Microgrid wind turbine controller principle

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.

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

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 ...

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.

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.

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 ...

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.

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.

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 ...

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

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