

# Guam grid storage





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### Bringing Energy Solutions to You

additional 20 MW of power to export to the grid to serve the southern villages and Naval Station Guam. This project includes relocating, installing, commissioning, operating, and maintaining these units. The estimated cost for capacity restoration is \$5 to \$7 million, with annual operating costs of \$2-3 million.

## GUAM CLEAN ENERGY TRANSITION

affordable energy supply for Guam, hardening the utility's electric grid infrastructure, workforce development and management, commissioning GPA's new, combined cycle 198 megawatt Ukudu power plant under an IPP contract with KEPCO/EWP, and achieving aggressive renewable energy goals. Through his leadership efforts, the Guam Power



### APPLICATION SCENARIOS



### Guam Power Authority

GPA looks towards energy storage to address GPA performance to unit outages. GPA intends to address increased penetration of renewables, particularly solar PV systems, using energy storage systems along with new high inertia power generating units.

## Energy storage systems to help stabilize grid and avoid outages

There are two such energy storage systems on Guam and they have been operating since March. A 24 megawatt system is located at the



Hagåtña Substation.



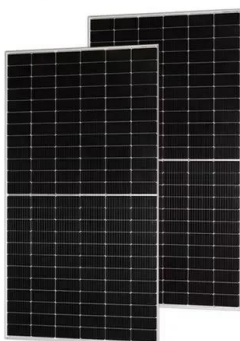
### Solar and Battery Storage System

Generation Renewable - Guam and Sunnova are now offering Solar Energy Systems with Battery Storage Systems. This means that your back up panel board in your home will have power even when utility power isn't available, like during power outages or during and after a storm.



### Ribbon cutting held for new Guam Power Authority utility-scale battery

Officials from Guam's Consolidated Commission on Utilities and Guam Power Authority (GPA) on May 14 cut a ceremonial ribbon to mark GPA bringing a utility-scale battery energy storage system (BESS) onto Guam's island-wide power grid.



### GPA to award contract for energy storage system

The Guam Power Authority is set to begin Phase 1 of its energy storage system project, which will construct and install two utility-scale energy storage units totaling 40 megawatts of power.



## **GPA GRID TRANSFORMATION**

Storage Systems (BESS) - Provides spinning reserve and frequency regulation. Greatly improves grid response to FIDVR, duck curve ramp ups, and excess solar PV production events. Provides other grid services. Flexible Efficient Generation - Better follows the changes in demand and available generation online especially when large intermittent



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