

Investment in large-scale energy storage projects





Overview

Why is PE investment in battery energy storage growing?

PE investment in battery energy storage systems is surging, fueled by their high return potential and growing energy transition demands. PitchBook data shows that PE investments in energy storage and infrastructure have more than doubled since 2014, reaching \$21.1 billion in 2024 alone.

Should storage projects be funded?

One large missing piece has been funding. Storage projects are risky investments: high costs, uncertain returns, and a limited track record. Only smart, large-scale, low-cost financing can lower those risks and clear the way for a clean future.

Are energy storage technologies the key to reducing energy costs?

Energy storage technologies are also the key to lowering energy costs and integrating more renewable power into our grids, fast. If we can get this right, we can hold on to ever-rising quantities of renewable energy we are already harnessing – from our skies, our seas, and the earth itself. The gap to fill is very wide indeed.

What is energy storage?

Energy storage encompasses an array of technologies that enable energy produced at one time, such as during daylight or windy hours, to be stored for later use. LPO can finance commercially ready projects across storage technologies, including flywheels, mechanical technologies, electrochemical technologies, thermal storage, and chemical storage.

Why is energy storage important?

Energy storage serves important grid functions, including time-shifting energy across hours, days, weeks, or months; regulating grid frequency; and ensuring flexibility to balance supply and demand.



How can storage improve energy resilience?

As the world transitions towards cleaner energy systems, innovative storage solutions are gaining prominence, enabling more efficient use of renewable resources. This growing market encompasses a range of technologies, including batteries, pumped hydro, and thermal storage, each playing a crucial role in enhancing energy resilience.



Investment in large-scale energy storage projects



[China's role in scaling up energy storage investments](#)

The large-scale development of energy storage technologies will address China's flexibility challenge in the power grid, enabling the high penetration of renewable sources. This ...

large-scale energy storage systems: 5 Powerful Benefits in 2025

Discover how large-scale energy storage systems boost grid flexibility, enable renewables, and power a cleaner, reliable future.



The 360 Gigawatts Reason to Boost Finance for Energy Storage ...

One large missing piece has been funding. Storage projects are risky investments: high costs, uncertain returns, and a limited track record. Only smart, large-scale, low-cost ...

Which companies are investing in energy storage projects?

Investment in energy storage projects showcases a pivotal strategy for modernizing energy infrastructure and forging a path toward sustainable practices. The myriad companies ...



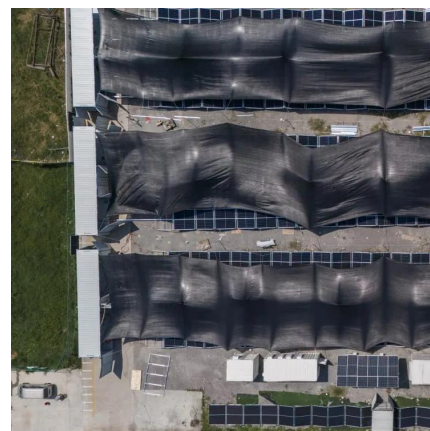
Europe's largest battery storage project secures approval

Netherlands-based developer Giga Storage has obtained the irrevocable permit for the construction of a 600 MW/2,400 MWh battery energy ...



E.ON and Quinbrook to Invest in Large-scale Battery ...

The project supported approximately 130 jobs in the region in 2023 and is expected to create another 140 jobs in 2024. Large-scale storage ...



Investing in the grid: PE's battery storage strategy

PE investment in battery energy storage systems is surging, fueled by their high return potential and growing energy transition demands. PitchBook data shows that PE ...





What is Energy Storage? A Complete Guide , Crux

What is energy storage? Energy storage is one of the fastest-growing parts of the energy sector. The Energy Information Administration (EIA) forecasts that the capacity of utility ...



Top Battery Storage Companies to Watch in 2025

These companies specialize in designing, deploying, and managing large-scale battery energy storage systems, often integrating various battery ...

