



**DRAFT GENERAL SESSION MINUTES OF THE
TECHNOLOGY AND SECURITY COMMITTEE MEETING
OF ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.**

8000 Metropolis Drive (Building E), Suite 100, Boardroom B
Austin, Texas 78744
December 8, 2025

Pursuant to notice duly given and after determination that a quorum was present, the meeting of the Technology and Security (T&S) Committee of the Board of Directors (Board) of Electric Reliability Council of Texas, Inc. (ERCOT) convened on the above-referenced date.

Meeting Attendance:

Committee Members:

Director	Affiliation/Role (if any)	Voting Category
Swainson, John (Chair)	N/A	Voting
Capuano, Linda	N/A	Voting
England, Julie	N/A	Voting
Mohl, Bill	N/A	Voting

Other Board Members:

Director	Affiliation/Role (if any)	Voting Category
Flores, Bill	N/A	Voting
Heeg, Peggy	N/A	Voting
Krummel, Christopher	N/A	Voting
McAlister, Kathleen	N/A	Voting
Barkley, Benjamin	Office of Public Utility Counsel (OPUC), Chief Executive and Public Counsel	Voting
Gleeson, Thomas	Public Utility Commission of Texas (PUCT or Commission) Chairman	Non-Voting
Jackson, Kathleen	PUCT Commissioner	Non-Voting
Vegas, Pablo	ERCOT President and Chief Executive Officer (CEO)	Non-Voting

Officers and Guests:

Officer/Guest	Role
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Bonser, Drew	ERCOT Vice President, Chief Information Security Officer
Collins, Keith	ERCOT Vice President, Commercial Operations
Hobbs, Kristi	ERCOT Vice President, System Planning and Weatherization
Lassiter, Jason	ERCOT Director, Physical Security & Facilities
Mannepalli, Ajay	ERCOT Senior Director, IT Architecture and Strategy
Martinez, Adam	ERCOT Vice President, Enterprise Risk & Strategy
Mereness, Matt	ERCOT Director, Strategic Market Design Programs and Delivery
Parakkuth, Jayapal	ERCOT Senior Vice President and Chief Digital Officer
Rickerson, Woody	ERCOT Senior Vice President and Chief Operating Officer
Rydell, Brandt	ERCOT Deputy General Counsel
Scheel, Richard	ERCOT Senior Vice President, Chief Financial Officer, and Chief Risk Officer
Seely, Chad	ERCOT Senior Vice President, Regulatory Policy, General Counsel, Chief Compliance Officer, and Corporate Secretary
Woodfin, Dan	ERCOT Vice President, System Operations
Xie, Le	Harvard University Gordon McKay Professor of Electrical Engineering (<i>Attended via WebEx</i>)
Zhang, Qian	Harvard University Gordon McKay School of Electrical Engineering Doctoral Student

Call General Session to Order (Agenda Item 1)

John Swainson, T&S Committee Chair, determined a quorum was present and called the T&S Committee meeting to order at approximately 8:30 a.m. Chair Swainson noted there was no quorum of the PUCT present.

Chair Swainson highlighted the Antitrust Admonition and proceeded with the agenda as posted.

Notice of Public Comment, if Any (Agenda Item 2)

Chair Swainson noted that the meeting agenda, posted publicly on December 1, 2025, had included instructions for members of the public wishing to provide in-person comments. Brandt Rydell confirmed no individuals had expressed interest in providing public comment.

September 22, 2025 General Session Meeting Minutes (Agenda Item 3)

Chair Swainson entertained a motion to approve the September 22, 2025, General Session Meeting Minutes (Minutes) as presented.

Motion by Julie England, seconded by Linda Capuano, to approve the Minutes as presented. Motion passed by unanimous voice vote with no abstentions.

Guest Presentation: A Roadmap Toward Agentic Intelligence in Power Systems (Agenda Item 4)

Chair Swainson introduced guest presenters Professor Le Xie, Gordon McKay Professor of Electrical Engineering at Harvard University, who attended via WebEx, and Qian Zhang, Doctoral Student at Harvard University, who attended in-person.



Professor Xie presented an overview of emerging developments at the intersection of artificial intelligence and power systems, with a focus on agentic AI and its potential applications in grid planning, interconnection studies, and operational workflows. He discussed challenges related to large load integration, uncertainty management, and the importance of human-in-the-loop oversight, safety, and secure deployment of AI tools. Committee members asked questions regarding potential applications of AI in dispatch, probabilistic analysis, and reliability studies.

Results of Annual Committee Self-Evaluation Questionnaire (Agenda Item 5)

Chair Swainson presented the results of the 2025 Annual Committee Self-Evaluation Questionnaire. He noted that the results reflected generally satisfactory performance of the Committee. The Committee discussed the potential for updating the Committee charter to more explicitly address artificial intelligence and technology prioritization.

Committee Briefs (Agenda Item 6)

Projects and Technology Update (Agenda Item 6.1)

JP Parakkuth presented the Projects and Technology update. He reported that overall project activity during 2025 had been moderated due to prioritization of the Real-Time Co-Optimization + Batteries (RTC+B) project, while labor activity remained elevated. He discussed post-go-live stabilization efforts, defect remediation, and ongoing coordination with market participants regarding future priorities.

Real-Time Co-Optimization Implementation Update (Agenda Item 6.2)

Mr. Parakkuth presented an update on the RTC+B implementation, reporting that the system had successfully gone live and was operating stably. He reviewed project financials, noting that the project was completed significantly under the original budget estimate due to licensing, architectural, and procurement efficiencies. He also summarized lessons learned relating to scope discipline, market participant readiness, and cross-functional coordination. The Committee commended staff for the successful implementation.

Grid Transformation Update (Agenda Item 6.3)

Venkat Tirupati, ERCOT Vice President of DevOps and Grid Transformation, was unable to attend due to a family emergency. Mr. Parakkuth provided the Grid Transformation Update on his behalf, reporting on progress on multiple grid transformation initiatives, including distribution awareness and energy storage optimization efforts. He noted that certain initiatives were delayed due to contracting or partnership considerations and highlighted upcoming milestones and stakeholder engagement activities.

Future Agenda Items (Agenda Item 7)

Mr. Parakkuth discussed potential future agenda items, including external presentations on battery technology advancements, nuclear developments, and updates to ERCOT's technology roadmap. Committee members emphasized the importance of prioritization and identifying near-term operational focus areas.



Other Business (Agenda Item 8)

No other business was discussed.

Executive Session; Vote on Matters from Executive Session; Adjournment (Agenda Items 8-9)

Chair Swainson adjourned General Session at approximately 9:37 a.m. and convened Executive Session at approximately 9:44 a.m.

There were no voting items from Executive Session.

Chair Swainson adjourned the meeting upon the conclusion of Executive Session at approximately 10:45 a.m.

Committee materials and presentations from the meeting are available on ERCOT's website at <https://www.ercot.com/committees/board/tech-security>.

Brandon Gleason
Assistant Corporate Secretary