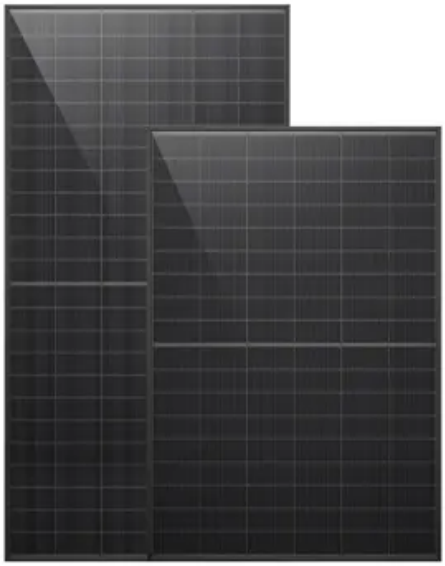
Energy storage and solar conflicts



Overview

The increasing number of conflicts surrounding solar and storage development has led to project delays, cancellations and even local ordinances trying to block solar projects altogether.

Energy storage and solar conflicts

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

Solar Energy Storage: A Solution for Reducing Land Use Conflicts

Solar energy storage mitigates land use conflicts by enabling the efficient use of solar energy even when sunlight is not available, thus reducing the need for extensive land dedicated

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

Conflict and uneven development in the multidecade distributed solar

However, by the beginning of the 2020 decade, the development of microgrids, digital technologies, storage, and virtual power plants in combination with net-zero energy policies provided indications of

Is the sun the new battleground? Investigating the future of energy

This paper examines the potential for future conflict over solar resources, including competition for high-irradiance territories, access to critical minerals such as lithium and rare earth

Resolving land use conflicts in developing photovoltaic

Our findings highlight the need for policies that ensure photovoltaic developments are compatible with environmental conservation and land preservation. The deployment of solar energy plays an

Climate, Conservation, Community: Moving the Land Use

Land use remains one of the biggest challenges holding back widespread clean energy deployment. The increasing number of conflicts surrounding solar and storage development has led

Balancing Act: Navigating Land Use Conflicts in the

These conflicts encompass conservation goals, Indigenous rights, food security and infrastructure demands. To effectively tackle these issues, it is

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

Energy storage overcapacity can cause power system

In some regions, a considerable storage oversupply could lead to conflicts in power-dispatch strategies across timescales and jurisdictions,

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 facility to accelerate materials solutions for fusion energy

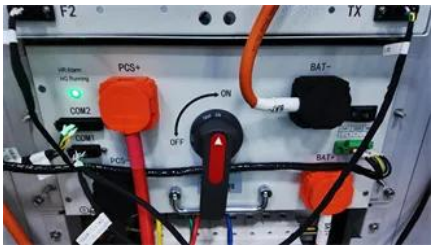
The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam

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

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.



Challenges of Integrating Solar Energy into Distributed Energy Grids

This article examines the key conflict points associated with the introduction of solar components into existing systems and proposes strategies for their resolution.

Explained: Generative AI's environmental impact

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

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

Iran conflict stirs solar demand debate in Germany

Germany's solar sector is reporting a surge in

inquiries following the military escalation between Israel, the United States, and Iran, with E.ON citing a doubling of demand for solar

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

Solar Energy and Land Use Conflicts

This article aims to explore the historical background, key concepts, main discussion points, case studies, current trends, challenges, and the future outlook of solar energy and land use

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