



Strengthening States' Energy Emergency Preparedness and Response Capabilities

Infrastructure Security and Energy Restoration (ISER) Division, Office of Cybersecurity, Energy Security, and Emergency Response (CESER)

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Infrastructure Security and Energy Restoration (ISER)

Preparedness and Exercises



- Energy Sector Exercises
- Energy Assurance
- Sector Specific Agency Responsibilities
- Risk and Hazards Analysis
- International & Defense
- Cyber Preparedness

Emergency Response and Recovery



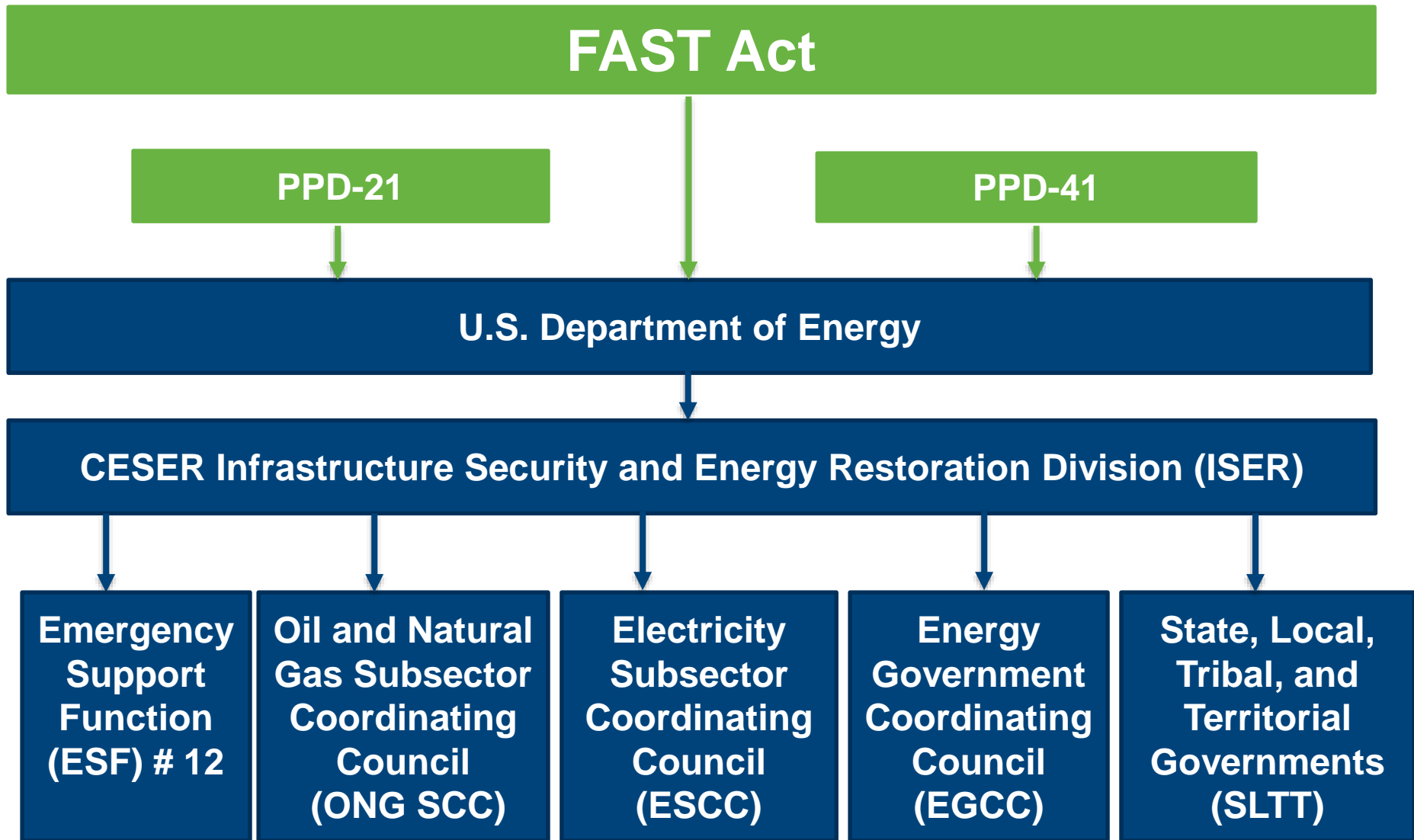
- Emergency Response
- Cyber Incident Coordination
- Energy Sector Situational Awareness and Analysis



