

# Energy storage battery project capacity development



## Overview

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Current forecasts indicate that approximately 18 gigawatts of new utility-scale battery storage capacity will come online by the end of 2025, making battery storage the largest annual buildout on record. This rapid growth is being driven by several converging forces. Battery energy storage has become a core component of utility planning, grid reliability, and renewable energy integration. The largest upcoming BESS. This report describes development of an effort to assess Battery Energy Storage System (BESS) performance that the U. Department of Energy (DOE) Federal Energy Management Program (FEMP) and others can employ to evaluate performance of deployed BESS or solar photovoltaic (PV) +BESS systems.

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### 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 ...

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### US battery storage boom extends into 2025; nearly 19 GW under

US developers of large-scale battery storage stations have 18.7 GW of new capacity under construction, according to S& P Global Energy Market Intelligence data, indicating another ...

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### PJM: The next wave of battery energy storage systems

Key Points: Over 4 GW of nameplate battery capacity is likely to join PJM through 71 Fast Lane projects. Most prospective Fast Lane projects will begin commercial operations between 2027 and 2029. ...

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## Battery Energy Storage System

## Evaluation Method

This report describes development of an effort to assess Battery Energy Storage System (BESS) performance that the U.S. Department of Energy (DOE) Federal Energy Management Program ...

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## Top 7 Battery Energy Storage System (BESS) Projects in the USA 2025

Discover the largest battery storage projects in the U.S. for 2025, including Darden, Bellefield, and Swiftsure.

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## Battery storage projects surge as utilities prepare for next grid era

That milestone, combined with hundreds of battery energy storage projects now in planning stages across the country, signals sustained momentum. Current forecasts indicate that ...

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## Battery Energy Storage Roadmap

This EPRI Battery Energy Storage Roadmap charts a path for advancing deployment of safe, reliable, affordable, and clean battery energy storage systems (BESS) that also cultivate

equity, ...

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## U.S. Grid Energy Storage Factsheet

The U.S. has 431 operational battery energy storage projects, 8 using lead-acid, lithium-ion, nickel-based, sodium-based, and flow batteries. 10 These projects totaled 27 GW of rated power in 2024, 8 ...

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## Battery Storage Unlocked: Lessons Learned From Emerging ...

To further peer-learning under the Clean Energy Ministerial's Supercharging Battery Storage Initiative, this report showcases lessons learned and shares best practices for accelerating battery energy ...

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## California's Battery Storage Fleet Continues Record Growth

California has now built one-third of the storage capacity estimated to be needed by 2045 to reach its clean energy goals.

Gov. Newsom also announced today that California is joining the ...

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