

Statistics of distributed photovoltaic and energy storage



Overview

The latest update contains data on roughly 4.5 million individual systems installed through the end of 2024 and provides project-level data covering a wide range of system technical characteristics, installed prices, financing and installer level data, and customer segmentation details. The latest update contains data on roughly 4. The data are compiled from a variety of sources, including utilities, state agencies, local permitting agencies, property assessors, and others. The. Summary: These statistics and charts are created from all interconnected energy storage applications in PG&E, SCE and SDG&E service territories with one entry per interconnection address/project. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. With renewable sources expected to account for the largest share of electricity generation worldwide in the coming decades, energy storage will play a significant role in maintaining the balance between. For solar-plus-storage—the pairing of solar photovoltaic (PV) and energy storage technologies—NLR researchers study and quantify the economic and grid impacts of distributed and utility-scale systems. Much of NLR's current energy storage research is informing solar-plus-storage analysis. Energy. GW = gigawatts; PV = photovoltaics; STEPS = Stated Policies Scenario; NZE = Net Zero Emissions by 2050 Scenario. Hydrogen electrolyzers are not included.

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[Solar-Plus-Storage Analysis , Solar Market Research & Analysis , NLR](#)

Solar-Plus-Storage Analysis For solar-plus-storage--the pairing of solar photovoltaic (PV) and energy storage technologies--NLR researchers study and quantify the economic and grid ...

[Global installed energy storage capacity by ...](#)

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.



[Solar Market Insight Report - SEIA](#)

US Solar Market Insight is a quarterly publication of Wood Mackenzie and the Solar Energy Industries Association (SEIA).



Statistics and Charts

Summary: These statistics and charts are created from all interconnected energy storage applications in PG& E, SCE and SDG& E service territories with one entry per interconnection address/project.



[Solar, battery storage to lead new U.S. generating capacity additions](#)

In 2025, capacity growth from battery storage could set a record as we expect 18.2 GW of utility-scale battery storage to be added to the grid. U.S. battery storage already achieved record growth in 2024 ...

[U.S. Distributed Solar and Storage Data , Energy Analysis Division](#)

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, ...



[Renewable energy statistics 2025](#)

Data was obtained from various sources, including an IRENA questionnaire, official national statistics, industry association reports, consultant reports and news articles.



[Spring 2025 Solar Industry Update](#)

Annual and cumulative solar values assume that China's NEA reports distributed PV in dc terms and utility-scale PV in ac terms. The NEA reported 159 GW of utility -scale PV and 118 GW ...



Global energy storage

Find the latest statistics and facts on energy storage.

Snapshot 2025

Utility-scale PV led global installations, but distributed PV remained strong in key markets including Germany, Türkiye, and Brazil. Curtailment is increasingly prevalent in high-penetration markets, ...



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