



THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS



Working Lunch: Upcoming DOE Storage FOAs and Opportunities
2024 Energy Storage Grand Challenge Summit
August 9, 2024

Office of Clean Energy Demonstrations
U.S. Department of Energy

Disclaimer

Only publicly available information provided in the OCED Notice of Intent (NOI) is discussed in this presentation.

Attending the presentation is completely voluntary and will not impact an applicant's selection.

This presentation is not a rule or regulation. If there are any inconsistencies between the NOI and the statements in this presentation, the NOI is the controlling document.



OCED's Long-Duration Energy Storage Demonstrations Program



Notice of Intent to Issue
New LDES Funding Opportunity!



Resources



OCED Mission & Mandate



Deliver clean energy technology **demonstration projects at scale** in partnership with the **private sector** to **accelerate deployment**, **market adoption**, and the **equitable transition** to a decarbonized energy system.”



SCALE EQUITABLE, CLEAN ENERGY

Help enable 100% clean electricity by 2035 & net-zero emissions by 2050 through an equitable energy transition



UNLOCK NEW INVESTMENT

Unlock and scale trillion-dollar clean energy follow on investment from the private sector and other sources of capital



DE-RISK TECHNOLOGY

Maintain risk-based, balanced, and defensible portfolio of investments



PROVIDE PROJECT OVERSIGHT

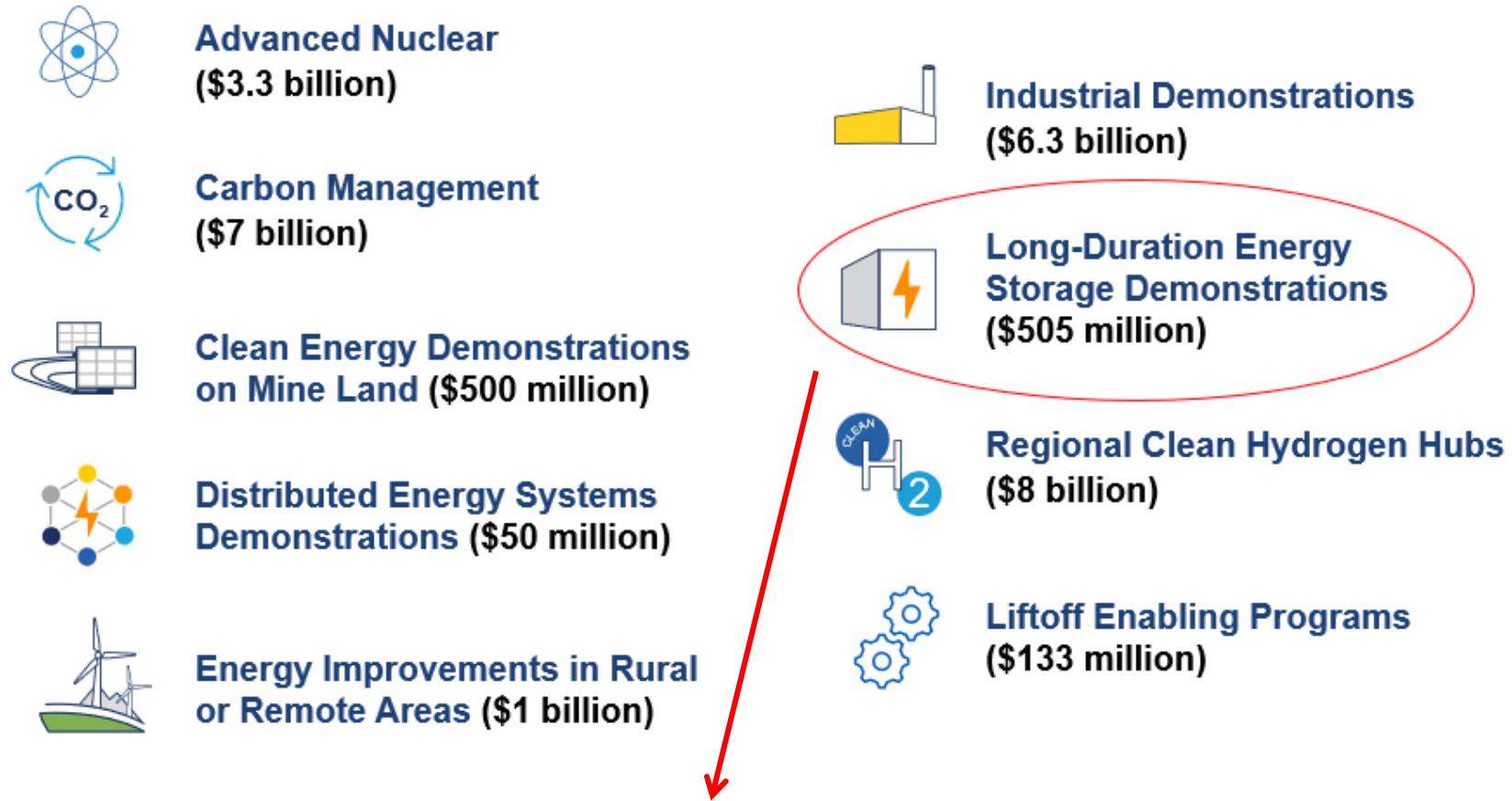
Serve as primary DOE office to deliver full scale clean energy demonstration projects and project management oversight excellence



ENGAGE & COLLABORATE

Leverage private sector and broader energy ecosystem to inform OCED and DOE technology commercialization efforts

OCED Scope



Long-Duration Energy Storage Demonstrations

Up to \$325 million announced for Demonstration Projects and Lab Calls

- In September 2023, OCED announced demonstration projects selected for award negotiations.
- OCED has since awarded 7 of 9 demonstration projects and 5 Lab Call projects.



