

Title: Energy storage and new energy heating

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As part of an MIT Energy Initiative seminar, Emily A. Carter, a professor at Princeton University, explained the importance of climate change mitigation in the energy transition, ...

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

A new long duration energy storage system that deploys molten tin for heat transfer has received \$20 million in Series A Plus funding.

Researchers developed a fully integrated photonic processor that can perform all the key computations of a deep neural network on a photonic chip, using light. This advance could improve ...

Storing energy as heat is not a new idea. For nearly 200 years, steel producers have captured and utilised waste heat to reduce their energy demand. Over time, however, methods for ...

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 ...

A low-cost, scalable fabrication technology developed at MIT can integrate fast, efficient gallium nitride transistors onto a standard silicon chip, which could boost the performance of ...

After a cyber attack or natural disaster, a backup network of decentralized devices -- like residential solar panels, batteries, electric vehicles, heat pumps, and water heaters -- could restore ...

Explore the benefits of Thermal Energy Storage (TES) in renewable energy systems. Discover how TES can store heat and balance energy supply.

A look at how AI can be used to help support the clean energy transition by helping to manage power grid

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operations, plan infrastructure investments, guide the development of novel ...

Due to its higher energy storage density and long-term storage, thermochemical energy storage (TCES), one of the TES methods currently in use, seems to be a promising one. These ...

Giving people better data about their energy use, plus some coaching, can help them substantially reduce their consumption and costs, according to a study by MIT researchers in ...

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