**APPROVED**

**Minutes of the Technical Advisory Committee (TAC) Meeting**

**ERCOT Austin – 8000 Metropolis Drive (Building E), Suite 100– Austin, Texas 78744**

**Monday, February 20, 2023 – 9:30 a.m.**

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| Attendance |  |  |
| *Members:* |  |  |
| Barnes, Bill | Reliant Energy Retail Services (Reliant) |  |
| Burkhead, Brett | Calpine Corporation (Calpine) | Alt. Rep. for Bryan Sams via Teleconference |
| Carpenter, Jeremy | Tenaska Power Services (Tenaska) |  |
| Cochran, Seth | DC Energy |  |
| Coleman, Diana  | CPS Energy | Alt. Rep. for David Kee |
| Dreyfus, Mark | City of Eastland |   |
| Fehrenbach, Nick | City of Dallas  |  |
| Franklin, Russell | Garland Power and Light (GP&L) | Via Teleconference |
| Gaytan, Jose | Denton Municipal Electric (DME) | Via Teleconference |
| Goff, Eric | Residential Consumer |  |
| Hanson, Kevin  | National Grid Renewables (NG Renewables) |  |
| Harpole, Jay | AP Gas & Electric (APG&E) | Via Teleconference |
| Haley, Ian | Luminant Generation (Luminant) |  |
| Helton, Bob | ENGIE | Via Teleconference |
| Hendrix, Chris | Demand Control 2 | Via Teleconference |
| Jolly, Emily | Lower Colorado River Authority (LCRA) |  |
| Kee, David | CPS Energy | Via Teleconference |
| Kent, Garret | CMC Steel Texas (CMC Steel) |  |
| Lange, Clif | South Texas Electric Cooperative (STEC) |  |
| Loving, Alicia | Austin Energy | Via Teleconference |
| Martin, Collin | Oncor Electric Delivery (Oncor) | Via Teleconference |
| Mercado, David | CenterPoint Energy (CNP) |  |
| Nix, Keith | Texas-New Mexico Power (TNMP) | Via Teleconference |
| Pokharel, Nabaraj | Office of Public Utility Counsel (OPUC) |  |
| Powell, Christian | Pedernales Electric Cooperative (PEC) | Via Teleconference |
| Ross, Richard | AEP Service Corporation  |  |
| Schmitt, Jennifer | Rhythm Ops | Via Teleconference |
| Smith, Caitlin | Jupiter Power |  |
| Surendran, Resmi | Shell Energy North America (SENA) |  |
| Wise, Mike | Golden Spread Electric Cooperative (GSEC) |  |

The following proxy was assigned:

