

What is the relationship between energy storage and digitalization?

The internal coordination between energy storage and digitalization is advocated. Booming digital technologies have brought profound changes to the energy sector. Digitalization in energy storage technology facilitates new opportunities toward modernized low-carbon energy systems.

Does digitalization promote technological innovation in energy storage?

Meanwhile, digitalization positively promotes technological innovation in energy storage, of which digitization and Internet of Things strategy make more decisive contributions. We provide implications for the achievement of cross-regional energy systems through the internal coordination between energy storage and digitalization.

Does digital energy storage technology improve system operation and maintenance?

It is also related to previous evidence on the significance of digital energy storage technology in enhancing system operation and maintenance [1,55], which implies the global efforts towards the development of digital and intelligent energy-storage systems.

Can energy storage and digitalization help achieve a cross-regional energy system?

We provide policy implications to utilize the internal coordination between energy storage and digitalization in achieving a cross-regional energy system, and highlight its significance for the coordinated development of energy and society, which calls for worldwide attention in the context of energy transition.

Is digital data processing a trend in energy storage?

Although we illustrated this trend mainly based on patent data in China, our findings agree with Mejia and Kajikawa, who found that digital data processing for multi-power systems has been one of the main trends in energy storage in both academia and industry research with a global data set.

Does digital transformation affect energy storage innovation?

Baseline analysis Table 3 shows the impact of digital transformation on energy storage innovation estimated by a negative binomial model. Our findings show that digitalization strategies have a significant positive impact on technological innovation in energy storage after controlling for years and industry fixed effects.

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