# NASEO: 2020 Energy Policy Outlook Conference & Innovation Summit

Mr. J.E. "Jack" Surash, P.E. Acting Deputy Assistant Secretary of the Army for Energy and Sustainability

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# Installation Energy Resilience



"Installations are where we build readiness, sustain the force, develop Army culture, and support our Soldiers and their Families. We must address the challenges of today, while thinking about the future, and transition our 'industrial age' installations to be resilient in the 'information age' of the 21st century."

### - Honorable Alex A. Beehler

Assistant Secretary of the United States Army Installations, Energy and Environment

# Risks to Energy Resilience



"Russia has the ability to execute cyber attacks in the United States that generate localized, temporary disruptive effects on critical infrastructure....Moscow is mapping our critical infrastructure with the long-term goal of being able to cause substantial damage."

# **Funding Energy Resilience**

### **Implementation Methods**

### **Appropriated**

- Military Construction
- Energy Resilience and Conservation Investment Program
- Restoration and Modernization
- Army Working Capital

## **Third Party Financing**

- Energy Savings Performance Contracts/ Utility Energy Service Contracts
- Utility Privatization
- Private Capital (Office of Energy Initiatives)
- Enhanced Use Leases

#### Low Cost/No Cost

- Planning
- Installation Energy and Water Plans
- Best Management Practices
- Energy Resilience Readiness Exercises



Fort Campbell, KY: MILCON
Conceptual drawing a microgrid included in the FY2018 NDAA







#### Anniston Army Depot, AL: UESC

Replacement and Modernization of Depot-wide central heating and process high pressure steam plants, HVAC equipment and controls, interior and exterior lighting, compressed air equipment and distributions, and potable water fixtures.



Schofield Barracks, HI: Lease

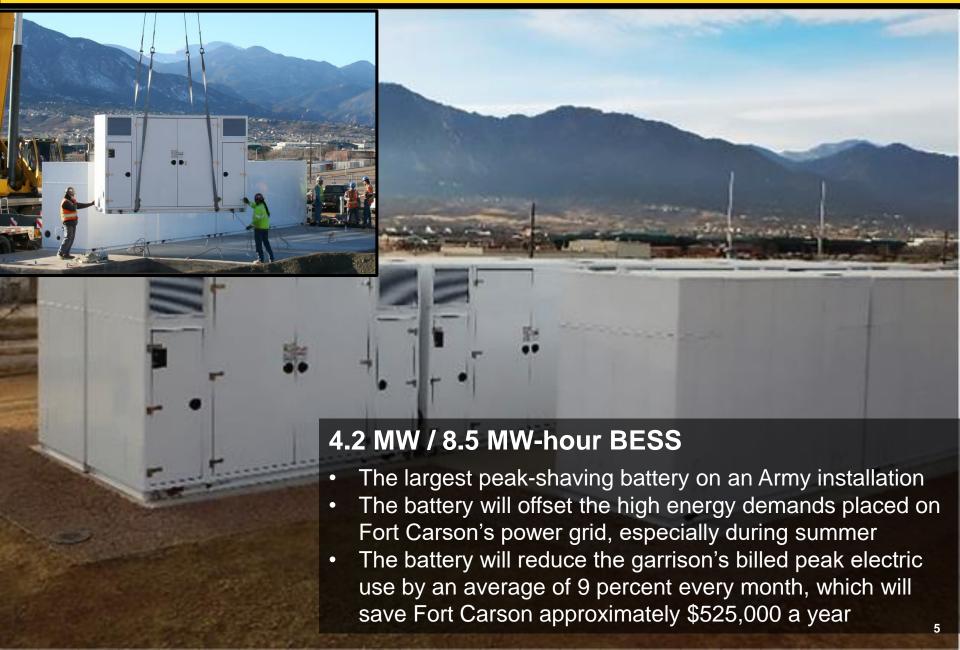
Project: 50 MW / 30 day contingency microgrid where Hawaiian Electric constructed, owns, operates and maintains a 50 MW multi-fuel power generation plant, fuel storage tanks, and controls.