* Bill Smith to Garret Kent

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| *Guests:* |  |  |
| Ainspan, Malcolm | NRG | Via Teleconference |
| Aldridge, Ryan | AB Power Advisors  | Via Teleconference |
| Allen, Thresa | Avangrid Renewables | Via Teleconference |
| Anderson, Conner | AB Power Advisors | Via Teleconference |
| Anderson, Kevin | CES | Via Teleconference |
| Ashley, Kristy | CES | Via Teleconference |
| Barati, Camron | Potomac Economics | Via Teleconference |
| Barr, Bill | LCRA | Via Teleconference |
| Bell, Brad | Solar Proponent | Via Teleconference |
| Benson, Mariah | PUCT | Via Teleconference |
| Berry, Danny | LCRA | Via Teleconference |
| Bertin, Suzanne |  | Via Teleconference |
| Bivens, Carrie | Potomac Economics |  |
| Blackburn, Don | Hunt Energy Network | Via Teleconference |
| Blakey, Eric | PEC |  |
| Bunyan, Michael | Jupiter Power | Via Teleconference |
| Campo, Curtis | City of Garland | Via Teleconference |
| Cheng, Yong | Lone Star Transmission | Via Teleconference |
| Coke, Gary | GVEC | Via Teleconference |
| Cripe, Ramsey | Schneider Engineering | Via Teleconference |
| Daigneault, Ralph | Potomac Economics | Via Teleconference |
| Detelich, David | CPS Energy | Via Teleconference |
| Dollar, Zachary | PUCT | Via Teleconference |
| Donohoo, Ken | OwlERC, LLC | Via Teleconference |
| Galliguez, Percy | BEPC | Via Teleconference |
| Green, Laura | LP&L | Via Teleconference |
| Gross, Blake | AEPSC |  |
| Hall, Matthew | Invenergy | Via Teleconference |
| Hankins, Laura | LCRA | Via Teleconference |
| Hering, David | BTU | Via Teleconference |
| Henson, Martha | Oncor |  |
| Hubbard, John  | TIEC | Via Teleconference |
| Huynh, Thuy | Potomac Economics | Via Teleconference |
| Jewell, Michael | Jewell and Associates | Via Teleconference |
| Johnson, Brian | AEPSC | Via Teleconference |
| Jones, Randy | Mountaineer Market Advisors | Via Teleconference |
| Kilroy, Taylor | TPPA | Via Teleconference |
| Kirby, Brandon | GEUS | Via Teleconference |
| Kremling, Barry | GVEC | Via Teleconference |
| Lee, Jim | CNP |  |
| Lotter, Eric | GridMonitor | Via Teleconference |
| Macaraeg. Tad | Stem | Via Teleconference |
| Martin, Loretto | NRG |  |
| Mayers, Sharon | Worley | Via Teleconference |
| McClellan, Suzi | Good Company  | Via Teleconference |
| McKeever, Debbie | Oncor | Via Teleconference |
| Morris, Sandy | WETT | Via Teleconference |
| Nash, Patrick | Satoshi Energy | Via Teleconference |
| Ok, Brendan | PUCT | Via Teleconference |
| Okenfuss, James | Savion | Via Teleconference |
| Orr, Rob | Lone Star Transmission | Via Teleconference |
| Owens, Frank | REC | Via Teleconference |
| Petäjäsoja, Ida | InBalance | Via Teleconference |
| Ramaswamy, Ramya | PUCT | Via Teleconference |
| Ratliff, Shannon | Policy Design | Via Teleconference |
| Reid, Walter | APA  | Via Teleconference |
| Rich, Katie | GSEC |  |
| Ried, David |  | Via Teleconference |
| Ritch, John | NextEra Energy | Via Teleconference |
| Sersen, Juliana | Baker Botts | Via Teleconference |
| Scott, Kathy | CNP |  |
| Shaw, Pam | Principle Staff | Via Teleconference |
| Showalter, Dana | Plus Power |  |
| Siddiqi, Shams | Crescent Power Consulting | Via Teleconference |
| Sim, Chris | LP&L | Via Teleconference |
| Smith, Chase | Southern Power | Via Teleconference |
| Smith, Danny | LP&L | Via Teleconference |
| Smith, Mark | Nucor |  |
| Stephenson, Zach | TEC |  |
| True, Roy | ACES  | Via Teleconference |
| Turner, Lucas | STEC | Via Teleconference |
| Varnell, John | Tenaska | Via Teleconference |
| Velasquez, Ivan | Oncor | Via Teleconference |
| Wallenstrom, Alia | Satoshi Energy | Via Teleconference |
| Walker, Floyd | PUCT | Via Teleconference |
| Wall, Perrin | CNP | Via Teleconference |
| White, Lauri | AEP | Via Teleconference |
| Wittmeyer, Bob | Longhorn Power |  |
| Wood, Jamie | LP&L | Via Teleconference |
| Xie, Fei | Austin Energy | Via Teleconference |
| Zang, Hailing | TC Energy | Via Teleconference |
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| *ERCOT Staff:* |  |  |
| Albracht, Brittney |  |  |
| Anderson, Troy |  |  |
| Ayson, Janice |  | Via Teleconference |
| Boren, Ann |  |  |
| Chu, Zhengguo |  |  |
| Clifton, Suzy |  |  |
| Dashnyam, Sanchir |  | Via Teleconference |
| Day, Betty |  | Via Teleconference |
| Du, Pengwei |  | Via Teleconference |
| Dwyer, Davida |  | Via Teleconference |
| Fernandes, Jenifer |  | Via Teleconference |
| Fohn, Doug |  | Via Teleconference |
| Frosch, Colleen |  | Via Teleconference |
| Gnanam, Prabhu |  | Via Teleconference |
| Gonzalez, Ino |  | Via Teleconference |
| Hahne, Cynthia |  | Via Teleconference |
| Huang, Fred |  | Via Teleconference |
| King, Ryan |  |  |
| Khodabakhsh, Fred |  | Khodabakhsh |
| Lee, Alex |  | Via Teleconference |
| Maggio, Dave |  | Via Teleconference |
| Magarinos, Marcelo |  | Via Teleconference |
| Mago, Nitika |  | Via Teleconference |
| Mantena, Dan |  | Khodabakhsh |
| Matlock, Robert |  | Via Teleconference |
| Mereness, Matt |  |  |
| Michelsen, Dave |  | Via Teleconference |
| Miller, Megan |  | Via Teleconference |
| Ögelman, Kenan |  |  |
| Orlandini, Phil |  | Via Teleconference |
| Parakkuth, Jayapal |  | Via Teleconference |
| Patterson, Mark |  | Via Teleconference |
| Pedigo, Jake |  | Via Teleconference |
| Phillips, Cory |  |  |
| Roberts, Randy |  | Via Teleconference |
| Sanchez, Daniel |  | Via Teleconference |
| Scheel, Richard |  | Via Teleconference |
| Shanks, Magie |  | Via Teleconference |
| Thomas, Shane |  | Via Teleconference |
| Tirupati, Venkat |  | Via Teleconference |
| Troublefield, Jordan |  |  |
| Wasik-Gutierrez, Erin |  |  |

