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# Energy Storage and the Grid

## New Mexico Water and Natural Resources Committee

Ellen Howard Kutzer, Western Government Affairs Director

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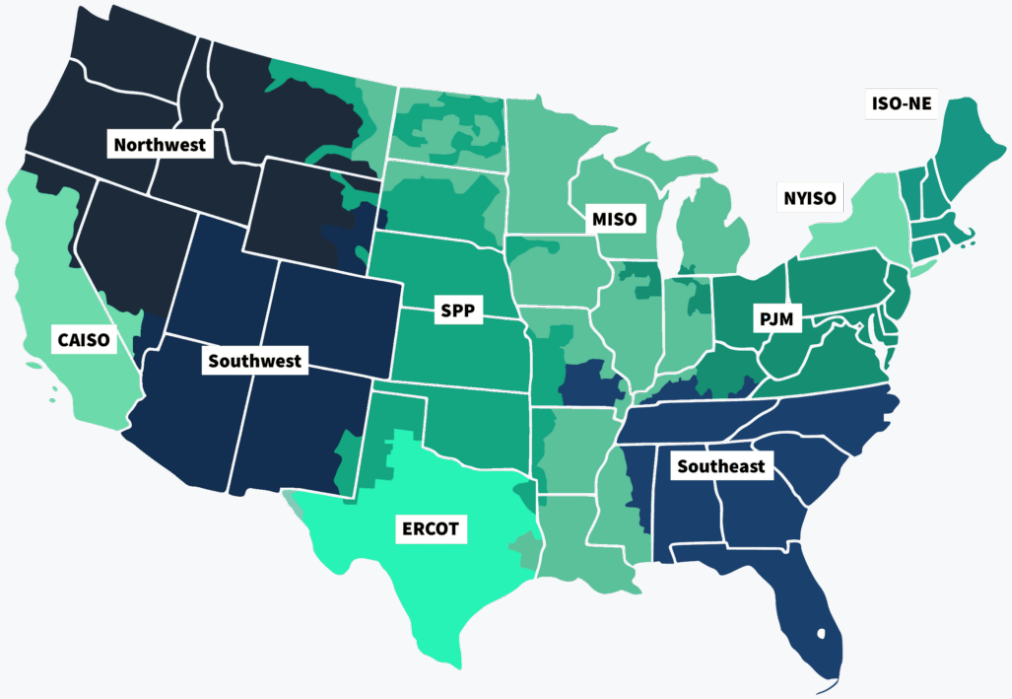
Storage made strategic

WHO WE ARE

# A Pioneer in U.S. Energy Storage

Jupiter Power builds and operates safe, reliable standalone battery energy storage projects that help make the electric grid more responsive and resilient. Founded in 2017, we were among the first companies dedicated entirely to standalone energy storage — and today we operate one of the largest stand-alone portfolios in the United States.




## 20 Projects, 7GWh

Operating and in construction across U.S. with zero recordable safety or environmental incidents

## Trusted partner

Proven counterparty to communities, major public & private utilities and Tier I BESS manufacturers

## Storage expertise

200 professionals and 10 years experience in every aspect of energy storage

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# How Does Battery Energy Storage Work?

1. A battery storage facility is connected to the regional electric grid via a strategically located electric substation.

2. The batteries charge from the electric grid, and the various power sources supplying the grid at the time.

3. The batteries discharge when power is needed on the electric grid via the same substation.


### Where does the energy come from?

Rather than being tied to one single source of energy, Jupiter's batteries charge from the grid — utilizing the full mix of resources available on the system.

### Where does the energy go?

Jupiter sends power directly back onto the grid when needed — during high demand, when other generating sources are offline or at low production, or when the grid operator calls on batteries to perform.