### **AMERICA'S ARMY:**

Globally Responsive, Regionally Engaged

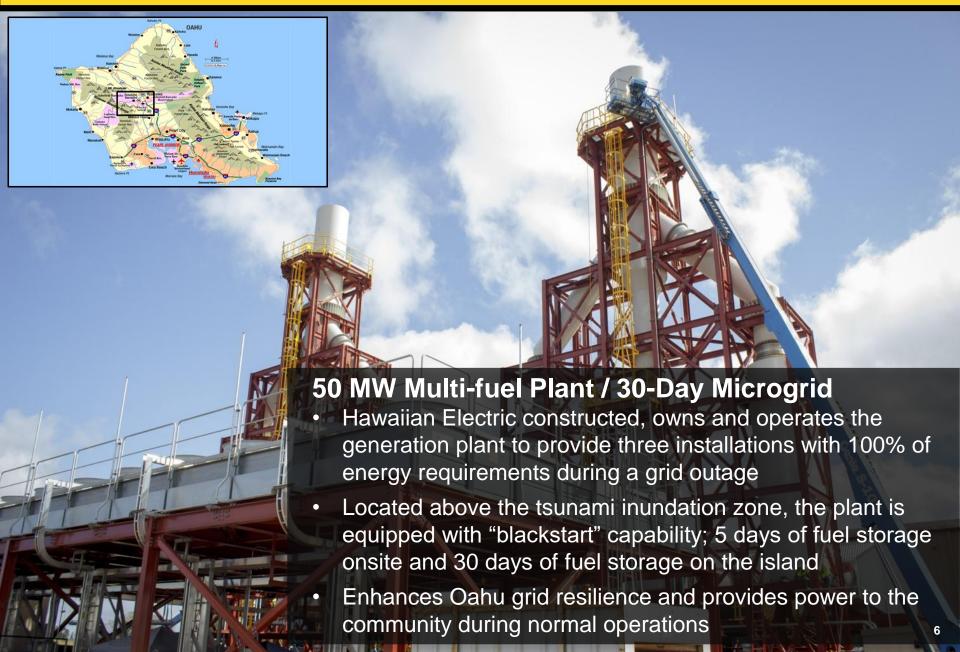
# Battery Energy Storage Fort Carson, CO



### **AMERICA'S ARMY:**

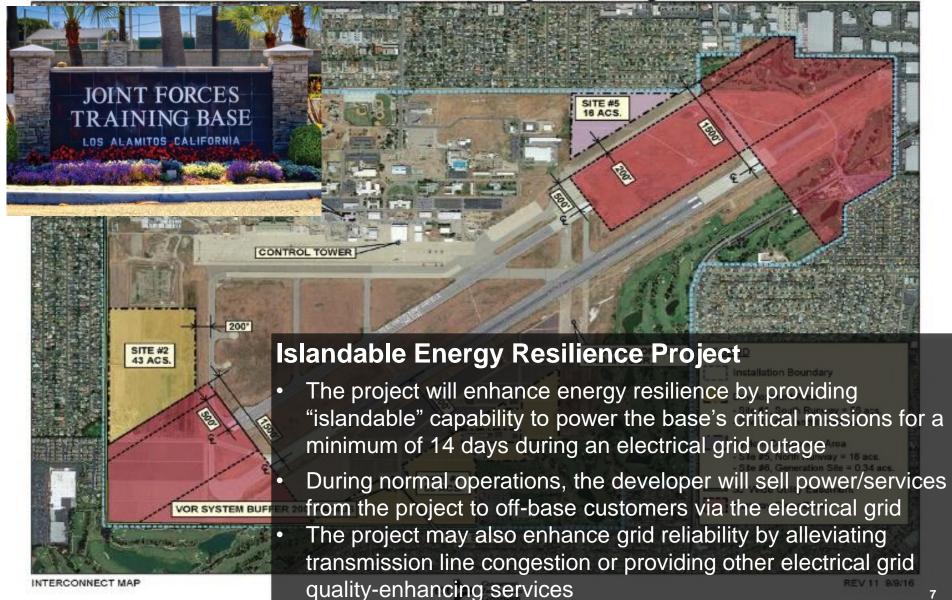
Globally Responsive, Regionally Engaged

# **Energy Resilience at Schofield Barracks, HI**



# Joint Forces Training Base Los Alamitos, CA

ATTACHMENT A - JFTB Los Alamitos - Map Delineating the Parcels



# Advanced Conservation Voltage Reduction





# **Environmental Security Technology Certification Program:**

- Demonstrate innovative cost-effective environmental and energy technologies
- Promote implementation Tech Transfer
- Energy & Water is one of the five ESTCP Program Areas

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@ASArmylEE

