Energy Assurance and Emergency Mitigation Efforts – Transportation Fuels

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Fuel in Wisconsin

- Wisconsin receives 90% of refined fuels from four major out-of-state refineries:
  - Flint Hills in St. Paul, MN
  - Exxon/Mobile refinery in Joliet, IL
  - Citgo refinery in Lemont, IL
  - BP refinery in Hammond, IN

- 10% of refined fuel can be produced in-state at the Calumet Superior refinery:
  - Once refined, product is shipped through 3 major pipelines to terminals located throughout the state.

- 23 terminals in the state (12 major)

- Ethanol is blended at the terminal. 90% of gasoline sold in-state is blended with ethanol.

- 25+ Bulk plants (large storage tank facilities)
Energy Emergencies
Petroleum Emergencies

www.naseo.org/irev
Alternative Fuels Aid Response to Disasters

- Harvey Knocked out nearly 30% of the nation's refining capacity. While refineries worked to recover from the storm, compressed natural gas (CNG) stations in the area were able to remain up and running.
- After Sandy, Atlantic City, NJ shuttled residents to safety in 190 CNG minibuses.
- The Port Authorities of NY and NJ have fleets of bi-fuel (gasoline and natural gas) Ford F350 pickup trucks that operate at key airports, tunnels, and bridges.

Source: US Department of Energy
Along with other utilities, New Richmond, Wisconsin sent a hybrid-electric utility bucket truck to support the relief efforts after Sandy.

Following Sandy, propane and CNG vehicles were used to help communities clear debris, help with infrastructure repairs and clean-up efforts.
Federal and State Activities - Planning and Preparing

- Initiative for Resiliency in Energy through Vehicles (iREV)
- Energy Assurance Plan – Fuel Contingency Plan
Goal: help states and localities understand the energy security benefits of alternative fuel vehicles and fueling infrastructure and, for interested partners, support the incorporation of alternative fuel vehicles into emergency response plans.

Initiative for Resiliency in Energy through Vehicles (iREV)

www.naseo.org/irev
iREV has developed case studies and a tool to help emergency planners access needed data and understand the potential benefits and costs:
iREV: AFV Tool for Emergency Planners

- **iREV Tracking Tool**
  - Allows emergency planners to visualize various AFV infrastructure assets and options at their disposal and simulate events
  - Users can upload data and export data to other platforms (e.g., ArcGIS)
  - To access tool, register for an account at [http://irev.ctc.com](http://irev.ctc.com)

[Website Link: www.naseo.org/irev]
Wisconsin Petroleum Shortage Contingency Plan

Joint effort of
Wisconsin Emergency Management and the
Office of Energy Innovation
Plan Development Process

State Energy Assurance Plan (EAP)
- Strategic level capacity building in Wisconsin
- Incorporation of renewable energy
- Maintained by Office of Energy Innovation (OEI)

WERP ESF 12
- General agency response roles and responsibilities
- Maintained by WEM Planning Section

Petroleum Shortage Contingency Plan
- Specific response structure guidance
- Detailed activation procedures & process information
- Confidential Appendixes
What are “Critical Services”

- Emergency medical services,
- Energy suppliers,
- Firefighting units,
- Law enforcement,
- Public mass transportation, including school buses,
- Sanitation services,
- Snow & debris removal
- Communications companies,
- Utility crews, and
- Water and Wastewater supply and treatment.
- Others as determined by the state during the incident
Proposed Energy Incident Structure

Governor
Governor’s Staff

Governor’s HS Advisor
Adjutant General

Legal
(DMA, DOA)

Response Policy Group

SEOC
EOC Manager
(DMA)

Utility Coordination Group

Fuel Coordination Group

Wisconsin Homeland Security Council

Federal Support
(FEMA, USACE)

State PIO Lead

Electric Utility PIOs

Petroleum Industry PIOs

State Agency PIOs

Operations
Planning
Logistics
Finance/Admin

Wisconsin Homeland Security Council

State PIOs

Petroleum Industry PIOs

State Agency PIOs

Operations
Planning
Logistics
Finance/Admin
Fuel Coordination Group

- Initial Members

- DATCP
- WEM
- WING
- DOA
- Fuel Suppliers
- DOT
- PSC/OEI
- Fuel Distributors
Overall Concept

- Credible threat of **significant** power outage
- Key infrastructure shut down (pipelines, etc.)
- World events indicate a shortage is imminent

**FCG call initiated**
- Key industry and government personnel notified
- Discuss response options and make recommendations

**Measures implemented**
- Waiver process
- Conservation measures initiated
- Emergency Contracts

**Additional calls as needed**
Ongoing Discussions

- Set-aside procedures and discussions with Prime Suppliers
- Priority end-user definition and fuel delivery

Potential Grants:
- Local Energy Emergency Planning
- Generator Readiness
- Alternatives Fuel Vehicles and Infrastructure

- Impact of specific threats – Cyber
- HR 3050 - Enhancing State Energy Security Planning and Emergency Preparedness Act of 2017
What’s your Role?

- Use iREV’s case studies and tracking tool to learn about AFVs and emergency planning
- Talk with your Clean Cities Coordinator to learn more about transportation fuels, AFVs and the local market
- Meet with your local emergency manager to learn about the local planning process, and share information on the value of your company’s role during emergencies.
- Communicate with the Office on Energy Innovation to help plan for future events, and actively participate in planning and exercises.
Questions?
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