

The current proportion of solar power generation used by households





Overview

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 in 2023. How much solar energy does the US use?

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. 3.2 million US homes have solar panels installed.

How much solar energy does a home use in 2022?

In 2022, residential solar panels generated 37 million megawatt-hours, accounting for 18% of all solar energy in the US, according to the Energy Information Administration. The average US home uses about 11,000 kilowatt hours per year, meaning residential solar panels generated enough electricity to power 3.4 million homes in 2022.

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.

What percentage of electricity is generated by solar?

Renewables as a whole contributed 38% of overall electricity generation (according to Ember Climate), and solar accounted for 11.5% of total renewables (see below). This gives an overall figure of 4.37%. In the US alone, the figure is slightly lower. The latest data shows solar producing 3% of total US electricity in 2020.

What percentage of solar installations are residential?



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 in 2023. Increasing household electricity bills are a large motivator for the installation of residential solar systems.

How much energy does a home use a year?

The average US home uses about 11,000 kilowatt hours per year, meaning residential solar panels generated enough electricity to power 3.4 million homes in 2022. Solar energy is one of the fastest-growing renewable energy sources in the US, according to the Department of Energy.



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

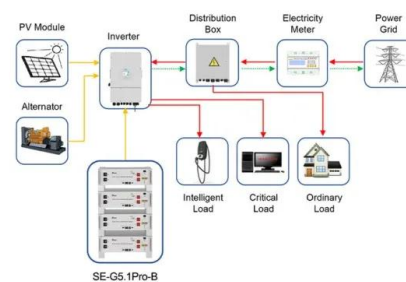
The latest available figures show that the world used 856 TWh (terawatt hours) of solar energy in 2020. The solar energy production figures ...

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'Staggering' rise of rooftop solar to put all other power ...

The capacity of rooftop solar in Australia will eclipse the country's entire electricity demand in coming decades, according to a report that charts ...

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Application scenarios of energy storage battery products



Solar power in the United States

By 2015, solar employment had overtaken oil and gas as well as coal employment in the United States. [8] As of 2023, more than 280,000 Americans were employed in the solar industry. [9] ...

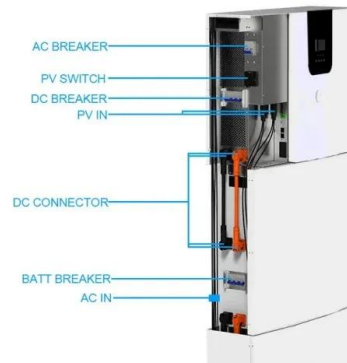
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[Solar Energy Statistics Today \(2025\) , Today's Homeowner](#)

Over two million U.S. households used solar panels as of 2019. Installation rates have increased 43% since then, as costs have fallen and incentive programs have expanded. ...



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[How much solar energy do US homes produce?_ USAFacts](#)

A small percentage of all homes (2.7%) had solar panels installed by the end of 2022. Overall, residential solar generates a small fraction of total US energy, making up less ...

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Solar surpasses 10% of U.S. electrical generation for a full month ...

In April, solar photovoltaics accounted for 10.64% of all electricity generation, according to the EIA. Combined with wind, the two sources neared 25%, while carbon-free ...

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[Solar Energy in the United States: 2024 in Review](#)

As of December 2024, 219.8 GM of solar energy was installed in the U.S. According to the Solar Energy Industries Association (SEIA), the current number of solar energy systems installed in ...

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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 ...

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Sample Order
UL/KC/CB/UN38.3/UL



**Australian Energy Statistics, Table O
Electricity generation by fuel**

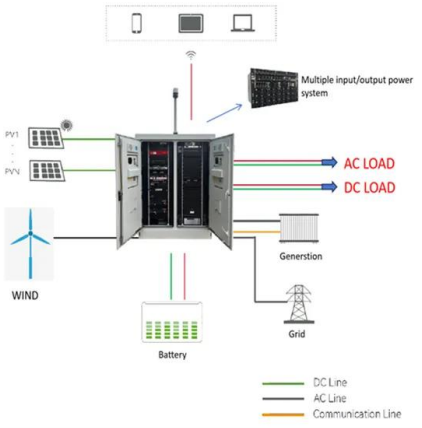
Table O of the Australian Energy Statistics has been updated to include estimates for 2023-24 and calendar year 2024 using the latest data available on Australia's total ...

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

As of December 2024, 219.8 GM of solar energy was installed in the U.S. According to the Solar Energy Industries Association (SEIA), the current ...

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Solar power in the United Kingdom

Solar power has a growing role in electricity production in the United Kingdom, contributing around 5% of the UK's annual power generation in 2024. [1] As of 2025, on sunny days, it ...

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[Solar energy in New Zealand -- facts and outlook](#)

How does solar electricity work? Solar electricity via photovoltaics (PV) is the generation of electricity from sunlight. Photovoltaic cells are specially prepared ...

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

What Percentage of US Electricity Comes From Solar? The latest 2021 annual statistics show that 3.9% of US electricity comes from solar power, up from 3.2% the previous ...

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[How Many Americans Have Solar Panels in 2024?](#)

With over 4,227,503 million US homes sporting rooftop solar panels as of February 2024, the landscape of American energy consumption is undergoing a significant transformation. ...

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[Top Solar Energy Facts and Statistics \(2024\)](#)

Solar energy has become increasingly popular in American households within the last decade. Solar adoption is soaring, with 4.7 million systems operating as of 2023. Thanks ...

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