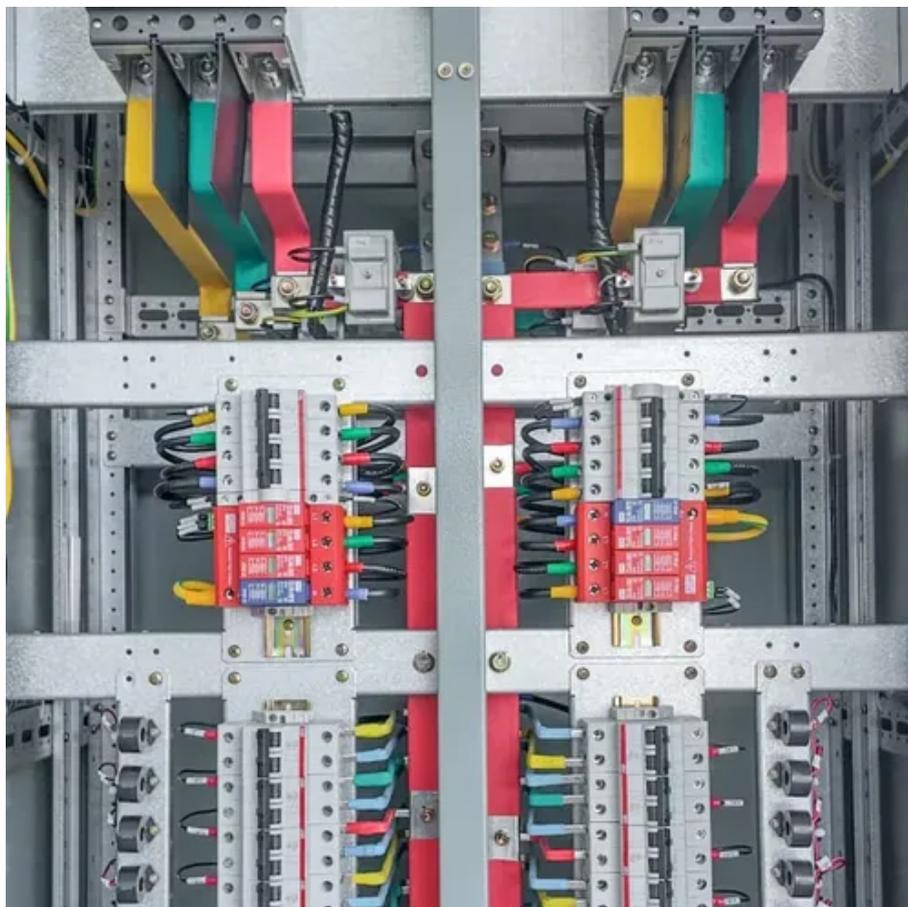




# Household solar panel users





## Overview

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As of early 2025, nearly 5 million households (specifically, 4.7 million) have solar panels installed on their rooftops, according to a SolarReviews report. That's about 7% of U.S. homes, and the number is expected to climb to 15% by 2030 — about twofold within the next five years.

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In the last decade, solar has grown with an average annual rate of 26 percent, reaching a capacity of over 138 gigawatts in 2023. In that same year, solar energy accounted for 55 percent of new electricity-generating capacity additions in the North American country. Of the total solar capacity.

Thanks to federal and state incentives, the cost of solar panel systems is becoming more accessible to homeowners. In this article, we outline solar energy facts and statistics to spotlight the present and future powered by the most abundant energy source on Earth. As solar technology improves and.

From the neighborhoods of California to the coast of Maine, Americans are cutting utility bills and shrinking their environmental footprint by installing solar panel systems on their rooftops. You might be wondering — just how many Americans have solar home panels?

As of early 2025, nearly 5.

As many as 16.5 million American homeowners are open to installing solar panels in the next three years — but concerns around costs, maintenance, and reliability remain key barriers to adoption. These days, energy issues dominate headlines, and Americans are understandably concerned about power.

Lawrence Berkeley National Laboratory has released the latest edition of its annual report, Residential Solar-Adopter Income and Demographic Trends. The report is based on address-level data for 4.1 million residential households across the country that installed rooftop or other onsite solar.



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.



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### [New Berkeley Lab report on solar-adopter income and ...](#)

The report also explores how characteristics of PV installations vary with household income level, including differences in the use of third-party ownership, battery storage, and ...



### [Home solar panel adoption continues to rise in the U.S.](#)

In the second quarter of 2022, residential solar set its 5th consecutive quarterly growth record. 8% of U.S. homeowners said they have already installed solar panels and an additional 39% have ...

### [How many U.S. homes have solar panels?](#)

This report summarizes the latest statistics related to the residential installation of solar panels and solar power capacity in U.S. homes.



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

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 ...



### [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 ...



### [3. Americans' perceptions of solar power in their own lives](#)

In a 2023 Pew Research Center survey, 7% of homeowners said they have installed solar panels on their home; an additional 28% said they were seriously considering it. ...



### [Residential solar market in the U.S.](#)

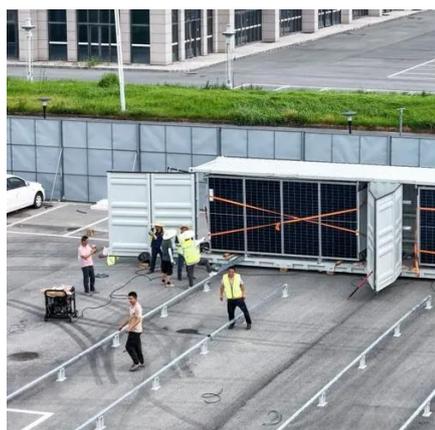
Of the total solar capacity installed in the U.S., over 26 percent corresponds to residential installations. This segment has grown in recent years, reaching some 4.7 million ...



### [Solar Home Panels Guide: U.S. Statistics & Trends 2025](#)



As of early 2025, nearly 5 million households (specifically, 4.7 million) have solar panels installed on their rooftops, according to a SolarReviews report. That's about 7% of U.S. ...



### [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 ...

### [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 ...



### [2024 Residential Solar Market Outlook: Growing consumer ...](#)

As many as 4 million American households currently have solar panel systems, and most solar users in our study were highly satisfied. Nearly half of eligible homeowners ...



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