Cyber Integration and Information Sharing Solutions for Small Utilities

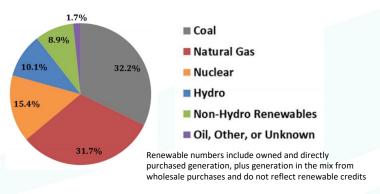
Emma M Stewart
Chief Scientist, NRECA



NRECA and Not-for-Profit Electric Cooperatives

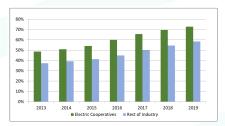
63 Generation & Transmission:

• ~ 5% of U.S. electricity



832 Distribution:

- 2.7 million miles of lines
- 42% of the U.S.
- 8 members/mile of line



73% AMI

Electric Cooperatives

Rest of Industry





Program Strategy

- The NRECA Cybersecurity Program encompasses a wide range of efforts, including the successful RC3 Self-Assessment and the SANS training voucher program.
- Rural Threat Analysis Center & the Workforce Initiative are 2 key new pieces, tightly coupled and mutually beneficial:
 - TAC: Information Sharing & Incident Response focus
 - Workforce Development focus rethinking workforce engagement





Resources and Education

formation Sharing

Sourcing

Shared Services

→Information

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Collaboration

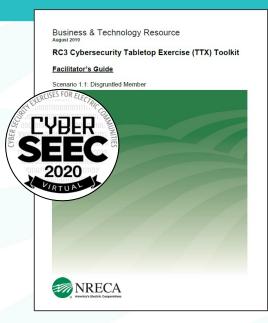


SELF ASSESSMENT → ACTION PLAN → IMPLEMENTATION

Cybersecurity Exercises

- RC3 Cybersecurity Tabletop Exercise Toolkit – 12 scenarios
- CyberSEEC Distributed Play Exercise





RC3 Cybersecurity Guidebook For Electric Cooperative Attorneys

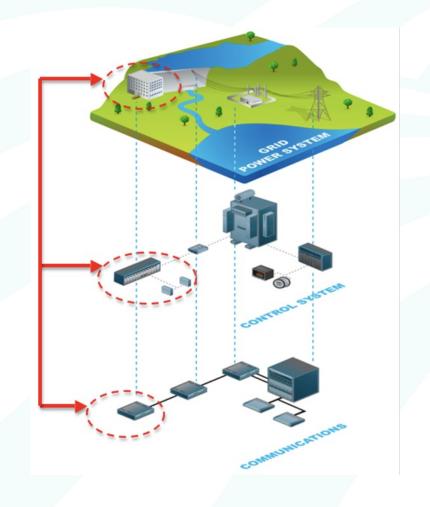
Managed Cybersecurity Service Providers for Electric Utilities



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Infra spending, initiatives and investments are at an all time high

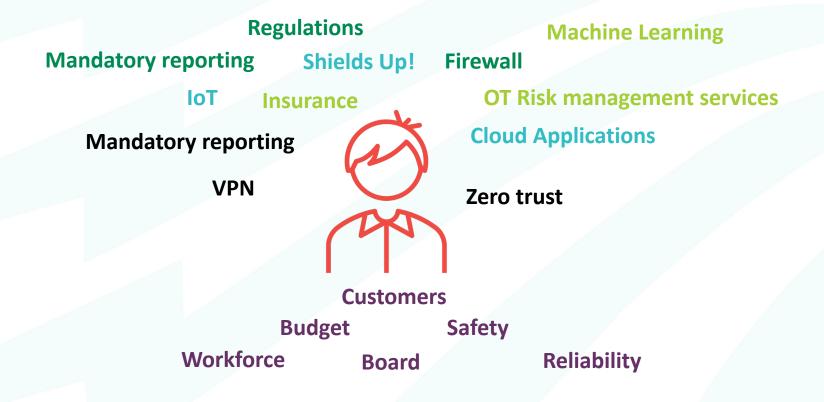
• How can we integrate communications, controls, distribution upgrades, and cybersecurity into DER deployment & decarbonization from the start – all of this depends on network security, but we need holistic integration – not a bolt on





Investment prioritization and decision support

The electric infrastructure community is splitting in cyber into those who can afford the mandated or proposed solutions, and those who must make difficult choices without decision support





Strategic Solution – Cyber Champions

Primary objectives:

- Grow cybersecurity expertise from within the local Co-op communities with clear educational and/or certification requirements for designated career tracks
- Keep cybersecurity professionals with competitive compensation and career development opportunities from across the Co-op space
- (But also, Hire: Use the collective Co-op strength through TAC to compete in the cybersecurity labor market)



Summary & How to Work with Us



Cyber Program – mature and agile – partnerships!



TAC Timeline – Program is being piloted in 2 regions with a goal for expansion in late 2022



Partners and community engagement – join our efforts!



Standards for data and information integration – advisory

