

Hydrogen could singly abate several challenges in future energy systems. It's a solution for energy storage, a force for grid flexibility, and an energy-dense fuel to rival carbon ...

Citation: Jia Q, Liu T, Chen X, Chen L, Si Y and Mei S (2021) Optimized Regulation of Hybrid Adiabatic Compressed Air Energy Storage System for Zero-Carbon-Emission Micro-Energy ...

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil fuel-based power generation with power ...

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Here, we review the special challenges associated with an energy system that does not add any CO₂ to the atmosphere (a net-zero emissions energy system). We discuss prominent technological opportunities ...

As efforts to decarbonize the global energy system gain momentum, attention is turning increasingly to the role played by one of the most vital of goods: heat. Heating and ...

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