2019 NARUC Winter Policy Summit:

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Executive Director
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Army Office of Energy Initiatives (OEI)

Current Energy Projects Portfolio

- Ft. SILL, OK 1&2: Microgrid, ERCIP
- REDSTONE ARSENAL, AL: PPA
- ROCK ISLAND ARSENAL, IL: Microgrid
- ANNISTON ARMY DEPOT, AL 1&2: Microgrid, ERCIP
- FT. DRUM, NY: Microgrid, PPA
- FT. STEWART, GA 1&2: ERCIP
- HUMPHREYS ENGINEER CENTER, VA: Microgrid
- FT. GORDON, GA 1-3: Microgrid, ERCIP
- FT. BENVING, GA 1-3: Microgrid, ERCIP
- FT. STEWART, GA 1&2: ERCIP
- CAMP RODRIGUEZ, TX: Microgrid, ERCIP
- CAMP MABRY, TX: Microgrid, ERCIP
- SCHOFIELD BARRACKS, HI: Microgrid

Project Status:
- Phase 1: Assessment
- Phase 2: Validation
- Phase 3: Contracts & Agreements
- Phase 4: Construction
- Phase 5: Operational

Renewable and Alternative Energy Key:
- Biofuel
- Diesel
- Hydro
- Solar
- Battery Storage
- Controls
- No Storage
- No Controls
- Generation
- Natural Gas
- Wind
- Storage / Supply
- No Generation
- Project is Islandable

Increasing Energy Security and Resilience Across Army Installations

As of February 2019
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.
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 supplying 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

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

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Thank you

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