



# US Solar Power Generation for Home Use

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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 ...

California leads as the top solar state. With over 54 GW of solar installed, enough energy to power over 15 million homes. Texas has the fastest growing solar economy with the largest utility-scale solar and ...

On the good side, solar continued its run of astonishing growth, generating 35 percent more power than a year earlier and surpassing hydroelectric power for the first time.

Find out how many solar energy residential systems are in the U.S., which state leads the way, and where this trend is heading.

Discover all statistics and data on U.S. residential solar photovoltaics now on statista !

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information ...

Solar projects are making it easier for Americans to choose solar energy to power their homes. Since 2008, hundreds of thousands of solar panels have been ...

Thanks to federal and state incentives, the cost of solar panel systems is becoming more accessible to homeowners. In this ...

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther readingSolar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of



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