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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, ...

To minimize the curtailment of renewable generation and incentivize grid-scale energy storage deployment, a concept of combining stationary and mobile applications of ...

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

Readers seek actionable insights into typical design cases of energy storage power stations, including technical frameworks, cost-benefit analyses, and real-world applications.

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 ...

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 ...

These facilities play a crucial role in modern power grids by storing electrical energy for later use. The guide covers the construction, operation, management, and functionalities of these power ...

Unlocking its secrets could thus enable advances in efficient energy production, electronics cooling, water desalination, medical diagnostics, and more. "Boiling is important for ...

The MIT Energy Initiative's annual research spring symposium explored artificial intelligence as both a problem and solution for the clean energy transition.

In MIT course 15.366 (Climate and Energy Ventures) student teams select a technology and determine the best path for its commercialization in the energy sector.

With the improvement of electricity market rules and the large-scale grid connection of new energy sources, the entire construction and development process of energy storage power ...

At the MIT Energy Initiative's Annual Research Conference, speakers highlighted the need for collective action in a durable energy transition capable of withstanding obstacles.

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