

# Enabling States and Localities to Improve Energy Assurance & Resiliency Planning

**2010 – 2011 Winter Fuels Outlook Conference  
National Press Club, Washington, D.C.**

**October 13, 2010**

Alice Lippert, Senior Technical Advisor,  
US Department of Energy, Office of Electricity  
Delivery and Energy Reliability

Jeffrey R. Pillon Director of Energy Assurance  
National Association of State Energy Officials

# DOE/OE Recovery Act Funding

American Recovery and Reinvestment Act (ARRA)



Department of Energy



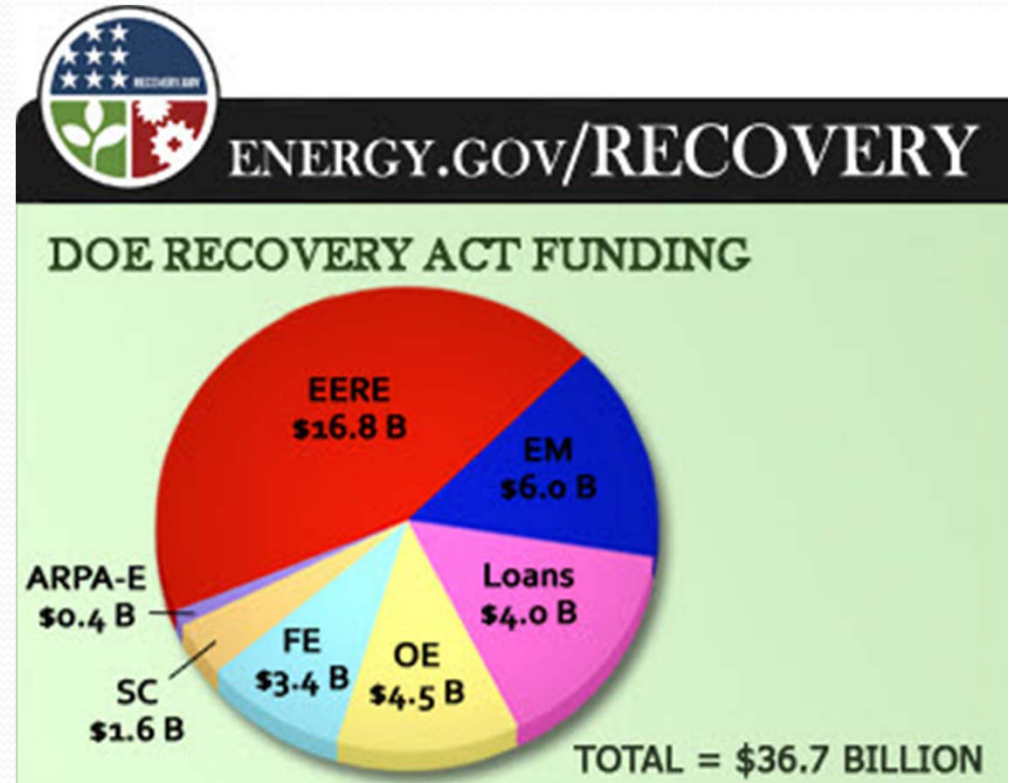
Office of Electricity Delivery and Energy Reliability (OE)



Infrastructure Security and Energy Restoration Division (ISER)



States & Localities



# Our ARRA Home Page

**OFFICE OF ELECTRICITY DELIVERY & ENERGY RELIABILITY**

You are here: DOE Home > OE Home > American Recovery & Reinvestment Act

 **E** | *Contributing to Our Nation's Recovery*

**AMERICAN RECOVERY & REINVESTMENT ACT**

**An Overview of the American Recovery and Reinvestment Act of 2009 (Recovery Act)**

The American Recovery and Reinvestment Act of 2009 (Recovery Act) - which President Obama signed into law on February 17th, 2009 - is an unprecedented action to stimulate the economy. It includes measures to modernize our nation's energy and communication infrastructure and enhance energy independence. As President Obama stated, "The investment we're making today will create a newer, smarter electric grid that will allow for broader use of alternative energy."

