Energy storage commercialization project

Overview

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.

Energy storage commercialization project

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, demonstration, 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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