



# New Energy Storage Demonstration Zone

What is a long-duration energy storage demonstration program?

Long-Duration Energy Storage Demonstrations Program: These projects will help effectively demonstrate the commercial viability of innovative LDES technologies and facilitate wider commercial adoption.

How can energy storage technology improve resiliency?

This FOA supports large-scale demonstration and deployment of storage technologies that will provide resiliency to critical facilities and infrastructure. Projects will show the ability of energy storage technologies to provide dependable supply of energy as back up generation during a grid outage or other emergency event.

Could solid-state storage help accelerate the transition to a net-zero emissions economy?

The project also aims to identify the most beneficial uses of solid-state storage of clean renewable hydrogen. At scale, this technology could help accelerate the transition to a net-zero emissions economy by increasing the availability of resilient, on-site renewable power generation and storage.

What is the energy storage demonstration and pilot grant program?

The Energy Storage Demonstration and Pilot Grant Program is designed to enter into agreements to carry out 3 energy storage system demonstration projects. Technology Developers, Industry, State and Local Governments, Tribal Organizations, Community Based Organizations, National Laboratories, Universities, and Utilities.

What is long-duration energy storage (LDES)?

The Long-Duration Energy Storage (LDES) portfolio will validate new energy storage technologies and enhance the capabilities of customers and communities to integrate grid storage more effectively. DOE defines LDES as storage systems capable of delivering electricity for 10 or more hours in duration. [Learn more.](#)

How can pre-production storage system design improve manufacturing scale-up?

Identifying and implementing design innovations will align pre-production storage system design to set the stage for manufacturing scale up and improved production of cost-effective, safe, and reliable short-, medium-, and long-duration storage technologies. [New Report Showcases Innovation to Advance Long Duration Energy Storage \(LDES\):](#)

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