BYD & SEC: World's Largest Grid-Scale Energy Storage Project

As electro-chemistry-based energy storage solutions gain prominence, this contract reinforces the strategic value of BESS in large-scale energy systems. It reflects growing ...



Locals invited to invest in large-scale Germany BESS ...

Grid-serving battery storage systems make a decisive contribution here: they absorb excess energy and release it again as needed." ...



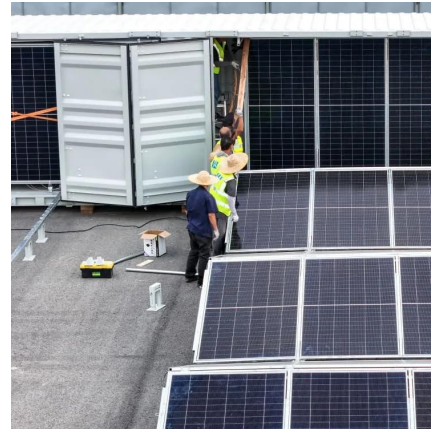
Energy Storage Program

Integrating storage in the electric grid, especially in areas with high energy demand, will allow clean energy to be available when and where it is most ...



Energy Outlook 2025: Energy Storage

The COP29 commitment to increase global energy storage capacity six times above 2022 levels, reaching 1,500 gigawatts by 2030, will require governments to further ...



[Saudi Arabia commissions its largest battery energy ...](#)

Saudi Arabia has officially connected its largest battery energy storage system (BESS) to the grid, marking a significant milestone in the ...



[Investing in the grid: PE's battery storage strategy](#)

PE investment in battery energy storage systems is surging, fueled by their high return potential and growing energy transition demands. ...



Large-scale energy storage business

What& How Building a large storage battery system with reused batteries Beginning more than a decade ago, Sumitomo Corporation was among the first to work on social implementation of ...



[Energy Department Pioneers New Energy Storage ...](#)

The Department of Energy's (DOE) Office of Electricity (OE) is pioneering innovations to advance a 21st century electric grid. A key ...



[E22 builds one of the major storage projects in Europe](#)

This is a time when large-scale projects are beginning to proliferate, especially hybridized with renewables. "Storage specialist ...



ENERGY STORAGE PROJECTS

Accelerated by DOE initiatives, multiple tax credits under the Bipartisan Infrastructure Law and Inflation Reduction Act, and decarbonization goals ...





[large-scale energy storage systems: 5 Powerful ...](#)

Discover how large-scale energy storage systems boost grid flexibility, enable renewables, and power a cleaner, reliable future.



[Biggest projects in the energy storage industry in 2024](#)

Following similar pieces in 2022/23, we look at the biggest energy storage projects, lithium and non-lithium, that we've reported on in 2024.

[Energy Storage Investments - Publications](#)

Estimates indicate that global energy storage installations rose over 75% (measured by MWhs) year over year in 2024 and are expected to go beyond the terawatt-hour ...



5 Large-Scale Clean Energy Projects Announced in Oct; ...

WASHINGTON - Companies in October announced more than \$1.2 billion in investments to build five new large-scale clean energy projects that are expected to create at ...



ENERGY STORAGE PROJECTS

Accelerated by DOE initiatives, multiple tax credits under the Bipartisan Infrastructure Law and Inflation Reduction Act, and decarbonization goals across the public and private sectors, ...



Large-Scale Energy Storage Projects in Poland

The deal supports some of Poland's first large-scale battery storage projects and represents R.Power's first euro-denominated issuance under its PLN 1 billion green bond programme. ...



Big batteries in 2024 - the opportunities and ...

Despite the challenges faced in the energy transition, the development of grid-scale batteries continues to escalate as further revenue ...



Top Battery Storage Companies to Watch in 2025

These companies specialize in designing, deploying, and managing large-scale battery energy storage systems, often integrating various battery technologies to meet specific ...



[NYCEDC Advances Green Economy Action Plan with ...](#)

The facility will serve as a large-scale battery energy storage system capable of charging from, and discharging into, the New York power ...



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