

# Energy storage and solid-state batteries



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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

### [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



### [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

### [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.





### [Solid-state batteries, their future in the energy storage and electric](#)

The solid-state battery (SSB) is a novel technology that has a higher specific energy density than conventional batteries. This is possible by replacing the conventional liquid electrolyte

### [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



### **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 solid-state battery technology is changing energy storage](#)

New battery technologies are proliferating as demand for safe and efficient energy storage solutions increases. Solid-state batteries (SSBs) represent a major advancement in energy storage



### [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

### [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.



### **Explained: Generative AI's environmental impact**

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

### **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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