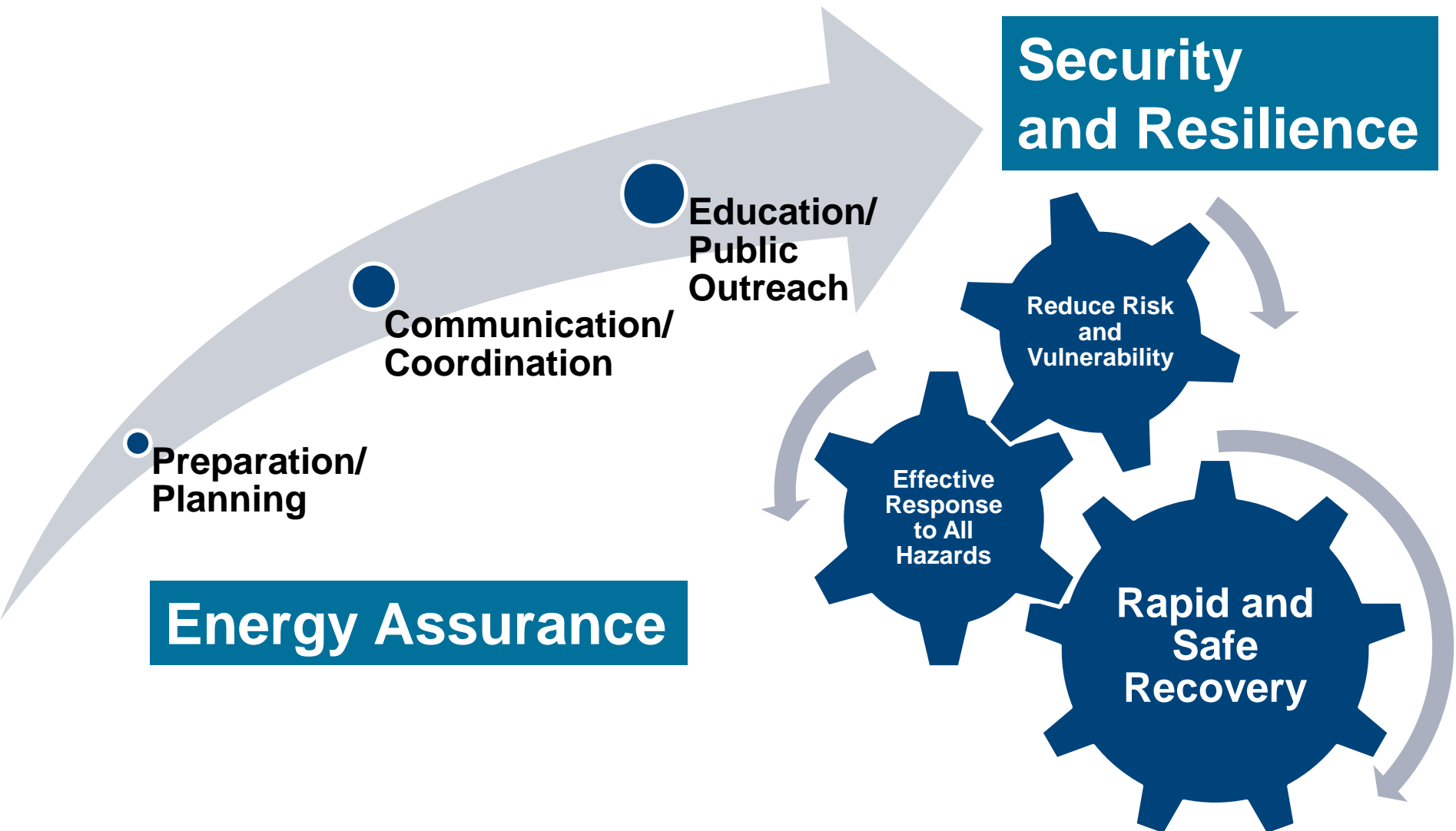
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DOE's Role as Energy Sector Specific Agency (SSA)



What is Energy Assurance?



State Role in Energy Assurance Planning



Data Tracking & Monitoring

- Energy profile
- Capacity and flows
- Critical infrastructure
- Threats and hazards and related risk



Authorities & Responsibilities

- Emergency declarations and waivers
- Connection to other state plans
- Emergency electrical procedures
- Petroleum shortage plans
- Federal frameworks (e.g., National Infrastructure Protection Plan, National Response Framework)

