

# Is it feasible to use solar energy to generate electricity nationwide

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Electricity from solar power will play a crucial role in replacing the fossil fuels used to generate electricity today. A range of different models project the future energy mix of the green electricity system, which ...

In summary, it is indeed possible to power the entire United States with solar energy. The environmental benefits are substantial, from reducing greenhouse gas emissions to conserving water.

Use of solar energy for electricity generation is growing in the United States and globally. In the United States, solar energy overall accounted for 3.9% of total electricity generation in 2021, ...

Our nation has abundant solar, water, wind, and geothermal energy resources, and many U.S. companies are developing, manufacturing, and installing cutting edge, high-tech renewable energy ...

In the first nine months of 2025, more than three-quarters of the electrical generating capacity added in the United States was solar power, according to new data published by the ...

Electricity generation by the U.S. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U.S. ...

While solar deployment and electric vehicle sales broke records in 2023 and 2024 in the U.S., significant obstacles to building a clean energy system remain.

This report uses solar energy deployment as a case study to explore the real-world dynamics at play in quickly developing clean energy. To meet the level of necessary utility-scale ...

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