Public Power’s Mutual Aid Network

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What I’ll Cover:

• About APPA and Public Power
• APPA’s Mutual Aid Network
• Public Power Mutual Aid Playbook (MAP)
About APPA

- American Public Power Association (APPA)
- Created in 1940 as a non-profit, non-partisan organization
- Trade association for the over 2,000 local- and state-owned electric utilities
- Collectively serving over 48 million Americans
- Based in Washington, D.C. area
Public Power in the U.S.

<table>
<thead>
<tr>
<th>Customers Served</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 100,000</td>
<td>22</td>
</tr>
<tr>
<td>40,001 - 100,000</td>
<td>30</td>
</tr>
<tr>
<td>20,001 to 40,000</td>
<td>80</td>
</tr>
<tr>
<td>10,001 to 20,000</td>
<td>133</td>
</tr>
<tr>
<td>4,001 to 10,000</td>
<td>308</td>
</tr>
<tr>
<td>2,001 to 4,000</td>
<td>340</td>
</tr>
<tr>
<td>1,001 to 2,000</td>
<td>384</td>
</tr>
<tr>
<td>11 to 1,000</td>
<td>648</td>
</tr>
<tr>
<td>Less than 10</td>
<td>63</td>
</tr>
</tbody>
</table>
Electricity Providers in the U.S.

- Publicly Owned Utilities: 61.5%
- Power Marketers: 5.5%
- Cooperatives: 26.8%
- Investor-Owned Utilities: 5.9%
- Federal Power Agencies: 0.3%

Percentage of total electric providers by sector
Number of Customers by Utility Type

- Publicly Owned Utilities: 15%
- Investor-Owned Utilities: 68%
- Cooperatives: 13%
- Power Marketers: 4%
About APPA’s Mutual Aid Network

• Public power utilities have engaged in mutual aid for over 100 years, primarily through local, state and regional efforts
• Late 90’s: Created a one-page mutual aid agreement developed by APPA and National Rural Electric Cooperative Association (NRECA)
• Approximately 2,000 municipal and cooperative utilities have signed it from across the country
• Not designed for extensive mutual aid contracting
The Network That Was

APPA Idle

 Calls into APPA:
  1. Damaged area
  2. Offers to help

 What are the needs?

 Define needs

 Put out request for help to Mutual Aid list

 NOAA expert

 Fed. Input

 Regional expert

 None

 Some needs

 Pair with offers

APP connects the dots

 Members reply

 Anyone requesting?

 No

 Yes
Formalizing Public Power’s Mutual Aid Processes

APPA/NRECA Mutual Aid Agreement developed

1999


Superstorm Sandy Hits

Post-Sandy Hotwash with DOE and DHS

Jan. 2013

Gap analysis conducted, Meeting with President Obama

May 2013

Mutual Aid “Committee of the Willing” formed

June 2013

Sept. 2013

First meeting of Mutual Aid Working Group (MAWG)
Formalizing Public Power’s Mutual Aid Processes

- Mutual Aid Plan Framework developed
- Mutual Aid Playbook developed; presented to U.S. DOE Sec. of Energy
- Mutual Aid Playbook presented to new Deputy Sec. of Energy, Sherwood-Randall

- Jan. 2014
- May 2014
- Sept. 2014
- Oct. 2014
- April 2015
- Fall 2015

- Public Power’s Mutual Aid Network at DOE’s Clear Path II event
- MAWG Committees formed

- • Identify gaps and continue to refine
  • Coordination with industry and gov’t partners
  • Media relations education
  • Exercise
1) “No Man is an Island”

- Power of 10 Regional Networks
- Align with FEMA regions for simplicity of upwards communication
- Working to identify network coordinators within each region – striving to cover all public power utilities
- Facilitate expedited coordination between regions in the event of a widespread disaster
2) Concentric Circles of Aid
3) Know Your Role, Play Your Role

• **Tier 1: Utility Coordinator** – point of contact (POC) for an individual municipal utility or a small group of utilities.

• **Tier 2: Network Coordinator** – POC for a group of participating mutual aid utilities or, in rare situations, a large or isolated utility. Network coordinators may be part of a state association, joint action agency or municipal electric utility.

• **Tier 3: National Coordinator** – central POC for the federal government and public power utilities. The national coordinator is an APPA staff member.
4) Know the Network

Diagram showing the network structure with tiers 1, 2, and 3, and connections to federal government agencies.
5) Know Your Resources

- Tier 2
  - Network Coordinators
    - Edison Electric Institute
    - National Rural Electric Cooperative Association
    - Other Organizations

- Tier 3
  - National Coordinator (APPA)
    - U.S. Department of Energy
    - Federal Emergency Management Agency
    - North American Electric Reliability Corporation
    - Other Federal Agencies
# Trigger and Responsibility Matrix