HOW IT WORKS

# Lithium-ion Battery Energy Storage Systems

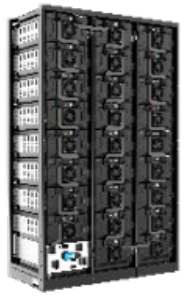
## 1 CELL

*Basic unit of a battery*

## 2 MODULE

*Collection of interconnected cells*

## 3 RACK



*Collection of interconnected modules*

## 4 CONTAINER

*Pre-fabricated, factory-tested unit*

## 5 PROJECT

*Network of interconnected containers*

Battery energy storage systems are built up in layers — from battery cells all the way to full grid-connected projects

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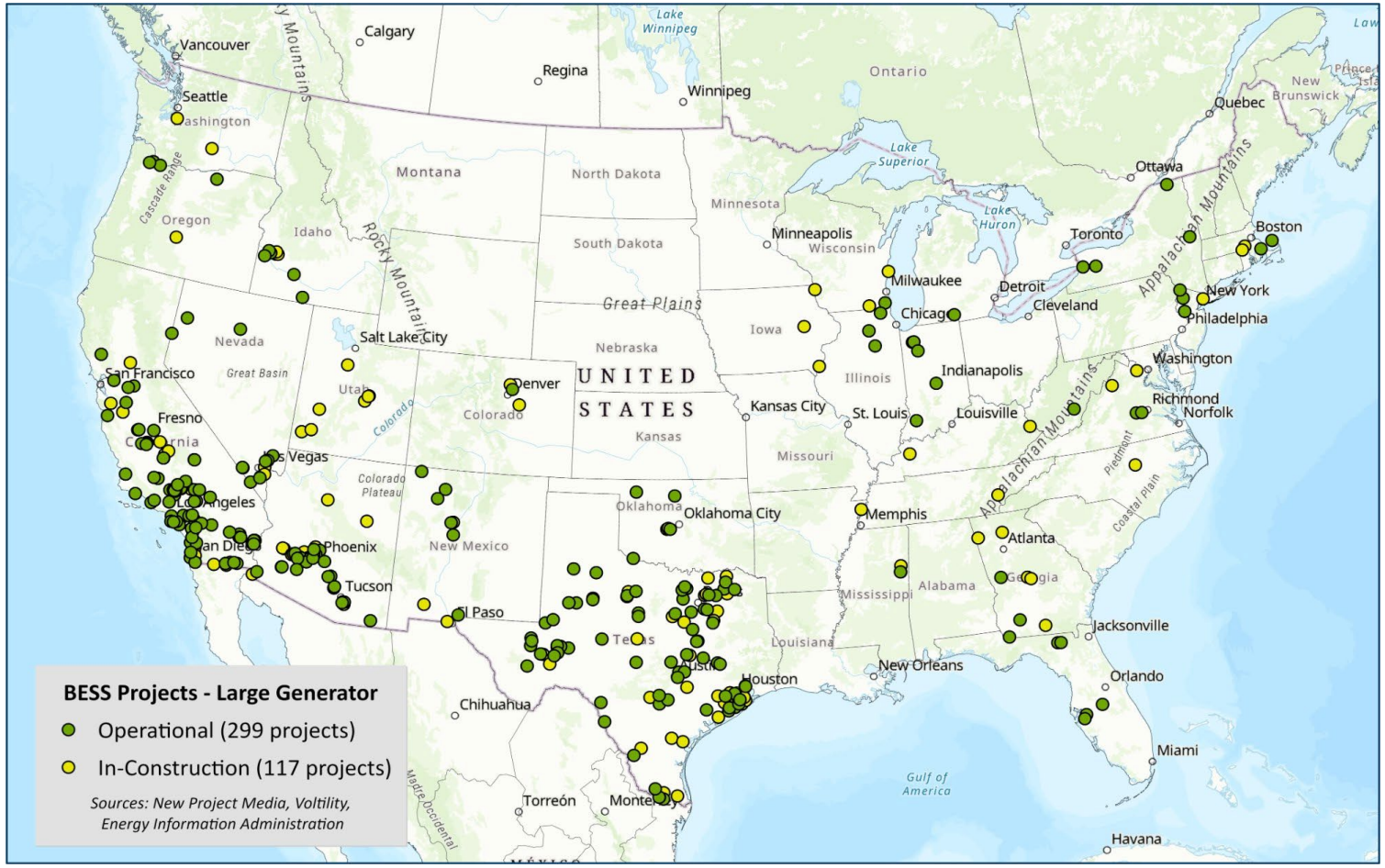
# Lithium-ion Battery Storage on the Grid Today

