

# Ldes liftoff report



## Overview

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As part of its " Pathways to Commercial Liftoff " initiative, DOE published three reports articulating its vision for the large-scale commercialization of advanced nuclear, clean hydrogen, and long-duration energy storage (LDES) technologies to create high quality domestic jobs.

## Ldes liftoff report

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### [Pathways to Commercial Liftoff: Long Duration Energy Storage](#)

This U.S. Department of Energy (DOE) Pathway to Commercial Liftoff report aims to inform business decision-makers on which types of projects, customers, and policy / regulatory conditions will favor a

### [Pathways to Commercial Liftoff: Long Duration Energy Storage](#)

Assessment identifies, characterizes, and prioritizes key barriers to commercial liftoff for a given technology/sector by providing a common framework to capture industry, investor, and technical



### [Pathways to Commercial Liftoff - Constructive](#)

The U.S. Department of Energy's Pathways to Commercial Liftoff initiative produced a series of reports, available here for download. The reports were developed with extensive input from the industry and

### [Pathways for Commercialization of Clean Energy Technologies DOE](#)

On March 21, 2023, the US Department of Energy (DOE) released a series of reports aimed at advancing President Biden's ambitious goal of achieving a decarbonized electricity sector





### [Liftoff Opportunities Snapshot: Long Duration Energy Storage](#)

The information in this flyer is based on the Pathways to Commercial Liftoff: Long Duration Energy Storage report.



### [Pathways to Commercial Liftoff: Advanced Nuclear](#)

This report uses analysis and stakeholder engagement to identify and evaluate the actions most likely to impede or support acceleration of advanced nuclear commercialization, including what industry,



### **Microsoft PowerPoint**

Comments  
Authors  
Acknowledgements  
Chapter 1: Introduction & Objectives  
Chapter 4: Challenges to Commercialization and Potential Solutions  
Example project 1: Load management services-EV fleet use case  
Example project 3: Transmission and distribution (T&D) deferral  
Appendix 6 - LDES Technology Types  
Section 1.a: Objectives  
This U.S. Department of Energy (DOE) Pathway to Commercial Liftoff report aims to inform business decision-makers on which types of projects, customers, and policy / regulatory conditions will favor a rapid scale-up of Long Duration Energy Storage (LDES) technologies. It relies on both analysis and stakeholder input to summa See more on formenergy Gateway for Accelerated Innovation in Nuclear

### **Pathways to Commercial Liftoff: Advanced Nuclear**

This report uses analysis and stakeholder engagement to identify and evaluate the actions most likely to impede or support acceleration of advanced nuclear commercialization, including

what industry,

## LDES Scoping Report

In the next slides, we provide a summary of winter reliability issues, how LDES is particularly valuable for these events, and the challenges of capturing the value of LDES to support winter reliability.



### [Explore the Liftoff site: Long Duration Energy Storage \(LDES\)](#)

Increase access to integrative modeling tools and valuation frameworks for regulators, ISOs, and commercial customers to evaluate their LDES needs with relation to resource adequacy and reliability

### [The DOE's new "Liftoff" report aims for the stars to scale up nuclear](#)

But to get LDES, hydrogen, and nuclear to liftoff, the technologies will need both public and private investment to drive down costs. The U.S. grid may need roughly 225-460 GW of LDES, the



## Microsoft PowerPoint

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