

Energy Efficiency Improvement Plan for Energy Storage Buildings



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[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

ENERGY STAR Guidelines for Energy Management

Building Upgrade Manual - The ENERGY STAR Building Manual is a strategic guide to help you plan and implement profitable energy saving building upgrades. You can maximize energy savings by



[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

[What's the best way to expand the US electricity grid?](#)

Growing energy demand means the U.S. will almost certainly have to expand its electricity grid in coming years. What's the best way to do this? A new study by MIT researchers examines



[New materials could boost the energy efficiency of microelectronics](#)



[ASHRAE Position Document on Energy Efficiency in Buildings](#)

Energy efficiency, when implemented strategically, uniquely reduces greenhouse gas (GHG) emissions associated with the built environment while simultaneously reducing life-cycle costs and maintaining



Thermal Energy Storage

This subprogram aims to accelerate the development and optimization of next-generation thermal energy storage (TES) innovations that enable resilient, flexible, affordable, healthy, and comfortable



Evelyn Wang: A new energy source at MIT

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.

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



[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

[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



Energy Efficiency in Existing Buildings

The report will identify challenges and make recommendations to legislators, advocates, researchers, the Department of Energy, and other stakeholders

[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.



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