

# Energy systems and management



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Readers of this work will find examinations of the current status and future status for energy sources and technologies, their environmental interactions and the relevant global energy policies.

### [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



### Certificate in Energy Systems Management

Complete four specialized courses focused on energy systems management. Explore energy systems through both technical and management lenses to

### [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



### [New materials could boost the energy efficiency of microelectronics](#)

MIT researchers developed a new fabrication



[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.

method that could enable them to stack multiple active components, like transistors and memory units, on top of an existing circuit, which



**Explained: Generative AI's environmental impact**

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

**Energy Systems Management**

Students in the graduate certificate program learn about alternative energy generation and energy resources management and open up new opportunities in a rapidly growing job sector as energy



**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

## 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



## [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



## 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

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