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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

How much does solar energy and charging piles cost?

Investing in charging piles entails distinct costs that reflect installation settings and intended applications. Residential charging stations



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

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





[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.

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



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

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

[U.S. Solar Photovoltaic System and Energy Storage Cost](#)

The National Renewable Energy Laboratory (NREL) publishes benchmark reports that disaggregate photovoltaic (PV) and energy storage (battery) system installation costs to inform SETO's R&D



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



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



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 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



Integrating Building-Scale Solar

Customer-owned behind-the-meter solar photovoltaic systems have been an important part of California's energy transition, powering building loads with clean energy and feeding power back

Underground solar energy storage via energy piles: An experimental

To understand and quantify the performance of the coupled energy pile-solar collector system for underground solar energy storage, indoor laboratory-scale experiments were carried out



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