

Energy storage delays grid investment





Overview

Is grid interconnection causing project delays & cancellations?

The Federal Energy Regulatory Commission (FERC) adopted major interconnection reforms in 2023 that have not yet taken effect in most regions; project developers continue to cite grid interconnection as a leading cause of project delays and cancellations.

Could a shortfall in grid infrastructure undermine energy security?

Without greater policy attention and investment, shortfalls in the reach and quality of grid infrastructure could put the goal of limiting global warming to 1.5 °C out of reach and undermine energy security, the report warns.

Is grid interconnection still a bottleneck?

“It is promising to see the unprecedented interest and investment in new energy and storage development across the U.S., but the latest queue data also affirm that grid interconnection remains a persistent bottleneck,” said Joseph Rand, an Energy Policy Researcher at Berkeley Lab, and lead author of the study.

Is grid instability a risk?

For investors, grid instability is a risk, but also an opportunity. Companies like NextEra Energy, Dominion, and Avangrid are investing billions in grid modernization and diversified generation. Avangrid alone plans \$20 billion through 2030 across 23 states. Independent power producers are also benefiting from the shifting landscape.

Why should we invest in grid infrastructures?

Investing in grid infrastructures also brings significant and extensive socioeconomic benefits that are complex to quantify. Upgraded grids can electrify remote communities, empower rural economies, and support distributed access for emerging industries and users, such as electric



transportation, green hydrogen production and data centres.

How big is the energy backlog in 2023?

The backlog of new power generation and energy storage seeking transmission connections across the U.S. grew again in 2023, with nearly 2,600 gigawatts (GW) of generation and storage capacity now actively seeking grid interconnection, according to new research from Lawrence Berkeley National Laboratory (Berkeley Lab).



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Connecting new electric generation and storage is urgently needed to meet this growing demand. Energy storage is particularly well-suited to ...

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1,500GW of Renewables deployment delayed globally because ...

This includes the digitalisation of distribution grids and enabling more flexibility through demand response and energy storage. New scenario: the Grid Delay Case A new ...

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Voltage range: 91.2-947.2V
>6000 cycles (100%DOD)
Rated battery capacity:
216KWH (customizable)
EMS communication:
4G/CAN/RS485

Grid connection backlog grows by 30% in 2023, dominated by ...

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US grid-scale storage hit with delays in Q1 2022, but solar tariff

Slate solar-plus-storage project in California came online in Q1, contributing 561MWh to the record-breaking first quarter grid-scale tally. Image: Goldman Sachs ...



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Overcoming Energy Storage Industry Challenges in 2025

Grid interconnection delays are a major barrier to energy storage deployment. In the UK, for example, over 700 GW of renewable and storage ...

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UK prioritises clean energy projects in new grid ...

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Grid-scale powers record US energy storage installs despite ...

Led by grid-scale, US energy storage installations surged 35% to a record 2.35GW in the third quarter despite widespread project development delays caused by a tight skilled ...

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MPs to be told grid delays are descending into farce

Accordingly, distribution network operators (DNOs), which sit between the high-voltage transmission grid and consumers, are under ...

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A new scenario developed for the report, the Grid Delay Case, examines what would happen if grid investment is not scaled up quickly enough and regulatory reforms for ...

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Lack of ambition and attention risks making electricity grids the ...

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Spain , The Power Grid, the Overlooked Cornerstone ...

The concentration of wind and solar in specific regions necessitates improved grid connections to prevent bottlenecks and ensure ...

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7 Energy Storage Stocks to Invest In , Investing , U.S. News

Energy storage systems are increasingly in demand to increase the effectiveness of solar power arrays, with the Energy Information Administration estimating in February that new ...

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India Energy Storage Sector: India to boost energy ...

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Industrial energy communities: Energy storage investment, grid ...

Our results show that thermal energy storage is the most favourable storage option, due to lower investment costs than battery energy storage systems. Furthermore, we find that ...

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Grid and storage readiness is key to accelerating the energy ...

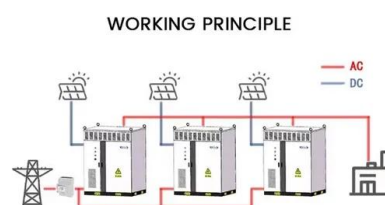
Urgent actions must be taken to avoid lagging grid infrastructures, which would delay the energy transition. The tripling renewable power capacity target by 2030 makes ...

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2025 Interconnection Queue: How EPCs Beat Grid Delays

The U.S. interconnection queue has reached a critical bottleneck in 2025, with over 2.6 terawatts of generation and storage capacity actively seeking grid connection.

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Overcoming Energy Storage Industry Challenges in 2025

Grid interconnection delays are a major barrier to energy storage deployment. In the UK, for example, over 700 GW of renewable and storage projects are stuck in connection ...

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