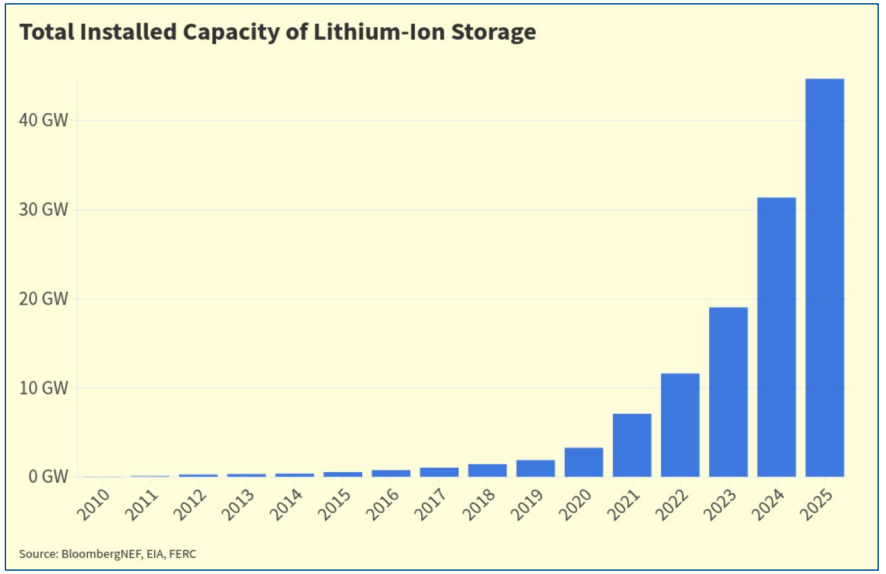
**299**
Operational BESS (20+ MW)

**117**
Under construction

**44,000+ MW**
Total installed capacity

**100 MW**
Average operating BESS




At the end of 2025, there were 299 large generator (20+ MW) operational BESS and 117 BESS in construction, with over 44,000 MW total installed capacity of lithium-ion BESS in the United States. The average operating BESS has a capacity of 100 MW.

