

Energy storage and new energy for home use



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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



[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

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 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

[Home Energy Storage Systems: A 2026 Guide for Homeowners](#)

In this guide, you'll learn what home energy storage systems are, how they work, what they typically cost, and how to choose the right home battery system for your needs.



[Recent advancement in energy storage technologies and their](#)

Renewable energy integration and decarbonization of world energy systems are made possible by the use of energy storage technologies. As a result, it provides significant benefits with

[Types of Home Battery Storage: Your Complete 2025](#)

In this comprehensive guide, we'll explore the primary types of home battery storage available in 2025, from proven lithium-ion systems to emerging



[Solar Battery Backup for Home . NeoVolta Solar](#)

From residential backup power to scalable commercial systems, NeoVolta delivers reliable,

fire-safe LiFePO4 technology with unmatched performance and

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



[Energy Storage Systems for the Home: Solar and More](#)

With solar panels now commonplace on residential roofs, homeowners are exploring next-level energy technology, specifically Energy

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.



Energy Storage

The Energy Department is developing new technologies that will store renewable energy for use when the wind isn't blowing and the sun isn't shining.

[Home Energy Storage Systems: A Comprehensive](#)

If you're considering upgrading your home's

energy setup, understanding the ins and outs of home energy storage systems is essential.



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.



[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.

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