

AI's resource-hungry scale demands resilient digital infrastructure. Optimizing data centres and deploying AI for global water efficiency is key to building social and economic stability.

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.

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

Local communities generating their own power could become 90% energy self-sufficient, with potential to be fully self-reliant in the future, according to a Dutch study.

The need for energy security, along with reliable, affordable, low-carbon power, has never been greater. AI is helping to meet rising demand and support this goal.

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.

Scientists and engineers have proposed a shift from current energy systems to ones based on renewable sources. Microgrids (MGs) represent one outcome of this transformation.

A proper investigation of microgrid architectures is presented in this work. This research also explores deep investigations for the improvement of concerns and challenges in various power ...

As our reliance on traditional power grids continues to increase, the risk of blackouts and energy shortages becomes more imminent. However, a microgrid system,

This study uniquely conducts a bibliometric analysis of MMG systems, addressing a critical gap in existing literature, which predominantly focuses on microgrids and smart grids.

Microgrid control is of the coordinated control and local control categories. The small signal stability and methods in improving it are discussed. The load frequency control in microgrids is assessed.

This work presents a systematic literature review on AC microgrids (ACMGs) based on five research questions, all of which have been addressed and discussed. The article serves as an introductory ...

The literature review includes research articles, conference papers, and technical reports, among others. The

scope of this review spans from the initial stages of MG research to the ...

Microgrids are power distribution systems that can operate either in a grid-connected configuration or in an islanded manner, depending on the availability of decentralized power ...

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 ...

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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