



LDES NATIONAL CONSORTIUM

Overview



The National Consortium for the Advancement of Long Duration Energy Storage Technologies

The drive toward a rapid transition to variable renewable energy (VRE) and away from traditional fossil-fuel generation has been dramatically bolstered with the US adoption of aggressive clean-energy goals. As the penetration of VREs increases, this will dramatically change electric grid operations and require increasing levels of energy storage systems, particularly long-duration energy storage (LDES). Despite a growing realization of the need for LDES technologies that will continue to accelerate over the next decade, multiple challenges continue to impede a smooth pathway toward widespread commercialization and deployment.

The **LDES National Consortium** provides a forum through which stakeholders across the LDES ecosystem can convene to identify barriers, determine potential synergies, and collaboratively develop and implement strategies necessary to achieve LDES technology commercialization within the next decade.

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The LDES National Consortium has a clear focus on developing commercialization strategies for a **full range of diverse LDES technologies**. Collectively, these strategies will enable diverse stakeholders to introduce a greater number of LDES technologies, products, and applications to a wider range of markets, faster than has previously been possible. One of the most significant outcomes of the LDES National Consortium will be a **set of recommendations to frame multiple pathways to achieve LDES commercialization** over the next decade that address topics such as products, projects, economics, financing, and policies, including equity recommendations.

Deliverables include:

- Comprehensive set of commercialization recommendations submitted to appropriate entities for implementation
- LDES Demonstrations & Deployments Tracking System
- LDES Technology Maturity Evaluation Framework
- Yearly workshops and outreach activities

To Learn More & Join, Visit

<https://ldesconsortium.sandia.gov/>

All findings of the LDES National Consortium will be publicly available to enhance the public's understanding of LDES and the role it will play in the energy future of the US.



This project is funded by the Infrastructure Investment and Jobs Act, also known as the Bipartisan Infrastructure Law (BIL), as part of the DOE Technology Commercialization Fund (TCF), administered by the Office of Technology Transitions in collaboration with the Office of Clean Energy Demonstrations.



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HOW TO GET INVOLVED!

Teaming Partners

Any U.S. organization that has a stakeholder interest in the commercialization of LDES technologies in the US is welcome to join the LDES National Consortium as a Teaming Partner.

Teaming Partners will play a critical role in this initiative by helping to define the key questions, issues, and outcomes that must be addressed to support the commercialization of LDES technologies. As a Teaming Partner, you will have the opportunity to share your perspective and expertise to inform the activities of the LDES National Consortium. Additionally, you will be invited to attend events to network and identify potential partnership across the LDES ecosystem.

**Currently
150+
Teaming
Partners!**



Tiger Teams

Tiger Teams, populated by Teaming Partners, are break-out groups assigned to identify and evaluate challenges in specific focus areas impacting LDES and publish industry recommendations that can be implemented to address these challenges. Tiger Teams will enable, facilitate, and coalesce collaborative efforts between public and private entities to address the core issues facing LDES commercialization including, but not limited to: investor confidence, technology development, market planning, regulation, project demonstration & deployment, interconnection, standardization, safety, and economic evaluation. Currently, there are 16 diverse Tiger Teams.

Leadership

The LDES National Consortium was formed by Sandia National Laboratories and its five National Laboratory partners (Argonne National Laboratory, Idaho National Laboratory, National Renewable Energy Laboratory, Oak Ridge National Laboratory, and Pacific Northwest National Laboratory). A Leadership Team powered by the knowledge, expertise, and relationships possessed by these National Labs and industry representatives will guide a broad and diverse network of Teaming Partners. The LDES National Consortium will transition from Laboratory-supported/DOE-funded to industry-led ownership after the first three years.