Guatemala microgrid control

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The 9th annual Microgrid Knowledge Conference was held in Baltimore, Maryland. This three-day event with 466 attendees from 8 countries had 17 sessions focused on key elements of microgrid technologies, including distributed energy resources, regulation, and financing. Throughout the conference there was an emphasis on addressing the sustainability and resilience objectives of energy users.

New Sun Road"s CEO, Adrienne Pierce, spoke on a panel with Southern California Edison and BoxPower, "Securely Connecting Remote Vendor Managed Grids into the Utility Enterprise" discussing how to tackle challenges of operating and integrating utility-grade microgrids. This session highlighted New Sun Road"s expertise in communications, cybersecurity and data management.

New Sun Road was thrilled to accept the annual Microgrid Knowledge Greater Good Award "Highest Recognition Award" for the Digital Community Centers in Guatemala. This award acknowledges microgrids meeting evident societal needs and reinforcing their role in enhancing people’s lives. The thirty, solar-powered, women-led Digital Community Centers provide energy and internet access to rural Guatemalans enabling digital literacy training and online resources for indigenous communities, truly exemplifying this award.

The 2024 Microgrid Knowledge conference showcased the growing importance of microgrid technologies in achieving sustainable and resilient energy systems. New Sun Road’s recognition for its Digital Community Centers in Guatemala along with Adrienne Pierce"s role on the panel demonstrates the application breadth of New Sun Road"s solution. Having New Sun Road"s technology central for microgrids serving a large investor-owned utility AND local rural community centers in unelectrified Guatemala, truly embodies "A Tale of Two Microgrids".

This section presents a comprehensive overview of a range of power resilience technologies and techniques, along with an analysis of the most relevant literature. To offer a robust understanding of power systems resilience, a resilience matrix, as depicted in Table 1, outlines key aspects such as planning, absorption, recovery, and adaptability in response to adverse events.

Traditional methods have been applied to achieve resilience in power systems, yet achieving absolute resilience remains a challenge [1, 11, 12]. Enhancing power system resilience involves adopting sophisticated methods and technologies such as the integration of distributed energy resources (DER), microgrids, and islanding. Resilience evaluation is divided into quantitative and qualitative methods, with the former involving simulation and statistical analysis [13, 14] (Fig. 1).

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