Federal Utility Partnership Working Group Seminar

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2018 NDS outlines a stressing security environment
- “Every domain is contested – air, land, sea, space, and cyberspace”
- “Lethal and disruptive battlefield, combined across domains, and conducted at increasing speed and reach”
- “The homeland is no longer a sanctuary”

Future requirements:
- Distributed operations, logistics
- Dispersed, resilient, adaptive basing
- Ensure sustainment under attack
- High energy weapons, sensors
Sustainment Vision: DoD has resilient energy needed to deter wars and ensure our Nation’s security.

• Mission
  – Sustain warfighting readiness and lethality by providing all energy-related policy and governance for programs and activities that enable resilient, efficient, and cyber-secure energy for Joint Forces, weapon systems, and installations

• ASD(Sustainment) priorities aligned to NDS
  – Prepare the battlefield for 2025
  – Create and sustain resilient installations

• Four primary focus areas:
  – Energy Resilience
  – Energy Risk
  – Energy Performance
  – Cyber Secure Facilities
Aligning Policies with Strategy

- **Installation Energy Plans (IEPs) Policy**
  - DoD policy memo requiring IEPs (Mar ’16)
  - Supplemental IEP Guidance (May ’18)
    - Expand IEPs to all installations; Priority installations’ IEPs to be completed by end of FY’19
    - Explicitly requires energy resilience (ER) and cybersecurity (CS) be part of each IEP
  - Annual program reviews – maintain IEPs as living documents designed to identify, evaluate, & mitigate energy risks to critical missions

- **Energy Resilience (ER)**
  - DoD Power Resilience Review (Dec ’13 – Aug ’14)
  - DoDI 4170.11 Installation Energy Management: ER requirements added (Mar ’16)
  - MIT/LL ER Business Case Analysis Study (Oct ’16)
  - DoD ER Operations, Maintenance and Testing Guidance (Mar ’17)
  - *Draft policy - DoD ER Guidance (ECD: FY ’19)*

- **Facility Related Control Systems (FRCS)**
  - DepSecDef directs Components to cyber secure ALL control system types (Jul ’18)
  - DoD CIO directs Component alignment to DoD Cyber Strategy & Posture Review (Dec ’18)
Integrating resilience and cyber requirements into policy maintains alignment during execution.

- Energy Resilience, Cybersecurity, & Sustainment Costs Integrated into Demand Response & Alternative Financing
  - Incorporate ER as driver for Demand Response (Mar ’18)
  - Incorporate ER, CS, and Maintenance, Repair and Replacement (MR&R) costs into ESPCs and UESCs (Nov ’18)
  - Incorporate ER and CS into Utilities Privatization projects (Feb ’19)
  - Future policy will require better M&V/Performance Assurance to strengthen post-award oversight to delivering ER & CS, and guaranteed savings
Energy Performance Cycle

EPP Governance

1. Plan
   - Critical Loads
     - Warfighter Requirements
     - Real Property Master Plan
   - Mission Driven
   - Multiple Nodes

2. Do
   - Multiple Flows
     - Sources of Energy
   - Affordable / Timely

3. Check
   - Warfighter Outcome: Ready, Lethal, Affordable Combat Power
   - Installation
   - Validated
   - Detonation

4. Act

Energy Performance Program Outcomes

• **Readiness Outcomes**
  – Hardening cybersecurity and prioritizing energy resilience
  – Cyber planning mitigates risk/vulnerabilities to critical missions (i.e. FRCS)
  – Improved knowledge of energy resilience and cybersecurity

• **Lethality Outcomes**
  – Focusing efforts at key/priority installations
  – Prioritizing critical loads
  – Integrating mission and real property stakeholders as part of IEP and ER process
  – Skilled workforce to implement the National Defense Strategy

• **Accountability / Transparency Outcomes**
  – Developing data driven programs with annual reviews and better metrics
  – Refining policies