

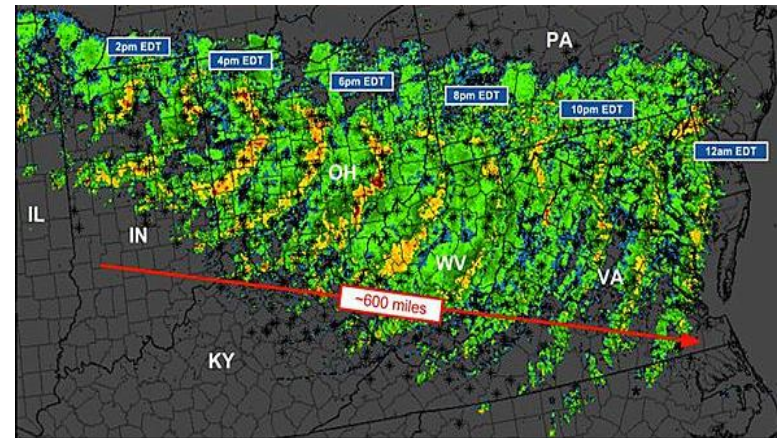
## Encouraging Fuel Diversity in Long-Term State Energy Assurance and Resiliency Investments

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



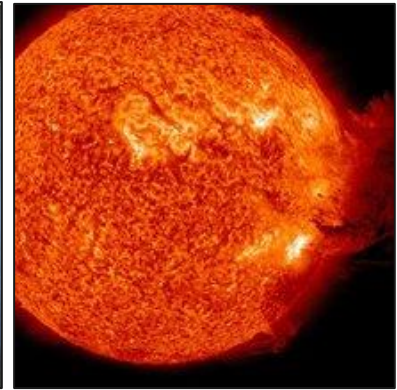
# + Genesis of the State Energy Offices and Energy Assurance Planning

