

# Energy storage delays distribution network construction



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### [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.

### [Distributed Energy Resource Interconnection Roadmap](#)

Adopting strategic reforms to DER interconnection can help reduce interconnection delays, fairly allocate costs, improve transparency and equity, and support efficient and strategic investment



### [Distributed Energy Resources Interconnection: Data, Timelines](#)

A group study "evaluates whether groups of electrically-related DER projects can interconnect to the distribution system safely and identifies any grid upgrades that are needed to

### [Distribution network expansion planning: An updated review of current](#)

This review paper tries to be a good guide for distribution network planners and engineers, and it also helps the reader to plan the distribution network according to his/her criteria.





## Transmission Data Dashboard

The Transmission Data Dashboard, developed by the Public Advocates Office, offers a snapshot of the status of California's electric transmission network infrastructure.

## [Understanding ammonia energy's tradeoffs around the world](#)

MIT Energy Initiative researchers calculated the economic and environmental impact of future ammonia energy production and trade pathways.



## EGI Update

Q4-2023: The Reedley 70 kV Area Reinforcement Project (Dinuba Energy Storage) is not officially on hold from CAISO. However, with evolved needs, CAISO is considering a potential re-scope in the

## [ISSUE BRIEF Understanding California's Transmission](#)

electricity grid is critical to ensuring a reliable, clean, and affordable energy transition. The latest analysis by the Union of Concerned Scientists shows that California's investor-owned utilities have not



## [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

### [Next-generation geothermal energy: Promise, progress, and challenges](#)

The millimeter-wave drilling technology invented at PSFC and being commercialized by Quaise Energy is the highest-profile next-generation geothermal innovation to emerge from MIT so



### [Pervasive, Nationwide Storage Grid-Connection Delays](#)

Grid-interconnection delays are impeding new renewable-energy projects across the nation from coming on line, especially energy storage

### **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



### [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.

### [Energy , MIT News , Massachusetts Institute of Technology](#)

Massachusetts Clean Energy Center CEO MBA '12 Emily Reichert highlights the state government's



unique approach to fostering and keeping clean energy innovation.



## Breaking the U.S. interconnection logjam - pv

Lengthy interconnection queues remain a major roadblock to deploying energy storage; in 2024, an estimated 139GW of storage capacity

## Map to show DER interconnection delays on the

A new "heat map" will reveal interconnection delays for distributed energy resources (DERs) on the distribution grid.



## [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

## Explained: Generative AI's environmental impact

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



## [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

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