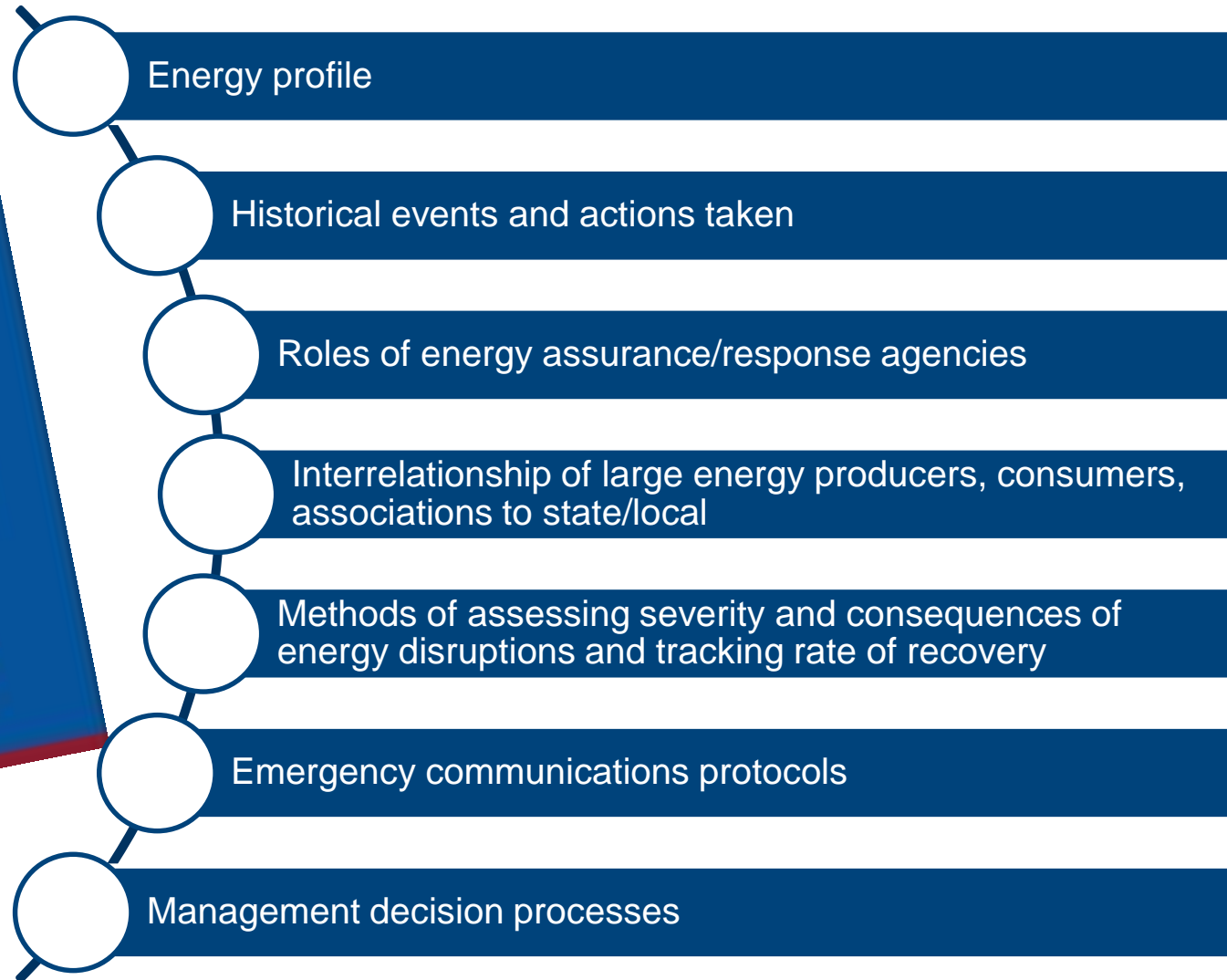
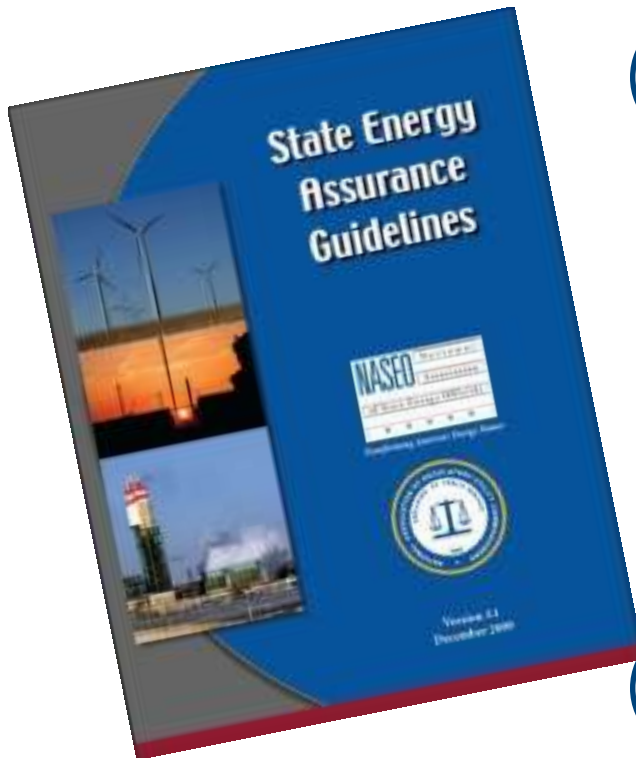


