WAKE ISLAND MICROGRID

Wake Island

Microgrid –740-kW Solar PV Array / 571-kWh Battery Energy Storage System

Hannah Solar Government Services (HSGS) was contracted by Wood Environment and Infrastructure Solutions to install a microgrid system for the U.S. Air Force on Wake Island. The microgrid consists of two energy sources: a 740-kW (DC) ground-mounted solar photovoltaic (PV) array and a 571-kilowatt hour (kWh) battery energy storage system (BESS). This solar PV system features Merlin Solar modules that are supported by an AP Alternatives structure and are connected to SMA Sunny Tripower inverters. The BESS installed on Wake Island is a Samsung Lithium-Ion Battery.

Before the incorporation of the microgrid system, Wake Island's facilities and defense assets were solely powered by generators that rely on costly fuel shipped from across the Pacific Ocean. With on-site energy generation and storage, the U.S. Air Force is powering its critical facilities without shipped fuel. Located just west of the international date line in the Pacific Ocean, Wake Island is a 2.8 square mile coral atoll and is most known for its role in World War II. Today, Wake Island hosts a U.S. Air Force airfield as well as other strategic military assets.

Project Specifications:

Customer: Wood Environment and Infrastructure Solutions, Inc.

Project Value: $5.2 M

Project Completion: July 2019

Role: Subcontractor – Installer

Equipment Specifications:

Modules: Merlin Solar

Inverter: SMA Sunny Tripower

Structure: AP Alternatives

BESS: Samsung

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

A Service-Disabled Veteran Owned Small Business

Veterans Leading The Way In Global Energy Security

www.hsgs.solar | 843.718.1866

WAKE ISLAND MICROGRID

Wake Island, U.S. Minor Outlying Islands

Microgrid –740-kW Solar PV Array / 571-kWh Battery Energy Storage System

Hannah Solar Government Services (HSGS) was contracted by ARSC Federal to conduct annual inspections and preventative maintenance of the solar photovoltaic (PV) microgrid system that provides energy for the U.S. Air Force's activities on the island. The 740-kW (DC) ground-mounted system features Merlin Solar modules that are supported by an AP Alternatives structure and connected to SMA inverters. The BESS is by Samsung.

HSGS performs inspection and preventative maintenance for Wake Island's microgrid as the needs arise. These services include, but are not limited to:

- Performance tests
- Module cleaning and replacement
- Remote monitoring services
- Visual inspections of structural, mechanical, and electrical components
- Replacement of components as needed
- Written report of findings

Project Specifications:

Customer: ASRC Federal

Project Value: $127 K

Project Duration: As needed

Role: Prime Contractor – Maintenance

Equipment Specifications:

Modules: Merlin Solar

Inverter: SMA Sunny Tripower

Structure: AP Alternatives

BESS: Samsung

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