

PDEOZE PowerContainer

Grid-side energy storage has been halted



Overview

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.

What's going on with the aging power grid?

The grid is strained by increasing demand from electricity-hungry data centers and electric vehicles, disruptions due to severe weather events, and more. The Federal Energy Regulatory Commission recently issued a sweeping reform to transmission grid planning in an effort to improve the nation's aging power grid. (Photo by Joe Raedle/Getty Images).

Why is the grid so slow?

Jurisdiction is a big part of the problem. Regional transmission operators manage the grid but don't own generation or lines. Utilities do, while states control siting and permitting. The result is a patchwork that slows progress.

Are competitive generators a winner in a strained grid environment?

That dynamic could make competitive generators an overlooked winner in a strained grid environment. Firms like Fluence, Stem Inc., and Tesla Energy are seeing growing demand for storage and microgrid solutions. Pilot programs backed by DOE may open new markets for software-driven load management.

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The Illinois House of Representatives passed a bill on Oct. 29 that would help build 3 GW of utility-scale battery storage in the state, according to WAND. By incentivizing new ...

The DOE study team built the methodology and analysis upon the best data that was available. However, entities responsible for the maintenance and operation of the grid have access to a ...

As project developers scramble to adapt, one thing's clear: the era of "build first, ask questions later" in energy storage is officially over. The projects that survive this shakeout will likely set ...

That includes investments in grid modernization, energy storage and efforts to protect communities from outages during extreme weather and cyberattacks.

Clean energy manufacturers canceled, closed or downsized nearly \$8 billion in projects in the first quarter of 2025, as the Trump administration's rollback of support for the sector sets in.

Wind and solar power generators in Europe are being forced to halt production at rising rates, as power grids and battery storage systems struggle to keep up with the influx of ...

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U.S. grid-scale energy storage installations dropped in the first quarter of 2023 due to supply chain issues and interconnection queue backlogs, a report by the American Clean ...

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Beyond the supply-demand imbalance, the grid faces mounting risks. Heatwaves, wildfires, and storms are stressing transmission systems nationwide. Events once considered ...

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DEBA aims to provide incentives for the construction and enhancement of cleaner, more efficient distributed energy assets. To date, no DEBA funds have been used for demand

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