ECIP Microgrid: 740 kW DC Solar PV System & 571 kWh Battery Energy Storage System

U.S. Air Force
Wake Island

Hannah Solar Government Services (HSGS) was contracted by Wood Environment & Infrastructure Solutions, Inc. to construct a microgrid system for the US Air Force located on Wake Island. The energy sources featured in this microgrid are a 740 kilowatt (kW) DC ground mounted solar PV system and a 571 kWh battery energy storage system. With on-site energy generation and energy storage, the Air Force is powering it's critical facilities without relying on costly shipments of fuel.

Wake Island is a 2.8 sq.-mi coral atoll located west of the international date line in the Pacific Ocean and is most known for its role in World War II. Today Wake Island hosts an US Air Force airfield and other strategic military assets. 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.

HANNAH SOLAR GOVERNMENT SERVICES

OVERVIEW:

OWNER/CUSTOMER: US Air Force
PRIME CONTRACTOR: Wood Environment & Infrastructure Solutions, Inc.
DESIGNER/INSTALLER: Hannah Solar Government Services
LOCATION: Wake Island
SOLAR PV SYSTEM CAPACITY: 740 kW
BATTERY STORAGE CAPACITY: 571 kWh
CONTRACT VALUE: $5.2 M

PERIOD OF PERFORMANCE

- **AWARD DATE:** December 2018
- **COMPLETION DATE:** July 2019

EQUIPMENT SPECIFICATIONS

- **MODULES:** Merlin Solar BR Series MST 320
- **INVERTER:** SMA Sunny Tripower
- **MOUNTING:** AP Alternatives
- **BESS:** Samsung Lithium Ion Battery Cell

Service Disabled Veteran Owned Small Business ★ SDVOSB ★ cVE

About Hannah Solar Government Services: 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, and utility clients, HSGS's breadth of experience includes projects that span the continental United States as well as overseas.