

Energy transition australia



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[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



[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 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



[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



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



[How we're tackling Australia's energy transformation](#)

Key points Renewables are set to transform Australia's energy system as soon as 2030. We'll need to adapt our energy system for a safe and



[Australia hits power demand record as renewables pass 50pc](#)

Amid fits and starts, Australia's energy transition turned a big corner in 2025, as renewables shot past fossil fuels despite demand records.



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

MIT News explores the environmental and sustainability implications of generative AI

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



Energy and the Net Zero Plan

The Australian Government is taking strong action on climate change to build a safe and prosperous future. The Net Zero Plan sets out how



[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

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.

[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.



[Executive summary - Australia 2023 - Analysis](#)

Australia is taking active steps on reskilling and jobs under the forthcoming Energy Workforce Strategy to transform its energy and mineral resources sector into

[Australia's energy strategies and frameworks](#)

A decarbonised energy system underpins the transition of many other sectors. The Electricity and Energy Sector Plan sets out an ambitious and achievable pathway to reduce



[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

[Australia's long, complicated energy transition is finally working](#)

On Australia's main grid last quarter, renewables and energy storage contributed more than 50% of supplied electricity for the first time, while wholesale power prices were more than 40% lower



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