

OFFICE OF ENERGY INITIATIVES

Securing Army installations with **energy** that is **resilient**, **affordable**, and **sustainable**

2019 NARUC Winter Policy Summit:

Michael McGhee

Executive Director 10 February 2019

Assistant Secretary of the Army (Installations, Energy & Environment)



Army Office of Energy Initiatives (OEI) Current Energy Projects Portfolio



INCREASING ENERGY SECURITY AND RESILIENCE ACROSS ARMY INSTALLATIONS



Energy Security Project: USAG, Hawaii







Project: 50 MW / 30 Day Contingency Microgrid

Hawaiian Electric constructed, owns, operates and maintains a 50 MW biofuel/multi-fuel power generation plant, fuel storage tanks, and controls, in a secure location on Schofield Barracks.

Army Benefit: Plant can provide 50 MW of "first call" and "black start" capability to three Army installations simultaneously; 5 days of fuel storage onsite, 30 days of fuel storage on island.

Utility Benefit Hawaiian Electric has a critical generation facility above the tsunami inundation zone, which will power the Oahu grid during normal operations

Community Benefit As the only baseload power generation facility on Oahu located above the tsunami inundation zone, this project enhances grid resilience and could provide power to part of the surrounding community in the event of a grid outage.

Status Operational since May 2018.

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Energy Security Project Concept: Fort Sill, OK







Project Concept: National, Community and Utility Energy Security Alignment

Public Service Corporation of Oklahoma may construct, own, operate and maintain approximately 36 MWs natural gas fueled grid-facing power plant and approximately 14 MW solar PV array with controls.

Army Benefit The project would enhance energy resilience by locating on-demand generating assets on Fort Sill that are capable of suppling reliable power to mission critical facilities during a commercial grid disruption.

Utility Benefit Utility gains a distributed asset enhancing grid reliability in normal operations that aligns with their Integrated Resource Plan. Power from the project would flow directly to the commercial grid.

Community Benefit The project provides additional operational flexibility that further improves electrical service to the surrounding Lawton community.

Status Project in pre-negotiation stage. NEPA is underway in 1st public comment period and consultation phase.



Energy Efficiency and Conservation





Driver	Federal Mandates		DEMAND RESPON
Assessment Footprints	Square-footage and load		
Risk Considerations	N/A		
Solutions	Building load management strategies and onsite generation		
Project Prioritization	Cost effectiveness		

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OEI Contact Information



Thank you

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