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Discussion Title

Energy Legislation, Cyber and Physical Security of the Grid

Discussion Summary

Protecting the nation's electric grid and ensuring a reliable supply of energy are top priorities for the power industry. The power grid is a complex, interconnected network of generation, transmission, control, and communication technologies, which can be damaged by natural events—such as hurricanes and wildfires—and by malicious events, such as cyber and physical attacks. Today, the electric power industry is implementing a series of initiatives to safeguard the electric grid from threats and is partnering with federal agencies to improve sector-wide resilience to cyber and physical threats.

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CHAPTER



Presentation Overview

- How EEI is organized around security and business continuity issues
- The electric sector and national security
 - how we talk about it; and,
 - what's happening in Washington?
- Cyber Mutual Assistance – An Electric Sector Coordinating Council initiative

About Edison Electric Institute

- EEI represents U.S. investor-owned electric companies. Our members provide electricity for 220 million Americans, operate in all 50 states and D.C. employ more than 500,000 workers.
- EEI has 70 international electric companies as International Members, and 270 industry suppliers and related organizations as Associate Members.
- Organized in 1933, EEI is a 501(c)6 non-profit, tax exempt corporation.
- “To promote the common interests of its members.” Includes trade associations, business leagues, chambers of commerce, etc.

Grid Security in Washington

- **Legislators:** shaping the debate



- S.79 - “Securing Energy Infrastructure Act” – from Sens. Angus King (I-ME) and Jim Risch (R-ID)
- Expanding background investigations of critical utility personnel
- “Active Cyber Defense Act” – Rep. Graves (R-GA) amending Computer Fraud and Abuse Act to allow a defense to prosecution for “active cyber defense”
- Sen. Reed (D-RI) bill (S.536) to require publicly traded companies to disclose to regulators whether any members of their boards of directors have cybersecurity expertise

Grid Security in Washington

- **Regulators:** a standards approach
 - NERC Development of Mandatory Supply Chain Security Standards (**Project 2016-03 Cyber Security Supply Chain Risk Management**)

