

# Energy Storage System Division



## Overview

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The Division advances research to identify safe, low-cost, and earth-abundant elements for cost-effective long-duration energy storage. OE's development of innovative tools improves storage reliability and safety, analysis, and performance validation.

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### [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.

### [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



### Energy Storage

Our team is advocating for critical laws and forward-thinking policies that are shaping the future of energy storage and securing a more resilient, reliable, and sustainable energy system for

### Energy Storage

The Office of Electricity's (OE) Energy Storage Division accelerates bi-directional electrical energy storage technologies as a key component of the future-ready grid.





## 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

## Giving buildings an "MRI" to make them more energy-efficient and

Founded by a team from MIT, Lamarr.AI utilizes drones, thermal imaging, and AI to identify energy waste and structural issues in buildings and recommend retrofits.



## [Explained: Generative AI's environmental impact](#)

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

## 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



## 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

## **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



## **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

## **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



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