Contacts & Coordination

- Local governments
- General public
- Other state agencies
- Neighboring States
- Petroleum suppliers
- Gas and electric utilities
- Distribution companies
- Industry associations



State Energy Assurance Plans



EAP Resources:

<https://www.naseo.org/energyassurance>



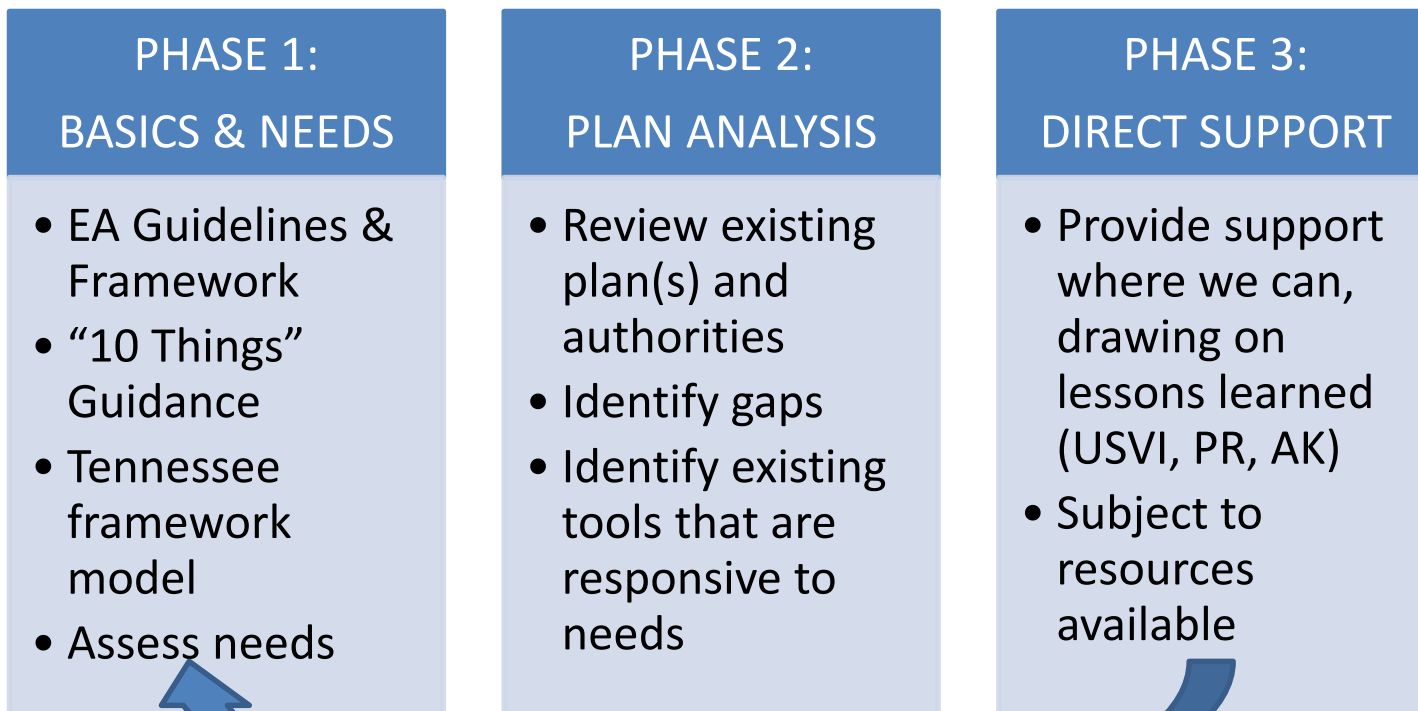
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Energy Assurance Accelerator

Phased approach to provide basic understanding, existing planning materials and tools, and targeted needs-based support for SLTT teams with similar needs.