Responsive to FERC order 829

- **No Quorum at FERC**

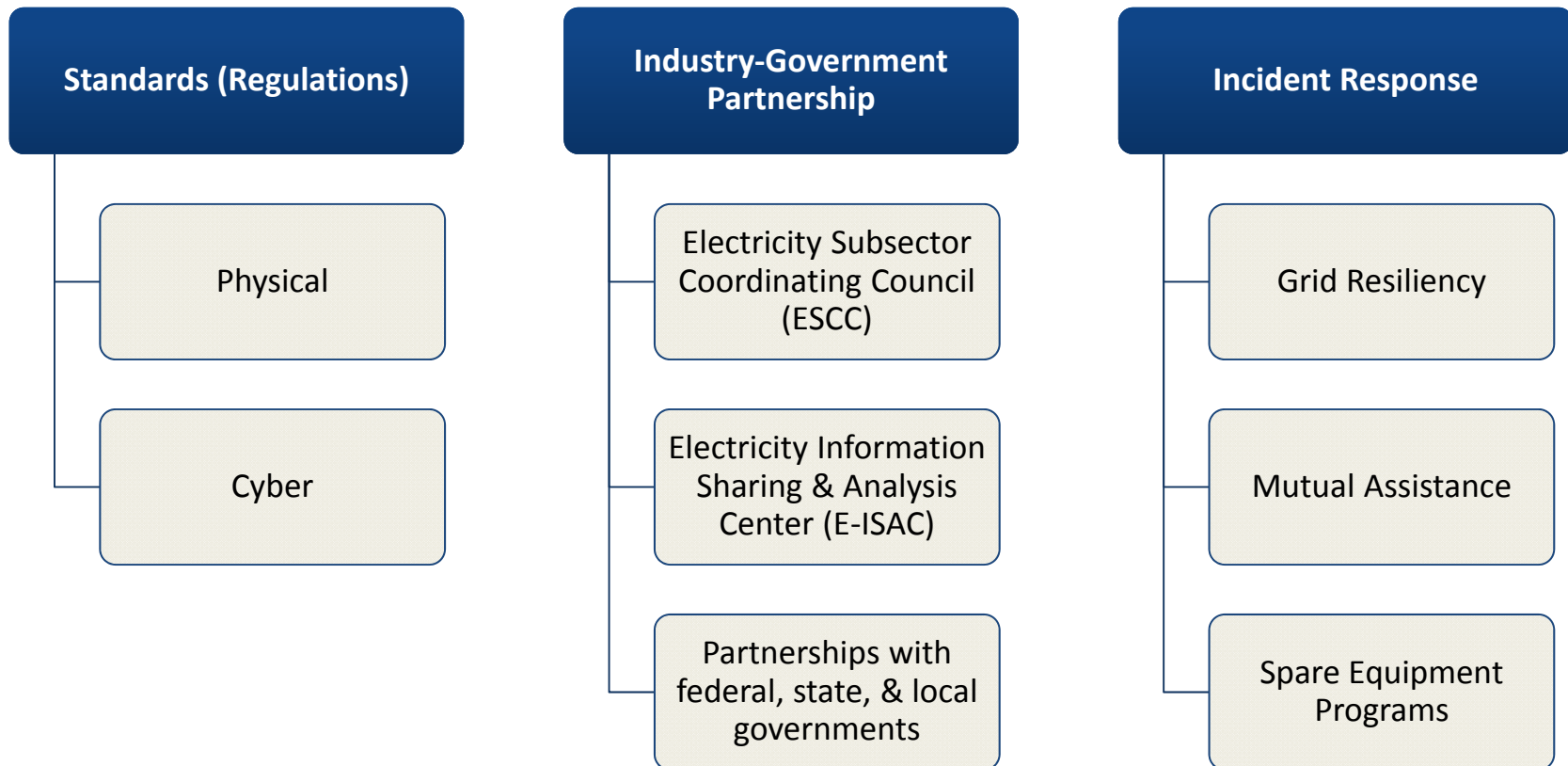


**Acting Chairman
Cheryl A. LaFleur**

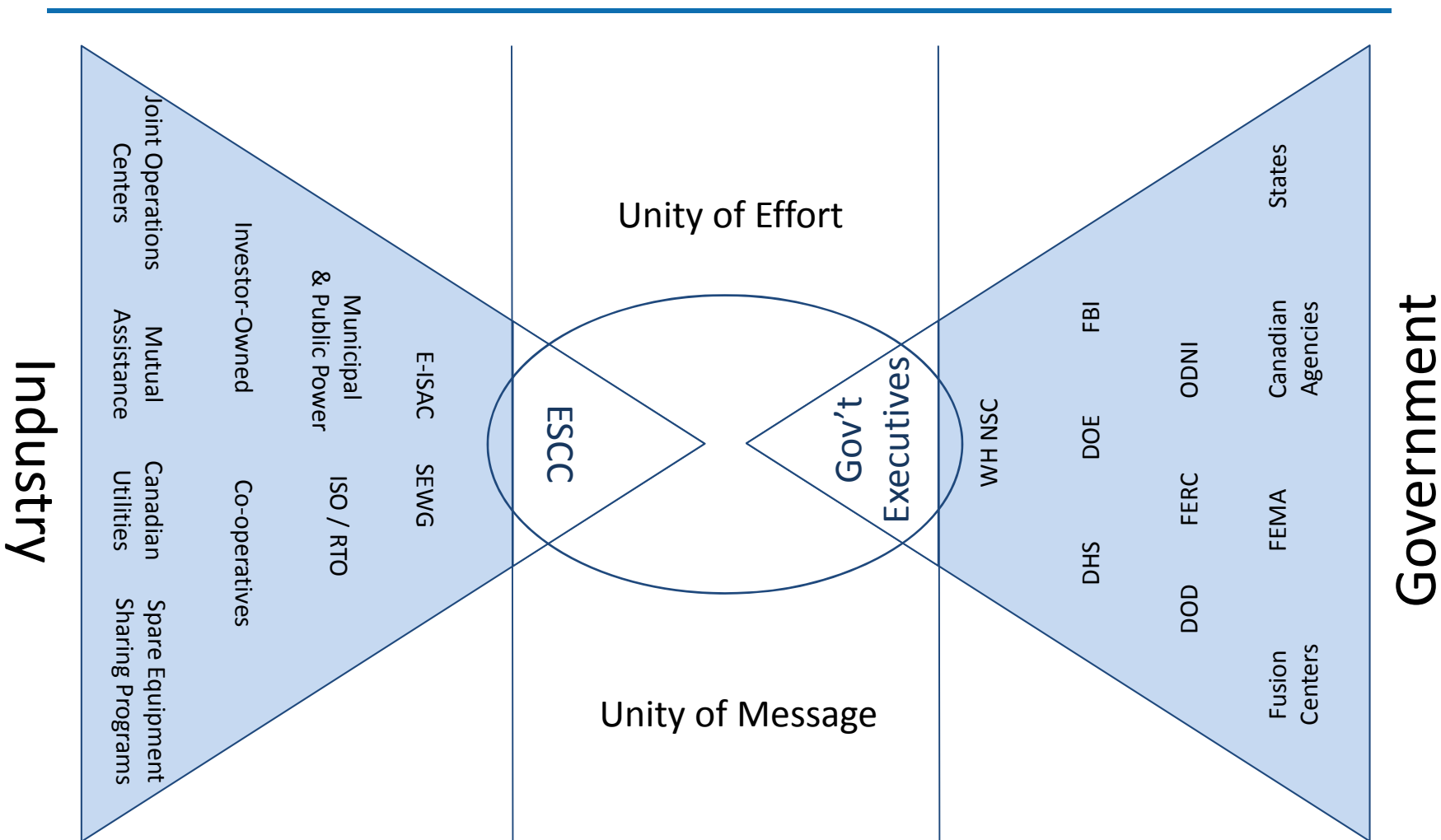


**Commissioner
Colette D. Honorable**

Approach to Grid Security



The Table



ESCC

Electricity Subsector
Coordinating Council

Purpose

The ESCC is the **principal liaison** between the electric sector and the federal government for coordinating efforts to prepare for, and respond to, national-level disasters or threats to critical infrastructure.

ESCC

Electricity Subsector
Coordinating Council

Areas of Focus

1. Tools & Technology
2. Information Sharing
3. Incident Response
4. Cross Sector Coordination

ESCC



Electricity Subsector
Coordinating Council

Initiatives



Going Forward...

- **Cyber Mutual Assistance**
- **Strategic Infrastructure Coordinating Council**
- **Supplemental Operating Strategies**



Cyber Mutual Assistance

- A New Approach – Not Just Reactive
- ESCC Initiated
- Surge Capacity
- Delivery of Essential Services
- Bucket Trucks not Included
- NDA
- Costs – Subcontracting
- Legal Protections
- Voluntary



Cyber Mutual Assistance Challenges

- No Notice
- Not Geographically Bounded
- Am I Next?
- Detailed System Implementation

Cyber Mutual Assistance Moving Forward

____ Utilities (as of _____ 2017)

- Investor Owned
- Co-ops
- Municipalities
- Canadian
- RTO/ISO

A National Security Issue

- New Mandatory standards regarding Supply Chain Security under development
- A New Administration focused on building infrastructure
- New Executive Order focused on Cyber Security in general, and the electric grid specifically

Discussion

- What is the role of the private sector with respect to protection of critical infrastructure?
- What should be done near term concerning workforce development?
- What risk mitigation measures should all of us consider with the increasing rate of always-on connectivity?

Contact

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