

Powering Strong Communities

American Public Power Association's Cybersecurity Services Program

Midwest Regional Cybersecurity Summit

Keamey, NE

July 24, 2019



Cyber & Physical Preparedness

- Help members develop "all-hazards" approach to disaster preparation and response
- Show federal policymakers public power's commitment to security and mutual aid
- Strengthen government/industry partnerships
- Minimize new federal regulation

DOE Cooperative Agreement Overview

Goal:

Develop a culture of cyber security within public power utilities.

Objective:

Engage with public power distribution utilities to understand their cyber security awareness, capabilities and risks. Move each utility from its existing state to a public power target profile.

Tasks:

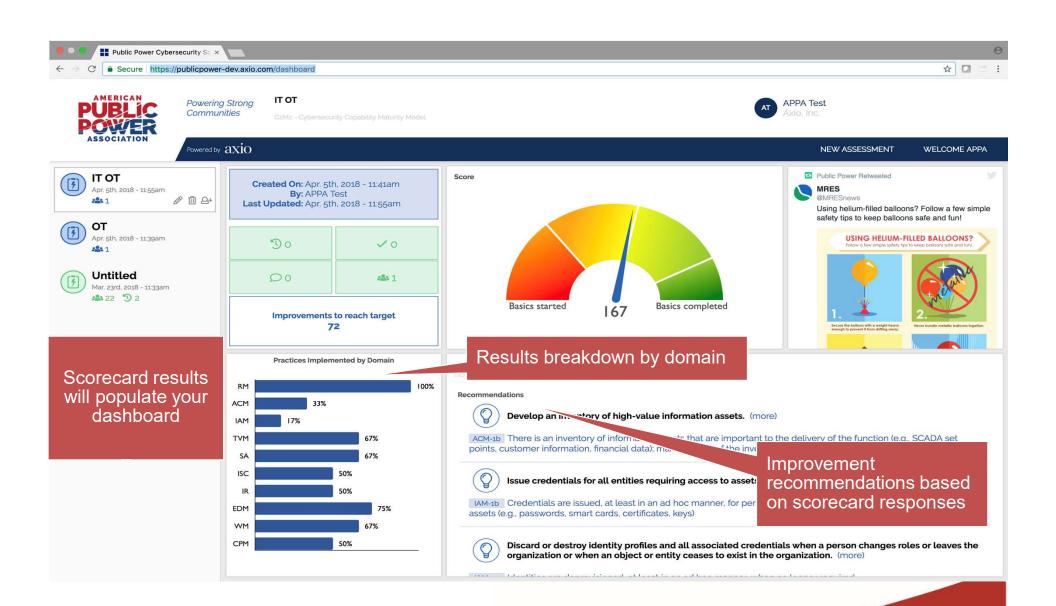
- 1. Cybersecurity risk assessments (Cybersecurity Scorecard)
- 2. Onsite cyber vulnerability assessments
- 3. Pilot existing and emerging security technologies
- 4. Information sharing between utilities and APPA, E-ISAC, MS-ISAC, other partners

DOE Cooperative Agreement Overview

- In 2016 APPA partnered with the Department of Energy
- 3-year, \$7.5M
 Cooperative Agreement;



- 2016-17 Analysis and Data Collection
- 2017-18 Deployment and Resource Development
- 2018-19 Sustainability



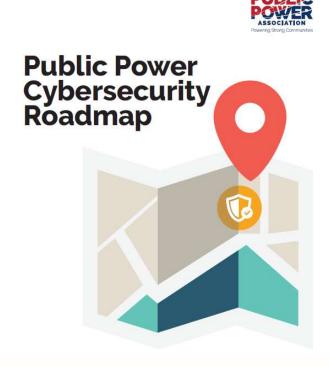
Scorecard Activity

- 261 public power utilities participating
 - (2019 Goal is to reach 400 utilities)
- 502 foundational cybersecurity self assessments at the 244 utilities
 - (14 Questions 45 minutes)
- All public power utilities have FREE access to the Scorecard portal
- Utilities who have taken the assessment have reported that the Scorecard is helping to "take the guesswork out of what they should be striving to achieve"

Cybersecurity Roadmap

Cybersecurity Roadmap

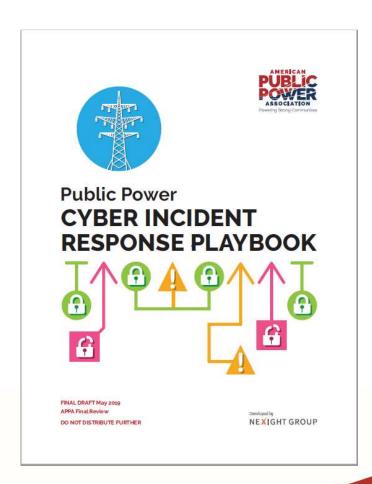
- Using the Scorecard output, provide public power utilities with clear actions to improve their cybersecurity program
- Provide information that creates a compelling business case for security investments.



Incident Response Playbook

Cyber Incident Response Playbook

- Modeled after mutual aid response network
- Cyber Mutual Assistance (CMA) being developed nationally
- Utilities sharing cyber resources and expertise in a crisis
- Exercising the playbook to be prepared



Cybersecurity Training

- Signing up JAAs to be host sites for training
 - Cybersecurity@publicpower.org
- Deliver low cost cybersecurity training and exercises that align with the Scorecard
- Conduct Regional facilitated
 - Orlando July 10-11
 - Kearney Nebraska July 24-25
 - Los Angeles California August 22
- Hosting a year end public power cybersecurity summit (November 18-20, 2019 Nashville TN)

Secure Information Sharing

- Sign up for the E-ISAC at <u>www.eisac.com</u>
- Sign up for the MS-ISAC at <u>www.cisecurity.org</u>
- We continue to recommend the E-ISAC as the trusted source of public power utility's ICS threat information.
- Developing a program for Shared Cybersecurity Services
 - Joint Action Agency model as a framework to possibly provide a shared cyber analyst
 - Mature organizations mentoring others
 - Concise threat feed in our Secure Trusted Community (STC) network

Additional Cybersecurity Resources

- Cybersecurity Scorecard
 - 261 public power utilities
- Cybersecurity Roadmap
 - Helps you develop an action plan
- Incident Response Playbook
 - Cyber Mutual Aid
 - Shared cyber resources
- Cybersecurity Training
 - We bring training to you
- Secure Information Sharing
 - Weekly Situation Report (new)





Section	Items	Source
Urgent Alerts/Vulnerabilities	- Multiple ICS-CERT Vulnerabilities	ICSA-19-178-01 ICSA-19-178-02 ICSA-19-178-03 ICSA-19-178-04 ICSA-19-178-05
Current Activity	- Microsoft Outlook Security Feature Bypass Vulnerability	CVE-2017-11774
Strategic Awareness	Rising cyber conflict between the US, Iran and Russia Multiple US. Cities hit by ransomware.	Dragos
Request for Information	•	





Resources page: www.publicpower.org/gridsecurity

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