<table>
<thead>
<tr>
<th>Level</th>
<th>Steady State</th>
<th>Local/State Mutual Aid Activated</th>
<th>Regional Mutual Aid Activated</th>
<th>National Mutual Aid Activated</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>No outages</td>
<td>Update contact and resources</td>
<td>Communicate needs and available resources to network coordinator and update periodically</td>
<td>Communicate needs and available resources to network coordinator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>lists, and communicate</td>
<td>Monitor response</td>
<td>May assist identifying available resources</td>
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<tr>
<td></td>
<td></td>
<td>periodically with network</td>
<td>Monitor response</td>
<td>May work with other network coordinators to mobilize needed resources</td>
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<tr>
<td></td>
<td></td>
<td>coordinator</td>
<td>Monitor response</td>
<td>Host preemptive call with affected network coordinators</td>
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<td></td>
<td></td>
<td></td>
<td>Monitor response</td>
<td>Monitor response to inform federal agencies</td>
</tr>
<tr>
<td>1</td>
<td>Isolated event</td>
<td>Assess need, respond to event, and determine if escalation is needed</td>
<td>Monitor response</td>
<td>Monitor response to inform federal agencies</td>
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<td></td>
<td>Monitor response</td>
<td>Monitor response to inform federal agencies</td>
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<td></td>
<td></td>
<td>Monitor response</td>
<td>Monitor response to inform federal agencies</td>
</tr>
<tr>
<td>2</td>
<td>Local/state event</td>
<td>Communicate needs and available resources to network coordinator and update periodically</td>
<td>Monitor response</td>
<td>Monitor response to inform federal agencies</td>
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<tr>
<td></td>
<td></td>
<td>Monitor response</td>
<td>Monitor response</td>
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<td>Monitor response</td>
<td>Monitor response</td>
<td>Monitor response to inform federal agencies</td>
</tr>
<tr>
<td>3</td>
<td>Regional event</td>
<td>Communicate needs and available resources to network coordinator</td>
<td>Assist identification of available resources</td>
<td>Available to coordinate response</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>May work with other network coordinators to mobilize needed resources</td>
<td>Available to coordinate response</td>
</tr>
<tr>
<td>4</td>
<td>National event</td>
<td>Communicate needs and available resources to network coordinator</td>
<td>Assist identification of available resources</td>
<td>Available to coordinate response</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Work with other network coordinators and APWA to mobilize needed resources</td>
<td>Available to coordinate response</td>
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<td></td>
<td>Manage local response</td>
<td>Inform federal agencies</td>
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<td>Manage local response</td>
<td>Inform federal agencies</td>
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<td></td>
<td></td>
<td>Manage local response</td>
<td>Inform federal agencies</td>
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Steady State/Isolated Event

**Level**

- **Tier 1:** Utility Coordinator
  - **Steady State**
    - **0** No outages
      - Update contact and resources lists and communicate periodically with network coordinator
    - **1** Isolated event
      - Assess need, respond to event, and determine if escalation is needed
  - **Tier 2:** Network Coordinator
    - Compile contact and resources lists from utilities within network
  - **Tier 3:** National Coordinator (American Public Power Association)
    - Maintain mutual aid playbook and listserv
Local/State Event

Local/State Mutual Aid Activated

**Level 2**

**Local/state event**

- Communicate needs and available resources to network coordinator and update periodically
- Manage response within their utility

**Tier 1: Utility Coordinator**

- Monitor response
- May assist identifying available resources
- Inform APPA of response, potential needs, and if preemptive call is needed

**Tier 2: Network Coordinator**

- Monitor conditions for possible escalation
- Monitor response to inform federal agencies

**Tier 3: National Coordinator (American Public Power Association)**
Regional Event

Tier 1: Utility Coordinator
- Communicate needs and available resources to network coordinator
- Periodic updates of needs and resources as response proceeds

Tier 2: Network Coordinator
- Assist identification of available resources
- May work with other network coordinators to mobilize needed resources

Tier 3: National Coordinator (American Public Power Association)
- Host preemptive call with affected network coordinators
- Monitor response to inform federal agencies

Regional Mutual Aid Activated

Regional event
3
National Event

National Mutual Aid Activated

**4 National event**

**Level**

**Tier 1: Utility Coordinator**
- Communicate needs and available resources to network coordinator
- Multiple daily updates of needs and resources as response proceeds
- Manage local response

**Tier 2: Network Coordinator**
- Assist identification of available resources
- Work with other network coordinators and APPA to mobilize needed resources

**Tier 3: National Coordinator (American Public Power Association)**
- Available to coordinate response
- Inform federal agencies
Moving Forward

- Cooperative Agreement with DOE
  - National Table Top Exercise in October
  - Regional Exercises in early 2017
  - “Exercise in a Box”

- APPA’s CAPP Flex
  - CAPP Flex 1 in June 2015 – Minneapolis, MN
    - Physical / Terrorism Model
  - CAPP Flex 2 in June 2016 – Phoenix, AZ
    - Small System Model – Ukrainian similarities
Summary

• **No Man Is an Island**
• **Build relationships, build your network**
  – Regional, state, and national resources available
• **United we stand, divided we fall**
  – Customers don’t differentiate between munis, co-ops, and IOUs (neither do the media or state and federal regulators)
Questions?

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APPA’s Mutual Aid Website/Listserv:  
publicpower.org/MutualAid

Mutual Aid Team at APPA:  
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