**RECOVERY WHAT'S NEW**

**July 23, 2010--** The Department of Energy (DOE) invites public comment on its request to the Office of Management and Budget (OMB) to extend for three years the emergency Information Collection Request Title: OE Recovery Act Financial Assistance Grants, OMB Control No. 1910-5149 that DOE is submitting to OMB pursuant to the Paperwork Reduction Act of 1995. Comments due on or before August 23, 2010. [More >](#)

**May 28, 2010--** Federal Register Notice on the DOE's invitation for public comment on its intent to request the Office of Management and Budget (OMB) to extend for three years the emergency Information Collection Request Title: OE Recovery Act

**OE RECOVERY ACT PROJECTS**

- [Funding Opportunities](#)
- [Frequently Asked Questions](#)
- SMART GRID INVESTMENT GRANTS**
  - [Smart Grid Investment Grant Selectee Information](#)
  - [Smart Grid Investment Grant Award Announcement](#)
- SMART GRID DEMO PROJECTS**
  - [Smart Grid Demonstration Projects Announcement](#)
- WORKFORCE TRAINING FOR THE ELECTRIC POWER SECTOR**

**Navigation Menu:** OE Home, About Us, Our Organization, OE Recovery Act, Our Work, Information Center, News Room & Events, Budget, Contact Us, Site Map

**Quick Reference:** Electricity 101, Smart Grid Primers, Situation Reports, Energy Assurance Daily, OE - 417, Electricity Advisory Committee

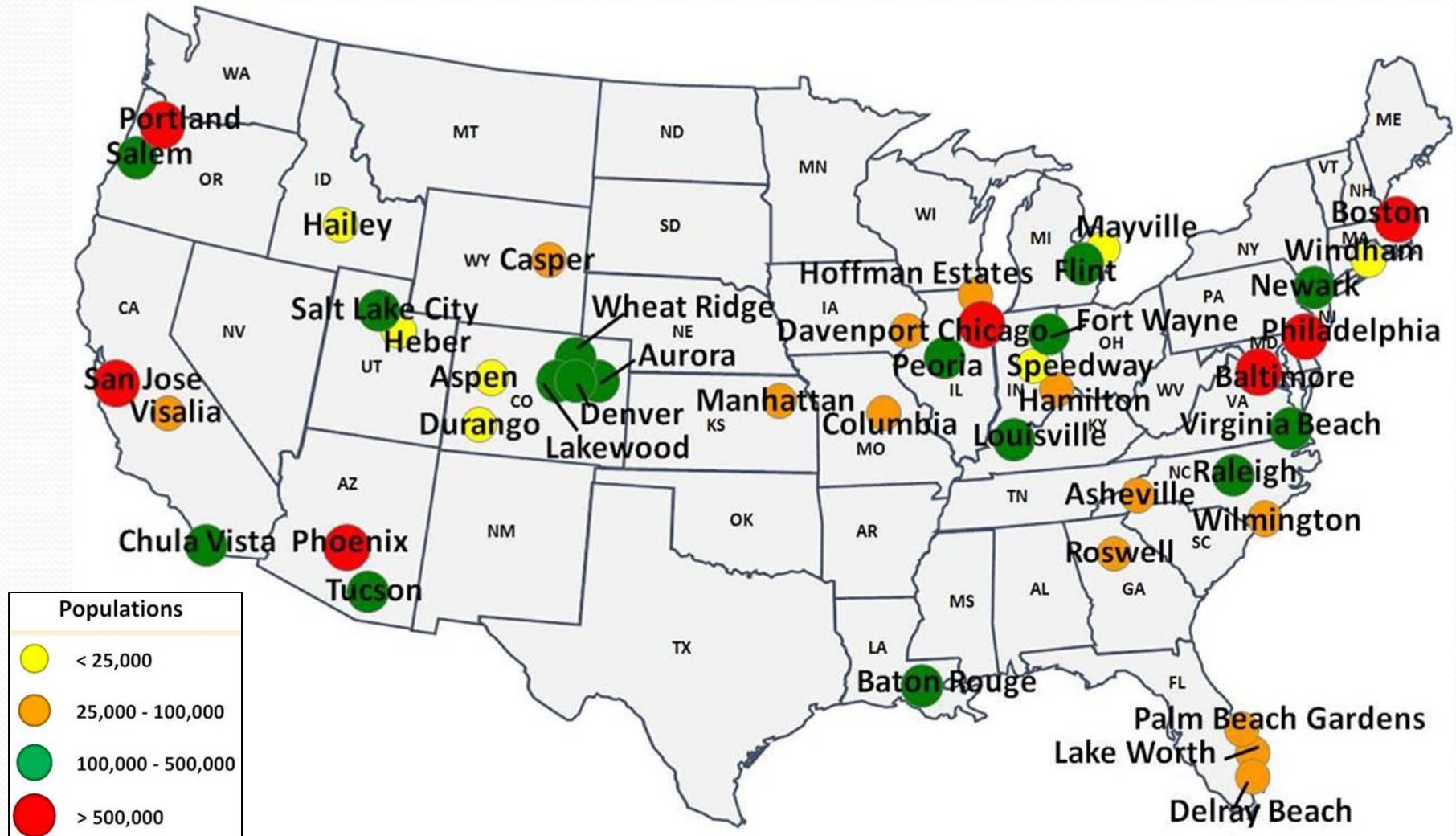
Available at: [http://www.oe.energy.gov/american\\_recovery\\_reinvestment\\_act.htm](http://www.oe.energy.gov/american_recovery_reinvestment_act.htm)

