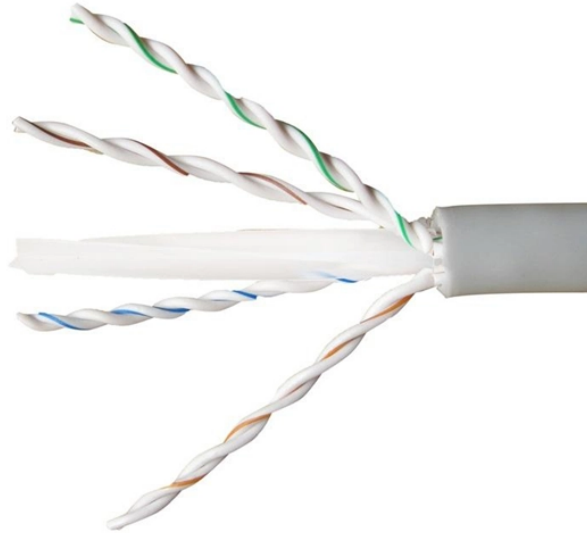


From Internet to New Energy Industry



Overview

New, data-driven energy technology can optimize everything from grids and data centres to buildings and industry. As electrification, automation and digital intelligence converge, the energy landscape is transforming from linear, centralized systems to. The KPMG US Emerging Energy Survey 2025 explores how skyrocketing AI use and other technology-driven demand for power is fueling expansion in the emerging energy sector. The current energy mix can't meet the power needs of AI data centers and electrification across industries, and it's pushing US. From AI and IoT to microgrids and energy management systems, gain insights into emerging trends, market statistics, real-life examples, enabling technologies & more! Global energy consumption is projected to increase by nearly 50% by 2050, primarily driven by economic and population growth in. New, data-driven energy technology can optimize everything from grids and data centres to buildings and industry. This. Moreover, technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), and blockchain are playing pivotal roles in optimizing energy efficiency and grid management. Equally important are customer-facing solutions, which are redefining how consumers interact with their energy. The

development of this white paper was part-funded by the Hydrogen Innovation Initiative. The energy industry is experiencing a significant transition towards decentralisation, decarbonisation, and digitisation.

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The insights from this study provide helpful information for participants who wish to drive the digital transformation of the new energy industry and achieve sustainable growth in the new energy sector.



How does digital transformation impact the energy industry? Learn how AI, IoT, and a shift to smart energy solutions are changing the energy sector globally.



Discover how digital transformation in the energy industry - driven by AI, IoT, and more - increases efficiency, sustainability & resilience!



The Internet of Energy (IoE) is the upgrade and automation of electricity infrastructures, allowing energy producers to enhance efficiency and reduce waste.



The energy industry is experiencing a significant transition towards decentralisation, decarbonisation, and digitisation. This transition will provide new opportunities and challenges for investment and ...



The aim of this research is to examine complementarity between green innovation and digitalisation in the energy industry with specific references to enhancing operating efficiency, ...



Digital transformation is unlocking new potential in the energy sector, from optimized management and automation to fostering renewable energy growth. Discover key challenges, ...



Discover how digital transformation in the energy industry is reshaping the energy sector with AI, IoT, and blockchain, enhancing efficiency and boosting renewable energy adoption.



New, data-driven energy technology can optimize everything from grids and data centres to buildings and industry. As electrification, automation and digital intelligence converge, the energy ...



Technology-driven demand, including from AI data centers, is fueling a surge in power needs that must include production from new energy sources. Nearly half of surveyed companies are prioritizing ...

Contact Us

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