



# Rural solar power generation ranking

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Can solar power be integrated into rural communities?

One foreseeable challenge with integrating renewables like solar into rural communities is the interconnection queue, or the list of energy projects requesting and awaiting connection to the power grid. According to the Southwest Power Pool (SPP), building a new transmission line can take anywhere from three to nine years.

How many new solar projects are coming to Virginia?

Dominion Energy Virginia, the state's largest utility company, has proposed more than a dozen new solar projects that will add 772 MW to the state's current generation capacity. Renewables contributed almost 30% of Massachusetts' electricity generation in 2021, mostly coming from solar energy sources.

Is solar energy a good investment for farmland?

Solar energy is leading the way, with much of the new development occurring on farmland and in rural communities. It has the potential to be a financial opportunity for landowners, yet it can also create barriers for farmer renters and the next generation.

What percentage of solar development will be on agricultural land?

Modeling by the American Farmland Trust (AFT) finds that 83% of projected solar development will be on agricultural land, of which 49% will be on land AFT deems "nationally significant" due to high levels of productivity, versatility, and resiliency.

Discover the top 10 states leading in renewable energy by generation, investment, and innovation. Learn about who's powering a sustainable future in 2025.

South Dakota led all states by producing the equivalent of 92 percent of its retail electricity from wind, solar or geothermal. Texas, California, Iowa, Oklahoma and Kansas were the ...

Texas, California, Iowa, Oklahoma and Kansas were the top five states for total renewable energy generation in 2024. 15 states produced 30% or more of the electricity they used ...

Texas has the fastest growing solar economy with the largest utility-scale solar and energy storage projects in the nation. Ranking 2nd in the nation, Texas has 48.2 GW installed and is expected to ...



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It is first in utility-scale solar power capacity, but then 4th in residential solar power capacity and 15th in non-residential distributed solar power capacity.

This report summarizes the latest statistics on solar power capacity by state and highlights the top U.S. states in solar power generation.

The rankings are based on electricity generation data from the entire year of 2024, using state-by-state totals in megawatt-hours (MWh) provided by the U.S. Energy Information ...

Solar energy development has been concentrated in the Atlantic and West regions of the United States, especially in California, North Carolina, and Massachusetts. These States are among ...

In a dozen states, wind and solar could account for more than 80 % of capacity, with New Mexico, Vermont, Virginia and Wyoming potentially crossing the 90 % threshold.

Research from a 2021 U.S. Department of Energy (DOE) study projects solar energy to rise from 4% of our nation's total energy production to 45% by 2050, potentially requiring nearly 10.4 ...

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