U.S. DEPARTMENT OF ENERGY | *Office of* Cybersecurity, Energy Security, and Emergency Response

NASEO Energy Policy Outlook Conference

Brandi Martin, SLTT Program Manager

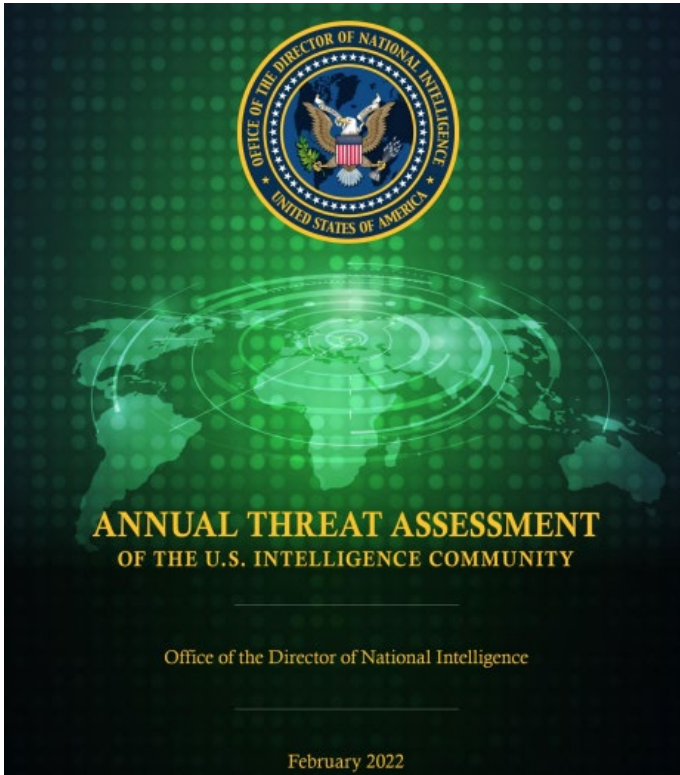Megan Levy, SLTT Project Manager

February 8, 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

Extreme Weather — Accidents and Technical Failures — Cyber Threats — Acts of Terrorism — Pandemics

Cybersecurity Threats

ANNUAL THREAT ASSESSMENT OF THE U.S. INTELLIGENCE COMMUNITY
Office of the Director of National Intelligence
February 2022

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 5,500 miles of pipeline after being hit by a ransomware attack.
May 13, 2021

Bloomberg.com
**Russian Hackers Tried Damaging Power Equipment, Ukraine ...**
... military intelligence agency launched a cyberattack on Ukrainian energy facilities, according to Ukrainian cybersecurity officials.

Energy Emergency Assurance Coordinators Program

- The EEAC Program is a cooperative effort between DOE CESER, NASEO, NGA, NARUC and NEMA

- State designates primary and secondary contact(s) for each sector (petroleum, electricity, natural gas) in event of an energy emergency

- Provides credible, accurate, and timely source of information and updates on actions taken

- Goal is to improve information-sharing and communication and lower response times

- CESER's SLTT Program sends states a monthly brief with analysis of past disruptions via the EEAC listserv

