Energy storage and low-carbon transformation

Our research describes three plausible scenarios for how a transition to a system of lower carbon energy could play out: Slow Evolution, Continued Momentum, and Sustainable Transformation.

With ever increasing energy demand, the related challenges are depletion of fossil fuel reserves, their price volatility, and global climate change ...

Industry The future of low-carbon steel: technological trends and industrial transformation The decarbonization of the steel sector is a complex challenge that requires a combination of ...

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.

In Part 4 of our Energy Transition Talks podcast series, CGI experts Venk Gopal and Alain Sayegh discuss energy storage as a new distributed energy resource ...

Our findings demonstrate that the low-carbon transition of the global power sector could enhance overall SDG performance with enormous regional disparities in the individual targets of the...

Carbon capture and storage (CCS) is critical to the energy transition. It is often the most feasible decarbonization technology for process industries ...

This Special Issue aims to explore innovative approaches to managing the low-carbon energy transition, addressing key challenges such as energy security, grid stability, policy integration, and economic ...

The integration of V2G and mobile storage demonstrates how sustainable mobility and smart power systems are combined to achieve the SDGs and is one of the key technologies for low ...

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