Notice of Intent to Issue Energy Storage Pilot Demonstrations

Notice of Funding Opportunity (NOFO)
Number: DE-NOFO-0003399

OCED intends to issue a new LDES funding opportunity, to support **pilot-scale demonstrations** for **non-lithium, long-duration energy storage** solutions that:

- Advance technical maturity
- Reduce uncertainty in cost and performance characteristics
- Generate operational datasets and techno-economic models
- Increase investor and end-user confidence in technical and commercial maturation pathways and timelines

Anticipated Program Scope and Characteristics

Total DOE Funding: Up to \$100M

Project Funding: \$5M – \$20M DOE share

OCED anticipates funding will support technology maturation activities including design for manufacturability, pilot system development, fabrication and installation, operational testing and validation, and commercial scale system design and supply chain maturation.

Minimum Cost Share: 50%

Project Count: 3-15

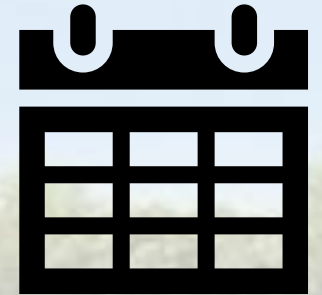
Eligible Locations: Industrial facility, grid-connected utility site, a utility testbed or laboratory testbed.

Technology: Non-lithium technologies, long-duration (10+ hour discharge) systems, and stationary storage applications. OCED will define a minimum system capacity by technology area (i.e., electrochemical, thermal, and mechanical) and a minimum discharge duration.

Teams: DOE anticipates providing awards to teams that are led by a single entity. Teams to include a technology provider as a prime or sub-recipient and encourages inclusion of utilities, facility owner/operators, developers, financiers and others that support a clear path to commercial adoption.

Time Application Process/ Timeline

The NOFO may require concept papers.



DOE anticipates releasing a funding solicitation in late summer / early fall.

OCED intends to announce selections in mid-2025.

Selection Criteria

Selection Criterion
Technical Approach and Impact
Financial and Market Viability
Management and Organization
Workplan
Community Benefits Plan

Projects should:

- Demonstrate reliable, repeatable technology performance at pilot scale.
- Generate high-fidelity operational data sets.
- Produce high-confidence techno-economic models and cost-down projections.
- Refine and optimize system designs for commercial deployments.
- Establish robust and resilient supply chains.
- Establish partnerships with end-users and financiers for future projects

Prioritizing Community Benefits in OCED Projects

OCED **requires** applicants to include a Community Benefits Plan to help ensure broadly shared prosperity in the clean energy transition.

By **prioritizing community benefits**, we can ensure the next chapter in America's energy story is marked by greater justice, equity, security, and resilience.

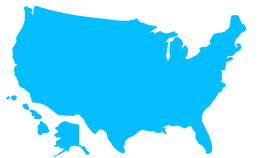
Community & Labor Engagement



Diversity, Equity, Inclusion, & Accessibility



Investing in the American Workforce



Justice40 Initiative





Thank you!

For more information

- [Notice of Intent](#)
- [Press Release](#)
- [Long Duration Energy Storage Pathways to Commercial Liftoff Report](#)
- [Required Registrations](#) (under “How to Apply”)
- [OCED LDES Webpage](#)
- Reach out at any time to OCED_LDES@hq.doe.gov

Thank you!

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OCED
Office of Clean Energy Demonstrations

For more information, please contact oced@hq.doe.gov

Two New DOE LDES Funding Opportunities



Overarching Goal: Validate new energy storage technologies and enhance the capabilities of customers and communities to integrate grid storage more effectively.

	LDES Pilot Demonstrations NOI	RD&D Energy Storage Demonstrations FOA
Leading Office	Office of Clean Energy Demonstrations	Office of Electricity
Eligibility	State energy office, Indian Tribes, Tribal organizations, Institution of higher education, Electric utilities, Private energy storage companies. Teams must include at least one technology provider as a prime or a sub-recipient.	Teams consisting of partnerships between storage technology providers, beneficiary organizations, and resiliency analytics partners are required.
Overview	Pilot-scale demonstrations for non-lithium, LDES solutions that advance technical maturity, reduce uncertainty in cost and performance characteristics, generate operational datasets, and increase investor and end-user confidence in technical and commercial maturation pathways and timelines.	Research, development, and demonstration projects to facilitate large-scale demonstration of innovative storage technologies that support energy resiliency needs.
Anticipated Project Number	3-15	3
Available Funding	Up to \$100 million	Up to \$15 million
Funding Mechanism	Cooperative Agreement	Cooperative Agreement