**APPROVED**

**Minutes of the Wholesale Market Subcommittee (WMS) Meeting**

**Webex Only**

**Wednesday, August 4, 2021– 9:30 a.m.**

Attendance

*Members:*

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Barnes, Bill | Reliant Energy Retail Services |  |
| Bierschbach, Erika | Austin Energy |  |
| Burke, Tom | Invenergy |  |
| Carpenter, Jeremy | Tenaska Power Services |  |
| Claiborn-Pinto, Shawnee | OPUC |  |
| Cochran, Seth | DC Energy |  |
| Coleman, Diana | CPS Energy | Alt. Rep. for David Detelich |
| Downey, Marty | Jupiter Power |  |
| Evans, Mike | Brazos Electric Cooperative |  |
| Farhangi, Anoush | Demand Control 2 |  |
| Franklin, Russell | Garland Power & Light |  |
| Greer, Clayton | Morgan Stanley |  |
| Gross, Blake | AEP Service Corporation |  |
| Haley, Ian | Luminant Generation |  |
| Johnson, Anthony | CenterPoint Energy |  |
| Lange, Clif | South Texas Electric Cooperative |  |
| Lindberg, Ken | Bryan Texas Utilities |  |
| Mauldin, Jamie | City of Eastland |  |
| Nguyen, Andy | Lower Colorado River Authority | Alt. Rep. for John Dumas |
| Roberts, Bobby | TNMP |  |
| Sandidge, Clint | Calpine Energy Solutions |  |
| Simpson, Lori | Exelon |  |
| Surendran, Resmi | Shell Energy |  |
| Velasquez, Ivan | Oncor |  |
| Wilson, Joe Dan | Golden Spread Electric Cooperative |  |

*Guests:*

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|  |  |  |
| Ainspan, Malcolm | NRG |  |
| Aldridge, Ryan | AB Power Advisors |  |
| Alford, Anthony | CenterPoint Energy |  |
| Anderson, Kevin | Customized Energy Solutions |  |
| Ashley, Kristy | Customized Energy Solutions |  |
| Benson, Mariah | PUCT |  |
| Berger, Joel | Customized Energy Solutions |  |
| Bivens, Carrie | Potomac Economics |  |
| Blackburn, Don | Hunt Energy Network Power |  |
| Blakey, Eric | Just Energy |  |
| Boisseau, Heather | LCRA |  |
| Brandin, Samuel | Able Grid Energy |  |
| Bruce, Mark | Cratylus Advisors |  |
| Bunyan, Michael | Jupiter Power |  |
| Chamberlin, Jennifer | Power Energy Management |  |
| Chhajed, Pushkar | LCRA |  |
| Daigneault, Ralph | Potomac Economics |  |
| DiCosimo, Vincent | Targa Resources |  |
| Donohoo, Kenneth | EPE |  |
| Dreyfus, Mark | MD Energy Consulting |  |
| Foreman, Mark | Tenaska Power Services |  |
| Gaytan, Jose | DME |  |
| Graham, Sophie | Adapt 2 Solutions |  |
| Hanson, Kevin | National Grid |  |
| Helton, Bob | Engie North America |  |
| Hendrix, Chris | Demand Control 2 |  |
| Henson, Martha | Oncor |  |
| Horstmyer, Reid | Dynasty Power |  |
| Huynh, Thuy | Potomac Economics |  |
| Jewell, Michael | Jewell and Associates |  |
| Jolly, Emily | LCRA |  |
| Jones, Liz | Oncor |  |
| Jones, Randy | Mountaineer Market Advisors |  |
| Kee, David | CPS Energy |  |
| Khayat, Maribel | CenterPoint Energy |  |
| Kilroy, Taylor | TPPA |  |
| King, Robert | Good Company Associates |  |
| Krajecki, Jim | Customized Energy Solutions |  |
| Kroskey, Tony | Brazos Electric Cooperative |  |
| Leahy, Patrick | Just Energy |  |
| Lee, Jim | AEP |  |
| Lemaire, Anthony | Tenaska Power Services |  |
| Lewis, Coleman | PXD |  |
| Lotter, Eric | GridMonitor |  |
| McCamant, Frank | McCamant Consulting |  |
| McClellan, Suzie | Good Company Associates |  |
| Mendoza, Albert | Occidental |  |
| Miller, Alexandra | EDF |  |
| Pokharel, Nabaraj | PUCT |  |
| Powell, Christian | Pedernales Electric Cooperative |  |
| Pyka, Greg | Schneider Engineering |  |
| Rainwater, Kim | Lower Colorado River Authority |  |
| Reader, Raborn | Enterprise Productions |  |
| Reeder, Chris | Husch Blackwell |  |
| Reedy, Steve | CIM View Consulting |  |
| Reid, Walter | Advanced Power Alliance |  |
| Rich, Katie | Golden Spread Electric Cooperative |  |
| Ritch, John | Gexa Energy |  |
| Robles, Rachelle | PUCT |  |
| Schumate, Walt |  |  |
| Schwarz, Brad | Sharyland |  |
| Siddiqi, Shams | Crescent Power Consulting |  |
| Singh Rastogi, Rama | PUCT |  |
| Sithuraj, Murali | Austin Energy |  |
| Slaughter, Jeff | Just Energy |  |
| Smith, Caitlin | AB Power Advisors |  |
| Smith, Chase | Southern Power Company |  |
| Townsend, Aaron | Potomac Economics |  |
| True, Roy | ACES Power |  |
| Turner, Lucas | South Texas Electric Cooperative |  |
| Varnell, John | Tenaska Power Services |  |
| Villasana, Kristi | NBU |  |
| Walke, Pranil | Calpine |  |
| Wallin, Shane | DME |  |
| Williams, Wes | BTU |  |
| Winegar, Paige | New Braunfels Utilities |  |
| Wittmeyer, Bob | Longhorn Power |  |
| Zahn, Skip | NRG |  |
| Zhou, Emily | Potomac Economics |  |

