

# Site Energy and Digital Energy





## Overview

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How can DT technology benefit energy companies?

By creating accurate digital models of these complex systems, energy companies can gain valuable insights into their operation, identify inefficiencies, and develop strategies for improvement. One of the primary applications of DT technology in the energy sector is the optimization of renewable energy systems.

What are the applications of DT Technology in the energy sector?

One of the primary applications of DT technology in the energy sector is the optimization of renewable energy systems. As the world transitions towards cleaner energy sources, the integration of renewable energy technologies such as wind and solar power presents challenges due to their intermittent and variable nature.

How does digital technology affect energy production and management?

The digital economy provides a platform for technological innovation and development in hydropower, solar, wind, and biomass. Through digital technology, energy production and management can be made smarter, more efficient, and more sustainable (Wei et al. 2023).

How to promote the development of the Digital Economy?

However, it also shows that in promoting the development of the digital economy, it is necessary to overcome the dependence on traditional energy sources and promote the development of renewable energy in combination with the transformation of the energy structure and environmental pollution problems.



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