

NARUC Winter Committee Meetings

***A National  
Focus  
on  
Resiliency***





**NARUC** Winter Committee Meetings

**Mark Correll**

**Deputy Assistant Secretary  
for Environment, Safety, and  
Infrastructure**

**US Air Force**



# ***Headquarters U.S. Air Force***

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*Integrity - Service - Excellence*

## **Protecting Air Force Power**



Mr. Mark Correll  
Deputy Assistant Secretary  
Environment, Safety & Infrastructure  
15 Feb 2017

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# Key Air Force Energy Trends







# *What is needed to protect the power?*



## **Three Lines of Effort**

**Assess Vulnerabilities**

**Scale Resilience and  
Protect & Defend**

**Rapidly Deploy  
Game-Changing Technologies**





**U.S. AIR FORCE**



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NARUC Winter Committee Meetings

**Michael McGhee**

**Executive Director**

**Energy Initiatives**

**US Army**







## OFFICE OF ENERGY INITIATIVES

**Securing** Army installations with **energy**  
that is **clean**, **reliable** and **affordable**

# U.S. Army Office of Energy Initiatives

*Mr. Michael McGhee*

*[www.oei.army.mil](http://www.oei.army.mil)*

*15 February 2017*





# Significant Progress for Large-Scale Energy Resiliency Projects



*Fort Benning, GA: 30 MW Solar Array*



*Fort Gordon, GA 30MW Solar Array*



*Fort Stewart, GA 30 MW Solar Array*



*Fort Hood, TX 50 MW Wind*



*Schofield Barracks, HI 50MW Generation Station Rendering*





# Renewable and Alternative Energy Security Projects: >500 MW



## Energy Security Key

- Onsite Generation
- Onsite Storage
- Controls

## Renewable and Alternative Technology Key

- Solar
- Wind
- Geothermal
- Hydro
- Storage
- Biomass
- CHP
- Battery
- Natural Gas
- Controls

## Installation Project Status

- Phase 1: Assessment
- Phase 2: Validation
- Phase 3: Contracts & Agreements
- Phase 4: Construction
- Phase 5: Operations & Support

**Yakima Training Center: 80 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Tooele Army Depot: 10 MW**  
Microgrid-ready onsite generation, feeds the external grid

**JFTB Los Alamitos: 16 MW**  
Access to onsite contingency generation through a microgrid

**Ft. Huachuca: 18 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Schofield Barracks: 50 MW**  
Access to onsite contingency generation through a microgrid

**Ft. Sill: 20 MW**  
Access to onsite contingency generation through a microgrid

**Ft. Hood: 65 MW**  
Access to onsite non-contingent generation

**Camp Shelby: 14 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Rock Island Arsenal: 8.5 MW**  
Access to onsite non-contingency generation

**Redstone Arsenal CHP: 25 MW**  
Access to onsite contingency generation through a microgrid

**Redstone Arsenal Solar: 8 MW**  
Access to onsite non-contingency generation

**Ft. Benning: 30 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Ft. Rucker: 10 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Ft. Drum: 60 MW**  
Access to onsite contingency generation through a microgrid

**Ft. Detrick: 15 MW**  
Access to onsite non-contingency generation

**Anniston Army Depot: 10 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Ft. Gordon: 30 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Ft. Benning 2: 13 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Ft. Stewart: 30 MW**  
Microgrid-ready onsite generation, feeds the external grid

**Ft. A.P. Hill: ~20 MW**  
Microgrid-ready onsite generation, feeds the external grid

As of 31 Jan 17

## Increasing Energy Security and Resiliency Across Army Installations

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