Energy storage equipment heat dissipation

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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

Thermal Storage: From Low-to-High-Temperature

Herein, an overview of ongoing research for sensible and latent thermal energy storages is provided. Phase change emulsions are developed

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

MCube Thermal Management Solutions for ESS

Liquid cooling technology is an efficient thermal management solution applied to ES. It takes away the heat generated during the charging and

Antora - Home

Antora builds and deploys thermal energy storage to power always-on industrial operations with low-cost energy. Factory-built in the United States, Antora's thermal batteries deliver reliable and cost

Explained: Generative AI's environmental impact

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

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

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.

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

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

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.

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

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

Advances in thermal energy

storage: Fundamentals and applications

The thermal behavior of various solar energy storage systems is widely discussed in the literature, such as bulk solar energy storage, packed bed, or energy storage in modules.

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