National solar power generation area

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

The results discussion includes state-level maps and tables containing available land area (square kilometers), installed capacity (gigawatts), and electric generation (gigawatthours) for each ...

View solar supply curve data, which include latitude, longitude, available area, capacity potential, generation potential, generator capacity factor, and distance to interconnect.

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 ...

Click the images below to view maps of concentrating collector and tilted photovoltaic panel solar energy resources on BLM-administered lands in the six-state PEIS study area. These maps are based on ...

Data from 2007 through 2024. Source: Berkeley Lab, Utility-Scale Solar Data Update 2025

Welcome to the Global Solar Atlas. Start exploring solar potential by clicking on the map. Select sites, draw rectangles or polygons by clicking the respective map controls. Calculate energy production for ...

Find and download solar resource map images and geospatial data for the United States and the Americas. For more information on NLR"s solar resource data development, see the National Solar ...

The following table ranks the best and worst states for solar energy production (shown in thousand megawatt-hours) in October and November, number 1 represents the best state for solar ...

The database combines datasets from the U.S. EIA, the Environmental Protection Agency (EPA) and the National Renewable Energy Laboratory (NREL). The locations and array boundaries of all ...

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