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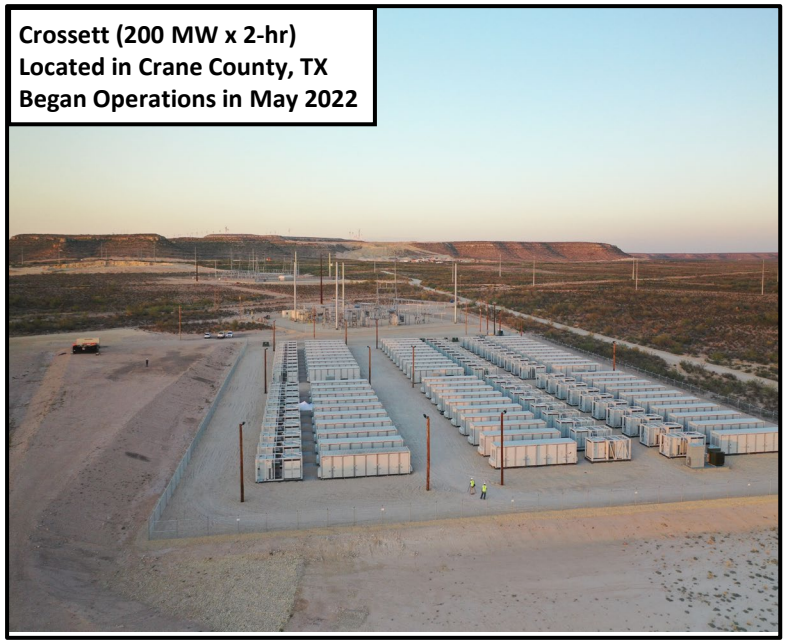
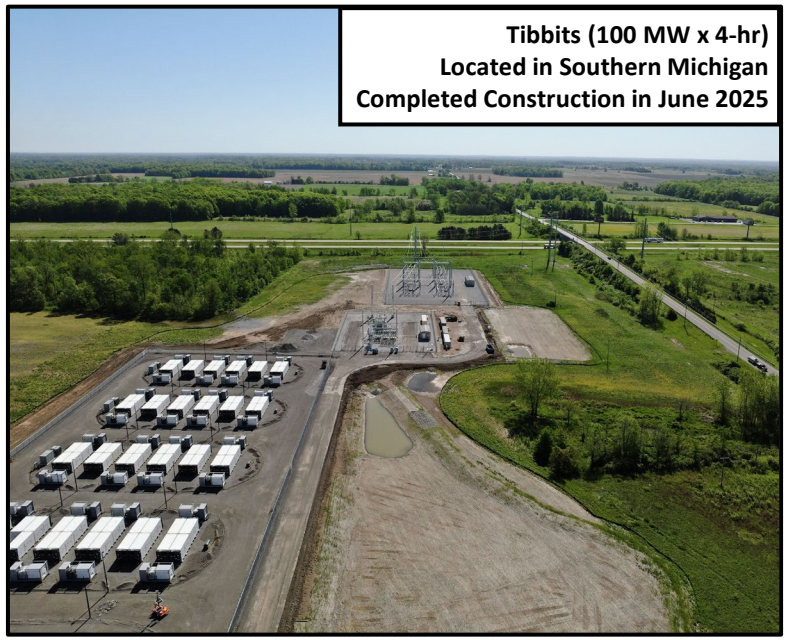
# Some Examples of BESS projects in operation

