



NASEO Annual Meeting

Andrew Wills, Chief of Staff and Senior Advisor

October 12, 2022

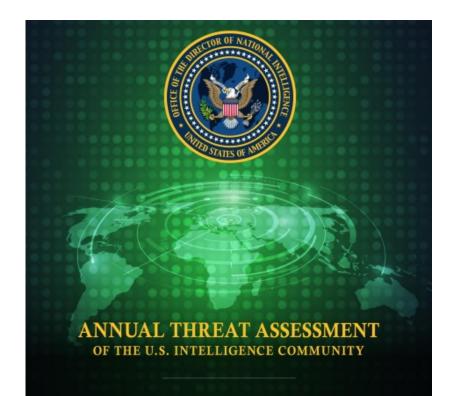
CESER Mission & Energy Threat Landscape

To enhance the security of U.S. critical energy infrastructure to all hazards, mitigate the impacts of disruptive events and risk to the sector overall through preparedness and innovation, and respond to and facilitate recovery from energy disruptions in collaboration with other Federal agencies, the private sector, and State, local, tribal, and territory governments.

Evolving Threats to Critical Infrastructure



Why Cybersecurity?



Office of the Director of National Intelligence

February 2022

C The New York Times

Cyberattack Forces a Shutdown of a Top U.S. Pipeline

The operator, Colonial Pipeline, said it had halted systems for its 5500 miles of pipeline after being hit by a ransomware attack.

1 month ago



WSJ Wall Street Journal

The Log4j Vulnerability: Millions of Attempts Made Per Hour to Exploit Software Flaw

The Log4j flaw allows attackers to execute code remotely on a target computer, which could let them steal data, install malware or take control.

B Bloomberg.com

Russian Hackers Tried Damaging Power Equipment, Ukraine

...

... military intelligence agency launched a cyberattack on Ukrainian energy facilities, according to Ukrainian cybersecurity officials.



CESER's Cybersecurity Resources

Tools and Technology



Capacity Building NARUC ional Association of Regulatory U.S. DEPARTMENT OF ENERGY'S CYBERFORCE **Cybersecurity Tabletop Exercise Guide** PROGRAM A CYRERSECURITY WORKFORCE DEVELOPMENT PROGRAM Vnn P. Costanti Ashton Raffet ENERGY Contract of Cybersecurity, Energy Security, and Emergency Response **National Cyber-Informed** 2022 National **Engineering Strategy** Summit On State from the U.S. Department of Energy Cybersecurity NATIONAL **GOVERNORS** ASSOCIATION

Ongoing Efforts



IIJA Cyber Provisions 40121, 40124, 40125, & 40126

DOE Announces \$45 Million for Next-Generation Cyber Tools to Protect the Power Grid

AUGUST 17, 2022

Department of Energy

U.S. DEPARTMENT OF ENERGY OFFICE OF CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY RESPONSE

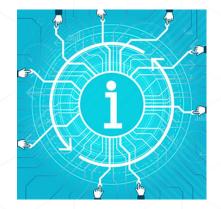
40124: Rural and Municipal Utility Advanced Cybersecurity Grant and Technical Assistance (RMUC) Program

Funding: \$250 Million over 5 years (FY22-26)

Objectives:

- 1. Deploy cybersecurity technology, operational capability, or services that <u>enhance the security posture</u> of electric utilities through improvements in the ability to **protect** against, **detect**, **respond** to, or **recover** from a **cybersecurity threat**.
- 2. Increase the participation of eligible entities in cybersecurity threat *information sharing* programs.





40124: RMUC

Funding: via grants, technical assistance, cooperative agreements

Eligibility:

- Rural electric cooperatives
- Municipal electric utilities
- Not-for-profits in partnership with rural or municipal electric utilities
- Investor-owned electric utilities that sell < 4,000,000 MWh/year

RMUC Listening Sessions:

 CESER-led <u>listening sessions</u> with rural, municipal, and small investor-owned utilities that have limited cybersecurity resources



State Energy Security Plan (SESP) Resources



U.S. DEPARTMENT OF ENERGY Of Cybersecurity, Energy Security, and Emergency Response

depend on power and fuel to operate. Unfortunately, this makes the Nation's energy infrastructure an attractive target for cyber-attacks. Table 2 lists known cyber-attacks that have impacted energy systems. States are encouraged to add examples to this Table. All energy systems have vulnerabilities to cyber threats, 100% security is not possible. But many steps can be taken to harden OT systems to mitigate these threats.

U.S. DEPARTMENT OF ENERGY

U.S. DEPARTMENT OF Office Cyb and

Cybersecurity, Energy Security, and Emergency Response



Understanding Your State's Cyber Landscape Questions To Ask Other State Officials

Questions to Ask PUCs

Goal: Understand the cybersecurity maturity and preparation level and identify possible gaps where SEO's convening ability may be beneficial

- 1. What level of cybersecurity protections or plans are in place with the utilities you regulate? Have any completed and shared a cybersecurity maturity assessment? Do all of the utilities have a cyber incident response plan? What gaps or concerns do you have?
 - Review the current status of cyber preparedness, planning and investments.
- 2. Are there areas you think the State Energy Office may act as a convenor to host some of these cyber discussions with state and energy partners?

Cybersecurity Reports



Cybersecurity Considerations for Distributed Energy Resources on the U.S. Electric Grid

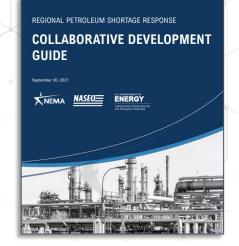
October 2022

Congressional Report In-Progress

- CESER is working with NREL on a Report to Congress authorized in IIJA Section 40121.
- The report will assess the priorities, policies, procedures and actions needed to take to enhance the cybersecurity of the electrical distribution system.
- Last week, CESER and NREL convened a stakeholder information sharing session that included input and participation from federal agencies, state regulators, and industry stakeholders.

Upcoming NASEO Activities

- Regional Petroleum Shortage Response Collaborative
 - Midwest and Southwest collaboratives
- State Energy Security Planning Bootcamp



Cybersecurity for Electric Vehicle Charging Infrastructure Guidance

Cybersecurity Call to Action

- Consider cybersecurity in all-hazard energy security planning
- Collaborate with your State: Information Security Officer, Homeland Security Advisor and Public Utility Commissioners
- Train staff to be aware of cyber threats, specifically avoiding "social engineering" cyberattacks
- Attend NARUC's Cybersecurity Training
- Institute regular cyber threat briefings for energy stakeholders and state officials
- Build well-defined, trusted information-sharing processes and implement exchange mechanisms that meet the needs of federal, state, and private sector partners.
- Exercise information sharing protocols and channels.





Enhancing Energy Sector Cybersecurity: Pathways for State and Territory Energy Offices

2020

CESER Contact Information



Andrew Wills

Chief of Staff and Senior Advisor Andrew.wills@hq.doe.gov 202-586-4081



Brandi Martin SLTT Program Manager Brandi.Martin@hq.doe.gov 202-586-7983



Megan Levy SLTT Project Manager Megan.levy@hq.doe.gov



Website: <u>energy.gov/ceser</u>



@DOE_CESER



CESER LinkedIn

EPARTMENT OF Cybersecurity, Energy Securit and Emergency Response

Protecting our energy infrastructure is our **shared responsibility.**

@DOE_CESER

linkedin.com/company/office-of-cybersecurity-energysecurity-and-emergency-response

in

energy.gov/CESER



Office of Cybersecurity, Energy Security, and Emergency Response