Energy Assurance for Air Force Installations

25 OCT 2018

Mr. Robert Hughes
Energy Threats Compromise Missions

A well-orchestrated attack (physical or cyber) on the grid could cripple the electric system, cause tremendous economic damage, put the country’s vulnerable populations at risk, and compromise the Air Force’s ability to conduct its mission.
Mission Assurance through Energy Assurance

Strategic Energy Goals

- Improve Resiliency
- Optimize Demand
- Assure Supply

Energy Assurance involves activities across the operational and installation spectrums designed to ensure the Air Force has the energy when and where it is needed to ensure it can accomplish its mission.
Deliver creative installation energy resiliency solutions to meet 21st century threats

The recognized leader for implementing innovative energy assurance solutions that provide the Air Force with mission-ready installations

Oversee Air Force facilities energy program by consolidating requirements, leveraging partnerships & monitoring execution of facilities energy projects
**GOALS**

- Serve as a single point of entry for all facilities energy requirements
- Act as facilitator/integrator to maximize energy assurance and track execution with appropriate Air Force organizations
- Integrate energy assurance into Air Force facilities energy project portfolio by leveraging public, private & community partnerships

**APPROACH**

- Develop partnerships with leading innovators to leverage resources & enable best resilient technologies
- Standardize intake & execution of Air Force energy projects
- Increase momentum of projects outside the standard government schedule
OEA Partnerships

Installation

Community

Industry

Apply lessons learned & best practices
Gain better understanding of current business environment
Build mutually beneficial relationships
Accomplish more, faster

Mission Assurance through Energy Assurance
Air Force Energy Toolbox

Third Party Agreements
- Land Outgrants
- Power Purchase Agreement
- ESPCs / UESCs
- Leveraging Utility Privatization
- Utility Service Contract

Partnerships
- Communities
- Installation tenants
- State & local gov't
- Federal

Programmed Funding
- Research & Development
- MILCON / SRM Funds
- Energy Resilience & Conservation Investment Program
Mission Assurance through Energy Assurance

OEA Project Concepts and Opportunities

Map is current as of June 2018. Project concepts and opportunities may change during the project lifecycle.

KEY
- Current project concepts
- Project concept & MERC sites
- EaaS pilot sites
- Engaged sites
- Engaged MERC sites

Battery
Natural Gas
Combined Heat and Power
Solar

Beale AFB
Creech AFB
Hill AFB
McConnell AFB
Tinker AFB
Offut AFB
Whiteman AFB
Little Rock AFB
Barksdale AFB
Barnes AFB
Hanscom AFB
Joint Base McGuire-Dix-Lakehurst
Joint Base Andrews
Joint Base Langley-Eustis
Dobbins AFB
Maxwell AFB-Gunter Annex
Scott AFB
MacDill AFB

United States Air Force
Resilience Need: Only DoD base home to Air Force, Army and Navy missions

**PROJECT BENEFITS**

- Support critical missions with uninterrupted power during grid outage
- Resilient investment opportunities
- Regional power stability

**ENHANCED USE LEASE PROJECT DETAILS**

| New on-site asset: 300-1000 MW Natural Gas Power Plant | In-kind / cash consideration for resilience investments on Dix portion of base | Completed RFI and Industry Exchange in March 2018 |

**POWER PURCHASE AGREEMENT PROJECT DETAILS**

| Technology agnostic asset: 16,000,000+ kWh of locally-generated power | Non-interruptible primary power & 6-12 MW islanding capability during grid outage | Completed RFI in June 2018 |
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Stay Connected!

Visit the OEA Website: WWW.SAFIE.HQ.AF.MIL/PROGRAMS/ENERGY/OEA

Reply to the RFI: http://go.usa.gov/xUebU, solicitation # W912DY-18-U-OEA1

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