



**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
April 22, 2024

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
Aguilar, Carlos	N/A	Voting
Capuano, Linda	N/A	Voting
England, Julie	N/A	Voting
Swainson, John (Chair)	N/A	Voting

Other Board Members:

Director	Affiliation/Role (if any)	Voting Category
Vegas, Pablo	ERCOT President and Chief Executive Officer (CEO)	Non-Voting

Officers and Guests:

Officer/Guest	Role
Berlin, Anna	ERCOT Associate Corporate Counsel
Day, Betty	ERCOT Vice President of Security & Compliance and Chief Compliance Officer
Hobbs, Kristi	ERCOT Vice President of System Planning and Weatherization
Horton, Shana	ERCOT Corporate Counsel
Jackson, Kathleen	PUCT Commissioner
Levine, Jonathan	ERCOT Assistant General Counsel and Assistant Corporate Secretary
Martinez, Adam	ERCOT Vice President of Enterprise Risk and Strategy
Mereness, Matt	ERCOT Senior Director, Strategic Market Design Programs and Delivery
Parakkuth, Jayapal	ERCOT Senior Vice President and Chief Information Officer
Tirupati, Venkat	ERCOT Vice President of DevOps and Grid Transformation



Call General Session to Order (Agenda Item 1)

John Swainson, T&S Committee Chair, determined that a quorum was present and called the T&S Committee meeting to order at approximately 9:30 a.m.

Chair Swainson highlighted the Antitrust Admonition and addressed the following Agenda Items in the order below.

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

Chair Swainson announced that on the agenda for the meeting, which was posted publicly on April 15, 2024, ERCOT had provided instructions for members of the public who were interested in commenting in person and that to date no individuals had expressed interest in commenting, which Jonathan Levine confirmed.

February 26, 2024 General Session Meeting Minutes (Agenda Item 3)

Chair Swainson entertained a motion to approve the February 26, 2024 General Session Meeting Minutes (Minutes).

Julie England moved to approve the Minutes as presented. Carlos Aguilar seconded the motion. The motion passed by unanimous voice vote with no abstentions.

Committee Briefs (Agenda Item 4)

Chair Swainson invited ERCOT staff to present the Committee Briefs.

Projects and Technology Update (Agenda Item 4.1)

Jayapal Parakkuth presented the Projects and Technology Update. He highlighted achievement of a single-day site failover, down from four days, and the public debut of the ERCOT Developer Portal. Mr. Parakkuth reported on project statuses and budgets, discussed use of contract, vendor, and ERCOT employee labor, and reviewed actual and forecasted project labor hours. He previewed applications expected to be released in the coming months, including the Market Management System Operating System (MMS/OS) technology refresh improvements. Mr. Parakkuth reported that the new "ERCOT Weatherization & Inspection Portal" is expected to go live on May 1.

Mr. Parakkuth reported an incident in which ERCOT missed the Congestion Revenue Right (CRR) auction posting deadline due to the CRR auction sequence taking unusually long to execute and outlined steps ERCOT is taking to ensure such a lag does not occur in the future. Committee members and Mr. Parakkuth discussed monitoring performance going forward and the search for alternative vendors. In response to questions, Matt Mereness explained how the auctions work and the impacts of the lagging software execution.

Real-Time Co-Optimization Implementation Update (Agenda Item 4.2)

Mr. Parakkuth presented the Real-Time Co-Optimization Implementation Update. Mr. Parakkuth highlighted that the project is ahead of schedule and reviewed the major dependencies in the critical path to delivery. Finally, he outlined upcoming project deadlines and milestones. Committee members, Mr. Parakkuth, and Mr. Mereness discussed the differences between RTC implementation for ERCOT versus other Independent System Operators (ISOs) and Regional



Transmission Organizations (RTOs), and the importance of Market Participant systems being ready for go-live and what steps are being taken to mitigate the risk of Market Participant readiness issues.

ERCOT Innovation Summit Update (Agenda Item 4.3)

Venkat Tirupati presented an update on the ERCOT Innovation Summit, to be held Tuesday, May 21. Mr. Tirupati reported securing a new venue, Hilton Austin Airport, doubling the capacity to accommodate more than 400 in-person attendees, and that ERCOT had also announced a live-streaming option. He presented the agenda for the Summit and described plans for six panel discussions.

Future Agenda Items (Agenda Item 5)

Mr. Parakkuth presented the Future Agenda Items. Committee members and Mr. Parakkuth discussed future presentations on emerging grid technology topics, possibly mapped to the panel categories for the ERCOT Innovation Summit. Committee members discussed possible topics, including grid-forming Inverter-Based Resources (IBRs), high voltage transmission, artificial intelligence and machine learning (AI/ML), and the benefits of synchrophasors, as well as looking at standards under development that could be applied by ERCOT.

Other Business (Agenda Item 6)

No other business was discussed at this time.

Executive Session; Vote on Matters from Executive Session and Adjournment (Agenda Items 7 – 8)

Chair Swainson announced that no voting items from Executive Session were expected; accordingly, he would adjourn the meeting immediately upon conclusion of Executive Session. Chair Swainson adjourned General Session at approximately 10:26 a.m. and convened Executive Session at approximately 10:36 a.m.

There were no voting items from Executive Session.

Chair Swainson adjourned the meeting upon the conclusion of Executive Session at approximately 11:34 a.m.

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

A handwritten signature in blue ink, appearing to read "Jonathan M. Levine".

Jonathan M. Levine
Assistant Corporate Secretary