

Proportion of solar panels





Overview

As of 2024, approximately 3% of American households have installed solar panels, according to recent industry reports. This figure highlights a significant yet modest adoption of solar energy across the United States. 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.

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 many homes have solar panels?

There are approximately 3.2 million homes with solar panel installations across the U.S. In 2020, 3.7% of single-family homes in the U.S. generated electricity from solar panels. The year 2023 marked the first time that solar panel efficiency surpassed the threshold of 30%, making it a groundbreaking year for improvement.

How many solar panels are installed in the US?

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. The solar energy industry created more new jobs in the US than any other energy subsector last year.

How many homes have solar panels in 2022?

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 than 1% of all electricity production in 2022.

How efficient are solar panels?

In 2020, 3.7% of single-family homes in the U.S. generated electricity from solar panels. The year 2023 marked the first time that solar panel efficiency surpassed the threshold of 30%, making it a groundbreaking year for improvement. Most solar panels offered today typically have efficiency ratings ranging from 15% to 22%.



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

With 4.2 million American homes equipped with solar panels as of 2024, and an average installation ranging between 25 to 30 solar panels per rooftop, the total number of solar panels ...

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Solar Market Insight Report - SEIA

4 days ago · Solar accounted for 69% of all new electricity-generating capacity added to the US grid in Q1 2025. The US added 8.6 GW of solar module manufacturing capacity in Q1, bringing ...

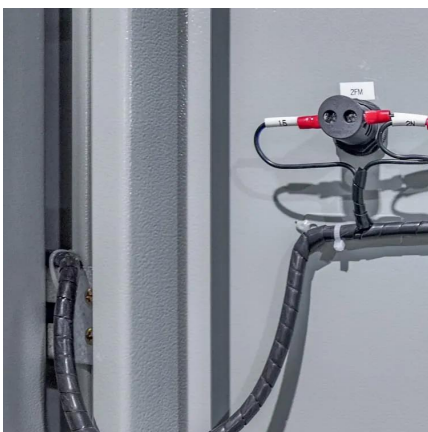
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2025 Solar Energy Statistics: Latest Industry Survey Data

The total proportion of home solar installations that include extra services has regressed since 2023, indicating that homeowners could be less willing to spend money on add-on items like ...

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Homes and buildings in the West and Northeast have the largest ...

The Northeast Census Region had the second-largest percentage of homes with small-scale solar generation at 4.7% (2020 data). Similarly,



for commercial buildings, 2.5% ...

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

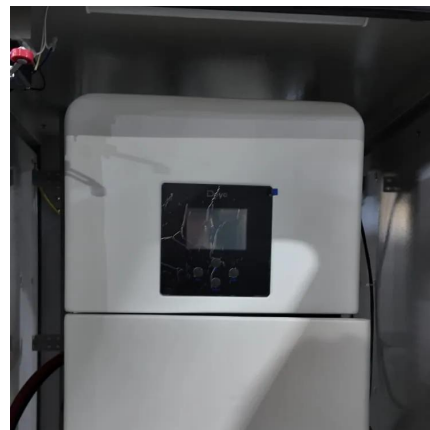
4.4% of our global energy comes from solar power. China generates more solar energy than any other country, with a current capacity of 308.5 GW. The US relies on solar for ...

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Solar generation was 3% of U.S. electricity in 2020, but we ...

According to our Electric Power Annual, solar power accounted for 3% of U.S. electricity generation from all sources in 2020. In our Short-Term Energy Outlook, we forecast ...

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

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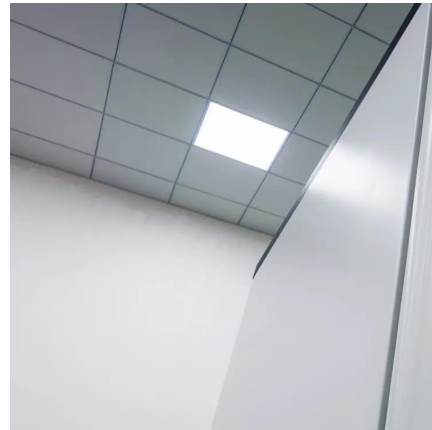
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[What Percentage of Americans Have Solar Panels in 2024?](#)

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