

# 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
- Local Government Energy Assurance Guidelines, Version 2.0, 2011
- 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:

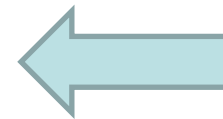
- PTI's Local Government Energy Assurance Guidelines;
- Federal planning and response initiatives including the DOE 10-Step Framework;
- Interdependencies, regional planning, partnerships, communications (internal & external), cyber security, smart grid, finance, decision-maker perspectives (elected, appointed, and managers); and
- Local energy system causes and failures (see next slide)



Transmission failure



Distribution failure



# 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

- National Response Framework: <http://www.fema.gov/emergency/nrf/>
- Local Governments and Emergency Support Functions especially ESF-12 (Energy): <http://www.fema.gov/pdf/emergency/nrf/nrf-esf-12.pdf>
- National Infrastructure Protection Plan—Energy Sector-Specific Plan: <http://www.dhs.gov/xlibrary/assets/nipp-ssp-energy-2010.pdf>
- National Incident Management System (NIMS): <http://www.fema.gov/emergency/nims/>
- Energy Emergency Assurance Coordinators System: [http://www.oe.netl.doe.gov/docs/prepare/nga\\_briefing.pdf](http://www.oe.netl.doe.gov/docs/prepare/nga_briefing.pdf)
- LEAP Web site: <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



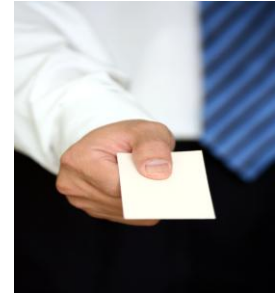
# 10-Step Framework continued...

- 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

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- 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!*

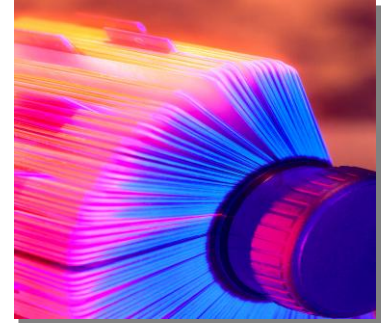


# Contact and Relevant Information

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Local Government Energy Assurance Guidelines, Version 2.0, 2011

<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/>