

Achieving sustainable growth in emerging economies requires more than expanding clean energy; it also relies on the synergistic role of Artificial Intelligence, Internet Connectivity, and ...

There is no doubt that the world is amid a significant energy transition, and technology is going to be essential in enabling this change. The right digital and technology tools will be instrumental in ...

The global energy transition is being shaped by two interconnected forces: digitalization and decentralization. These pillars are not only reshaping how energy is produced, managed and ...

By mapping technology applications on multiple stages of value creation, the study offers policymakers, practitioners, and researchers pragmatic recommendations for shaping the digital and ...

Discover how digital transformation is reshaping the energy industry. Explore key technologies like AI, IoT, and blockchain, the challenges of modernization, and ...

This edited book aims to present how digital technologies contribute to the energy transition. It discusses the approaches, challenges and opportunities of applying digitalisation in the energy sector to ensure ...

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

Advancing Innovation: Technology Transitions and Early Investments The Department of Energy supports research at every stage of science. Starting with foundational, discovery research, ...

From artificial intelligence (AI) to advanced manufacturing, progress now requires digital and energy infrastructure to evolve in harmony to remain reliable, affordable and trusted.

Digitalisation - the application of digital technologies - could have a major effect on emissions as an enabler in accelerating clean energy transitions. Across the energy sector, digitalisation can help cut ...

At present, net-zero carbon emission has become a global goal, which accelerates the energy transition to use more clean electricity generated by variable renew

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