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Energy Security

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Energy Security: Key Elements

- **Reliability:** Adequacy and Reliability
- **Resiliency:** system's ability to withstand stress, minimize service disruptions during events, and quickly recover
- **A Strong Bulk Power Grid**
- **Redundancy:** throughout a utility's distribution, transmission, generation, data, and other components
- **Flexibility of Assets to Minimize Price Volatility**
- **Established relationships and close coordination with critical stakeholders**
 - DHS, DoE, FERC, FBI, NERC, FEMA, DoD, and local authorities

Key Industry Issues

- **Reduce GHG Emissions by:**
 - Embracing Energy Efficiency and Demand Response
 - Developing clean generation technologies
 - Embracing renewables *and* the necessary transmission
 - Embracing new technologies such as PHEVs
- **Physical and Cyber Security Concerns**

The Smart Grid will help address and enable the above.

Strengthening the Grid and Enhancing Energy Security

- **Significant investments in transmission and distribution**
- **Industry Emergency Planning and Coordination:**
 - **EI CEO and Executive Committees and Task Forces:**
 - CEO Business Continuity Task Force
 - CEO Energy Delivery Policy Committee
 - Executive Security Committee
 - **Mutual Assistance Program**
 - **Spare Transformer Equipment Program (STEP)**

Utility Transmission and Distribution Reliability Planning and Response

- **Continuously assessing vulnerabilities and hardening systems**
- **Established Response Plans**
- **Restoration Mobilization**
 - Emergency and communications teams activate across the company
 - Local authorities and community coordination
 - Material and outside resource utilization
- **Restoration Priorities**
 - Remove Hazardous Conditions
 - Restore Critical Loads
 - Transmission – stabilize infrastructure, re-energize circuits, substations, repair
 - Maximize the number of customers restored

Established relationships with your utilities are critical!!!

EEI – DoD Partnership

Executive Level Outreach and Dialogue

- **March CEO-DoD Energy Security Meeting:** 24 EEI CEOs meet with Dr. Dorothy Robyn, Deputy Under Secretary of Defense (Installations and Environment) and acting branch assistant secretaries
- **Follow-up July 2 Meeting** with EEI Energy Security Task Force CEOs led by HECO, Southern, Dominion and EEI with Dr. Robyn, and Assistant Secretaries Jackie Pfannenstiel (Navy), Katherine Hammack (Army), and Terry Yonkers (Air Force)
- **Discussed the establishment of forums for continued DoD-Utility Executive-level dialogue and the formation of working teams to address energy security issues, including:**
 - Enhanced energy security communications between utilities and installations
 - Model template for utility plants on DoD sites for energy security purposes
 - Improved coordination on large scale renewable projects

Energy Security – Moving Forward and Working Together

- **Continued Communications at local, regional, national level**
- **Smart Grid deployment built with cyber security in mind**
 - Protecting SCADA systems
 - Recognition of potential impact to distribution systems
 - Importance of testing and verifying/pilot programs
- **Enhanced Federal/DoD - Utility Partnerships**
 - High-level lines of communication so all sides understand realistic threats
 - Communications at local level regarding utility operations and security/threat information.
 - Exercises with local and Federal stakeholders

Thank You