



National energy storage policy release time

What is the future of energy storage?

But measuring the value of energy storage is inherently complex--and future systems will likely include multiple storage technologies, adding new complexity. To answer the big questions around the role of storage in our future grid, the National Renewable Energy Laboratory (NREL) has launched the multiyear Storage Futures Study (SFS).

What are the different types of energy storage policy?

Approximately 16 states have adopted some form of energy storage policy, which broadly fall into the following categories: procurement targets, regulatory adaptation, demonstration programs, financial incentives, and consumer protections. Below we give an overview of each of these energy storage policy categories.

What is the final phase of NREL's vision for storage deployment?

The final phase of NREL's vision for storage deployment introduces seasonal storage, driven by the seasonal mismatch of variable resource supply and demand, particularly in a deep-decarbonization future that relies heavily on renewable resources.

Why is energy storage important?

Energy storage is essential to enabling utilities and grid operators to effectively adopt and utilize the nation's growing portfolio of clean energy resources, like solar and wind, on demand. However, today's energy storage technologies are not sufficiently scaled or affordable to support the broad use of renewable energy on the grid.

Why do we need reliable energy storage systems?

"As we build our clean energy future, reliable energy storage systems will play a key role in protecting communities by providing dependable sources of electricity when and where it's needed most, particularly in the aftermath of extreme weather events or natural disasters," said U.S. Secretary of Energy Jennifer M. Granholm.

Is energy storage cost-competitive?

The Storage Futures Study considers when and where a wide range of storage technologies are cost-competitive, depending on how they are operated and what services they provide for the grid. With declining costs, improved technologies, and increasing deployment, energy storage is poised to become a growing part of the evolving U.S. power system.

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