Energy storage power stations are seriously lagging behind

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U.S. energy supply chains are unlikely to meet

Under current supply chain conditions, the United States is on track to fall significantly short of surging demand for three clean energy sources-wind,

Giving buildings an "MRI" to make them more energy-efficient and

Founded by a team from MIT, Lamarr.AI utilizes drones, thermal imaging, and AI to identify energy waste and structural issues in buildings and recommend retrofits.

Battery Energy Storage Growing on U.S. Grid, But

Battery energy storage systems (BESS) are growing rapidly on the U.S. grid, but the technology has faced some headwinds. The primary

Better batteries won't save the energy grid

Battery storage is improving over time, but it would require a quantum leap to become genuinely viable in meeting current demand, let alone

Local opposition, not the new

administration, is holding

If we want to build a resilient energy grid, dependent on renewable energy alone, we must allow BESS technology to grow across the US. We need

Explained: Generative AI's environmental impact

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

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.

The Battery Storage Delusion: Utility-Scale Batteries Are No Silver

This growing reliance on battery storage reflects an intriguing narrative: that batteries can resolve the intermittent and weather-dependent aspects of wind and solar and significantly reduce, if

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

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

Achieving the Promise of Low-Cost Long Duration Energy Storage

This report demonstrates what we can do with our industry partners to advance innovative long duration energy storage technologies that will shape our future-from batteries to hydrogen, supercapacitors,

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

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

Why Some Energy Storage Companies Are Lagging Behind National

The gap between industry leaders and lagging

behind national energy storage companies isn't just about technology - it's a full-blown business thriller with plot twists involving policy changes, supply

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

Study: Fusion energy could play a major role in the global response to

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

Why is battery storage lagging across the East Coast and Midwest?

Why is battery storage lagging across the East Coast and Midwest? Battery operators can't revenue stack in certain RTO markets, making it hard to attract investors for expensive projects.

US Energy Storage Installations Reach New Quarterly

"Despite regulatory uncertainty, the drivers for energy storage are strong and the industry is on track to produce enough grid batteries in American

US Energy Storage Technology Growing, But Current Policy Lags

Challenges facing the energy storage industry include integration issues with the old grid system and current regulatory restrictions.

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

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