

TRIBAL ENERGY SYSTEMS: CLIMATE PREPAREDNESS AND RESILIENCY

Energy Community Assurance and Resilience

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Preparedness and Response



U.S. DEPARTMENT OF
ENERGY

Office of Electricity Delivery and
Energy Reliability
Infrastructure Security and Energy
Restoration



Response

Infrastructure Security and Energy Restoration Division



Department of Energy

Office of Electricity Delivery
& Energy Reliability

Infrastructure Security
and Energy Restoration
Division (ISER)

ERC

Infrastructure Security and Energy Restoration – Response Role

ISER leads DOE Energy Response Center (ERC)

- Emergency Support Function #12-Energy
- All-hazards approach

ERC

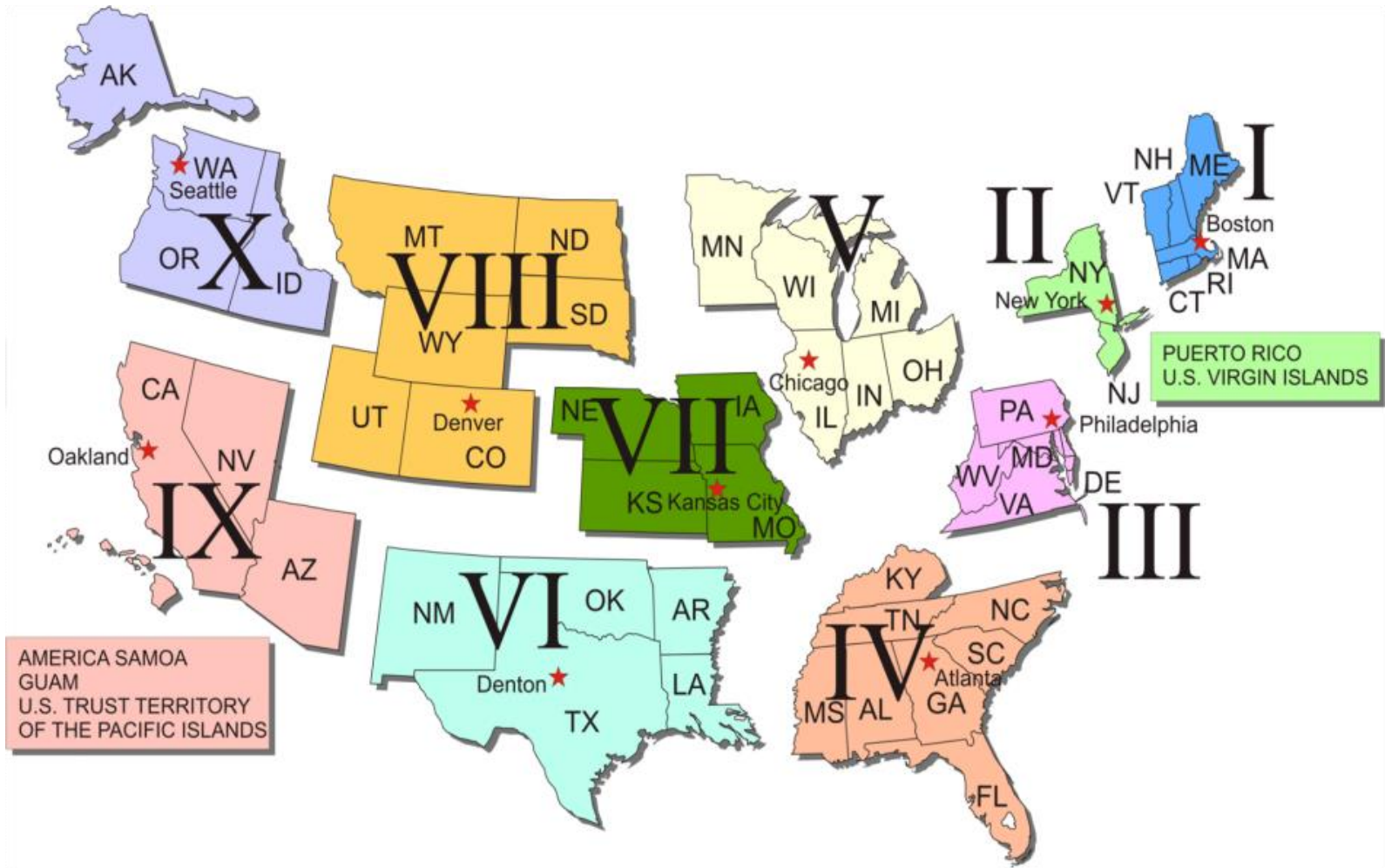
- Energy Response Organization Coordinator
- Field Team Coordinator
- Communications & Situational Awareness Coordinator

