the solar industry worldwide, and 263,883 of these are in the United States.



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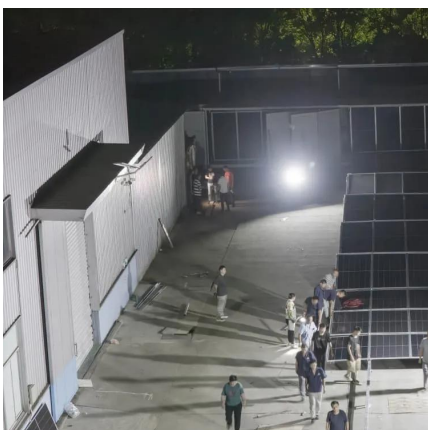


[Global solar power installation crosses 2TW in 2024: ...](#)

Global solar power capacity installation surged by 33% in 2024, marking its 20th consecutive year as the fastest-growing renewable energy ...

[India: solar energy capacity 2024. Statista](#)

The solar energy capacity in the south Asian country of India peaked at some **** gigawatts in 2024, an increase from a capacity of nearly ** gigawatts in the previous year.



Solar Power by Country 2025

Solar has massive potential to transform life on our planet. According to a 2024 report by the World Bank, off-grid solar has the potential to bring electricity to nearly 400 million people ...

Solar Industry Research Data - SEIA

As of 2023, nearly 280,000 Americans work in solar at more than 10,000 companies in every U.S. state. In 2024, the solar industry generated over \$70 billion of private investment in the ...



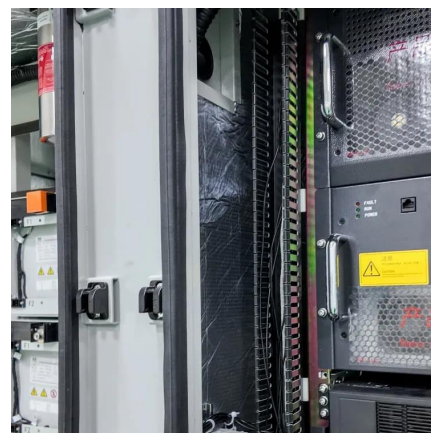
Solar power generation

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over European countries. You can find more about Ember's methodology in ...



[Top 10 States in India: Solar Capacity Highlights \(2023\)](#)

Looking ahead, the trajectory of solar power in India is promising. Projections indicate substantial growth in solar installation capacities across ...



[35 Latest Solar Power Statistics, Charts & Data \[2025\]](#)

In this article, with the help of charts and key statistical data, we reveal the latest solar power statistics that demonstrate how the industry has grown so far, and the outlook and ...



India's Solar Power Surge: State-wise Progress, ...

Solar Power Surge: In a recent announcement, the Union Minister for New & Renewable Energy and Power disclosed a remarkable surge in ...

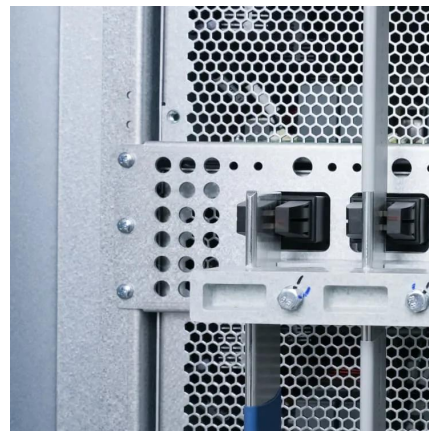


Residential solar market in the U.S.

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

Solar Energy Statistics By Country, Costs And ...

Solar energy users save around 35 tons of CO2 emissions and 75 million barrels of oil each year. Utility-scale PV power plants made up 70% of ...



Electricity explained Electricity generation, capacity, and sales in

Utility scale includes electricity generation and capacity of electric power plants with at least 1,000 kilowatts, or 1 megawatt (MW), of electricity-generation capacity. Small scale includes ...



