

How does the digital economy contribute to innovation?

The digital economy contributes to innovation through renewable energy investment. The rapid development of the digital economy has changed the production methods of renewable energy enterprises and affected consumer behavior, consequently altering the market potential for renewable energy and the benefits of innovation.

Does digital strategy affect firm energy storage innovation?

It is observed that the positive impact of digital strategy on firm energy storage innovation is much more significant in the regions and industries with higher convergence between digital and energy storage technologies.

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 transformation affect energy storage innovation?

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.

How does the digital economy drive economic growth in China?

Therefore, reducing the level of energy consumption and promoting the clean consumption of energy has become an important component for China's high-quality economic development and sustainable energy development. Academic research on how the digital economy drives economic growth can be divided into three main levels: macro, meso, and micro.

How does the digital economy affect energy development?

Litvinenko (2020) believes that the digital economy will promote the technological development level of the mineral sector, which is conducive to the healthy and stable development of the energy industry. Very few scholars measure the overall energy development (i.e., HED) affected by the digital economy.

This article highlights the potential of digital business models to facilitate clean energy transitions, with a particular focus on how they can enhance energy efficiency and demand-side flexibility. It also identifies a set of ...

1 ??&#0183; A third boost for energy storage is the power-guzzling surge driven by the rise of artificial

intelligence. Goldman Sachs, a bank, reckons that global power demand at data centres will ...

Our new country-by-country and sector-by-sector analysis finds that in 2023, clean energy added around USD 320 billion to the world economy. This represented 10% of global GDP growth - equivalent to more than the ...

From the perspective of sustainable energy development and based on China's provincial panel data from 2011 to 2020, this paper probes into the relationship and transmission mechanism of digital economy, clean energy ...

The report examines the impact of digital technologies on energy demand sectors, looks at how energy suppliers can use digital tools to improve operations, and explores the transformational potential of ...

Increasingly, energy and tech companies are investing in projects, partnerships and digital energy companies. For example, at the end of 2020, Sidewalk Infrastructure Partners - a venture backed by Google's parent ...

The new energy economy involves varied and often complex interactions between electricity, fuels and storage markets, creating fresh challenges for regulation and market design. A major question is how to manage the ...

Consequently, digitalization was chosen as a moderator to further examine the correlation between green investment and energy efficiency. The digital economy in this article ...

