



# Equatorial guinea microgrid development

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MAECI is an international consulting and project implementation firm that has formed very successful project partnerships, both as lead firm and as sub-consultant, with government ministries and departments, universities and colleges, non-governmental organizations and private sector companies more specifically in developing and emerging countries with strong emphasis in Western Central Africa and completed projects totaling in excess of \$1 billion.

The government of Equatorial Guinea is installing a self-sufficient solar microgrid project in Annobon Province in partnership with three American companies: the consulting firm MAECI Solar, GE Power & Water and Princeton Power Systems. This project will be Africa's largest self-sufficient solar microgrid and will bring significant benefits to the West African nation. It will supply Annobon Island with reliable, predictable power and will supply enough electricity to handle 100 percent of the island's current energy demand.

The solar microgrid will feature 5-MW solar modules and system integration by MAECI, an energy management system and controls from Princeton Power Systems and energy storage from GE, MAECI said in a news release. Chris Massaro, senior vice president of MAECI noted that the project would both raise the quality of life and advance the Equatoguinean government's goal of diversifying the economy.

The Annobon Electrification Project will be the platform for economic growth on the island by bringing a much needed power supply that will enable the development of multiple industries, add 700 to 1,000 direct and indirect jobs to Annobon Island and significantly raise the standard of living, added Massaro.

Annobon Province consists of tiny Annobon Island and has a population of 5,000. The Annobon Province currently has reliable electricity for only a few hours a day, but the solar microgrid aims to provide electricity 24 hours a day, seven days a week.

The project is a part of Equatorial Guinea's National Economic Development Plan Horizon 2020, which aims to make Equatorial Guinea an emerging economy and accelerate its development and democratization by 2020.

Annobon Province has a population of approximately 5,000 residents. Today, the residents have reliable electricity for up to five hours per day and spend an average of 15-20 percent of their income on supplemental power. The solar microgrid in development will eliminate this expense entirely and provide reliable electricity 24 hours a day, seven days a week. The project is a part of Equatorial Guinea's National Economic Development Plan Horizon 2020, which aims to make Equatorial Guinea an emerging



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The Annobon microgrid is enabled by the Princeton Power Systems' BIGI-250 energy management platform, a three-port industrial-scale solar energy management system with UL listing. Princeton Power Systems has extensive prior experience working with GE's energy storage team. GE's batteries, in addition to providing high temperature performance and improved safety, are designed to offer environmental responsibility with non-toxic and recyclable materials and worldwide support.

"Today, over 1 billion people are without power. We are taking our experience in microgrids from Alcatraz Island, the U.S. Department of Defense and private sector customers to now apply it to improving quality of life for people in rural areas where grid power does not exist or is not reliable," said Ken McCauley, president and CEO, Princeton Power Systems. "We look forward to future global projects across the world to provide power to these areas to have hospitals, lighting and other basic human needs."

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