

Electricity Information Sharing and Analysis Center (E-ISAC)

For Liberty Eclipse Exercise December 8, 2016



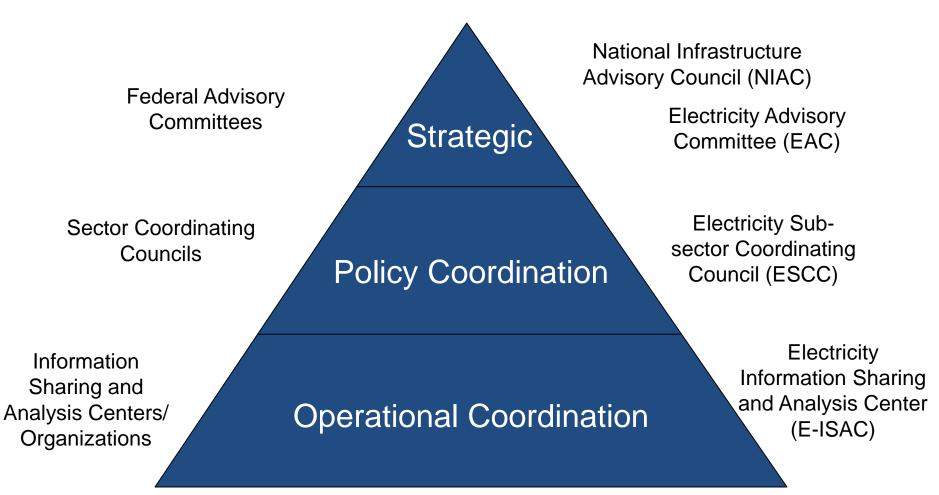
TLP: GREEN













E-ISAC Value Chain

Acquisition of Security Information

- Member Electricity Subsector utilities
 - Required entities
 - Non-required entities
 - Personal relationships
 - Special programs
- Public Private Partnerships
 - Sector ISACs/ISAOs
 - CIPAC working groups
- Government
 - Federal/state/local
 - Canadian
 - Other International
- Third Parties
- Sensors
- Feedback

Governance

- Structure
- Processes

E-ISAC Operations, Analysis, and Controls

Members and Products

- Electricity utilities
- Electricity trade associations
- Electricity working groups technical committees
- Public Private Partnerships
 - ESCC
 - Other ISACs
- Government
 - DHS ICS-CERT
 - DHS NCICC
 - DOE Ops Center
 - DOE National Labs
 - Canadian CIRC



- Via NERC's BPSA team, real-time monitoring of the Grid
- Contracted with commercial providers to monitor the external IP ranges and domain names of all registered BPS entities
 - Botnet infection / mail server compromise / C2 nodes
 - Phishing / domain name spoofing / website spoofing
- Cyber Risk Information Sharing Program (CRISP)
 - Advanced threat awareness with entity notification
 - Multiple sources of information
 - Provides IOCs/Snort rules for non-CRISP participants within a week of detection



- Physical threat awareness program
 - Design Basis Threat / surveillance / improvised explosives / UAS / active shooter situations
- Cyber and physical threat analysis
 - Monthly education presentations, weekly sector summaries
- TLP Green / Amber / Red notifications via the E-ISAC portal



- The E-ISAC maintains a presence at the National Cybersecurity and Communications Integration Center (NCCIC), a DHS-operated 24/7 watch floor near Washington, D.C.
 - Top Secret, real-time, operations center
 - Hub for classified threat and vulnerability work
- E-ISAC cleared personnel analyze the threat and vulnerability components seen by the intelligence community and make an initial determination of potential impacts on the BPS





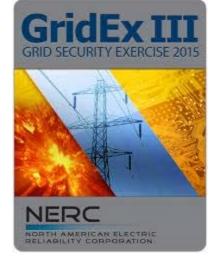
- E-ISAC staff is oriented around five primary groups:
 - Programs & Engagement Team
 - Watch Operations Team
 - Cyber Analysis Team
 - Physical Analysis Team
 - CRISP Team
- New staff being hired
 - Focus is on filling out the Operations, Analysis & Physical Teams





Exercises and Events

- Grid Security Conference (GridSecCon) 2015
 - October 17-21, 2016
 - Quebec City Complete
- GridEx IV
 - November, 2017
 - Two days of distributed play
 - Executive TTX
 - Multiple ways to participate







STG Series - Classified



- Threats include our vulnerabilities
- Opportunities include our strategic strengths use them
- Small vectors can mean big impacts
- Out of the way target sets can be advanced actor attractive



- From protection to risk acceptance and management
- Risk prioritization and security collaboration
- Life is not just at the edge, its within our network environments
- Own system awareness, and all hands understanding are key





Questions and Answers



RESILIENCY | RELIABILITY | SECURITY

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