

# Energy conversion principle of pumped water storage

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### 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 ...

### 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 ...



### Driving American battery innovation forward

At the MIT Energy Initiative (MITEI) Fall Colloquium, Kelty explored how GM is bringing next-generation battery technologies from lab to commercialization, driving American battery ...

### 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 ...



### 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.



### 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 ...



### 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 ...



## MIT Climate and Energy Ventures class spins out entrepreneurs -- ...

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.



## MIT Energy Initiative conference spotlights research priorities amidst

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.

## 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 ...



## Preparing Taiwan for a decarbonized economy

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 ...



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