



***OASD(EI&E)
Facility Energy Directorate
Federal Utility Partnership
Working Group Seminar
April 22, 2015***





Overview Energy Resilience

Acquisition, Technology and Logistics

- ☐ DoD Power Resilience Review
- ☐ DoD Energy Resilience Overview and Next Steps
- ☐ DoD Energy Resilience (1) Guidance & (2) Business Case Analysis Review



Overview

Power Resilience Review

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- ❑ OASD(EI&E) conducted a DoD Power Resilience Review from Dec 2013 – Jun 2014¹
- ❑ DoD-wide power resilience review helped understand vulnerabilities and risks that impact mission assurance
 - Results included 500+ CONUS/Hawaii/Alaska installations, sites and facilities
 - Examined adherence to key resilience policies and policy gaps
 - Identified more integrated/holistic critical energy requirements
- ❑ Focus was on remediating issues associated with existing critical energy requirements and policies

¹Further details on the power resilience review, along with resilience guidance are located at: <http://www.acq.osd.mil/ie/energy/power.shtml>.



Energy Resilience Findings and Next Steps

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DoD energy resilience is, the ability to prepare for and recover from energy disruptions that impact mission assurance on military installations.

❑ What we found?

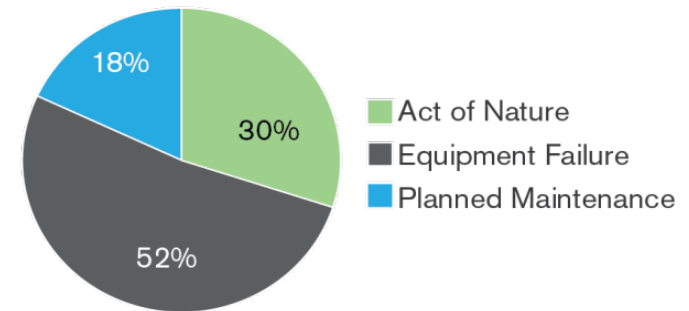
- Many energy resilience policies did already exist
- Disruptions primarily from natural and reliability issues
- ‘Critical’ energy requirements were identified by DoD Components that align to mission assurance
- Most solutions for critical energy requirements are fixed backup generators tied to a critical facility
 - Opportunities beyond generators could be more *cost-effective* while also improving *mission readiness*

❑ What are we doing now?

- Developing universal energy resilience guidance
 - Ensure performance against existing requirements
 - Encourage the most *cost-effective* solutions that improve *mission readiness*
- Developing business case analyses (BCA) approaches to support budgetary resources or alternative financing opportunities
 - Study to review BCA approaches (MIT-LL Study)

FY 2014 Utility Outages²

Utility Outages by Cause



Results – Dec 2013 thru June 2014

Existing Requirements Reviewed	DoD % Compliant
Trained Operator	90%
Received Preventive Maintenance	94%
Fueling Contracts in Place w/ DLA*	74%
Fueling Plans in Place	84%
Testing/Exercising	60%

*Installations also have contracts in place with other providers.

²Further details of utility outages are found in DoD’s Annual Energy Management Report, located at the following: http://www.acq.osd.mil/ie/energy/energymgmt_report/main.shtml.



Energy Resilience Guidance & BCA Overview

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❑ Developing universal energy resilience guidance

- Define, identify, and update 'critical' energy requirements
- Emergency energy preparedness – communication and coordination
- Continue to perform against already existing requirements
- Encourage the most cost-effective solutions that improve mission assurance

❑ Developing business case analyses (BCA) approaches to support budgetary resources or alternative financing

- Evaluate current DoD life cycle cost analysis approaches and levelized cost of electricity practices and methodologies
- Items of interest include:
 - ✓ *Operations, maintenance, and repair related costs*
 - ✓ *Disruption/outage costs*
 - ✓ *Financial incentives*
 - ✓ *Availability, reliability, and quality metrics*