



Proportion of rooftop photovoltaic panel users





Overview

As of early 2025, nearly 5 million households (specifically, 4. homes, and the number is expected to climb to 15% by 2030 — about twofold within the next five years. In the last decade, solar has grown with an average annual rate of 26 percent, reaching a capacity of over 138 gigawatts in 2023. Of the total solar capacity. This analysis is part of a series from our new report, Technology and innovation pathways for zero-carbon-ready buildings by 2030, and provides the strategic vision of experts from the IEA Technology Collaboration Programmes (TCPs) on how to help achieve some of the most impactful short-term. 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 3. 4 million residential households across the country that installed solar onsite through year-end 2022. 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. Sources: SEIA, Ohm Analytics, Wood Mackenzie This shift is not just about embracing green energy; it's a collective move. Solar rooftop potential for the entire country is the number of rooftops that would be suitable for solar power, depending on size, shading, direction, and location. Rooftop potential is not equivalent to the economic or market potential for rooftop solar—it doesn't consider availability or cost. 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.



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[Rooftop Solar PV Market Size, Share, Industry Report, 2030](#)

Thin film rooftop solar PV market dominated the global rooftop solar PV market and accounted for the largest revenue share of 41.32% in 2024, primarily driven by growing investments in renewable energy.

[Approximately 100 million households rely on rooftop solar PV by 2030](#)

Approximately 100 million households rely on rooftop solar PV by 2030 - Analysis and key findings. A report by the International Energy Agency.



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 ...

[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 energy ...



[Solar Home Panels Guide: U.S. Statistics & Trends 2026](#)

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 ...



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 in 2023 .



[New report: Rooftop solar delivers 10 times more power than a ...](#)

Rooftop solar has the potential to generate about 45% of the electricity the U.S. uses. In 2022, rooftop solar generated about 1.5% of all the electricity the U.S. used.



Solar Rooftop Potential



According to National Renewable Energy Laboratory (NREL) analysis in 2016, there are over 8 billion square meters of rooftops on which solar panels could be installed in the United States, representing ...



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

The report is based on address-level data for 3.4 million residential households across the country that installed solar onsite through year-end 2022, representing 86% of all U.S. residential ...



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. Sources: SEIA, Ohm ...





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