# State ARRA Projects

The image shows a screenshot of the U.S. Department of Energy website. The top navigation bar includes 'ABOUT DOE | ORGANIZATION | NEWS | CONTACT US' and a search box. The main header features the U.S. Department of Energy logo and the text 'U.S. DEPARTMENT OF ENERGY'. Below the header, there are several navigation tabs: 'SCIENCE & TECHNOLOGY', 'ENERGY SOURCES', 'ENERGY EFFICIENCY', and 'THE ENVIRONMENT'. A 'QUICK CLICKS' section lists links for consumers, researchers, educators, students, and employees. A 'STAY CONNECTED' section includes social media icons for Facebook, Flickr, Vimeo, and YouTube. The 'IN YOUR STATE' section is highlighted with a green box and contains a dropdown menu labeled 'Choose One:'. Below this, there is a 'SELECT YOUR STATE' section with a map of the United States and a list of states: Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, and Indiana. The 'IN YOUR STATE' section also includes a breadcrumb trail: 'You are here: DOE Home > In Your State > Washington'. The 'Washington' section features a map of Washington and a text block describing the state's hydroelectric power industry. Below this, there is a 'Recovery Act Projects' section with a link to a spreadsheet: 'DOE Recovery Act Project Breakdown by State (xls)'. A note at the bottom of the page states: 'Note: Figures in Column E reflect funding amounts for announced award selections. Grantees are required to meet certain Recovery Act milestones in spending funds. Figures in Column F reflect awards that have completed the negotiation process.'

Available at [www.energy.gov/](http://www.energy.gov/)  
Select "In Your State" on left navigation

# Local ARRA Grant Awards





# Implementation Strategy

## ARRA State & Local Government Energy Assurance Implementation Strategy, Tasks & Activities

Task 1. Gaining understanding of State and Local needs to meet ARRA requirements.

Task 2. Education and Training on energy assurance and resiliency and priority issues, and on how to develop new, or refine existing plans.

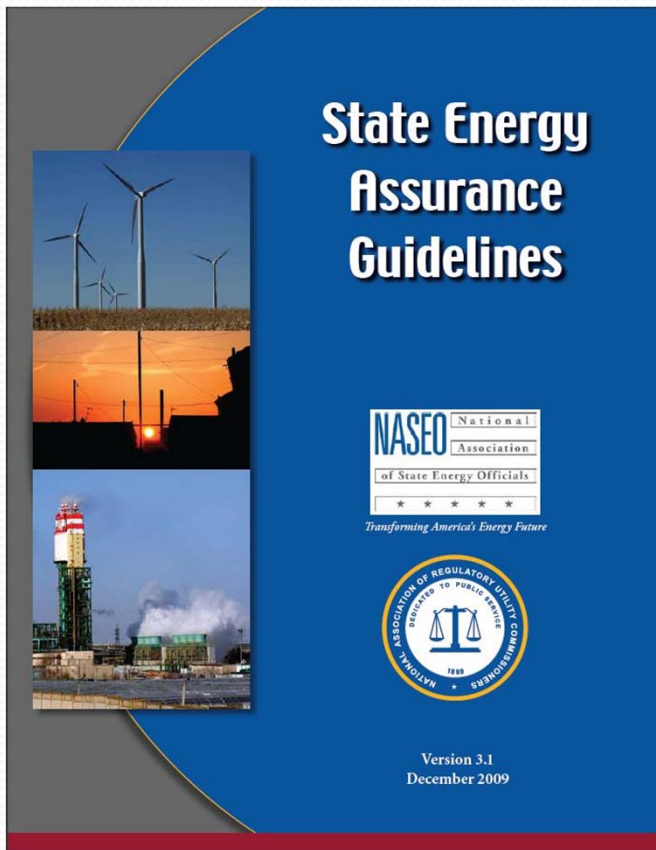
Task 3. Assistance in building collaborative partnerships to foster energy assurance.

