

Information Sharing

Tom Wilson Chief Information Security Officer



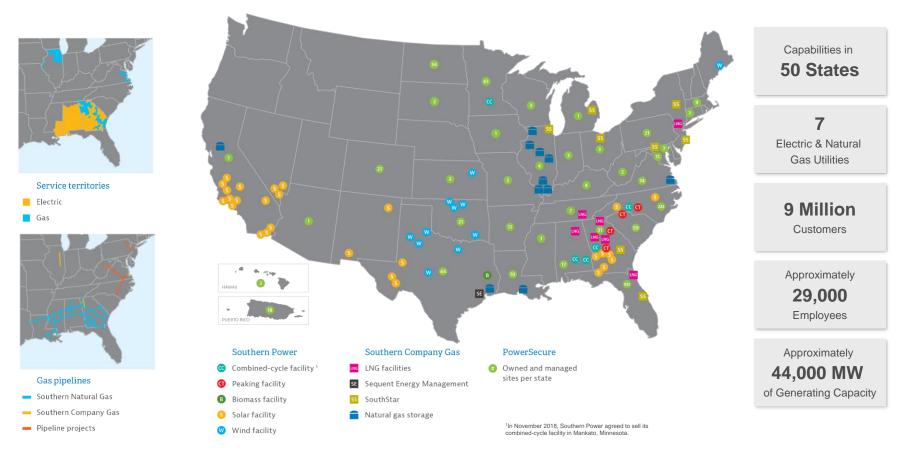


Who We Are:

Southern Company is one of America's premier energy companies



We provide clean, safe, reliable, affordable energy and customized solutions



US Electric Sector Approaches to Grid Resiliency



REGULATIONS



Physical

Cyber

Resiliency

INDUSTRY GOVERNMENT PARTNERSHIPS



Electricity Subsector Coordinating Council (ESCC)

Electricity Information Sharing and Analysis Center (E-ISAC)

Partnerships with federal, state, and local governments

INDUSTRY PROGRAMS



Incident Response

Mutual Assistance

Spare Equipment

EXERCISES

GridEx VGrid Security Exercise 2019



Why Information Sharing?



- Early Detection of Threats: Allow organizations to detect the threat sooner in their operational kill chain
- Situational Awareness: Increase situational awareness for individual organizations and the sector
- Best Practices/Lessons Learned: Improve overall security posture by learning from the practices of others



"Given the risks these threats present, it is increasingly important that organizations share cyber threat information and use it to improve their security posture."

- NIST SP 800-150 Guide to Cyber Threat Information Sharing

How to Process Information?



What to Share/Collect

- Indicators of Compromise (IOCs) which have a short- and medium-term value
- Tactics, Techniques, and Procedures
 (TTPs) which are more difficult for an
 adversary to change offer a longer-term
 value.
- Industry benchmarks to aid in understanding and improving investment and performance

How to Use Information

- Track threat actors, campaigns, and indications/warnings
- Create strategic intelligence for executive decision making
- Conduct routine collaboration and analysis

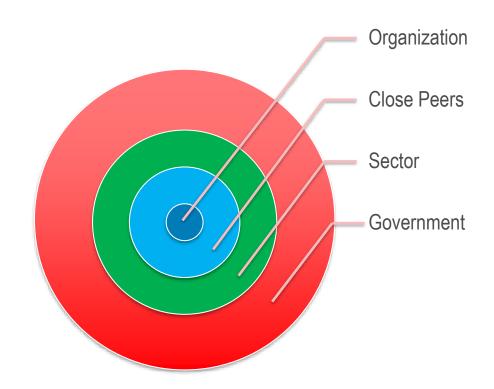
Timely, Vetted, Relevant, Accurate, Factual, and Actionable Information