Stakeholders

- Federal partners
- State/local/tribal contacts
- Industry associations



ESF-12 Regional Coordinator Team



DOE's Support Agencies

- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Homeland Security
- Department of Interior
- Department of Labor
- Department of State
- Department of Transportation
- Environmental Protection Agency
- Nuclear Regulatory Commission
- Tennessee Valley Authority



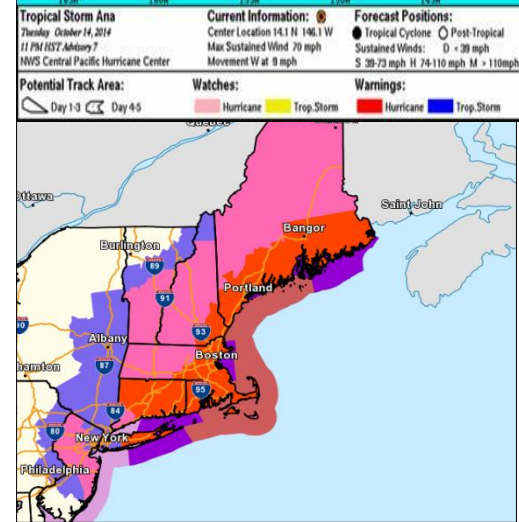
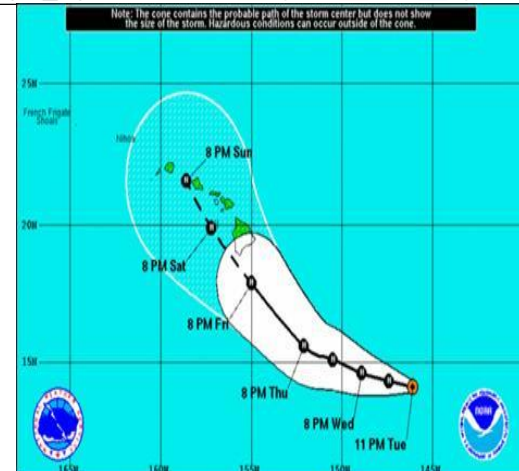
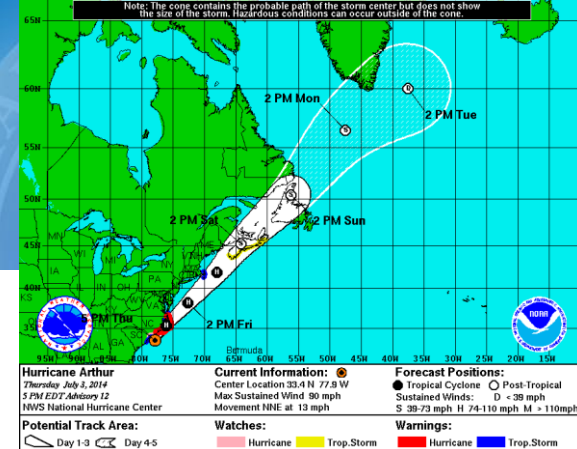
Energy Response Events

- Recent Response Events:

- Hurricane Arthur-June 30-July 5, 2014
- Hurricane Iselle and Julio-August 7-9, 2014
- Tropical Storm Ana-October 14-19, 2014
- Nor'easter-January 26-28, 2015
- Winter Storm-February 16-17, 2015

- Typical activities:

- Maintain situational awareness of various event types such as tropical weather, winter weather, and wildfires
- Coordinate with federal, state and industry contacts
- Assess any energy sector unmet needs
- Develop summary reports for leadership

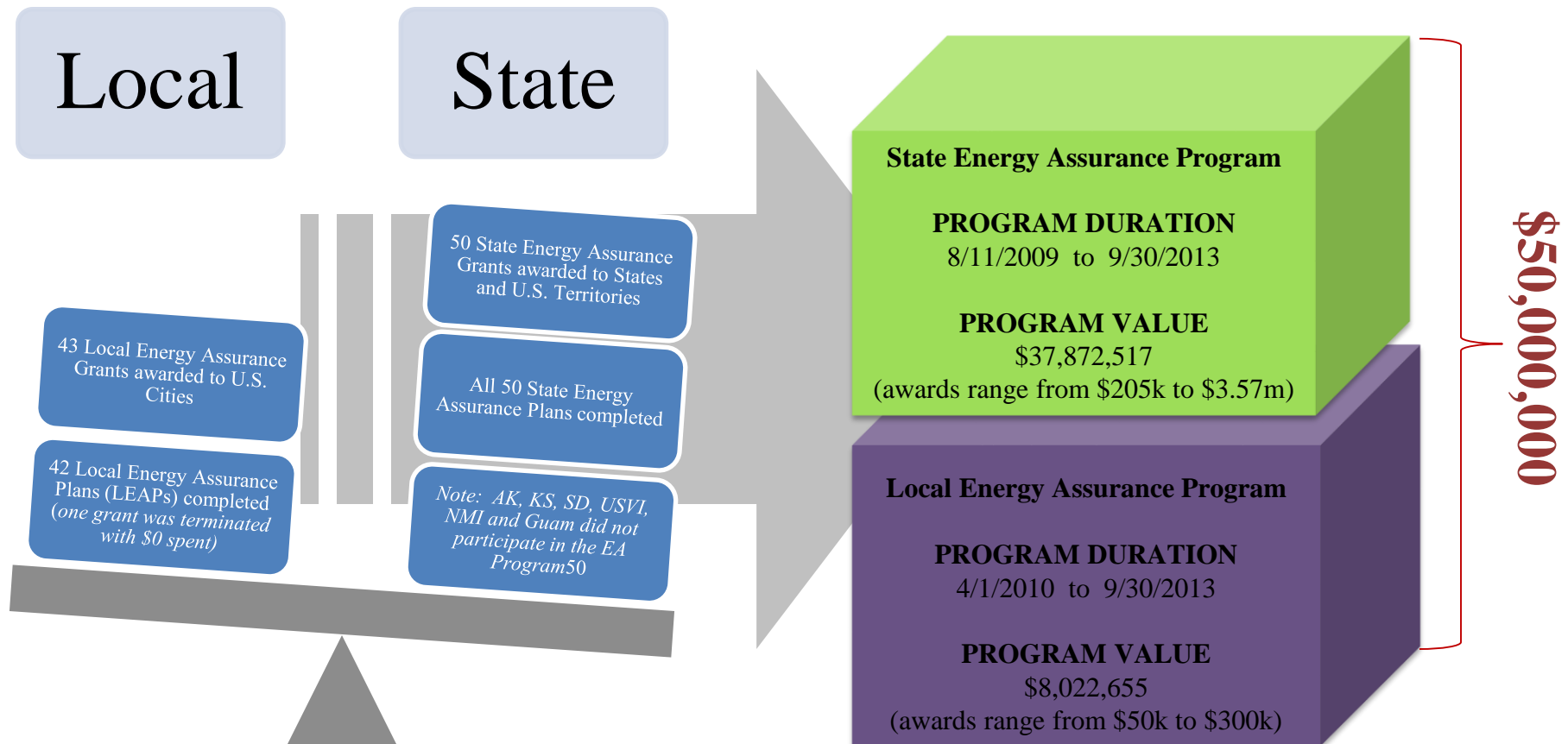


A dirt road leads through a green field towards a series of power lines and towers under a blue sky with light clouds. The text "Energy Assurance" is overlaid in yellow.