Task 4. Provide tools, templates, and resource materials to help meet ARRA requirements.

Task 5. Document energy assurance lessons learned from exercises, incidents, and ARRA related activities, and promote/facilitate information sharing and coordination, exchanging energy assurance and resiliency best practices.

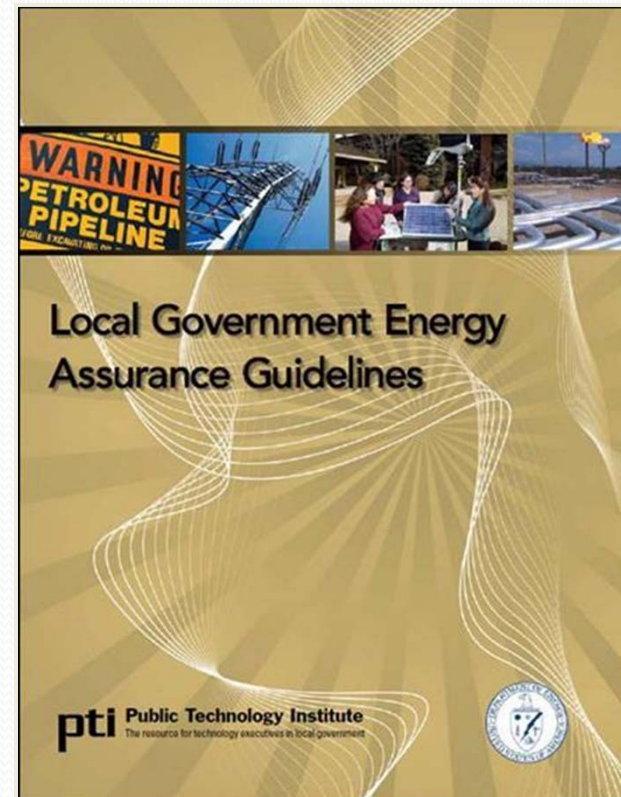
Task 6. Work with States and Localities to develop a uniform, comprehensive energy assurance and resilience approach.

# Energy Assurance Planning Resources



[naseo.org/energyassurance](http://naseo.org/energyassurance)

[energyassurance.us](http://energyassurance.us)



# Energy Assurance Planning Framework

- Executive Summary
- Introduction and purpose.
- State's Energy Used and Expenditures.
- Past state energy shortages, and the response and future risks
- State agencies roles and responsibilities
- Methods for assessing the consequences and severity of energy emergencies and tracking the rate of recovery.
- Emergency Communication Procedure
- Management Decision Process
- Legal authorities
- Public Information Program

<http://naseo.org/eaguidelines/framework/>







## EA Planning Framework, Cont.

- Energy Emergency Response Plans
  - Natural Gas often governed by tariffs or rules approved by PUCs also gas safety and security.
  - Electricity and energy resource used to generate electricity or manage demand including: coal, natural gas, nuclear, energy efficiency, renewable resources and Smart Grid, etc.
  - Petroleum including: ethanol, biodiesel and other alternatives.
- What are the linkages to other state, local, and federal government and the private energy sector response plans and procedures.

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*The risk of a disruption due to a cyber attack should be addressed as part of the plans for each energy resource*



