



Texas RE Cyber and Physical Security Workshop



August 28, 2024

AGENDA

 Welcome & Instructions

Executive Welcome

 Keynote

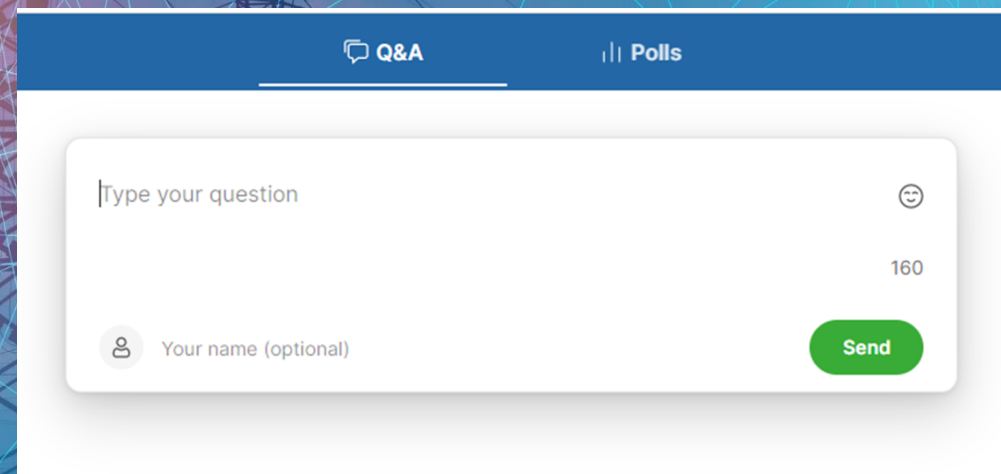
 Critical Infrastructure

 Threat Assessment

 Current & Future
Electric Grid Technologies

 Security Posture

To submit questions during the workshop, please visit **slido.com** and enter today's participant code: **TXRE**



Q&A | Polls

Type your question

160

Your name (optional)

Send

Welcome & Instructions



Thad Crow
Texas RE
Communications & Training Coordinator



Antitrust Admonition

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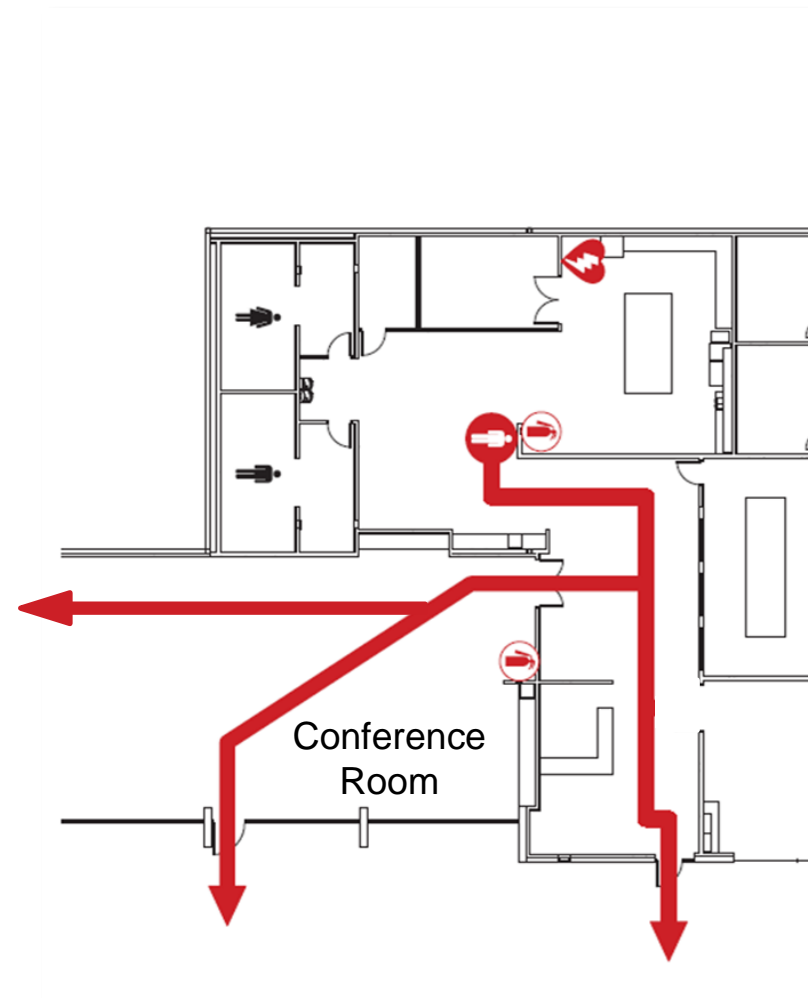
Notice of this meeting was posted on the Texas RE website and this meeting is being held in public. Participants should keep in mind that the listening audience may include members of the press, representatives from various governmental authorities, and industry stakeholders.



