Encouraging Fuel Diversity in Long-Term State Energy Assurance and Resiliency Investments

June 25, 2013
2012 Energy Disruptions

- **Derecho (June 29, 2012)**
  - 28 deaths attributed to storm
  - Over $1 billion in damages
  - 4.2 million customers without power
  - ~9 days for power restoration
  - 8 states and D.C. affected

- **Super Storm Sandy and the Nor’easter (October 29–31, 2012)**
  - 132 deaths attributed to storm
  - Over $60 billion in damages
  - 8.2 million customers without power
  - ~14 days for power restoration
  - 21 states affected
Genesis of the State Energy Offices and Energy Assurance Planning

- SEOs created after Oil Embargo in 1973

- For 20+ years, NASEO has partnered with DOE and NARUC to encourage state energy assurance planning and regional coordination

- States are required to submit an energy emergency plan under the State Energy Efficiency Programs Improvement Act of 1990 to receive State Energy Program funding
Energy Assurance

- **Respond** to energy supply disruptions and assure a rapid return to normalcy

- **Prevent and Protect** to mitigate risks and provide resilient energy infrastructure
- Shift from Protection to Resilience

| Infrastructure Vulnerability | - Identification and profiling of critical infrastructure and key assets  
- Risk assessments and prioritization |
| Information Sharing | - Address confidentiality  
- Identification of public and private sector initiatives |
| Risk Mitigation | - Policies and investments  
- Rapid response and recovery should mitigation efforts fail |
Coordination of Plans: Planning Interfaces

Private Sector
- Petroleum Refiners and Pipelines
- Petroleum Local Retail Jobbers/Distributors
- Natural Gas Producers Interstate Pipelines
- Natural Gas Local Distribution Utilities

Government
- Federal Response Plans
- State Disaster Plan
- State Energy Assurance Plan
- Local Energy Assurance Plan

Private Sector
- Electric Independent System Operator
- Electric Transmission
- Electric Local Distribution Utilities
- Other Critical End User Sectors
Energy Assurance Plans: Resources

http://www.naseo.org/energyassurance

http://www.pti.org/index.php/ptiee1/more/707
Petroleum Shortage Response Plans

- Cover gasoline, diesel fuel, #2 heating oil, propane, ethanol, biodiesel, other
- Provide description, location, points of contact, capacity and throughput of petroleum infrastructure
- Ensure monitoring of petroleum supply, demand, and prices, and reduce demand
- Offer supply management options
AFVs in Energy Assurance Plans

- Maximize the use of alternative fuels through increased use of state fleet vehicles with flexible or alternative fueling capabilities.
  - Assign AFVs to support services
  - Develop plans for purchase
  - Broaden the scope to assess AFVs
  - Determine if backup power generation is available
Arizona
- 1,200 LNG, CNG buses in local transportation systems
- 60 Super Shuttle LPG vans
- 180 E85 cabs

District of Columbia
- Streetcar program and car-sharing services
- Electric Vehicle Charging Stations and data collection
- 1,400 AFVs in the fleet

Massachusetts
- Managing EV charging to minimize the peak load and support the grid when needed
- Specific reference to the work of the state Clean Cities Coalition
NASEO Energy Assurance Planning Initiative

- Review State Energy Assurance Plans
  Identify well developed planning elements and creative public-private approaches

- Update Energy Assurance Guidelines
  Incorporate lessons learned from recent disruptions

- Evaluate State Comprehensive Energy Plans
  Analyzing states’ strategic energy goals and investments to determine the nexus with energy assurance planning
Thank you!

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