

Energy-saving curtain wall solar curtain wall



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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

Multi-function partitioned design method for photovoltaic curtain wall

The study specified the contribution of each section to different performances and provided a new design method for the application of VPV curtain walls towards energy-efficient



[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

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





[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

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



[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.

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



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

Curtain Walls & Spandrels

Onyx Solar's photovoltaic solutions for curtain walls and spandrels combine energy generation with sleek architectural design. These systems transform traditionally unused building surfaces into



[What is the role of solar curtain wall , NenPower](#)

Solar curtain walls harness solar radiation efficiently, generating electricity that can either be used in the building or fed back into the grid. This

Photovoltaic Curtain Walls: The Future of Energy-Efficient Green

Summary: Discover how photovoltaic curtain walls merge renewable energy generation with modern architecture. This guide explores their applications in green buildings, real-world case studies, and



[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

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

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



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