Solar Rooftop Potential

Solar Rooftop Potential Solar rooftop potential for the entire country is the number of rooftops that would be suitable for solar power, depending on size, shading, ...



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 ...

Spring 2024 Solar Industry Update

Chinese Generation Capacity Additions by Source
o In 2023, solar contributed 59% of new generation capacity in China (235 GWdc to 277 GWdc/207 GWac) and 20% of cumulative ...



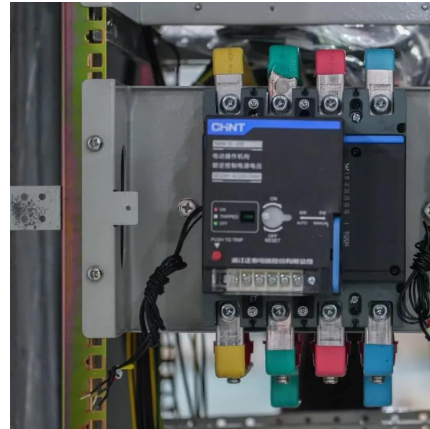
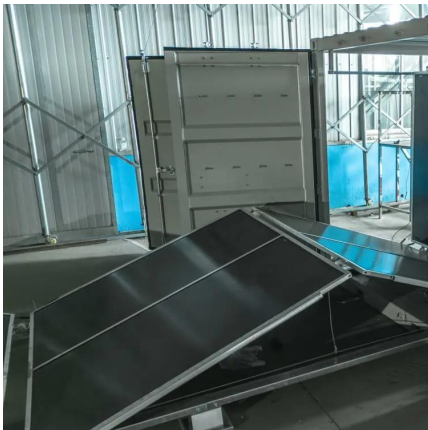
90+ Solar Energy Statistics: The Green Gold Rush ...

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[35 Latest Solar Power Statistics, Charts & Data \[2025\]](#)

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[What percent of the world uses solar energy? 2025](#)

As of 2023, solar energy was the world's third-largest renewable energy technology, behind wind and hydropower -- nearly 5.5% of global electricity generation came ...

Solar Energy in Pakistan Market

The Pakistan Solar Energy Market is expected to reach 2.07 gigawatt in 2025 and grow at a CAGR of 46.55% to reach 13.97 gigawatt by 2030. Zonergy, Yellow Door Energy, ...



[U.S. Energy Information Administration](#)

In 2024, wind supplied 22% of Texas's total in-state electricity net generation. 99 Coal supplied about 12% of the state's total net generation in 2024, down from 34% in 2014 because of ...



Utility-scale U.S. solar electricity generation continues to grow in

In the final five months of 2024, we expect new U.S. solar electricity generating capacity will make up 63%, or nearly two-thirds, of all new electricity generating capacity to ...



[U.S. number of homes with solar 2032, Statista](#)

Number of homes with solar panels in the United States in 2012 and 2024, with a forecast for 2032 (in millions) You need a Statista Account ...



[The best solar generators for 2025, tested and reviewed](#)

Whether you're camping, living off-grid, or want backup power for your house, the best solar generators help you tap into sustainable energy.



[90+ Solar Energy Statistics: The Green Gold Rush \(2025\)](#)

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[How many solar power users are there?_ NenPower](#)

Solar energy is not just a fleeting trend but a fundamental element of a sustainable future, leading to increased adoption across the globe. With ...



New analysis: Texas continues dominance in wind and solar power generation

Interactive dashboard allows users to explore clean energy growth in Texas and nation over the past decade DALLAS - Texas ranks first in the nation for wind power ...



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The State of the Solar Industry

"Net Generation" includes DPV generation. Net generation does not take into account imports and exports to and from each state and therefore the percentage of solar consumed in each state ...



2025 Solar Energy Statistics: Latest Industry Survey Data

Solar power has been growing rapidly in the U.S. for the past decade, and there are now more than 160 gigawatts of solar panels installed across the country. Here are some quick statistics ...

Solar power generation

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