Circles of Trust



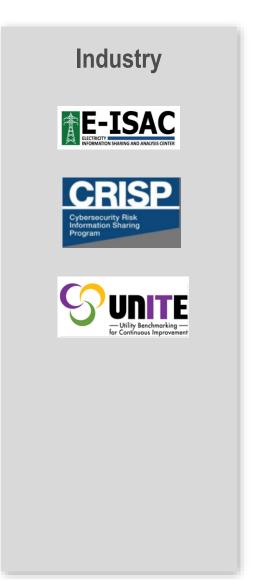
- Information sharing is fostered by trust, collaboration, and relationship building.
- Create a close circle of trusted individuals to leverage each other's capabilities.
- Meet with people in person, peer groups, and sector communities.
- Encourages sharing of business, process and technology enhancements.
- Provides for the ability to share organizational milestones and benchmark comparisons among peers.

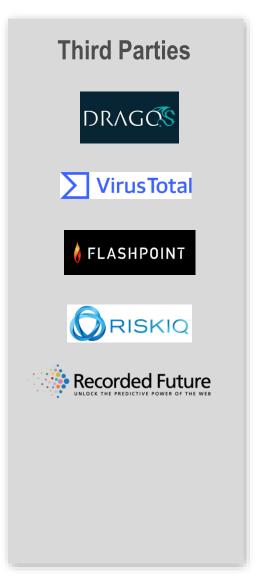


Energy Sector: Information Trust Groups









Collaboration Opportunities



Sharing Focus Areas and Scope

Cross Sector Peers

- Local
- Consortiums, committees and conferences

Sector Peers

- Local
- Trusted
- Small industry consortiums
- Broad national industry
- International industry

Information Sharing Analysis Centers / Organizations (ISAC/ISAO)

- o Sector
- Sectors aligned by adversary or other commonalities

Government

- Sector-specific agency
- Law enforcement
- Intelligence community

Traffic Light Protocol (TLP) is a great framework for information handling designations.

Color	When should it be used?	How may it be shared?
TLP:RED Not for disclosure, restricted to participants only.	Sources may use TLP:RED when information cannot be effectively acted upon by additional parties, and could lead to impacts on a party's privacy, reputation, or operations if misused.	Recipients may not share TLP:RED information with any parties outside of the specific exchange, meeting, or conversation in which it was originally disclosed. In the context of a meeting, for example, TLP:RED information is limited to those present at the meeting. In most circumstances, TLP:RED should be exchanged verbally or in person.
TLP:AMBER Limited disclosure, restricted to participants' organizations.	Sources may use TLP:AMBER when information requires support to be effectively acted upon, yet carries risks to privacy, reputation, or operations if shared outside of the organizations involved.	Recipients may only share TLP:AMBER information with members of their own organization, and with clients or customers who need to know the information to protect themselves or prevent further harm. Sources are at liberty to specify additional intended limits of the sharing: these must be adhered to.
TLP:GREEN Limited disclosure, restricted to the community.	Sources may use TLP:GREEN when information is useful for the awareness of all participating organizations as well as with peers within the broader community or sector.	Recipients may share TLP:GREEN information with peers and partner organizations within their sector or community, but not via publicly accessible channels. Information in this category can be circulated widely within a particular community. TLP:GREEN information may not be released outside of the community.
TLP:WHITE Disclosure is not limited.	Sources may use TLP:WHITE when information carries minimal or no foreseeable risk of misuse, in accordance with applicable rules and procedures for public release. Subject to standard copyright rules.	TLP:WHITE information may be distributed without restriction.