# State Plans for Critical Energy Infrastructure

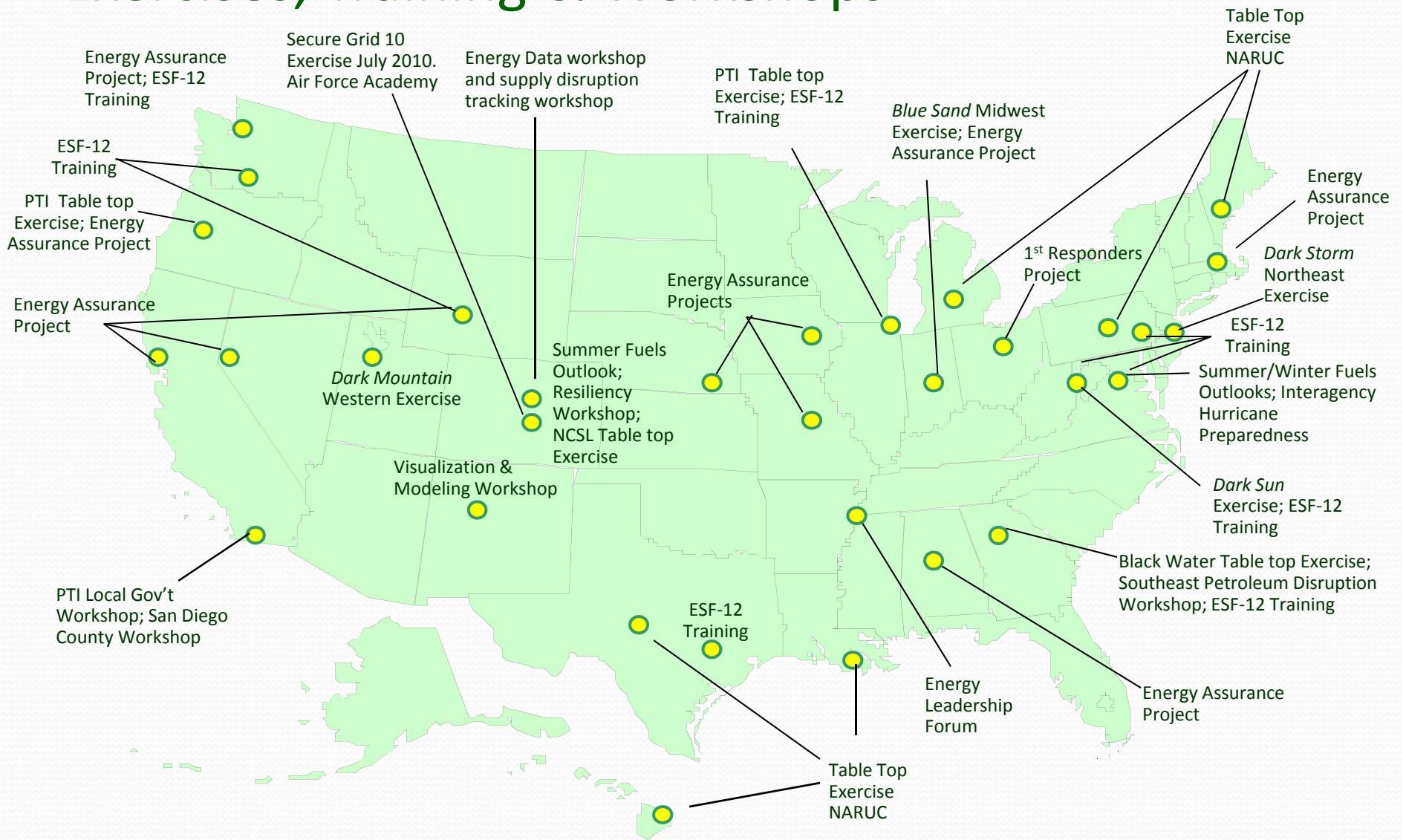
- States plans for reducing risk and building resiliency.
- What are the state agencies roles and responsibilities?
- Describe and prioritize critical state energy infrastructures and key assets.
- Assess risk, vulnerabilities, criticality and the nature of the threat/hazards
- Identify risk reductions and resiliency measures, some examples are:
  - Diversification of energy sources and integration of renewable resources (wind, solar geothermal, other.
  - Increased efficiency of systems.
  - Development of Smart Grid.
  - Cyber Security
- Policies and Procedures for handling sensitive information
- Describe public private partnership as envisioned in the National Infrastructure Protection Plan and Energy Sector Specific plan?

# Multi-State Regional Coordination



- Infrastructure that may be critical to a state may not even be in the state (or country)!
  - Wholesale electricity market and the role of Independent System Operators has created new regional markets.
  - Refined petroleum product distribution is also regional in nature and refineries supply multiple states.
  - Natural gas is a North American market and reliant on Interstate pipelines.
- States need to know contacts for the energy sector and in other governments in their region.
- State response plans need to be coordinated, locally and regionally.
- The **Energy Emergency Assurance Coordinators** (EEAC) provides for regional coordination and crises communication.
- Regional Energy Emergency Exercises can improve coordination.