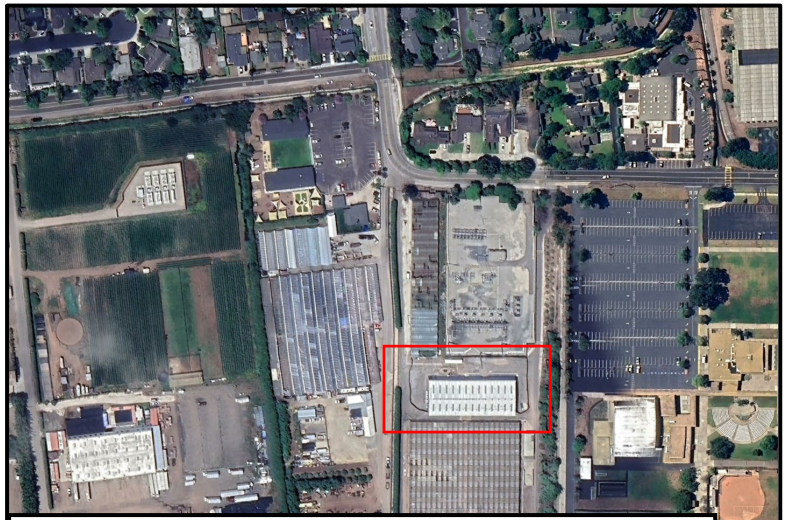




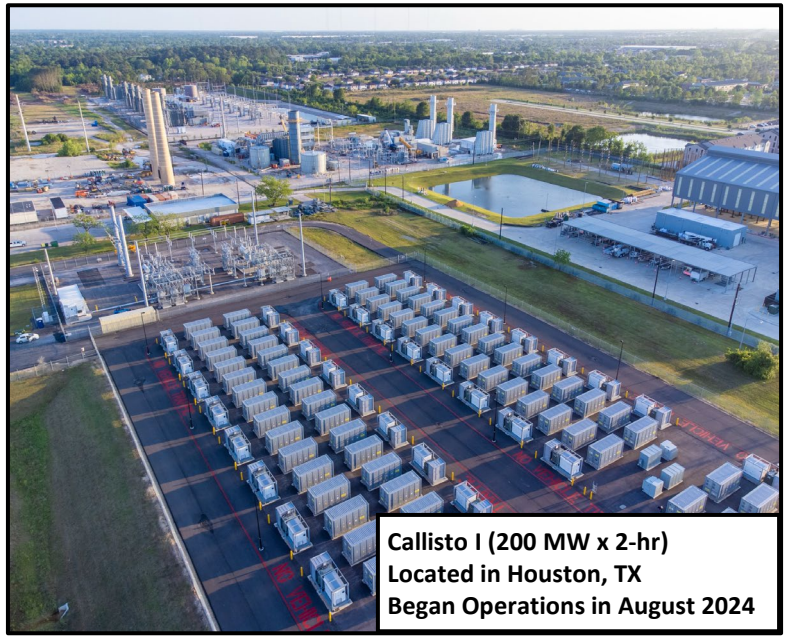
Crossett (200 MW x 2-hr)
Located in Crane County, TX
Began Operations in May 2022



Tibbits (100 MW x 4-hr)
Located in Southern Michigan
Completed Construction in June 2025



Painter I (10 MW x 2-hr)
Located in the Santa Barabara, CA metro
Began Operations June 2026



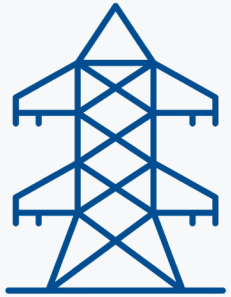
Callisto I (200 MW x 2-hr)
Located in Houston, TX
Began Operations in August 2024

# Reliable & Cost-Effective Infrastructure

## Reliable & Fast-Acting

- ✓ Batteries provide reliable, flexible support to the grid by storing electricity & delivering it when it's needed most.
- ✓ Batteries can respond within fractions of a second to stabilize the electric grid when the system is stressed.

## Supporting Infrastructure



- ✓ Electricity demand varies hourly, daily, and seasonally. Renewable energy resources are also highly variable. Batteries support variations in both supply and demand.
- ✓ Batteries can avoid and defer costly transmission & generation upgrades.

## Consumer Cost Savings

- ✓ With electricity demand rising, batteries create additional supply on the grid and help keep costs down.
- ✓ By storing energy when electricity is abundant and cheap, and releasing it during peak demand, batteries reduce overall costs.