- 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

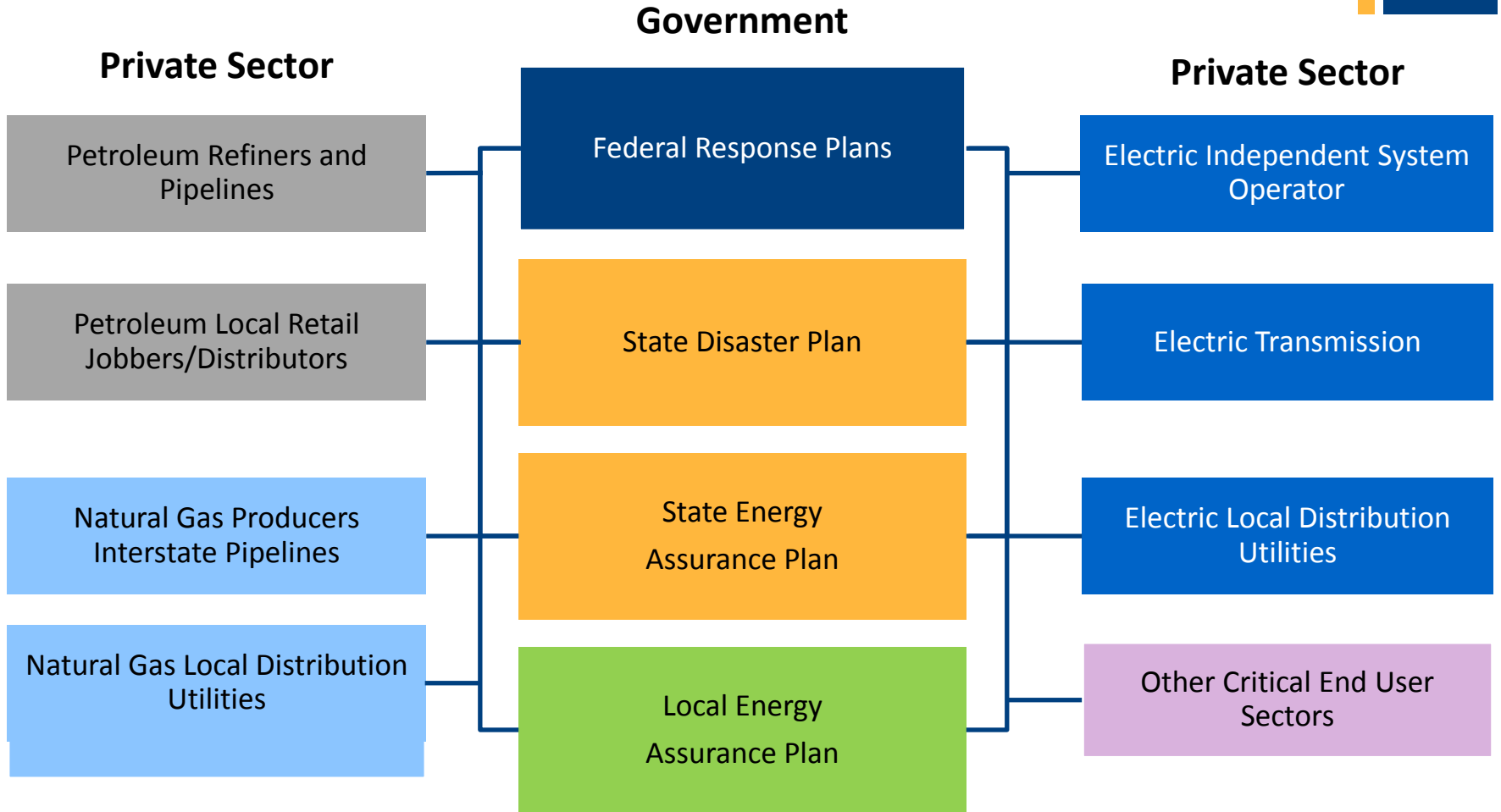
## Information Sharing

- Address confidentiality
- Identification of public and private sector initiatives

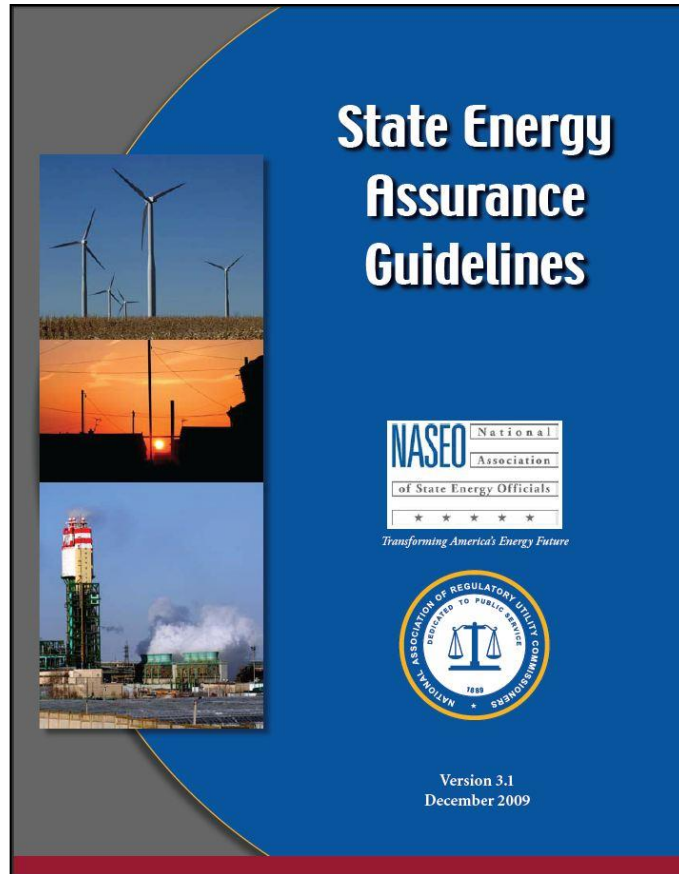
## Risk Mitigation

- Policies and investments
- Rapid response and recovery should mitigation efforts fail