Safety Moment

**In case of
emergency,
evacuate through
the nearest door**

**Rally point is in
the front parking
lot**



Questions

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Training Page

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Texas RE offers training on a variety of compliance- and standards-related topics. Workshops and seminars are announced to subscribers of the Texas RE Information mailing list. To subscribe to our mailing list please visit [Texas RE Mailing Lists](#).

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Archived Presentations ▾

All of Texas RE's outreach activities are free and open to the public. Past presentations delivered by Texas RE staff are available here. Please be aware that presentations will not be available indefinitely, and may be removed to comply with Texas RE's document retention policy.

[Align Release 1 Training](#) | [Recording](#)[Align Release 2 Periodic Data Submittal Training](#) | [Recording](#)[Align Release 2 TFE and Self-Certification Training](#) | [Recording](#)[Align Release 3 Training](#) | [Recording](#)[Align Release 4 & 4.5 Training](#) | [Recording](#)

Workshops

[2021 CIP Workshop](#) | [Recording](#) | [CIP Workshop Q&A](#)[2022 Extreme Events Resiliency Workshop - Day 1 Materials](#) | [Recordings](#)[2022 Extreme Events Resiliency Workshop - Day 2 Materials](#) | [Recordings](#)[2022 Energy Industry Vendor Summit](#) | [Recording](#)[Women's Leadership in Grid Reliability and Security Conference](#) | [Recording](#)[2024 Cyber and Physical Security Workshop](#)

Upcoming Texas RE Events



October 2, 2024

Winter Weatherization
Workshop



October 16, 2024

Understanding New
Generator Obligations



November 20, 2024

Fall Standards, Security,
and Reliability Workshop



Social Media



[/texas-reliability-entity-inc](#)



[@Texas_RE_Inc](#)



[/TexasReliabilityEntity](#)