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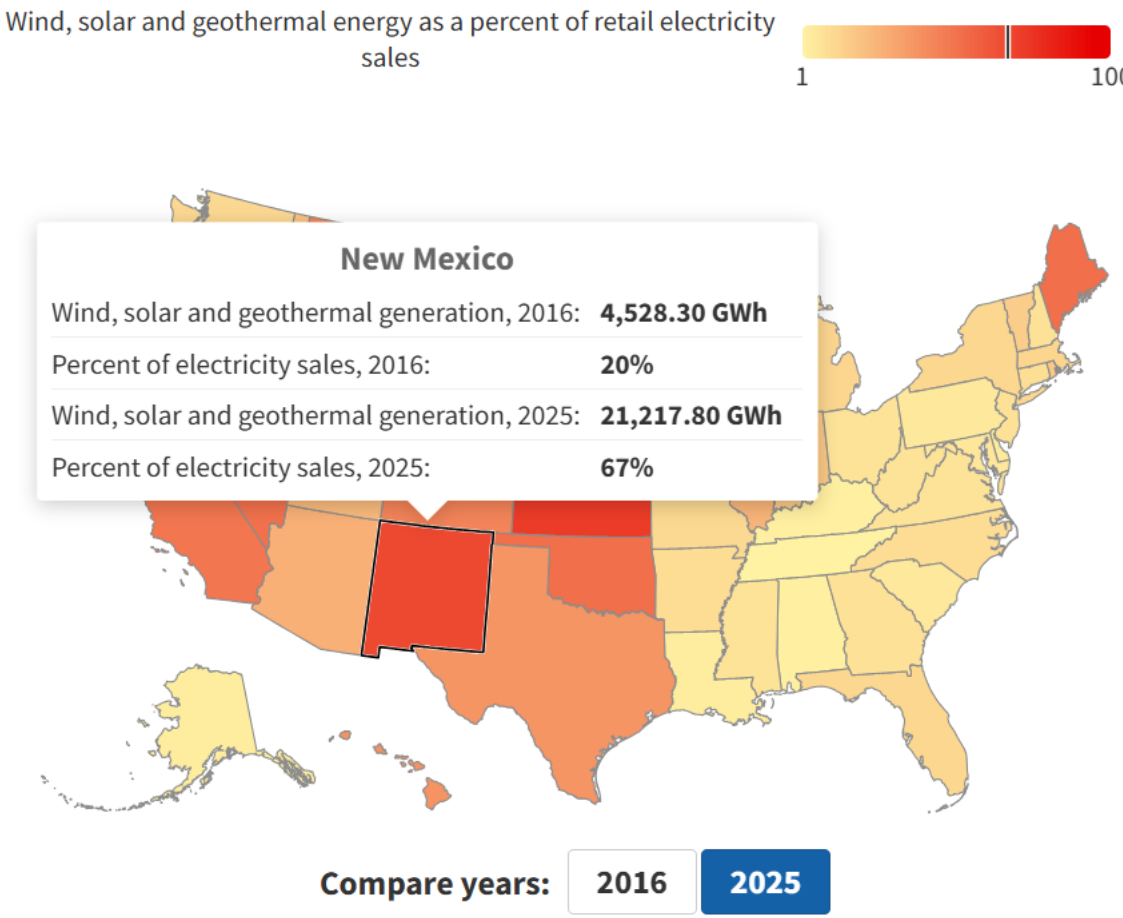
# Energy Transition Act – Driving Renewables

## How much of our electricity comes from renewables?




New Mexico now ranks 10th for wind generation and 14th for Solar Generation in 2025, getting more than 2/3 of its energy from renewable resources.

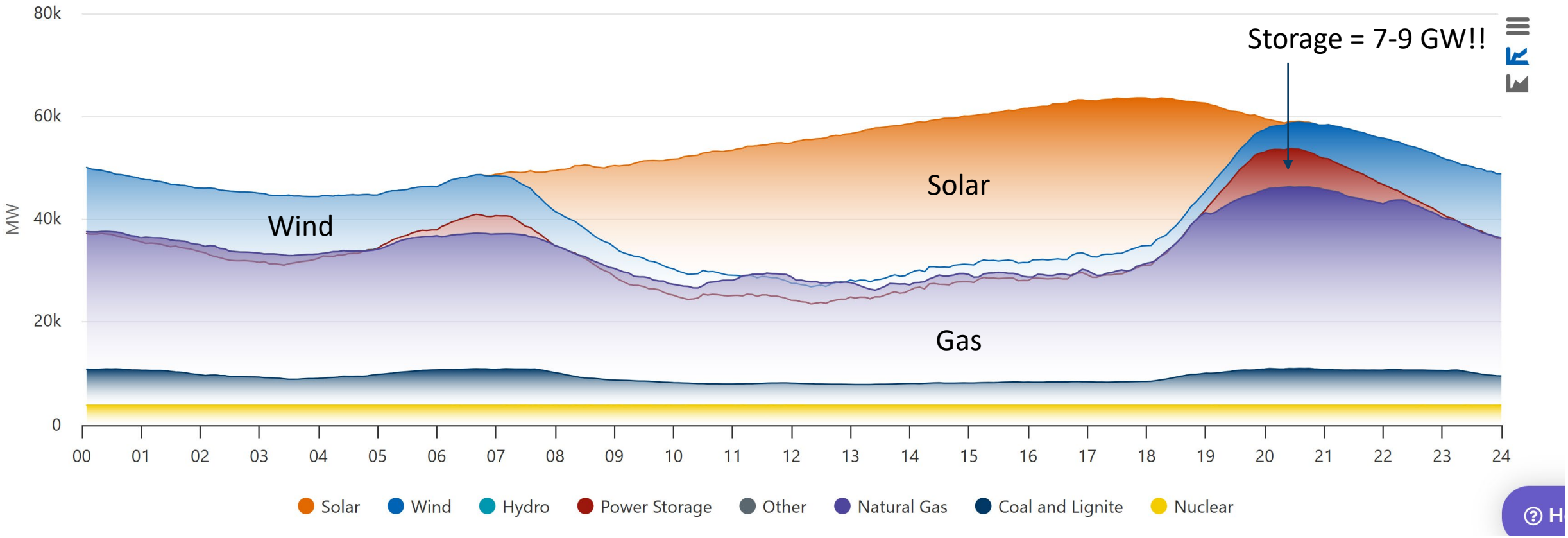
Storage can help solve for the variability of wind and solar to deliver clean electricity when these resources aren't generating.