Build new foundational materials based on direct TA

Response Checklist

- ✓ Check EAGLE-I Login Information:
<https://eagle-i.doe.gov/login>
- ✓ Check Energy Emergency Assurance Coordinator (EEAC) contact information in ISERNet:
<https://www.oe.netl.doe.gov/ISERNET/login.aspx>
- ✓ Consult the Energy Waiver Library:
<https://www.energy.gov/ceser/energy-waiver-library>
- ✓ Familiarize with DOE Situation Report Website:
<https://www.energy.gov/ceser/activities/energy-security/monitoring-reporting-analysis/emergency-situation-reports>
- ✓ Know your DOE Regional Coordinator:
See map and email energyresponsecenter@hq.doe.gov for contact information.



State and Industry Team

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Back Up Slides



Key Findings from Most Recent Energy Assurance Workshop (July 2018)

Key Finding

Education and Training – Frequent turnover in state agency staff creates continuous need for educating and training staff on energy assurance planning and how to integrate cyber threats into planning and response.

Update Energy Assurance Plans – Updates to include an energy profile of the state, information to help orient new energy assurance coordinators, information on cybersecurity, and other content to improve quality.

Conduct Regional Workshops and Exercises – To test EAPs, identify gaps, educate new staff on preparedness and response, and establishing contacts in other organizations. Regional workshops improve communication across states.

Coordinate Preparedness and Response Efforts and Unity of Message - Public messaging continues to be important to ensure messaging is unified among states within a region, and between government and industry.

Develop Resilient Communication Methods and Effective Social Media – Back-up communication methods will be needed in the event of a long term outage impacting communications infrastructure including the internet. Increasing use of social media requires increased focus to combat misinformation and to ensure the public has accurate, up-to-date information they need.

Reduce Vulnerability to Fuel and Propane Supply Disruptions – States and customers need a better understanding of the supply infrastructure, supply contracts, and methods to have supply on hand if disruptions occur.

ISER Coordination with States – Current Examples

Promote American Resilience – Energy sector has the resilience to withstand and recover rapidly from all hazards.

1 – Enhanced risk management based on a shared understanding of risks and hazards for better decision making.

2 – Strengthened capabilities to support a culture of resilience across the energy sector.

3 – Established policies, procedures, and relationships that enable preparedness and response activities.

Legislative Tracking on Energy Security and Cyber (NCSL)

TA for States (NASEO)

State Resiliency Assessment and Planning Tool (NGA)

Cyber Manual, Questions, and Analytical Framework (NARUC)

Mutual Aid National TTX (APPA)

Roadmap for Energy Emergency-Related Executive Orders (NGA)

EMAC Education (NEMA)

New England PUC Cybersecurity Training (NARUC)

Internal Activation Management Plan (APPA)

2018 Governors Energy Advisor Policy Institute (NGA)

Energy Assurance Guidelines Version 4.0 (NASEO)

Energy Policy Summit (NCSL)

Petroleum Fuel Shortage Planning Regional Workshop (NEMA)

ISER Divisions and Programs

Preparedness and Exercises

Sector Specific Agency

Supports coordinating councils for electricity, oil and natural gas sectors.

Cyber Preparedness

Coordinates to prevent, deter, and detect to cyber incidents.

Exercises

Sponsors and participates in energy sector exercises and workshops for natural and cyber risks.

Government

Coordinates with SLTT governments prior to and during emergencies.

Risks & Hazards

Conducts studies on potential impacts to the energy sector.

International & Defense

Provides subject matter expertise to other countries at S1 or State Department request.

Emergency Response and Recovery

Emergency Response

Facilitates the reestablishment of damaged energy systems and components during a declared emergency, a departmental activation, or during a national security special event.

Situational Awareness

Provides information sharing and situational awareness capabilities to support the public sector coordination and decision-making during emergency preparedness and response.

Situational Analysis

Provides assessments of all-hazards that impact, or have the potential to impact, the energy sector.

Cyber Incident Coordination

Supports energy sector and inter-agency cyber incident response efforts.

Recovery

Supports cross-sector and inter-agency cyber incident response efforts.



Primary Constituencies

Industry

Companies and Trade Associations

Electricity Sector Coordinating Council (meets 3x/year)

- EEI, NRECA, APPA
- Company CEOs

Oil and Natural Gas Coordinating Council (meets 3x/year)

- AGA, API, Energy Security Council Gas Processors Association
- Company Heads of Security

States

Governors and State Energy/Emergency Operations Offices

National Associations

- NASEO, NGA, NCSL, NARUC
- State Energy Offices

Laboratories

& their Congressional Representatives

By order of investment:

- ORNL, PNNL, INL, ANL, SNL, LANL, LLNL, SRNL, BNL, and NREL



ESF#12 Coordination and Communication with the EEAC

