



# Guatemala city microgrid benefits

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Schneider Electric and United Solar Initiative announced plans to build microgrids at two maternal healthcare clinics in Guatemala. The microgrids will provide reliable power to the rural birthing clinics, improving the quality and consistency of care, and ultimately, improving maternal health outcomes.

These solar-powered microgrids are 3 to 5 kW each and provide enough electricity and internet to reliably power digital community centers in the Guatemalan highlands. Despite remote distances, heavy rain and dirt roads, good project collaboration and optimized system design meant that on-site installation time was cut in half.

Off-grid microgrids are a popular solution to reach remote rural areas, however technical and economic challenges may hinder adoption efforts. This study aims to study the challenges that off-grid microgrid community

Through the microgrid deployments at clinics in San Sebasti n Coat n and Santa Eulalia, Schneider Electric is helping ensure those living in these remote regions of Guatemala have reliable ...

A California-based microgrid and digital control technology firm has been entrusted with installing clean energy and digitally transformational facilities at women-led community centers in Guatemala. New Sun Road was selected to deliver the projects by Guatemala's National Secretariat of Science and Technology (Senacyt) acting on a U.S. Trade ...

Today New Sun Road announces the successful installation of ten Stellar Integrated Systems (IS) in ten days. These solar-powered microgrids are 3 to 5 kW each and provide enough electricity and internet to reliably power digital community centers in the Guatemalan highlands. Despite remote distances, heavy rain and dirt roads, good project collaboration and optimized system design meant that on-site installation time was cut in half. This milestone demonstrates the rapid-deploy, plug-and-play benefits of Stellar IS, for the hardest-to-reach communities.

These cloud-controlled systems use IoT technology to provide electricity and WiFi which is the foundation for digital literacy programs designed for, and run by, women in the communities. Cooperating with the local municipalities of Cob n, San Pedro Carch , Tukur , and Panz s, the Stellar Ixq-Saq'e (SIS) Centers will serve more than 1,000 women and girls in the Alta Verapaz region in the first year. Digital access will increase economic opportunities by providing internet connectivity and training for the whole community.

These centers were made possible by a DAI-Digital Frontiers grant provided by Microsoft and USAID, and in partnership with Nations Women (UN Women), Mercy Corps, World Food Program (WFP), Plan International and Club Rotario de la Asunci n de Guatemala; to engage the communities, define the programs



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and deliver results.

CHICAGO, Oct. 24, 2024 /PRNewswire/ --Schneider Electric, the leader in the digital transformation of energy management and automation, today announced that it is partnering with United Solar Initiative to install two microgrids at maternal healthcare clinics in Guatemala, expanding the company's efforts to provide microgrid infrastructure for healthcare clinics in remote international communities.

Schneider Electric made the announcement at "WE 24" - the Society of Women Engineers annual conference - during a panel discussion with clean energy leaders highlighting "Empowering Change through Energy Equity." The company is donating \$50,000 to United Solar Initiative to support the installation of the microgrids.

Worldwide, more than five million mothers and children die unnecessarily each year due to lack of healthcare access, according to the World Health Organization. In Guatemala, indigenous women have one of the highest levels of risk for death during labor in the Western Hemisphere, with an average 156 deaths per 100,000 live births - seven times higher than that of women in the United States.

Through the microgrid deployments at clinics in San Sebastián Coatán and Santa Eulalia, Schneider Electric is helping ensure those living in these remote regions of Guatemala have reliable, round-the-clock power, which is crucial for maintaining consistent healthcare access and improving maternal health outcomes. Additionally, the microgrids support essential day-to-day operations, including preventative primary health care, rigorous monitoring and evaluation processes, and continuous capacity building for midwives, mothers, and Ministry of Health staff.

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