

## **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).



#### **Energy storage delays grid investment**



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

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

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

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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 ...





Overcoming Energy Storage Industry Challenges in 2025

energy storage deployment. In the UK, for

Grid interconnection delays are a major barrier to

example, over 700 GW of renewable and storage



## UK prioritises clean energy projects in new grid ...

The UK is changing its electricity grid connection process to prioritise clean energy projects and create billions in private investment These ...

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## Plug, baby, plug: Unlocking Europe's electricity mark

Europe's electricity infrastructure and market design disparities have become major obstacles to the green transition. Delays in grid development have created a backlog of ...



## 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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The recent delays in recommissioning Pacific Gas and Electric (PG& E)'s Elkhorn Battery Energy Storage System (BESS) at Moss Landing have exposed a critical vulnerability ...

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# CAPACES HOLE VENCLE WARRE BACELS FOWER SUPPLES FOWER SUPPLES BASE STATICHERROY FOR ELECTRIC WHEELCHARS BASE STATICHERROY STORAGE SOLAR PRESONT BY SAV ARY OFF-ORD APPLICATIONS

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

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 ...



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

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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## 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 ...

New Delhi: India's energy storage sector is set to grow by over 12 times to 60 GW by FY32, driven by a massive increase in variable renewable ...



#### 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.

# WORKING PRINCIPLE

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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 ...



### <u>Is The U.S. Headed For A Power Grid</u> Crisis?

4 days ago. America's power grid faces rising demand, retiring baseload, and policy delays. Can utilities, investors, and tech solutions keep the lights on?

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#### **Backup power for Europe**

Battery Energy Storage Systems (BESS) are key to integrating variable renewable energy sources like solar and wind. This report examines the factors influencing BESS ...

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Grid expansion and modernization, Deloitte Insights A US\$14.3 trillion shortfall in global grid investment is expected by 2050, with an annual global grid infrastructure (transmission and ...

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## Grid-scale powers record US energy storage installs despite project delays

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 ...



#### America's Grid is Nearing Its Breaking Point

15 hours ago. Despite challenges, the situation presents investment opportunities in grid modernization, diversified generation, and solutions for energy storage and load management.

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#### Energy storage delays grid upgrade and expansion

This includes investment, increasing subsidies, rising rewards for storage by renewable energy, planning, expansion of the technological innovation, and promoting investment in renewable ...

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#### **Grid Stability at Risk: Tech** Investment Must Catch Up with ...

As global investments in renewable energy sources like solar and wind continue to grow, so does the risk of power outages. Both globally and locally, such as areas of California ...

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#### The Evolving Grid: Integrating Renewables and ...

March 11, 2025 The Evolving Grid: Integrating Renewables and Supporting Future Demand As renewable energy generation expands, the need for a ...



## 2025 Interconnection Queue: How EPCs Beat Grid ...

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 ...

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