OutBack POWER™
an EnerSys company

Hôpital de Port-à-Piment

SOLAR + STORAGE CASE STUDY

SYSTEM SPECIFICATIONS	
Location	Republic of Haiti
System Power	6.0kW PV/solar system
Components	FLEXpower TWO

OVERVIEW

Founded in 1990, the Solar Electric Light Fund (SELF) is a nonprofit organization with the mission to design and implement solar energy solutions to help people living in "energy poverty". SELF has completed projects in more than 20 countries including Haiti, Rwanda and Benin. SELF recently installed a solar energy system for a hospital in southwestern Haiti. The Hôpital de Port-à-Piment is a small facility providing a wide variety of health care services: surgeries, newborn deliveries and basic diagnostic lab work, all of which previously relied on expensive diesel fuel generators and an unreliable local electricity grid prone to frequent power outages. Without around-the-clock power, vaccines and medicines could not remain cold, incubators could not stay warm and surgeries would have to be performed with sub-standard lighting, greatly increasing patient risk.

CHALLENGE

- Provide a reliable energy solution to mitigate frequent power outages
- Enable the hospital staff to deliver reliable medical treatment to the community 24/7
- Reduce the facility's emissions and associated costs from using expensive diesel fuel
- Eliminate fumes and noise caused by diesel generators for better patient/worker environment

SOLUTION

- SELF installed an 11.7kW photovoltaic (PV) array with a 6,000W FLEXpower inverter system to provide the hospital with continuous electricity to better serve the 16,000 Haitians in the region
- Provides significant fuel savings and a reliable source of electricity
- Improved patient and worker environment that is free from generator diesel fumes and noise

OUTCOME

- Solar energy reliably powers critical electrical loads around the clock
- Quieter, lower emission system gives the doctors and staff a healthier work environment
- Solar energy provides more than 90% of the hospital's electricity
- The system reduces the hospital's need for expensive diesel fuel

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