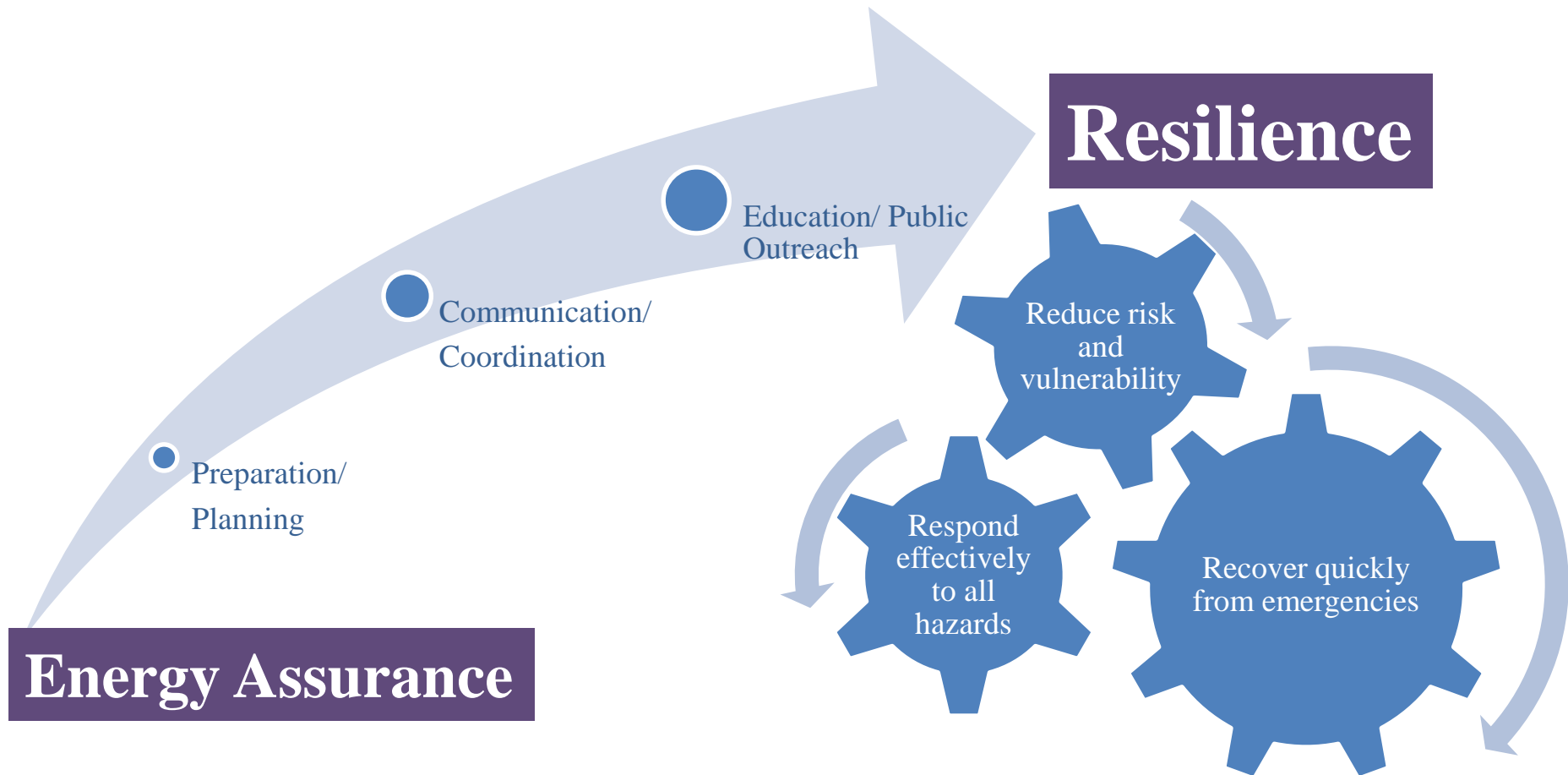
Energy Assurance

Background: ARRA-funded State and Local Energy Assurance Planning Initiative

Formula grants were awarded to States and U.S. Territories, while Local Energy Assurance grants were awarded competitively to U.S. Cities



What is Energy Assurance?



