

Renewables-based microgrids and peer-to-peer (P2P) energy trading can boost energy security as they are self-sufficient and run independent of large grids.

Amid an electricity crisis, many Nigerian small businesses run on petrol generators. This solar-microgrid start-up is working to connect them to clean energy.

The objective of the paper is to perform a comprehensive overview of the role of power electronic converters in microgrid technology, focusing on challenges, solutions, and research ...

Power electronic converters are indispensable building blocks of microgrids. They are the enabling technology for many applications of microgrids, e.g., renew-able energy integration, transportation ...

Presentation was intended to build foundational understanding of energy resilience, reliability, and microgrids.

The Microgrid Cost Study is focused on identifying the costs of components, integration, and installation of existing U.S. microgrids and project cost improvements and technical accelerators ...

Pacific small island states, contributing only 0.03% of global emissions, are leading with ambitious renewable energy projects and net-zero goals by 2050.

Battery energy storage systems can address the challenge of intermittent renewable energy. But innovative financial models are needed to encourage deployment.

XENDEE is the team and technology supporting distributed energy and microgrid energy solutions. It is a comprehensive distributed energy resource (DER) design and operation software platform. Its ...

PECO is taking major steps to advance the regional power grid and build a smarter energy infrastructure for its customers in Southeastern Pennsylvania.

Microgrids can step in when the main electricity grid fails. And as they can be powered by renewables, they are a sustainable and affordable option, too.

Dutch cyclists rode down the world's first bike path made entirely of discarded plastic this week, in a move aimed at reducing the millions of tonnes wasted every year.

After considering the resilience benefits and high-level cost considerations for a microgrid project, if a microgrid appears to be an effective and feasible resilience investment option, the next step is to ...

Power Electronic Converters (PECs) are one of the essential elements of micro-grid environment. Power electronic converters mainly process and control the electrical energy which pass through them ...

Turnkey microgrid control solutions include electrical system protection, cybersecurity, real-time controls, integration with existing infrastructure, and more.

Tennessee's Chattanooga Metropolitan Airport recently became the first U.S. airport powered by 100 percent solar energy. Started in 2010, the \$10 million microgrid project includes a ...

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