

Rail Electrification Council of NEMA

October 20, 2021















- Worldwide Threat Assessment of US Intelligence Community April 2021
 - <u>https://www.dni.gov/files/ODNI/documents/assessments/ATA-2021-Unclassified-Report.pdf</u>
- Department of Defense, Defense Science Board, Task Force on Cyber Deterrence, February 2017
 - <u>https://www.armed-</u> <u>services.senate.gov/imo/media/doc/DSB%20CD%20Report%202017-02-27-</u> <u>17_v18_Final-Cleared%20Security%20Review.pdf</u>
- DHS Binding Operational Directive 17-01, September 2017
 - <u>https://cyber.dhs.gov/bod/17-01/</u>







SolarWinds Supply Chain Compromise

Microsoft Exchange Server Vulnerabilities

Ivanti Pulse Secure & Nobelium

Colonial Pipeline Ransomware Attack

Blackberry QNX Vulnerability







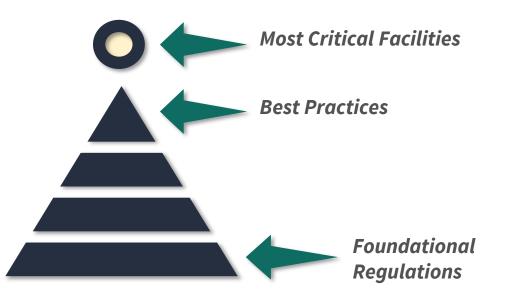




Establish Broad Foundational *Regulations through NERC*



Identify and Promote voluntary **Best Practices** to Address Advanced and Targeted Threats to Key Facilities





Collaborative Questions that Produce Protective Actions

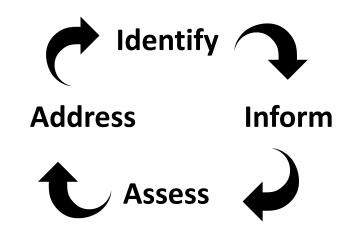


Security-Focused Discussions:

- **Do you know who's targeting your systems and how?**
- 2

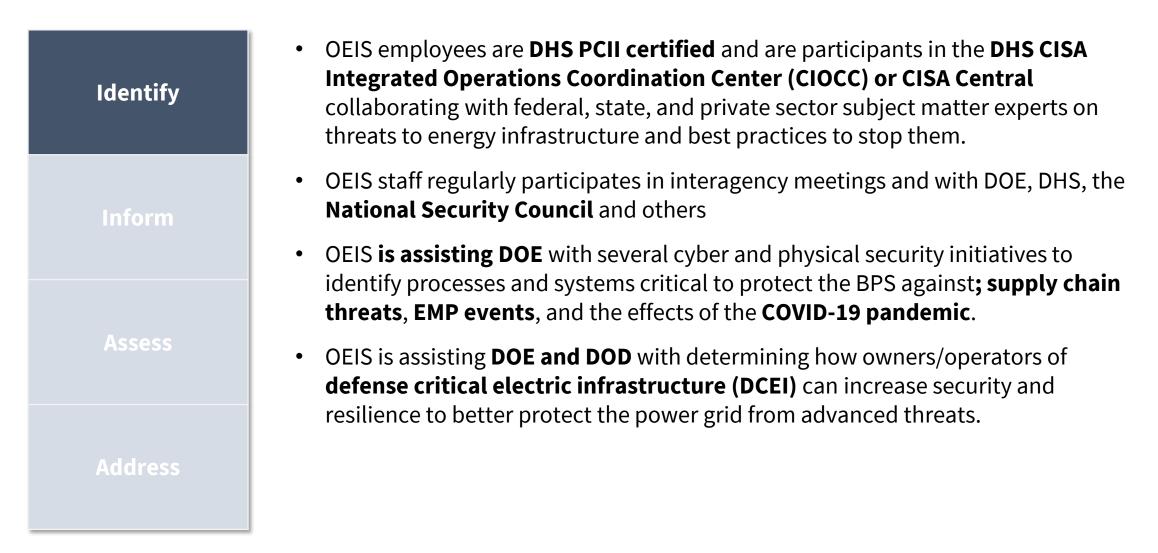
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- Do you know how to stop them?
- Have you identified the systems that are most critical?



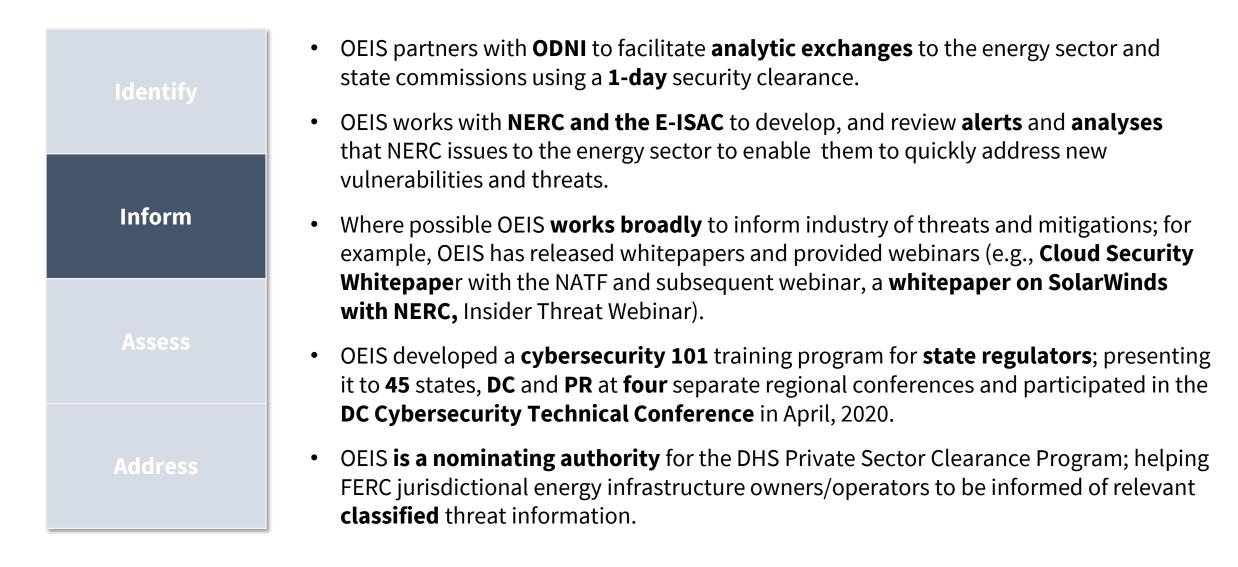
















Assess Address

- Since 2012, OEIS has conducted dozens of IT/OT Network Architecture Assessments and physical security reviews for electric, ONG pipeline (TSA), hydroelectric, and LNG facilities (USCG) jurisdictional to FERC.
- OEIS assists with the planning, preparation, and organization of several cyber and physical security tabletop exercises such as: Cyber Yankee which pairs NE National Guard units with utilities to simulate cyber attack and defense, NERC's GridEx which simulates nationwide cyber and physical attacks on utility systems, and the interagency FEMA-led National EMP Exercise which assess federal capabilities, roles, and responses to an EMP affecting energy infrastructure.