- See: Guidance on Reviewing and Updating EEAC Contacts
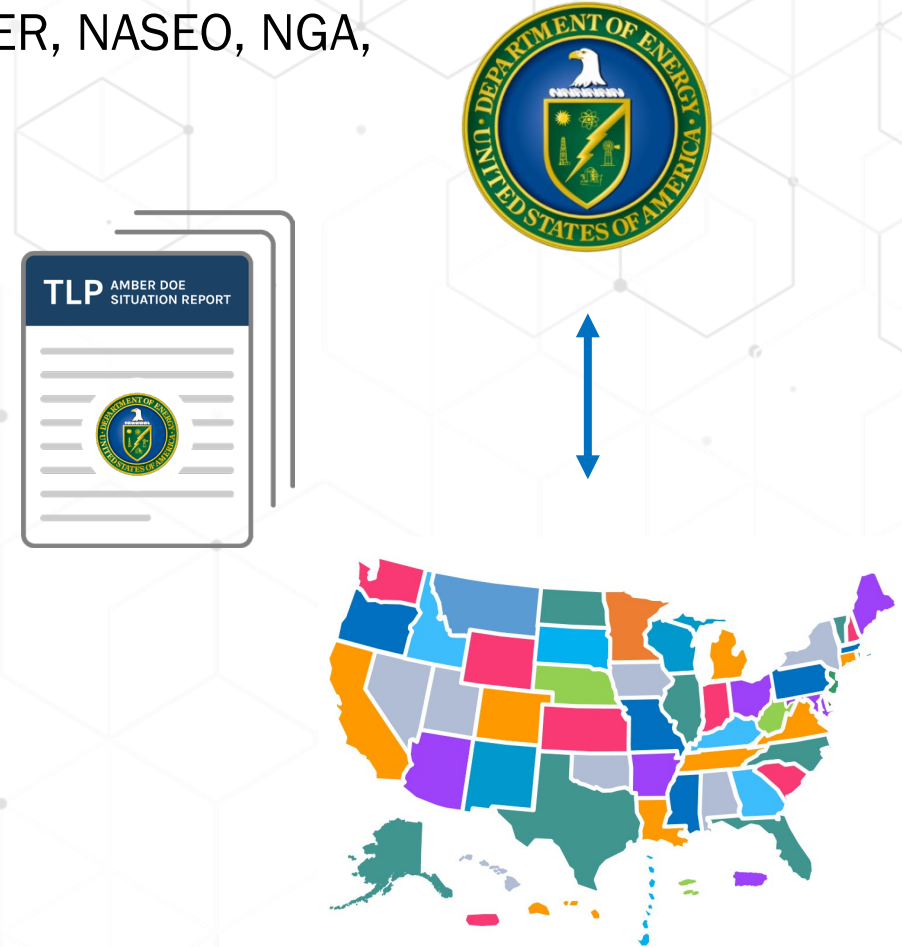
Information Sharing Across the Energy Sector

Information Sharing and Analysis Centers (ISAC)

Energy Emergency Assurance Coordinator (EEAC) Program facilitates 2-way information sharing between DOE and states leading up to and during an energy disruption or emergency
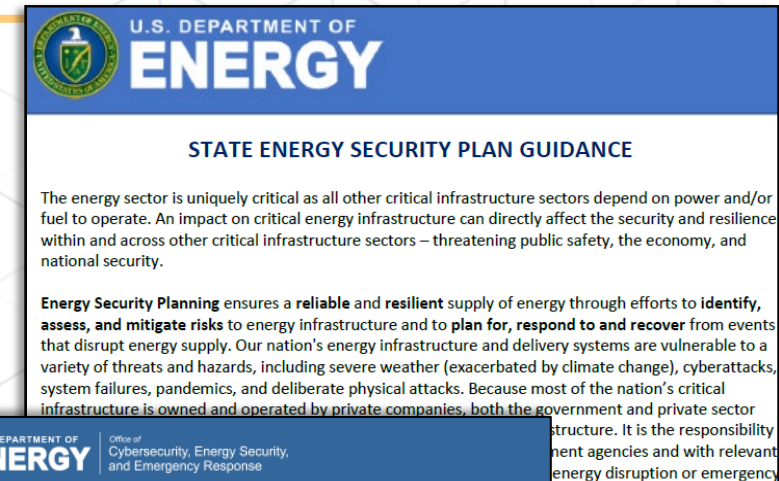

During Events:

DOE shares with states:

- Outage estimates (pre-event)
- TLP AMBER Situation reports
- Updates on Coordination calls which are scheduled as needed

States share with DOE:

- Updates on status of energy system restoration
- Status of emergency declarations and waivers
- Questions/ unmet needs
- Information is shared with DOE ESF-12 responders, at national, regional, and state emergency operations centers or directly with DOE HQ team