*Source:* Environment New Mexico State of Renewable Energy Dashboard, *https://environmentamerica.org/newmexico/center/resources/the-state-of-renewable-energy-dashboard/*

# ERCOT 5/11/26



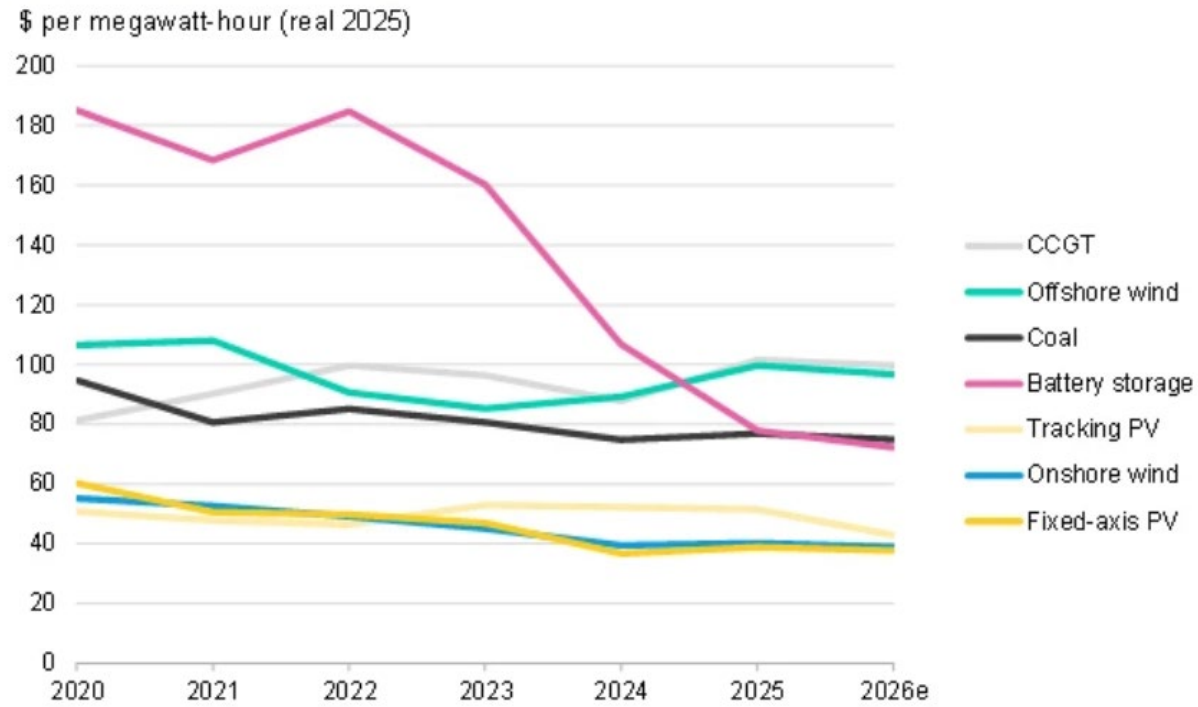
Last Updated: May 12, 2026 23:16 CT




Source: ERCOT https://www.ercot.com/gridmktinfo/dashboards/fuelmix

# Battery Storage – Increasingly Affordable

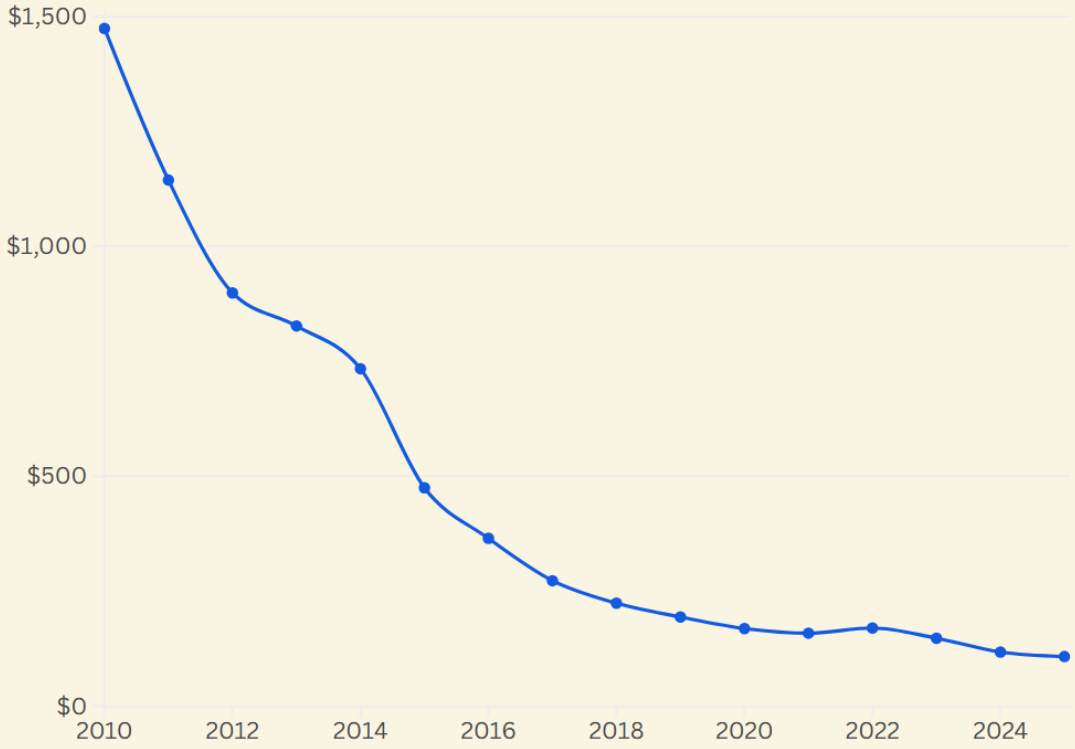
**Figure 1: Global benchmark levelized cost of electricity, 2020-2026**




*Source: BloombergNEF. Note: Global benchmarks are capacity-weighted averages using the latest market estimates. Offshore wind includes offshore transmission costs. Carbon pricing is included where policies are already active. Subsidies and tax credits are excluded. Levelized cost of electricity (LCOE) shown by financing date. CCGT is combined-cycle gas turbine, PV is photovoltaic solar.*

## Batteries keep on getting cheaper

Average lithium-ion battery pack price, in kilowatt-hours




Source: BloombergNEF, 2025 • Chart by Canary Media

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# Energy Storage and Just Transition

Construction of BESS projects on or near retiring fossil fuel plants can help ensure a just transition for communities:

- Woods Landing, New Jersey: Project will create 100+ local construction jobs and a handful of permanent maintenance jobs.
- Spruce Summit, Colorado: Tax revenue from the project will provide nearly 1/3 of lost revenue from the retiring Hayden Station coal-fired power plant.


**Before**


**After**

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# Storage made strategic