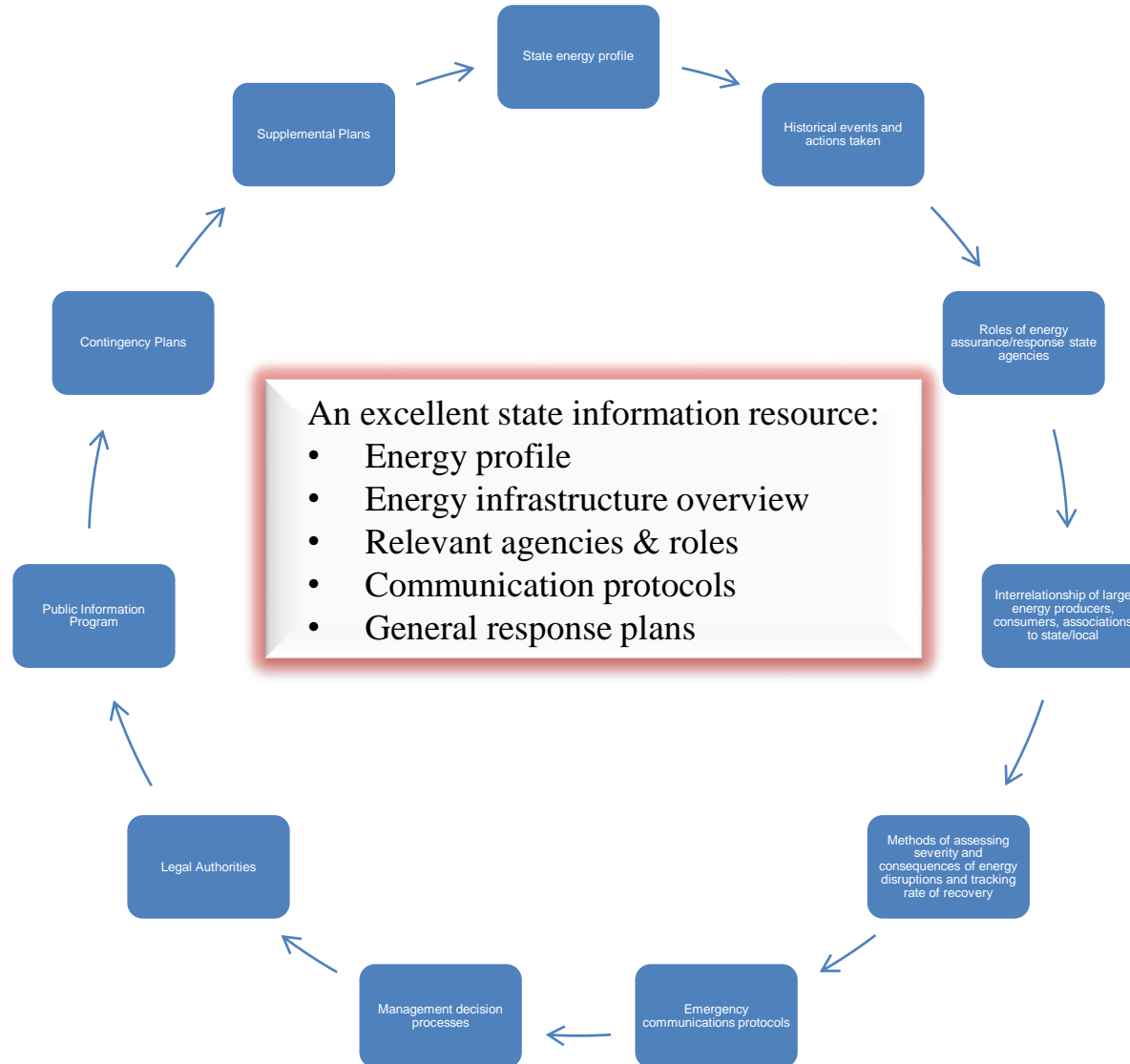
Energy Assurance

“Energy Assurance involves a vast array of activities and falls into three main categories: preparation and planning, mitigation and response, and education and outreach.”

Resilience

“Resilience is the ability to respond effectively to an energy emergency and to recover quickly from damage. A resilient energy system is able to continue to operate despite damage, and to quickly return to normal operations when damage occurs.”

What are the EAPs?