*Unless otherwise indicated, all Market Segments participated in the votes.*

Clif Lange called the February 20, 2023 meeting to order at 9:30 a.m.

Antitrust Admonition

Mr. Lange directed attention to the displayed Antitrust Admonition and noted that the Antitrust Guidelines are available for review on the ERCOT website.

Approval of TAC Meeting Minutes (see Key Documents)

*January 24, 2023*

Mr. Lange noted this item could be considered in the [Combined Ballot](#Combined_Ballot_2).

Meetings Update

*January 26, 2023 Public Utility Commission of Texas (PUCT) Open Meeting*

*February 16, 2023 PUCT Meeting*

Mr. Lange reviewed the disposition of Revision Requests considered at the January 26, 2023 PUCT Open Meeting and presented highlights of the February 16, 2023 PUCT Meeting.

2023 TAC Goals and Strategic Initiatives (see Key Documents)

Market Participants offered clarifications to the draft 2023 TAC Goals, discussed the utility of the strategic initiatives, and expressed a desire to eliminate the duplication of items. Mr. Lange noted the 2023 TAC Goals could be considered in the [Combined Ballot](#Combined_Ballot_2).

Review of ERCOT Market Impact Statements/Opinions and Independent Market Monitor (IMM) Opinion (see Key Documents)

Ann Boren presented the ERCOT Market Impact Statements and ERCOT Opinions for Revision Requests to be considered by TAC, and noted the Independent Market Monitor (IMM) opinions.

Protocol Revision Subcommittee (PRS) (see Key Documents)

Martha Henson reviewed PRS activities and presented Revision Requests for TAC consideration.

*Nodal Protocol Revision Request (NPRR) 1157, Incorporation of PUCT Approval into Revision Request Process*

ERCOT Staff requested NPRR1157 be tabled to await the related Guide Revision Requests. Mr. Lange noted this item could be considered in the [Combined Ballot](#Combined_Ballot_2).