Energy Security Plan (SESP) Technical Assistance

- First formal guidance from DOE on Energy Security Plans

- On behalf of SEP, CESER
  - Led development of SESP Guidance and Framework for state implementation of 40108.
  - Created 8 SESP Drop-ins for states

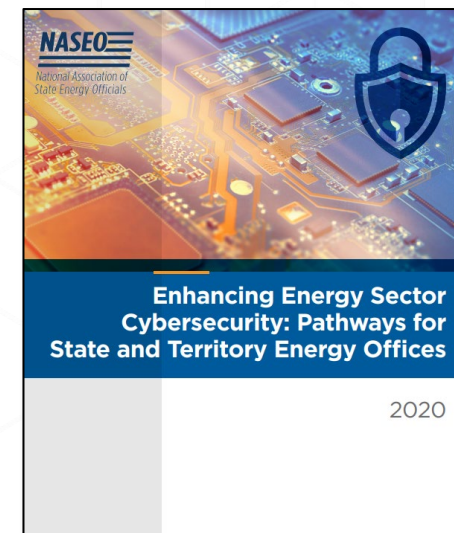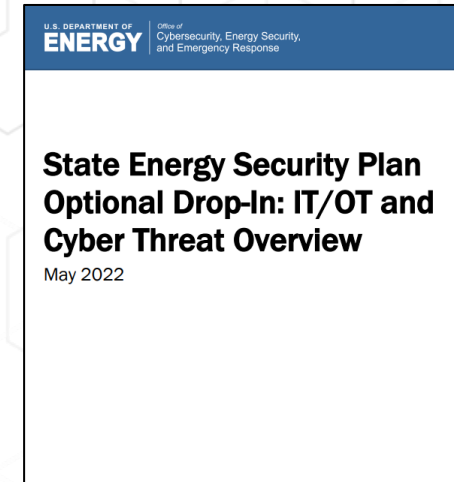- [Energy Security Planning Hub](#) published

SESP TA

Projects	Element	Activities
Contractor RFP guidance	All	• Develop guidance and RFP template language for states who decided to engage outside groups to assist with their plan. Avoid 100% outsourced plans with little or no state engagement (resulting in poor unusable plans) • Provide guidance on in-state collaborators "best practice" engagements.
Risk Assessment Toolkit**	(4)	• DOE will create an energy risk assessment toolkit or guide for state officials. No state guides currently exist • Guidance on how to use the assessment to evaluate and prioritize risk reducing projects
Address threats & vulnerabilities Inform mitigation approach**	3, 5, 6	• DOE will facilitate multiple cohorts with an emphasis on regional coordination to address multi-state infrastructure interdependencies, threats, hazards, vulnerabilities, and best practices in developing hazard mitigation strategies as well as relationships with industry and other key groups.
Phase 2 "drop ins"	All	• Develop examples/excerpts that meet IIJA elements, instructional guidance and educational webinars. • Create fuel templates and guidance that states can utilize for mitigation and response
Cybersecurity Pilots		• DOE will facilitate pilot workshops with different states, across multiple state agencies to discuss the cyber roles and responsibilities of state energy and emergency officials, how coordination may be increased, ways industry is (or could be) engaged, how the state's cyber response plan can incorporate a cyber-physical attack, and how state partners can work with State Energy Offices on the cybersecurity portion of the SESP.

**Linkage to 40101

Cybersecurity Considerations

- Cybersecurity is part of all-hazard energy security planning

- Explore use of IIJA dollars for cyber investments (training, equipment, etc.)
  - RMUC 20124
  - Inclusion of cyber in RFPs / procurement

- Attend NARUC Cyber Training and NARUC resources

- Collaborate with your State: Information Security Officer, Homeland Security Advisor and Public Utility Commissioners

- Institute regular 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.

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State Energy Security Plan Optional Drop-In: IT/OT and Cyber Threat Overview

May 2022

NASEO — National Association of State Energy Officials

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

2020

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

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