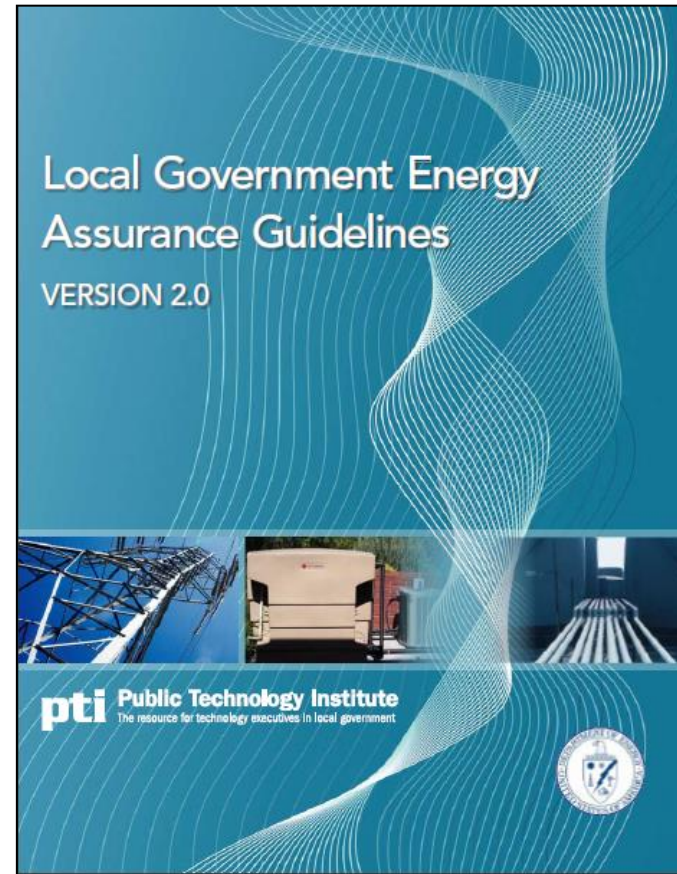
# + Coordination of Plans: Planning Interfaces



# + Energy Assurance Plans: Resources



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



<http://www.pti.org/index.php/ptiee1/more/707>

# + Petroleum Shortage Response Plans

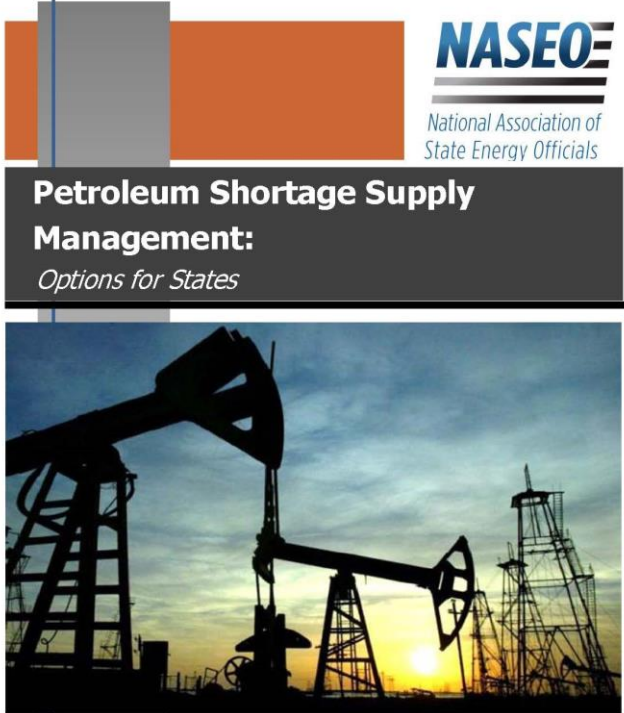
- Cover gasoline, diesel fuel, #2 heating oil, propane, ethanol, biodiesel, other
- Provide description, location, points of contact, capacity and throughput of petroleum Infrastructure
- Ensure monitoring of petroleum supply, demand, and prices, and reduce demand
- Offer supply management options





# + AFVs in Energy Assurance Plans

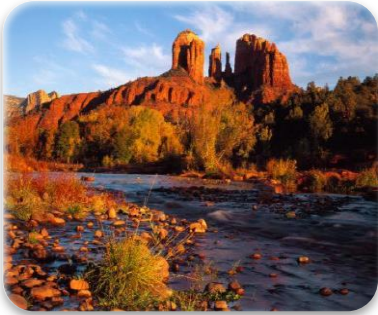
- Maximize the use of alternative fuels through increased use of state fleet vehicles with flexible or alternative fueling capabilities.
  - Assign AFVs to support services
  - Develop plans for purchase
  - Broaden the scope to assess AFVs
  - Determine if backup power generation is available



**NASEO**  
National Association of  
State Energy Officials

**Petroleum Shortage Supply  
Management:**  
*Options for States*

National Association of State Energy Officials  
2107 Wilson Boulevard, Suite 850  
Arlington, VA 22201  
[www.naseo.org](http://www.naseo.org)



## 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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