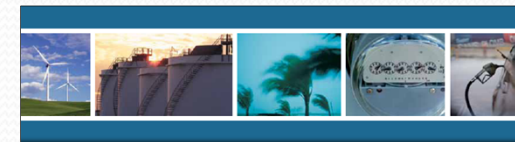
# Exercises, Training & Workshops



Source: DOE/OE

# NASEO and DOE/OE Technical Supports to States

- Webinars
  - Energy Emergency Assurance Coordinators
  - Geographical Information Systems, iCAV, DHS Earth and iMapData
- Workshop on Data & Consequence Assessments.
  - Summer & Winter Fuels Outlook Conferences
- Regular state and local conference calls to promote coordination.
- DOE/OE Quarterly Energy Assurance Planning Bulletins and information Brochures
- Presentation at NARUC, NASEO, PTI and other partners meetings
- Web-based Energy Assurance Planning Resource
  - <http://naseo.org/energyassurance>
  - <http://www.energyassurance.us>



## Enabling States and Localities to Improve Energy Assurance and Resiliency Planning

Our communities depend on a secure, reliable energy infrastructure that is also resilient. At the same time, our Nation's energy infrastructure — a complex network of interconnected producers, pipelines, transmission and distribution lines, electricity substations, operational and business processes and supply chains — may be vulnerable to a variety of hazards. Stretching across jurisdictions and States to national borders, this "system of systems" is subject to a range of disruptions, from destructive weather to possible deliberate attacks. Although it is the job of the Nation's energy service providers to keep energy flowing, it is also the responsibility of State and local officials to work toward energy assurance and resiliency.

### Energy Assurance and Resiliency Defined

For the purposes of the EAP grant initiative, the terms energy assurance and resiliency have closely related but distinct definitions. Energy assurance is an activity; resiliency is the ultimate goal of that

U.S. Department of Energy State and Local Energy Assurance Planning Initiative  
The Infrastructure Security and Energy Restoration (ISER) Division of the U.S. Department of Energy's Office of Electricity Delivery and Energy Reliability (DOE/OE) announced an unprecedented grant opportunity under the American Recovery and Reinvestment Act of 2009 (ARRA 2009). This grant provides funds for States and localities to develop new energy assurance plans or refine existing ones.  
The resulting Energy Assurance Planning (EAP) Initiative for States and Localities

## The ARRA EAP

Energy Assurance Planning Bulletin

OCTOBER 1, 2010      THE AMERICAN RECOVERY AND REINVESTMENT ACT      VOLUME 1, NUMBER 4

**Need to Know**  
DOE/OE 10-Step Framework Now Available  
Looking ahead: DOE/OE Resiliency Exercises  
[News from the States](#)  
All Wind Energy Bill  
Training Opportunities  
Upcoming State and Local Informational Sessions  
Ongoing LEAP Webinars/Regional Calls

**Action Items**  
Quarterly Progress Reports, 1512 Reports Resiliency  
[State and Local Energy Assurance Success Stories](#)  
Iowa  
Asheville, NC  
**Other Useful**  
Information and Links  
DOE/OE Resiliency and Resiliency Study

**Upcoming Events**  
Winter Fuels Outlook  
NARUC Annual Meeting  
[Guidance from NARUC](#)  
Understand How You Can Effectively Reassess Hazards in Alternative Budget for Emergencies  
**Alice Lippert, EAP Program Manager**  
[Alice.Lippert@doe.gov](mailto:Alice.Lippert@doe.gov)  
**OE Website**  
<http://www.ee.energy.gov/>

**Welcome to the fourth issue of the quarterly Energy Assurance Planning Bulletin, a service of the U.S. Department of Energy, Office of Electricity Delivery and Energy Reliability (DOE/OE). The ARRA EAP Bulletin provides information on energy assurance planning resources, upcoming events, training opportunities, and important grant deliverable dates.**

**Need to Know**  
The DOE/OE 10-Step Local Energy Assurance Planning Framework is now available. The Framework is designed as a supplement to the PTI Local Government Energy Assurance Guidelines, for use by local-level grantees as they begin the energy assurance planning process. The Framework, along with slides from an introductory webinar conducted by DOE/OE on Aug. 12, are available at <http://www.energyassurance.us/>.

