



MECK ISLAND MICROGRID

Meck Island Kwajalein Atoll, Marshall Islands

Microgrid – 2.3 MW Solar PV Array / 3 MWh Battery Energy Storage System

Hannah Solar Government Services (HSGS) was contracted by Johnson Controls, Inc. to design and install a solar photovoltaic (PV) array on Meck Island within the Kwajalein Atoll. The microgrid system is comprised of a 2.3 MW (DC) ground-mounted solar PV array accompanied by a 2.3 MWh battery energy storage system (BESS). The array itself features LG NeON modules that are supported by a Sollega structure and connected to SMA Sunny Tripower inverters.

Meck Island is located in the Kwajalein Atoll in the Marshall Islands; this island country is located in the Pacific Ocean about 1,900 miles Northeast of Papua New Guinea. Kwajalein Atoll is made up of approximately 97 islands, eleven of which are leased by the U.S. Government. Meck Island operates as a U.S. Army installation which hosts the Ronald Reagan Ballistic Missile Defense Test Site (RTS) as well as other strategic military assets.



Project Specifications:

Customer: Johnson Controls, Inc.

Project Value: \$9 M

Project Completion: March 2020

Role: Subcontractor – Designer and Installer

Equipment Specifications:

Modules: LG NeON 2

Inverter: SMA Sunny Tripower

BESS: Samsung

Structure: Sollega Fast Rack 510

ABOUT US: Hannah Solar Government Services (HSGS) is a Service-Disabled Veteran Owned Small Business (SDVOSB) leading the way in global energy security by designing and building renewable energy and microgrid systems. HSGS specializes in the design, engineering, construction, and maintenance of solar PV, energy storage, and microgrid systems. Serving government, commercial, industrial clients, HSGS' breadth of experience includes projects that span the continental United States as well as overseas.



Hannah Solar Government Services
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U.S. ARMY GARRISON MAINTENANCE

Kwajalein Atoll, Republic of the Marshall Islands

2.3 MW Solar PV System + 750 kWh BESS

Hannah Solar Government Services (HSGS) was contracted by Johnson Controls Federal to perform regular preventative and reactionary services for the microgrid located on Meck Island in South Pacific. This microgrid consists of a 2.3 MW ground-mounted solar PV array, a 3 MWh battery energy storage system (BESS), and four 750-kW diesel generators. HSGS performs inspections and preventative maintenance for the Meck island microgrid twice a year since 2018. These services include:

- Performance tests
- Visual inspections of the inverters, combiners, sub-combiners, and solar modules.
- Repair or replace damaged components as necessary
- Analyze the microgrid to ensure its operating at peak performance
- Upgrades to the system based on new technologies



Project Specifications:

Customer: Johnson Controls Government Systems

Project Value: \$310k annually

Project Duration: 2018—Ongoing

Role: Prime Contractor – Maintenance

Equipment Specifications:

Modules: LG

Inverter: SMA Sunny Tripower

Structure: Sollega Fast Rack

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