

Energy storage project power capacity



Overview

Developers plan to add 24 GW of utility-scale battery storage to the grid this year, compared with a record 15 GW added in 2025. battery storage capacity has grown exponentially over the last five years with more than 40 GW added to the grid during this period.

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[How artificial intelligence can help achieve a clean energy future](#)

A look at how AI can be used to help support the clean energy transition by helping to manage power grid operations, plan infrastructure investments, guide the development of novel

[MIT engineers create an energy-storing supercapacitor from ancient](#)

MIT engineers created a carbon-cement supercapacitor that can store large amounts of energy. Made of just cement, water, and carbon black, the device could form the basis for



[Energy , MIT News , Massachusetts Institute of Technology](#)

Massachusetts Clean Energy Center CEO MBA '12 Emily Reichert highlights the state government's unique approach to fostering and keeping clean energy innovation.

[New facility to accelerate materials solutions for fusion energy](#)

The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam



[Next-generation geothermal energy: Promise, progress, and challenges](#)



[Alliant Energy/Wisconsin Power and Light
Columbia Energy](#)

The addition of energy storage capacity is part of the Energy Blueprint, Alliant Energy's long-term roadmap to expanding generation capacity with an all-of-the-above energy mix including coal, natural

Geothermal energy, a clean, continuous energy source accessible in many locations, has been slow to catch on. Nearly 2,000 years ago, the Romans made extensive use of geothermal



[Study: Fusion energy could play a major role in the global response to](#)

Investigators in the MIT Energy Initiative and the MIT Plasma Science and Fusion Center have found that - depending on its future cost and performance - fusion energy has the potential

Today in Energy

Developers plan to add 24 GW of utility-scale battery storage to the grid this year, compared with a record 15 GW added in 2025. U.S. battery storage capacity has grown



[Minnesota approves Xcel's utility-owned battery program](#)

Xcel will own up to 200 MW of energy storage under the second phase of its Capacity*Connect program. Solar industry groups and others called it a missed opportunity to

[A new approach could fractionate crude oil using](#)

[much less energy](#)

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed for crude oil



[Explained: Generative AI's environmental impact](#)

MIT News explores the environmental and sustainability implications of generative AI technologies and applications.

[MIT Energy Initiative conference spotlights research](#)

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.



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

[Making clean energy investments more successful](#)

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and



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