

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

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.

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.

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.

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.

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.

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.

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 ...

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 ...

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

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