*NPRR1158, Remove Sunset Date for Weatherization Inspection Fees*

*NPRR1159, Related to RMGRR171, Changes to Transition Process that Require Opt-in MOU or EC that are Designating POLR to provide Mass Transition Methodology to ERCOT*

Mr. Lange noted these items could be considered in the [Combined Ballot](#Combined_Ballot_2).

Retail Market Subcommittee (RMS) Report (See Key Documents)

Debbie McKeever reviewed RMS activities and presented RMGRR171 for TAC consideration.

*Retail Market Guide Revision Request (RMGRR) 171, Changes to Transition Process that Require Opt-in MOU and EC that are Designating POLR to provide Mass Transition Methodology to ERCOT*

Mr. Lange noted this item could be considered in the [Combined Ballot](#Combined_Ballot_2).

*RMS Goals*

Ms. McKeever presented the 2023 RMS Goals for TAC consideration. Market Participants offered clarifications to the 2023 RMS Goals. Mr. Lange noted this item could be considered in the [Combined Ballot](#Combined_Ballot_2).

Reliability and Operations Subcommittee (ROS) Report (see Key Documents)

Katie Rich presented the ROS report.

Wholesale Market Subcommittee (WMS) Report (see Key Documents)

Eric Blakey presented the WMS report.

Market Credit Working Group (MCWG) Report (see Key Documents)

*Formation of New Credit Working Group and Charter*

Loretto Martin presented the MCWG report. Ms. Boren requested TAC consider the formation of the Credit and Finance Sub Group as an elevated working group with the voting structure of the Credit Work Group (Credit WG). Mr. Lange directed MCWG to present the sub group charter for consideration at the March 21, 2023 TAC meeting.

ERCOT Reports (see Key Documents)

*Forecast Adequacy of the Budgeted System Administration Fee*

Richard Scheel stated that the current System Administration Fee is expected to increase for 2024 and noted that the forecast would be presented at the February 27, 2023 Finance and Audit Committee meeting.

*ERCOT Contingency Reserve Service (ECRS) Market Readiness*

Matt Mereness presented an update on the ECRS project, reviewed highlights of the qualification approach ERCOT is considering, and noted that ERCOT anticipates hosting an ECRS workshop in April 2023.

*Real-Time Cooptimization (RTC) Update*

Mr. Mereness provided an update on the status of the RTC project.

*Firm Fuel Supply Service (FFSS) Post-Deployment Report for January/February 2023*

Ryan King presented information regarding the deployment of FFSS during the January 31, 2023 through February 2, 2023 cold weather event. Mr. King stated that ERCOT would provide an additional report summarizing lessons learned. Kenan Ögelman summarized the processes for deploying FFSS and restocking instructions.

Other Business

*Update on PUCT Request for Bridge Solutions*

Mr. Ögelman stated that in response to the PUCT request for the ERCOT Board to make a recommendation for Phase 2 Market Redesign bridge solutions, ERCOT would present initial concepts at the February 27, 2023 Reliability and Markets Committee meeting, schedule stakeholder workshops to solicit feedback and critique concepts, and present a recommendation for consideration at the April 18, 2023 Board of Directors Meeting.

Combined Ballot

**Kevin Hanson moved to approve the Combined Ballot as follows:**

* **To approve January 24th Meeting Minutes as presented**
* **To approve the 2023 TAC Goals as revised by TAC**
* **To table NPRR1157**
* **To recommend approval of NPRR1158 as recommended by PRS in the 2/9/23 PRS Report**
* **To recommend approval of NPRR1159 as recommended by PRS in the 2/9/23 PRS Report**
* **To recommend approval of RMGRR171 as recommended by RMS in the 2/7/23 RMS Report**
* **To approve the 2023 RMS Goals as revised by TAC**

**Mike Wise seconded the motion. The motion carried unanimously.** *(Please see ballot posted with Key Documents.)*

Mr. Lange adjourned the February 20, 2023 TAC meeting at 11:49 a.m.