

Energy-saving new energy solar energy storage



Overview

Researchers at the University of California, Santa Barbara, have made a solar battery that can store and discharge heat energy under sunlight, setting the stage for a new kind of power generation and storage system without panels.

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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.

[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



[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 molecular tech revolutionizes solar heat storage](#)

A new, molecular-scale breakthrough could unlock a new path to long-term solar energy storage for heating homes and providing hot water - without a conventional battery in the equation.



[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

[Why solid-state batteries keep short-circuiting](#)

MIT researchers discovered that dendrites, cracks that harm the performance of solid-state batteries, can grow at far lower stresses than previously understood. The findings reveal why



[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.

[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.



[Scientists make breakthrough with 'liquid' battery that could replace](#)

Researchers at the University of California, Santa Barbara, have made a solar battery that can store and discharge heat energy under sunlight, setting the stage for a new kind of power

[Storage solutions for renewable energy: A review](#)

Recommendations for tailored energy storage solutions in diverse applications. This review investigates the integration of renewable energy systems with diverse energy storage





[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

[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

[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



[Renewable Energy Storage: Complete Guide to Technologies.](#)

Comprehensive guide to renewable energy storage technologies, costs, benefits, and applications. Compare battery, mechanical, and thermal storage systems for 2025.

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