

In this week's Industry Perspectives, Chris Evanich, application director of microgrids at S& C Electric Company, highlights the value of energy storage in microgrids.

Abstract: In this paper, an autonomous power management strategy is proposed for distributed energy storage units deployed in islanded microgrids with photovoltaic (PV) and droop controlled units.

The region's aging infrastructure--much of it dating back to the Soviet era--can't keep up with modern demands. But here's the kicker: Abkhazia actually has enough renewable resources to become ...

Residents of Georgia's occupied Abkhazia and Tskhinvali regions who hold "dual citizenship" with Russia will be able to obtain or replace Russian passports locally, without traveling to Russian ...

There are many communities in the world vulnerable to natural disasters, however, they require support and expertise to develop microgrids. Using our technical, regulatory and policy expertise on ...

Explore community microgrids for rural sustainability, ensuring energy access and resilience with renewables.

This paper conceptualises existing literature on community microgrids, focusing on the representation and inclusion of community preferences, needs and behaviour across the ...

Abkhazia's Energy Coup: Case Study of a Microgrid Marvel In 2022, a remote Abkhazian village swapped their smoke-belching diesel setup for a flywheel energy storage system.

This paper studies various energy storage technologies and their applications in microgrids addressing the challenges facing the microgrids implementation. In addition, some barriers to wide deployment ...

Abstract: DC microgrid systems have been increasingly employed in recent years to address the need for reducing fossil fuel use in electricity generation. Distributed generations (DGs), primarily DC ...

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