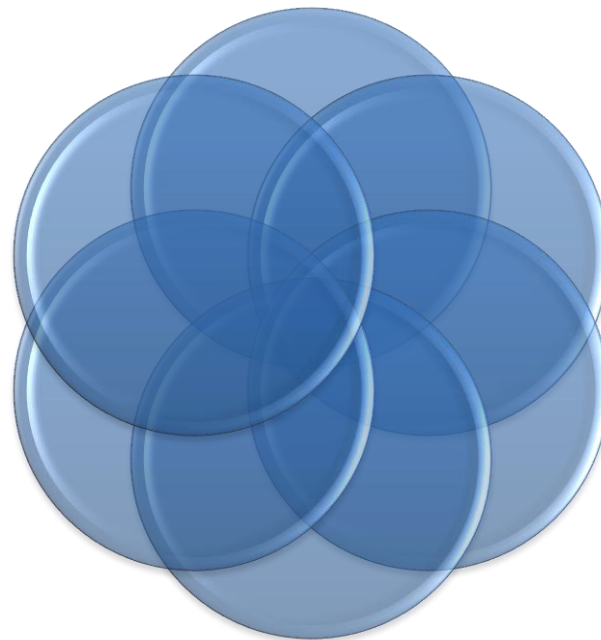
Sustaining EA Capabilities...



Update
EAPs/2yrs

Exercise

Up-to-date
Contact Lists



SLTT-Industry
Coordination

Integrate Plans

Codify EA
Position

This Past Year



Incorporating DOE lessons learned from Sandy

Expanding outreach to State, Local, Tribal, and Territorial governments

Expanding all-hazards approach

Updating DOE technology

Updating and expanding cooperative agreements

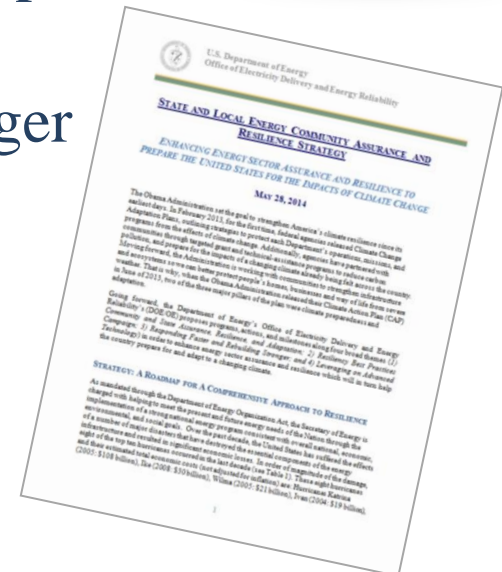
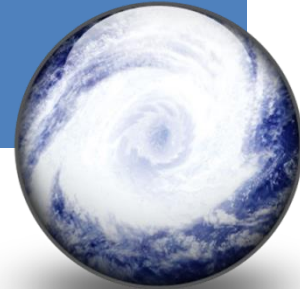
Analysis of ARRA grants