Executive Welcome



Joseph Younger
Texas RE
Vice President & Chief Operating Officer



A DIVISION OF NERC



E-ISAC

ELECTRICITY
INFORMATION SHARING AND ANALYSIS CENTER



Cyber and Physical Security Workshop

August 28, 2024

Manny Cancel - NERC SVP and CEO E-ISAC

TLP: CLEAR

RELIABILITY | RESILIENCE | SECURITY

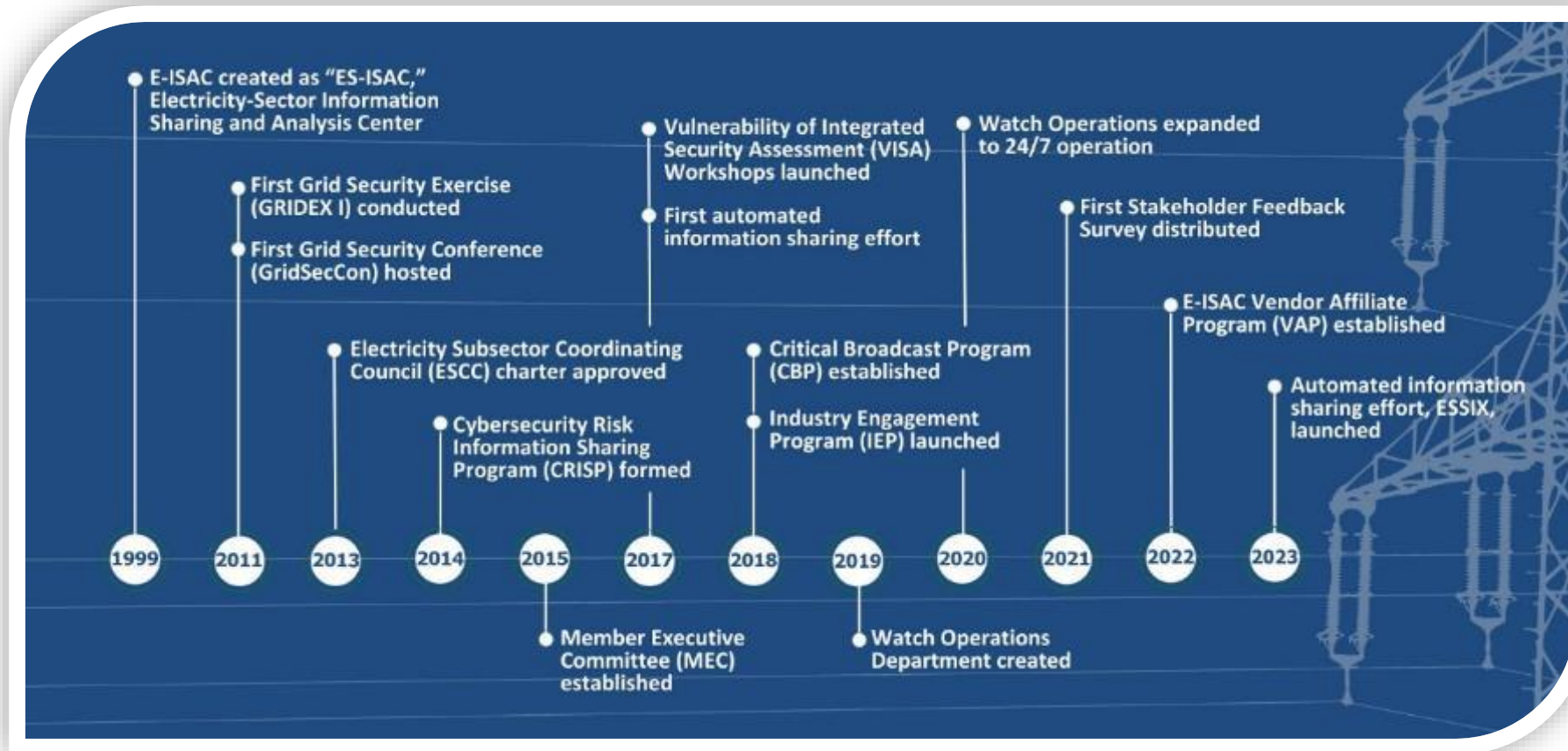


Agenda

- E-ISAC
- Significant Security Incidents
- Threat Assessment
- Critical Infrastructure
- Current and Future Grid Technologies
- Security Posture



E-ISAC Celebrates 25 Years





- ~1,800 member and partner organizations (85% of metered customers in North America)
- 100% IOUs, G&Ts, LPPCs, and Canadian Crown Corporations
 - Organizational growth up 9.2%; individual Portal users up 19.3%
 - Increased registered entity membership to 53%
 - Vendor Affiliate Program - 13 companies
 - Updated MoU with Natural Gas Sector
- 2024 Focus Areas
 - Joint Action Agencies
 - Registered Entities and IBRs
 - Vendors
 - Continued collaboration with other critical infrastructure ISACs and Tri-Sector Working Group



