



**Microgrid
Storage**

Grid-Connected

Energy

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.

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

Germany is the fourth-largest economy in the world and ranks 11 out of 120 countries on the ETI 2023. Since 2014, Germany's score on the ETI has increased by 6%, which shows both the ...

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 ...

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.

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 ...

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.

Solutions like demand-side response (DSR) can provide energy flexibility and security, according to the World Economic Forum's Energy Transition Index 2025.

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.



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Web: <https://falconengineering.co.za>