GridEx V: U.S. Government Information Sharing



- Hosted representatives from government agencies
- Gain better understanding of Southern Company operations, response and recovery to different types of incidents
- Continued fostering relationships with the business units and corporate (physical) security
- Leverage lessons learned from GridEx to advance operational collaboration and development of joint (public-private) playbooks



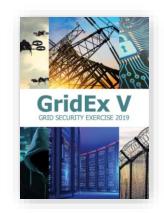






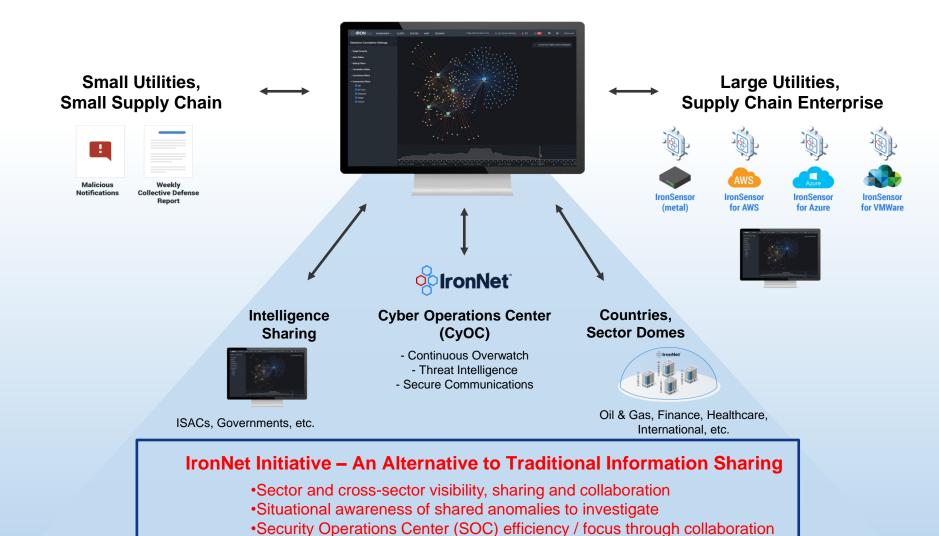










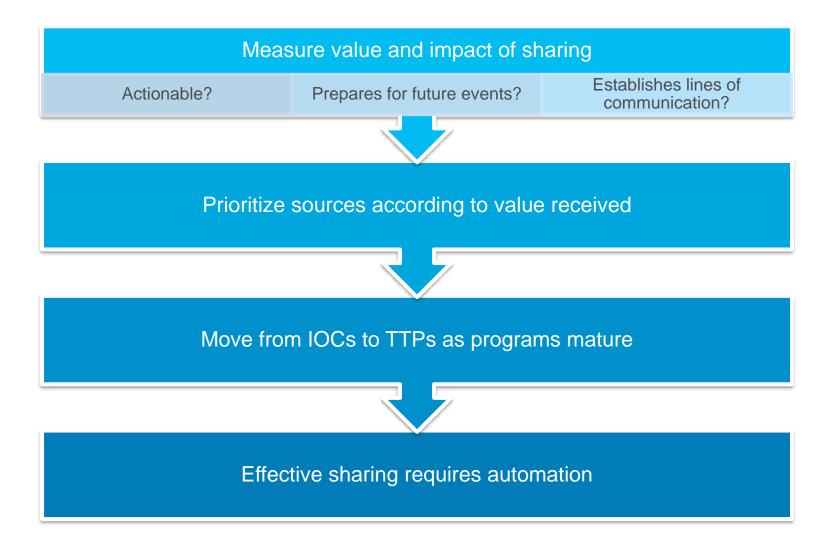


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prioritize threats confirmed at peersdeprioritize threats noted by peers

Lessons Learned and Best Practices





Plans Moving Forward



Business

Awaiting future opportunities for in-person collaboration

Process

- Continued tabletop and playbook development
- Refine processes based on lessons learned

Technology

- Increased automation and tool support for sharing
- Data correlation tied to actionable intelligence



Final Thoughts...



Mission

- Improve security ecosystem within and across companies and governments
- Reduce adversary dwell time in targeted environments.
- Shorten the mean time to recovery after an incident.



Recommendations

- Information sharing across all organizational levels – information security analysts, information security leaders, management, and staff
- Create "circles of trust" to increase sharing and collaboration
- Share and adopt best practices,
 leveraging benchmarks where appropriate
 - create wins while growing and maturing



Southern Company