

Distributed solar energy storage in the United States



Overview

This data source covers capacities in the 0–1000 kW range. Data values are reported as of October 2025. To access additional data, including a downloadable dataset, and summary data, please visit the Global Solar Power Tracker on the Global. Berkeley Lab collects, cleans, and publishes project-level data on distributed* solar and distributed solar+storage systems in the United States. The data are compiled from a variety of sources, including utilities, state agencies, local permitting agencies, property assessors, and others. In 2024, utility-scale solar power generated 219. Data values are reported as of. — The Solar Energy Industries Association (SEIA) is unveiling a vision for the future of energy storage in the United States, setting an ambitious target to deploy 10 million distributed storage installations and reach 700 gigawatt-hours (GWh) of total installed storage capacity by 2030.

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Solar Integration: Distributed Energy Resources and ...

This resource page looks at ways to ensure continuous electricity regardless of an unforeseen event are by using distributed energy resources.

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U.S. Distributed Solar and Storage Data , Energy Markets & Planning

U.S. Distributed Solar and Storage Data Berkeley Lab collects, cleans, and publishes project-level data on distributed* solar and distributed solar+storage systems in the United States. The data are ...



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State by State: An Updated Roadmap Through the Current US Energy

Energy storage resources have become an increasingly important component of the energy mix as traditional fossil fuel baseload energy resources transition to renewable energy ...

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The 50 States of Solar: States Focus

on Value of Distributed ...

The report finds that 49 states, plus the District of Columbia and Puerto Rico, took some type of distributed solar policy action during 2025 (see figure below), with the greatest number of ...

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Solar power in the United States

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther reading

Solar 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 installed photovol...

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United States Aggregated Distributed Solar Capacity

United States had 58,066 MWac of aggregated distributed solar capacity as of 2025/10/31.

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SEIA Announces Target of 700 GWh of U.S. Energy Storage by 2030

-- The Solar Energy Industries Association (SEIA) is unveiling a vision for the future of energy storage in the United States, setting an ambitious target to deploy 10 million distributed ...

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Scaling distributed generation starts with smarter state policy

Instead, we must look to the states to lead on transformative policies to scale distributed solar and storage - starting with long-term market certainty.

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The state of US distributed solar-plus-storage , Wood Mackenzie

At our recent Solar & Energy Storage Summit 2024 in San Francisco, we delivered an in-depth assessment of the current state of the US distributed solar-

plus-storage market.

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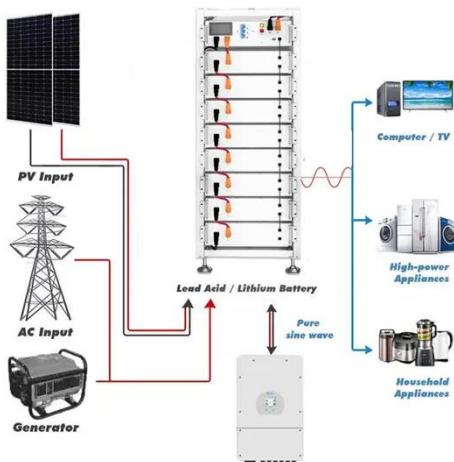


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Implications of Federal Policy Changes on the U.S. Distributed Solar

As the United States grapples with shifting political winds, developers in the distributed solar and storage market are facing a potential policy storm.

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Solar power in the United States

Solar power in the United States Solar panels on a rooftop in New York City Community solar farm in the town of Wheatland, Wisconsin [1] Solar power includes solar farms as well as local distributed ...

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