Expanding DOE-wide activities in resilience

Moving Forward

- Goal - *Ensure the resiliency of key energy assets and to advance state, local, and tribal government energy assurance planning*

- Approach –
 1. Community and State Resilience and Adaptation
 2. Resiliency Best Practices Campaign
 3. Responding Faster and Rebuilding Stronger
 4. Leveraging on Advanced Technologies
 - ✓ Cross-coordination planning
(Federal, State, Tribal, Industry)



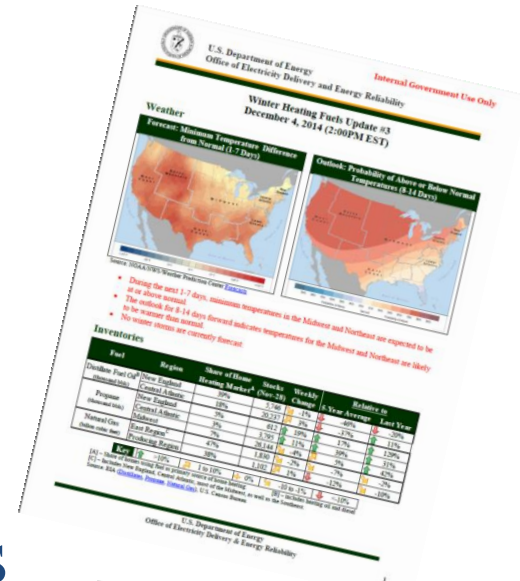
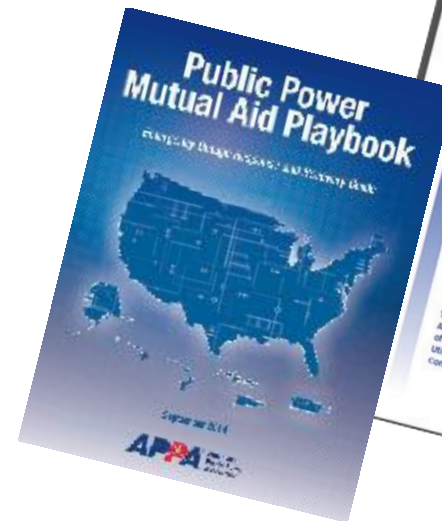
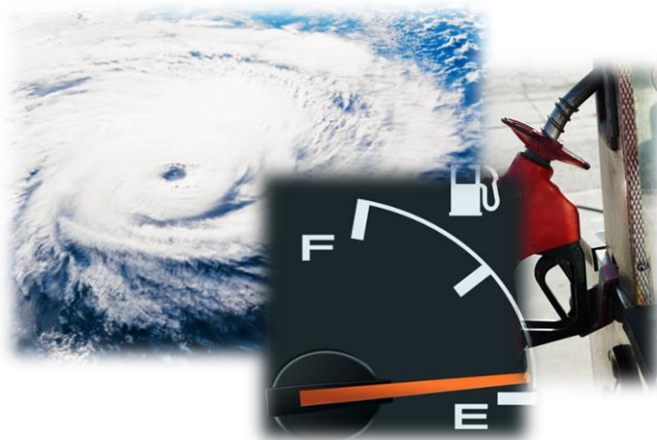
Analysis

NASEO

- Address Regional Season Priorities
- After-Action Activities

NARUC

- Mutual Assistance Primer for States



Training

NASEO

- In-Person Regional Energy Assurance Exercises
- Energy Assurance Training Courses

NARUC

- Mutual Assistance Regional Workshops
- Training for Infrastructure Protection

NGA

- Learning Lab on Enhancing State Energy Assurance Planning and Coordination
- Experts Roundtable on Preparing Governors for Grid Failure



How do you get involved?



