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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

Using liquid air for grid-scale energy storage

Liquid air energy storage could be the lowest-cost solution for ensuring a reliable power supply on a future grid dominated by carbon-free yet intermittent energy sources, according to a new

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 materials could boost the energy efficiency of microelectronics

MIT researchers developed a new fabrication method that could enable them to stack multiple active components, like transistors and memory units, on top of an existing circuit, which

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.

Global battery markets are growing strongly - and so

Battery energy storage has grown at an exceptional pace, with global installations increasing more than 20-fold in storage capacity over the

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.

Fact Sheet: Lithium Supply in the Energy Transition

Rare cases of sponsored projects are clearly indicated. An increased supply of lithium will be needed to meet future expected demand growth for lithium-ion batteries for transportation and

Long on expectations, short on supply: Regional lithium imbalances

This study evaluates lithium supply-demand conflicts in the three primary EV markets by 2030 across 16 scenarios, factoring in battery capacity, policy commitments, and domestic

Explained: Generative AI's environmental impact

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

Concrete "battery" developed at MIT now packs 10 times the power

New concrete and carbon black supercapacitors with optimized electrolytes have 10 times the energy storage of previous designs and can be incorporated into a wide range of architectural

2021 2024 FOUR YEAR REVIEW SUPPLY CHAINS FOR THE

Led by DOE, The Federal Consortium for Advanced Batteries (FCAB) encourages cooperation and coordination across Federal agencies that are interested in ensuring a domestic supply of lithium

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

Evelyn Wang: A new energy source at MIT

As MIT's first vice president for energy and climate, Evelyn Wang is working to broaden MIT's research portfolio, scale up existing

innovations, seek new breakthroughs, and channel

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