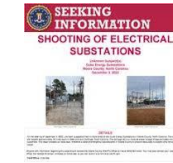
Significant Security Incidents



Significant Security Incidents



solarwinds





[Known Exploited Vulnerabilities](#)



[National Vulnerability Database](#)



Cyber Threats

- Geopolitical threats consistent and expected to increase
- Ongoing targeting and compromise of key supply chain tools
- Adversary focus on initial access and legitimate credentials
- Ransomware remains active in the sector

Physical Threats

- Grid impacting incidents remain at ~3% of total incidents
- Ballistic damage and theft most prevalent incident categories
- 55% of serious incidents demonstrate intent to sabotage
- Domestic Violent Extremists continue to advocate attacks
- Increased theft due to economic turbulence and high material prices

2024 Elections

- China, Russia, Iran all active
- DVEs looking for targets of opportunity to promote civil unrest
- Use of AI-generated misinformation campaigns
- Targeting of election workers

- All 16 Critical Infrastructure Sectors facing the same threats
- Regular collaboration, engagement, and information sharing across ISACs and through other venues
- Drills and exercises such as GridEx
- Cyber Incident Reporting for Critical Infrastructure Act (CIRCI)
- SEC 8k Disclosures



- Cloud and Virtualization
- Distributed and Renewable Resources
- Artificial Intelligence



- Information Sharing Programs
- Zero Trust Architecture
- Cyber Incident Reporting for Critical Infrastructure Act of 2022 (CIRCIA)
- SEC 8k Disclosures

A map of North America, including the United States, Canada, and Mexico. The United States is highlighted in a darker blue, while Canada and Mexico are in a lighter blue. A semi-transparent blue rectangle is overlaid on the map, containing the text "Questions and Answers".

Questions and Answers



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Return: 10:00 a.m.

AGENDA



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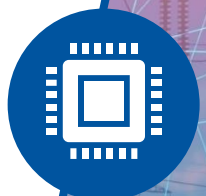
Keynote

Critical Infrastructure



Threat Assessment

Current & Future
Electric Grid Technologies



Security Posture

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Q&A

Polls

Type your question

😊

160

👤 Your name (optional)

Send

Critical Infrastructure



Mark Henry
Texas RE

Chuck Bondurant
PUCT

Clint Ladd
Texas DPS

Angela Haun
ONG-ISAC

Mark Stewart
RRC





Texas RE Cyber and Physical Security Workshop



Return: 11:10 a.m.

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Q&A Polls

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Threat Assessment



Kenath Carver
Texas RE

Joseph McClelland
FERC

Ernesto Ballesteros
CISA

Miles Beckner
FBI

Michelle England
NSA





Texas RE Cyber and Physical Security Workshop



Return: 1:10 p.m.

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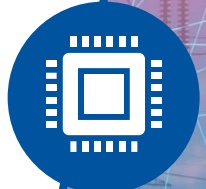
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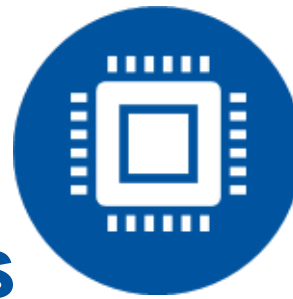
😊

160

👤 Your name (optional)

Send

Current & Future Electric Grid Technologies



Kaitlin Van Zee
Texas RE

Jose Flores
NATF

Darin Dillon
LenelS2

Kristine Martz
EEI





Texas RE Cyber and Physical Security Workshop



Return: 2:20 p.m.

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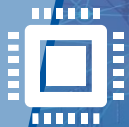
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Q&APolls

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Send

Threat Assessment



Devin Ferris
Texas RE

Sofia Weir
E-ISAC

Joshua Rowe
WECC

Lonnie Ratliff
NERC

Stephen Brown
SERC



Wrap-Up



Thank you for coming!

You will receive a short survey via e-mail. Please complete it to help Texas RE develop future outreach.

