

Energy transition georgetown



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

Geothermal energy, a clean, continuous energy source accessible in many locations, has been slow to catch on. Nearly 2,000 years ago, the Romans made extensive use of geothermal

[Navigating the Energy Transition Whitepaper](#)

The report examines the multifaceted challenges and emerging opportunities within the global energy transition, from financing and policy to



[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

[Explained: Generative AI's environmental impact](#)

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



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

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

[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



[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



[Navigating the Energy Transition Whitepaper](#)

Authored by Michelle Kolacz (ESM'25), the paper explores the four core dimensions of the energy transition and shares insights from workshop attendees - including thought leaders from across



[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.

[Study: Fusion energy could play a major role in the global response to](#)

Investigators in the MIT Energy Initiative and the

MIT Plasma Science and Fusion Center have found that - depending on its future cost and performance - fusion energy has the potential



[Leadership and Innovation Summit: The Energy Transition](#)

During the second annual summit, we will focus on the energy transition - the shift from fossil fuels to renewable sources as a key step in the

[Navigating the Energy Transition: Core Dimensions, Challenges, and](#)

The energy transition is already underway, but the critical questions now are how to overcome roadblocks and accelerate progress efficiently, while bringing along as many as possible.



[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



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