

An Energy Storage New Energy

Highvoltage Battery



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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

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

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



Energy Storage

The Energy Department is working to develop new storage technologies to tackle this challenge -- from supporting research on battery storage at the National

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



[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

[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



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

[Energy Storage News , Today's latest by Renewables Now](#)

Latest news on energy storage projects, BESS, capacity expansion, and regulatory updates across Europe, US & Canada, Latin America, and Asia Pacific. Discover how energy

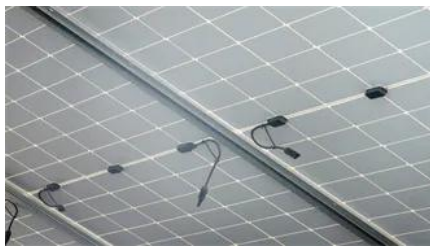


New facility to accelerate materials solutions for fusion energy

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

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.



[U.S. Adds 58 GWh of New Energy Storage Capacity in 2025](#)

Despite actions in Washington targeting clean energy, over 600 GWh of energy storage is expected to be installed by 2030. This rapid deployment will help lower energy costs, enhance

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



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

[10 cutting-edge innovations redefining energy storage](#)

From iron-air batteries to molten salt storage, a new wave of energy storage innovation is unlocking long-duration, low-cost resilience for tomorrow's



Antora - Home

Antora builds and deploys thermal energy storage to power always-on industrial operations with low-cost energy. Factory-built in the United States, Antora's

[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.



[The coolest new energy storage technologies](#)

From rust to sand to gravity, new techniques are making it happen. Solar and wind energy systems require some means of saving power for times

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