Local Energy Assurance Program (LEAP)

U.S. Department of Energy, Office of Electricity Delivery and Energy Reliability (OE)
Webinar Agenda

• What is the Local Energy Assurance Program (LEAP)
• PTI’s History and Role in the LEAP
• The Need for the LEAP
• LEAP Goals and Objectives
• Important Aspects of Energy Assurance Planning (EAP)
• Some Common Elements of Energy Assurance Planning (EAP)
• Federal Energy Assurance Planning and Response Initiatives
• The 10-Step Framework
What is Local Government Energy Assurance Planning?

- **Planning for,**
- **Responding to,** &
- **Recovering from,**

any emergency or event that adversely affects energy delivery and use at the local level!
PTI’s History and Role in Local EAP

- Local Government Energy Assurance Guidelines, Version 1.0, 2009
- Series of Technical and Policy Papers
- Collaborate with the U.S. Department of Energy on the 10-Step Framework
- Training/Exercises
- Technical Assistance (e.g., peer-to-peer)
- Solicit local governments for participation in the LEAP
- Support/Assist governments with Energy Assurance Plan completion

http://energyassurance.us/
http://www.pti.org/
The Need for Local Government Energy Assurance Planning

• There is a lack of awareness, training, and education regarding energy planning, response, and recovery.

• Very few local governments have a response and recovery plan specific to energy emergencies/events.

• The energy infrastructure is aging which makes it vulnerable to outages and jeopardizes its ability to meet demand.

• The number, severity, and length of energy-related events and emergencies can seriously impact local economies and well-being.
Energy Assurance Planning Goals

- **Planning/Preparation**: Develop emergency response and recovery/restoration Plans in close collaboration with regional, State, Federal, and other partners (private, public, non-profit, citizens)

- **Response**: Assure the Plan response actions are sufficient to maintain Critical Infrastructures, Key Assets, and Essential Services necessary to protect public health and welfare for up to 72-hours

- **Recovery/Restoration**: Assure that the Plan points the way to recovery and the restoration of basic services as soon as possible
LEAP Objectives

• Continue to produce guidance documents, webinars and technical/policy papers to assist local governments in the Local EAP planning process

• Continue to engage local governments in the energy assurance planning process

• Provide support to locals embarking on the planning process

• Compile and share EAP best practices, lessons learned and success stories

• Enhance LEAP web site
Important Aspects of EAP

Understanding:

--PTI’s Local Government Energy Assurance Guidelines;

--Federal planning and response initiatives including the DOE 10-Step Framework;

--Interdependencies, regional planning, partnerships, communications (internal & external), cyber security, smart grid, finance, decision-maker perspectives (elected, appointed, and managers); and

--Local energy system causes and failures (see next slide)
Transmission failure

Distribution failure

www.pti.org
Some Common Elements of Energy Assurance Plans

- Awareness of infrastructure, related threats, cyber security, and interdependencies
- Communication
- Risk assessment mitigation
- Roles, responsibilities, relationships
- Understanding energy emergency response and recovery procedures
- Energy assurance exercises and training
- New and alternative technologies
Federal Energy Assurance Planning and Response Initiatives


- LEAP Web site: [http://energyassurance.us/](http://energyassurance.us/)
The “10-Step Framework”

• **Step One**: Build an Energy Assurance Response and Planning Team

• **Step Two**: Know the Local Government Emergency Authority Framework
10-Step Framework continued...

- **Step Three**: Understand Emergency Response Roles and Responsibilities—Collaborate with Partners.

- **Step Four**: Know the Local Government Energy Profile
10-Step Framework continued...

- **Step Five: Identify and Work with Energy Suppliers**
  - Local energy suppliers/infrastructure operators and contracts
  - Local energy infrastructure/energy use characteristics
  - Energy supplier types
    - Investor Owned Utilities—natural gas, nuclear and electricity
    - Electric Cooperative Utilities
    - Municipal Utilities—primarily natural gas and electricity
    - Pipeline and Terminal Operators—natural gas and petroleum
    - Independent Power Producers
10-Step Framework continued...

- **Step Six**: Know the Primary Contacts and Related Partners
  - Local, State, Federal Government
  - Energy suppliers
  - Major energy consumers

- **Step Seven**: Identify Key Assets within the Jurisdiction
10-Step Framework continued...

- **Step Eight**: Develop an Energy Assurance Crisis Communications Protocol

- **Step Nine**: Develop Additional Energy Assurance Partnerships
10-Step Framework continued...

• **Step Ten**: Stay Current on and Update the Plan on a Consistent Basis

  ✓ **Incorporate lessons learned into any revised plan**
  ✓ **Revisit energy supply and asset data**
  ✓ **Conduct planning exercises--tabletops**
  ✓ **Keep abreast of ongoing market/supply-chain issues**
  ✓ **Link your Plan to other initiatives...and carve-out a budget!**
Contact and Relevant Information

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http://www.energyassurance.us

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

Local Government Energy Assurance Guidelines, Version 1.0, 2009
http://www.pti.org/index.php/ptiee1/more/410

Local Government Energy Assurance Planning
http://www.energyassurance.us/