

Energy Storage System Research Institute



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EPRI Storage Wiki

ESIC is an open, technical collaborative that brings together various stakeholders to advance energy storage deployments. This

[Giving buildings an "MRI" to make them more energy-efficient and](#)

Founded by a team from MIT, Lamarr.AI utilizes drones, thermal imaging, and AI to identify energy waste and structural issues in buildings and recommend retrofits.



[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

[Understanding ammonia energy's tradeoffs around the world](#)

MIT Energy Initiative researchers calculated the economic and environmental impact of future ammonia energy production and trade pathways.



About , About EPRI

EPRI is a research organization that follows the science to help power society toward a reliable, affordable, and resilient energy future. Rigorously objective in our role and our research, we do not

Explained: Generative AI's environmental impact

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



[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.



[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



[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.



Presentation

Local Controller making solar PV more controllable through efficient utilization of energy storage, load management, smart inverters, and solar/load forecasting and also responding to system controller



[MIT engineers create an energy-storing supercapacitor from ancient](#)



[Program 94: Energy Storage and Distributed Generation](#)

This program facilitates the beneficial use of energy storage, DG, and microgrids by providing tools, methods, and leading practices. The research activities in this program are guided by EPRI's Energy

MIT engineers created a carbon-cement supercapacitor that can store large amounts of energy. Made of just cement, water, and carbon black, the device could form the basis for



[Next-generation geothermal energy: Promise, progress, and challenges](#)

The millimeter-wave drilling technology invented at PSFC and being commercialized by Quaise Energy is the highest-profile next-generation geothermal innovation to emerge from MIT so

Making clean energy investments more successful

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and



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