

LDES and Advanced Demand Efficiency: CFTI Demonstrated Successes in the 117th Congress

Demonstration

- \$355 million appropriated for FY2022-2025 to fund at least three energy storage system demonstration projects, including at least one project designed to develop discharge energy for 10 to 100 hours or have seasonal variation capability of energy supply and demand.
- \$150 million for Long Duration Energy Storage (LDES) including the joint program between DOE and DOD, to ensure a range of technology types, regional diversity, and various applications both in front of and behind the meter.
- Allocated
 - \$349 million for Long-Duration Energy Storage (LDES) demonstration projects, targeting eleven 10-24 hour or longer duration projects. Projects will be expected to carry out meaningful community and labor engagement; invest in America's workforce by creating well-paying jobs with the free and fair choice to join a union; advance diversity, equity, inclusion, and accessibility; and contribute to the President's Justice40 Initiative goal that 40% of the overall benefits of certain federal investments, including those in climate change, clean energy and energy efficiency, flow to disadvantaged communities.
 - \$30 million for LDES demonstration projects at the National Labs.

Infrastructure:

- \$3 billion for Smart Grid Investment Matching Grant Program, which may include energy storage.

Research and Development

- Energy Information Agency to update the capabilities of NEMS including:
 - Economic modeling of electricity storage roe,
 - Modeling wholesale market design and valuation of services that support the electric grid reliability, including battery storage.
 - Tools to model energy systems that produce hydrogen.
- Energy storage study to identify barriers, foster collaboration, increase conformity and support safe implementation related to use of emerging energy storage technologies.

Deployment

- Standalone energy storage system eligible for the 30% investment tax credit, and up to 70% with additional incentives.
- Energy storage technologies included under the Investment Tax credit including enhancements for domestic content and energy community investments.
- Advanced manufacturing tax credit for energy storage battery cells and modules.