



Dawn Philaya

Director, Enterprise Resilience, Enterprise Security Services, Xcel Energy



NSP-Minnesota (NSPM)

9,843 miles Gas Distribution Main
100 miles Gas Transmission
4,942 miles Electric T-Line
26,700 miles Electric D-Line

NSP-Wisconsin (NSPW)

2,300 miles Gas Distribution Main
3 miles Gas Transmission Main
2,403 miles Electric T-Line
9,747 miles Electric D-Line

Public Service Co. of Colorado (PSCo)

22,000 miles Gas Distribution Main
2,000 miles Gas Transmission
4,602 miles Electric T-Line
22,000 miles Electric D-Line

Southwestern Public Service (SPS)

*No residential gas customers
19 miles of Gas Transmission
6,389 miles Electric T-Line
15,689 miles Electric D-Line

Operate in 5 Critical Infrastructure Sectors

- Energy – Electric and Gas
- Dams
- Nuclear
- Transportation Systems
- Chemical

Xcel Energy Operates in 8 States

- 3.5 million electric customers
- 2.0 million natural gas customers
- NSPM = 1.5 million customers
- NSPW = 272,330 customers
- PSCo = 1.7 million customers
- SPS = 363,559 customers (electric only)

Enterprise Security Services

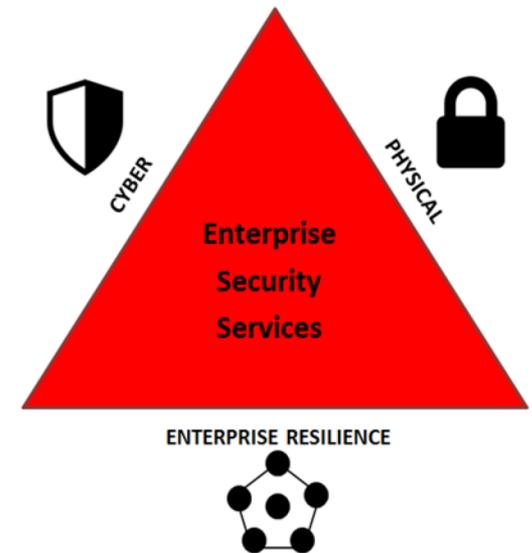


Vision

- Strive to be the industry gold standard in Enterprise Security

Mission

- To ensure the safety, security, and reliability to our company, community, and country



Cyber Security Planning & Preparedness

- Ongoing cyber security training
 - Threat intelligence – analysis and reporting
 - Cyber threat hunting
 - Incident response courses – ICS/SCADA
 - Cyber range training
 - Advanced cyber training offered by partners (DOE, DHS, FBI, etc)
- Joint exercises
 - Cyber Guard and Cyber Shield
 - NERC GridEx
 - FEMA Power Outage Workshops
- Collaboration with DHS/FBI, ISACs, state fusion centers, emergency management
- CEO participation in National Infrastructure Advisory Council (NIAC) and Electric Sub-Sector Coordinating Council (ESCC)
- Industry forums

Cyber Security Planning & Preparedness

Wisconsin Public-Private Partnership



"Department of Military Affairs and Wisconsin electrical utilities sign charter". May 2018

<https://dma.wi.gov/DMA/news/2018news/18028>

Cyber Guard 2017 MN National Guard & Xcel Energy



Cyber Incident Coordination

- Considerable coordination at the federal level with NERC, DOE, DHS
 - Public/private sector working groups
 - ESCC Playbook
 - Edison Electric Institute (EEI) National Response Event
 - NIAC Catastrophic Power Outage Study
 - Information sharing exercises – cross-sector
- State coordination and collaboration
 - Joint exercises with National Guard and Homeland Security & Emergency Management
 - Utility cyber security updates to state agencies
- Multi-state cyber incident coordination is challenging
 - Cyber reporting requirements
 - Vary by state
 - Sensitivity of cyber incident information
 - Regional grid perspective vs. state-by-state
 - Differences in state implementation of national response frameworks

