



Grenada energy storage for microgrids

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Grenada is seeking an independent power producer (IPP) to build and operate a 15.1 MW utility-scale PV project for 25 years. The plant, planned near Maurice Bishop International Airport, will supply about 40% of the island's peak load.

Image: Rebecca King, Unsplash

Grenada, home to 115,000 people, relies primarily on diesel for electricity. The state utility operates 15 diesel generators with a combined capacity of 50 MW, alongside 1.1 MW of small-scale PV systems. Customer-owned renewables contribute 3.5 MW.

The country aims to achieve 100% renewable energy in electricity and transport by 2030.

"The project is intended to significantly increase the contribution of renewable energy in Grenada and reduce the cost of electricity generation," said the regulator. "It is also intended to create a resilient microgrid at the MBIA to provide reliable power during long-duration grid outages."

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As the Government of Grenada (GoG) strives to achieve national renewable energy targets, the Public Utilities Regulatory Commission (PURC), in its capacity as the procuring entity has engaged Rocky Mountain Institute (RMI) to assist with developing, procuring, and implementing large ground-mount solar PV with battery storage installations at the Maurice Bishop International Airport (MBIA), Point Salines, Grenada.

In both cases the plant will also form part of a microgrid at the MBIA capable of decoupling from the grid to provide localized electricity during outage situations.



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GRENLEC is responsible for installing a new substation at the MBIA to accommodate the interconnection of the renewable energy plants to the grid and further grid upgrades.

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