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Using liquid air for grid-scale energy storage - MIT News

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 model from MIT researchers.

MIT Climate and Energy Ventures class spins out entrepreneurs — and ...

In MIT course 15.366 (Climate and Energy Ventures) student teams select a technology and determine the best path for its commercialization in the energy sector.

Ensuring a durable transition - MIT News

At the MIT Energy Initiative's Annual Research Conference, speakers highlighted the need for collective action in a durable energy transition capable of withstanding obstacles.

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 irradiation, advancing fusion energy, nuclear power, and clean energy research at MIT.

Unlocking the hidden power of boiling — for energy, space, and beyond

Unlocking its secrets could thus enable advances in efficient energy production, electronics cooling, water desalination, medical diagnostics, and more. "Boiling is important for applications way beyond nuclear," says Bucci, who earned tenure at MIT in July. "Boiling is used in 80 percent of the power plants that produce electricity.

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 fractionation.

Startup turns mining waste into critical metals for the U.S.

Phoenix Tailings, co-founded by MIT alumni, is creating new domestic supply chains for the rare earth metals and other critical materials needed for the clean energy transition.

Explained: Generative AI's environmental impact - MIT News

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

Preparing Taiwan for a decarbonized economy - MIT News

Taiwan's Innovative Green Economy Roadmap (TIGER) is a two-year program with the MIT Energy Initiative, exploring ways that industry and government can promote and adopt technologies, practices, and policies that will keep Taiwan competitive amid a quickly changing energy landscape.

Confronting the AI/energy conundrum - MIT News

The MIT Energy Initiative's annual research spring symposium explored artificial intelligence as both a problem and solution for the clean energy transition.