Security Vendor Risk Assessment

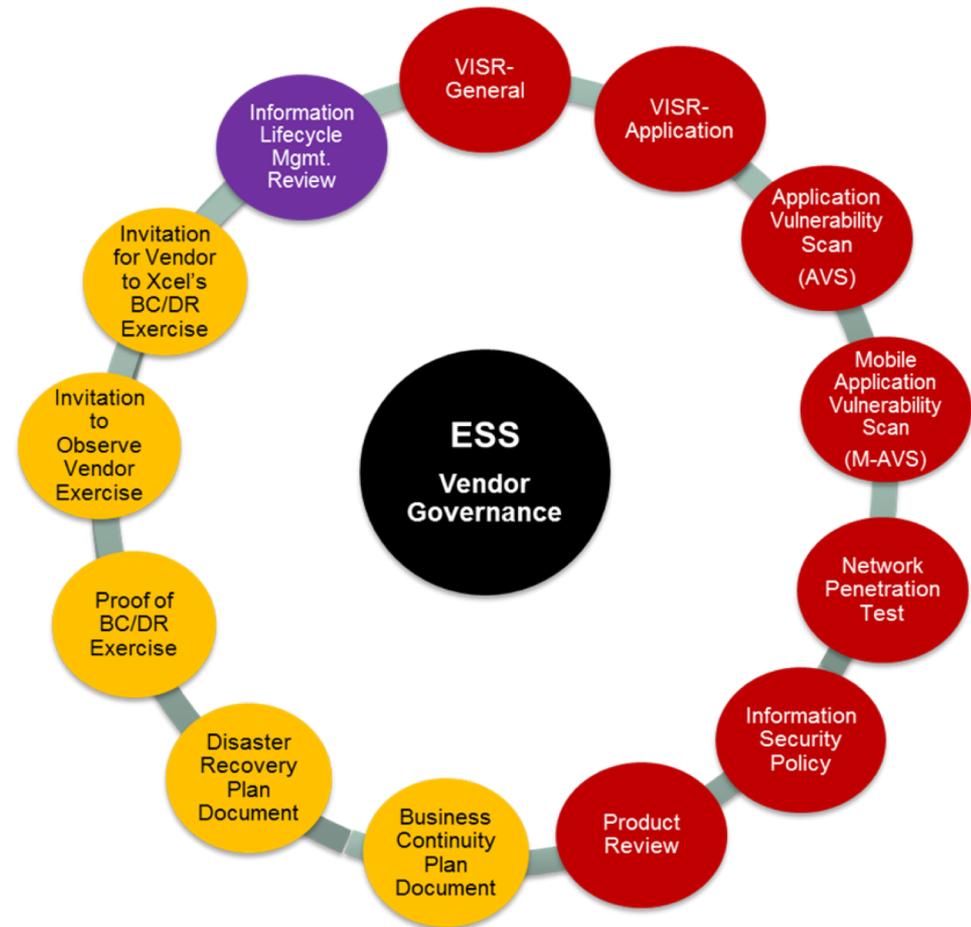
Description: The Security Vendor Risk Assessment Process is the channel through which all applicable vendors will be vetted and assessed before providing products or services to Xcel Energy, and be continually evaluated until service ceases.

Purpose: To provide transparency into any security-related risks that could potentially be introduced to Xcel Energy as a direct result of utilizing a vendor's product, service, application, etc.

This process ensures all applicable vendors providing services and products to Xcel Energy have been vetted from the following perspectives:

- **Information / Cyber Security**
- **Physical Security**
- **Enterprise Continuity**
- **Information Governance**

Compliance: Aligns with NERC CIP 13 Cyber Security - Supply Chain Risk Management.



VISR – Vendor Information Security Review
ESS – Enterprise Security Services