

# Energy storage commercialization project



## Overview

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As part of the DOE's Rapid Operational Validation Initiative (ROVI), these funded projects will help validate new energy storage technologies more quickly than traditional methods, speeding up the commercialization process.

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[MIT engineers create an energy-storing supercapacitor from ancient](#)

MIT engineers created a carbon-cement supercapacitor that can store large amounts of energy. Made of just cement, water, and carbon black, the device could form the basis for

[A new approach could fractionate crude oil using much less energy](#)

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed for crude oil



[MIT Energy Initiative conference spotlights research](#)

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.

[Energy](#) , [MIT News](#) , [Massachusetts Institute of Technology](#)

Massachusetts Clean Energy Center CEO MBA '12 Emily Reichert highlights the state government's unique approach to fostering and keeping clean energy innovation.



[Study: Fusion energy could play a major role in the global response to](#)

Investigators in the MIT Energy Initiative and the MIT Plasma Science and Fusion Center have found that - depending on its future cost and

performance - fusion energy has the potential

**Explained: Generative AI's environmental impact**

MIT News explores the environmental and sustainability implications of generative AI technologies and applications.



**Energy Storage Research , NLR**

NLR's multidisciplinary research, development, and deployment drives technological innovation and commercialization of integrated

[New facility to accelerate materials solutions for fusion energy](#)

The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam

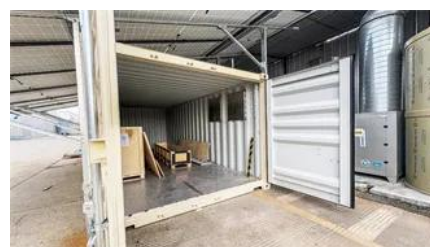


**Making clean energy investments more successful**

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and

[How artificial intelligence can help achieve a clean energy future](#)

A look at how AI can be used to help support the clean energy transition by helping to manage power grid operations, plan infrastructure investments, guide the development of novel





[Next-generation geothermal energy: Promise, progress, and challenges](#)

Geothermal energy, a clean, continuous energy source accessible in many locations, has been slow to catch on. Nearly 2,000 years ago, the Romans made extensive use of geothermal

[DOE Announces Spring 2026 Energy I-Corps Projects Alongside](#)

Selected projects align with DOE priorities to further advancements in artificial intelligence, advanced manufacturing, nuclear energy, long duration energy storage, and more.



[LDES National Consortium - Sandia National Laboratories](#)

The LDES National Consortium provides a forum through which stakeholders across the LDES ecosystem can convene to identify barriers, determine

**Long Duration Energy Storage Program**

The Long Duration Energy Storage (LDES) program invests in projects that accelerate the implementation of long duration energy storage solutions to increase the resiliency and reliability



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