

What is energy storage technology?

Energy storage (ES) technology has been a critical foundation of low-carbon electricity systems for better balancing energy supply and demand [5, 6]. Developing energy storage technology benefits the penetration of various renewables [5, 7, 8] and the efficiency and reliability of the electricity grid [9, 10].

What are emerging digital technologies in energy storage?

Under a global wave of digital transformation, a growing body of research has recognized and introduced the significance of emerging digital technologies embedded in energy storage [16, 17], particularly on the blockchain [18, 19], energy big data and cloud computing [20, 21] and the energy Internet of Things (IoT) [18, 22].

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.

What is the role of digitalization in energy storage development?

Booming digital technologies have brought profound changes to the energy sector. Digitalization in energy storage technology facilitate new opportunities toward modernized low-carbon energy systems. This study offers a technological perspective to help understand the role of digitalization in energy storage development.

Does digital strategy influence energy storage innovation?

Our findings suggest that firms' digital strategies,especially digitization and IoT strategy,have a positive impacton energy storage innovation,indicating a promising coordinated development between digital and energy storage technologies.

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 impacton technological innovation in energy storage after controlling for years and industry fixed effects.

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The energy platform consists of the hardware and software to generate, store, control and transmit electricity/data, the digital platform to share and manage the infrastructure, ...



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