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New energy storage plus digital economy

Overview

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.

Why is energy storage a new technology?

One possible explanation is that energy storage technology is currently in a rapid development stage, with new technologies such as large-scale stationary energy storage continuing to emerge.

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.

Does digital strategy influence energy storage innovation?

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

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.

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 facilitate new opportunities toward modernized low-carbon energy systems.

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].

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