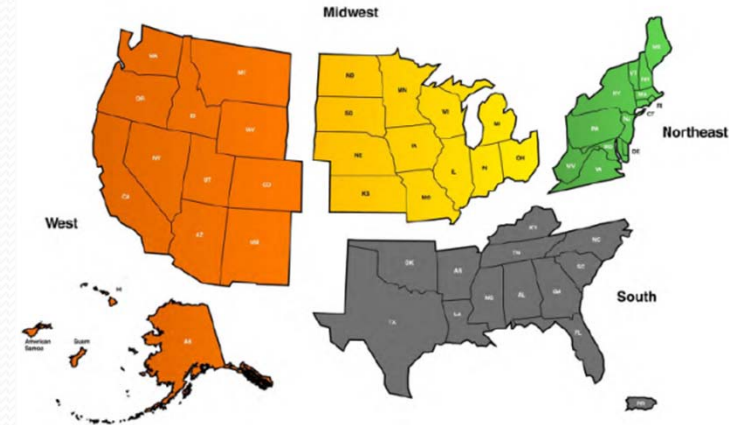
Looking ahead: DOE/OE regional exercises will start next spring. Please mark your 2011 calendars for DOE/OE's State-level regional energy assurance planning exercises. DOE/OE will hold four regional exercises across the country, designed to help State grantees test their draft energy assurance plans and meet inter-State exercise deliverable requirements. Each regional exercise will be held in conjunction with a workshop intended to educate participants on key topics related to energy assurance planning. Local grantees are also invited to attend participation satellite exercise deliverable requirements, if any are included in their Statement of Project Objectives. Regional exercises are planned for March, June, September, and November, 2011.

**News from the States**  
Wind power bill aligned into law by New Jersey Governor Chris Christie. The Offshore Wind Economic Development Act (OWEDA) will promote offshore wind generation in New Jersey by providing financial assistance to qualified projects and by stipulating that a certain percentage of the State's renewable energy portfolio come from wind generation.  
For more information, visit: <http://www.state.nj.us/governor/eu2/news/2010-approve20100418a.htm>

**Training Opportunities**  
State and Local Grantees: DOE/OE and NASEO will be conducting informational sessions to provide education on a range of key energy assurance planning issues. Webinars will be offered to State and local grantees. Topics will include the upcoming FEMA-coordinated New Madrid National Level Exercise and cyber security smart grid issues related to energy assurance, among others. The sessions will be held in the months ahead. Details will be emailed to State and local planners.  
**Local Grantees:**  
Ongoing webinars and regional conference calls to be held. PTI and DOE/OE will coordinate an ongoing series of instructional webinars and regional conference calls for local grantees. Details will be emailed to local planners.

## Upcoming Activities

- Four Multi State Regional Energy Emergency Exercises planned for 2011
- Additional Webinars are under development may include:
  - The New Madrid Seismic Zone National level Exercise ,
  - Key Elements of Energy Assurance Plans,
  - Cyber Security and Smart Grid,
  - Risk and vulnerability assessments,
  - Petroleum contingency plans.
  - Methods for conducting table top intra-state exercises
- An increased efforts to coordinate federal, state and locals plans and private energy sector plans.





## Smart Grid & Cyber Security

- NASEO and EPRI are developing a paper on “Smart Grid & Cyber Security for Energy Assurance”
- **Smart Grid**
  - Describe smart grid implementation in the state.
  - Future planned smart grid Investments and projects.
  - List regulatory actions, State policies and programs to support Smart Grid implementation.
  - Other Smart Grid projects and funding, private or public.
  - Evaluate Smart Grid benefits that contribute to a more resilient, secure and reliable power supply.
- **Cyber Security**
  - Building awareness and understanding of cyber security in states agencies and then in the energy sector.
  - Identifying future standards and guidelines under development and how may they affect plans for smart grid deployment?
  - Considering and address the human elements of cyber security



Jeffrey R. Pillon

National Association of State Energy Officials

517- 580-7626

[jpillon@naseo.org](mailto:jpillon@naseo.org)

Alice Lippert

State and Local Government Energy Assurance Program

Office of Electricity Delivery and Energy Reliability

U.S. Department of Energy

202-586-9600

[alice.lippert@hq.doe.gov](mailto:alice.lippert@hq.doe.gov)

*Questions?*