

## Navigating the Evolving Power Grid

**Industrial Energy Consumers of America Annual Meeting** 

Jim Robb November 18, 2025



### Hyper Complex Risk Environment Results in Increased BPS Reliability Risk



### Resource Adequacy Challenges

- Retirements of traditional generation
- IBR growth/integration
- Natural gas interdependencies
- DER performance and visibility
- Load growth



#### **Energy & Environmental Policy**

- Electrification
- Emissions
- Siting and Permitting



### **Extreme Weather Complexities**

- Extreme not infrequent
- Broader deeper longer



### **Toxic Soup Threat Landscape**

- S/W vulnerabilities
- Supply chain
- Ransomware
- Physical attacks

### Increasing concentration of risk

- Common mode failure
- Declining fuel diversity
- SAAS/Cloud applications
- GETS deployment

# Appropriate level of investment for hardening & resilience

- Extreme weather
- Coordinated Physical attack
- Interregional transfer capacity augmentation

### Loss of key "Essential Reliability Services"

- Inertia/frequency response
- Reactive Power/voltage support
- Dispatchability

### Expanding cyber attack surface

- Industry Control Systems (ICSs)
- IBRs/DERs/EV Charging/Large Loads

### Rapidly evolving security needs

- Supply chain protections
- "One to many" attacks
- Low impact protections



### **Key External Focus Areas**



#### **Oversight Modernization**

- Standards Initiation, Drafting, and Affirmation processes
- Registration expansion
- CMEP efficiencies



#### **Large Load Enablement**

- Event Analysis
- Modeling
- Operational integration
- Registration/Standards



#### **Reliability Assessments**

- Regional consistency
- Wide area energy
- Design basis/accreditation
- Reliability Services
- Large/small signal stability



#### **Gas-Electric Coordination**

- Planning
- Operational Planning
- Operations



#### "Heavy Lift" Standards

- INSM
- Supply Chain Risk Management
- IBRs
- Energy Adequacy
- Roadmap

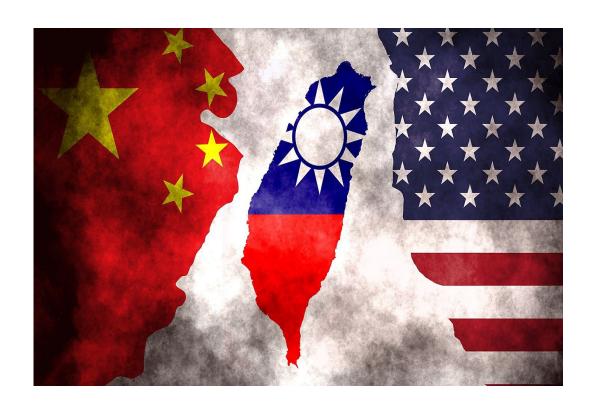


#### **Strategic Engagement**

- New players
- Policy Community (State, Provincial, Federal)







#### **Cyber and Physical Security Preparedness**

- Developing Industry Playbook for Global Conflict
  - Industry Actions and ESCC Leadership
  - Government Collaboration
  - E-ISAC Support
- Exercises Taking Action on Lessons Learned
  - GridEx VII (2023) Resilient communications
  - Grid Ex VIII (Nov 2025) Challenge our response during global conflict and identify opportunities to improve
- Advancing Member Support and Engagement
  - Driven by member feedback mechanisms
  - Improving overall stakeholder experience
  - Revamping the portal for ease of use





### **Questions and Answers**