Participate

- Exercises
- Topical Webinars

Leverage

- Existing Training Resources

Establish

- Energy Assurance POCs

OE Electricity Policy Technical Assistance Program

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ELECTRICITY POLICY TECHNICAL ASSISTANCE PROGRAM

Electricity Advisory Committee

Technology Development

Electricity Policy Coordination and Implementation

Transmission Planning

International Electricity Regulation

Other Regulatory Efforts

Electricity Policy Technical Assistance Program

Get Assistance

Technical Assistance Topics

EPA Regulation Compliance

August 2008 Blackout

DOE Grid Tech Team

Energy Assurance

Cybersecurity

OVERVIEW

Since 2003, the U.S. Department of Energy's Office of Electricity Delivery and Energy Reliability (OE) has been providing independent and unbiased technical support to states, regions, and Tribes on their electricity-related policies through its Electricity Policy Technical Assistance Program. The scope of OE's assistance is determined by the requests received.

Types of assistance offered and activities supported include:

- **Analysis** assistance consisting of data collection and assessment activities to determine impacts and evaluate policy options and technology and market strategies
- **Stakeholder-Convended Discussions** by organizing task forces, working groups, and collaborative processes to tackle key issues and build consensus for preferred courses of action
- **Education and Training** through workshops and webinars to raise knowledge levels and better equip policy makers to address local and regional needs
- **Consultations** for quick-turnaround assignments involving technical experts advising policy makers on specific matters of interest

There is a continuing need for information and education about electricity opportunities and options, especially due to the ever-changing dynamics of the electricity system. For example, evaluation of new technologies for electric generation, transmission, distribution, and end-uses requires independent and unbiased information on cost and performance to augment the information that policy makers already receive.

In addition, collaborative discussions offer a forum for creativity in identifying solutions to policy and regulatory challenges posed by these new opportunities and options. Unbiased technical assistance informs these discussions, providing resources and expertise that enable policy makers to explore innovative solutions and find common ground.

EPTA PROGRAM

Overview

Get Assistance

Technical Assistance Topics

RELATED LINKS

DOE State and Local Government Resources

DOE Tribal Technical Assistance

DOE State, Local, and Tribal Technical Assistance

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TA Topics Quick Links

- [EPA Regulations](#)
- [Ratepayer-Funded Energy Efficiency](#)
- [Demand Response](#)
- [Recovery Act Assistance](#)
- [Uniform Methods Project](#)

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 U.S. DEPARTMENT OF

<http://energy.gov/oe/services/electricity-policy-coordination-and-implementation/electricity-policy-technical>

State Energy Reliability and Assurance Grants

The State Energy Reliability and Assurance Grants program would provide grants to states, localities, and tribal governments in support of electricity transmission, storage, and distribution reliability and energy assurance.

Electricity TS&D Reliability (\$27.5M)

Provides grants to assist states and others to develop long-term energy system reliability plans that advance electric reliability planning and integrate it with planning and action for environmental protection, climate resiliency, and energy efficiency

Energy Assurance (\$35.5M)

Provides formula grants to state, local, and tribal governments to enhance resiliency through energy assurance planning, compliance, and training, including exercises

- State Energy Reliability and Assurance Grants will be offered to all 50 states, local, regional, tribal and territorial entities
- Grants would require coordination with relevant stakeholders (e.g. SEOs, PUCs, environmental regulators, reliability coordinators)

FY16 Budget Request



- Funding request for energy assurance grants

“...Improving the capacity of states, localities, and tribes to identify the potential for energy disruptions, quantify the impacts of those disruptions, and develop comprehensive plans responding to those disruptions and mitigating the threat of future disruptions.”

- Will work with DOE’s Indian Energy Office to provide more information as it becomes available



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QUESTIONS?