*ERCOT Staff:*

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| --- | --- | --- |
|  |  |  |
| Albracht, Brittney |  |  |
| Barati, Camron |  |  |
| Bernecker, John |  |  |
| Bracy, Phil |  |  |
| Chen, Jian |  |  |
| Chen, Yong |  |  |
| Chu, Zhengguo |  |  |
| Clifton, Suzy |  |  |
| Comstock, Read |  |  |
| Covington, Austin |  |  |
| Devadhas Mohanadhas, Thinesh |  |  |
| Dinopol, Ohlen |  |  |
| Du, Pengwei |  |  |
| Ganjoo, Shalesh |  |  |
| Garcia, Freddy |  |  |
| Gonzalez, Ino |  |  |
| Hartmann, Jimmy |  |  |
| Holt, Blake |  |  |
| Huang, Fred |  |  |
| Jin, Julie |  |  |
| Jones, Dan |  |  |
| Kane, Erika |  |  |
| Khodabakhsh, Fred |  |  |
| Lasher, Warren |  |  |
| Lee, Alex |  |  |
| Maggio, David |  |  |
| Mago, Nitika |  |  |
| Mantena, Dan |  |  |
| Martinez, Adriana |  |  |
| Martinez, Bryan |  |  |
| Mereness, Matt |  |  |
| Moreno, Alfredo |  |  |
| Moreno, Alfredo |  |  |
| Patterson, Mark |  |  |
| Phillips, Cory |  |  |
| Prichard, Lloyd |  |  |
| Roberts, Randy |  |  |
| Rosel, Austin |  |  |
| Ruane, Mark |  |  |
| Sanchez, Daniel |  |  |
| Shanks, Magie |  |  |
| Sharma, Sandip |  |  |
| Shaw, Pamela |  |  |
| Singh, Vijay |  |  |
| Spells, Vanessa |  |  |
| Stice, Clayton |  |  |
| Thompson, Chad |  |  |
| Troublefield, Jordan |  |  |
| Tucker, Don |  |  |
| Warnken, Pete |  |  |
| Woodfin, Dan |  |  |
| Xiao, Hong |  |  |
| Zhang, Wen |  |  |

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

Antitrust Admonition

Resmi Surendran directed attention to the Antitrust Admonition, which was displayed.

Agenda Review

There were no changes to the agenda.

Approval of WMS Meeting Minutes (see Key Documents)[[1]](#footnote-1)

*July 7, 2021*

Market Participants reviewed the July 7, 2021 WMS meeting minutes. Ms. Surendran noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

Technical Advisory Committee (TAC) Update (see Key Documents)

*July 28, 2021*

Ms. Surendran reviewed the disposition of items considered at the July 28, 2021 TAC meeting, including clarifications to the Emergency Conditions List, stated that the Annual TAC/TAC Subcommittee Structural and Procedural Review will be scheduled for mid-September 2021, and encouraged working group leadership to consider meeting efficiencies, including potential scope changes for Distributed Generation (DG) and Distribution Energy Storage Resources (DESRs) issues. Ms. Surendran summarized TAC discussion on the ERCOT Roadmap presented by Brad Jones, specifically item #36, Ensure the Technical Advisory Committee is comprised of senior-level members from each member organization to promote timely decision-making, and stated that TAC Leadership is hosting an August 18, 2021 ERCOT Roadmap Item #36 Workshop. Ms. Surendran noted that the ERCOT Market Rules Staff reviewed motions, requested that going forward caveats to motions for approval or rejection of Revision Requests be avoided, and reminded Market Participants that Subcommittee leadership can assign issues for review to its working groups or task forces. Ms. Surendran stated that ERCOT Staff announced in-person Stakeholder meetings are anticipated to resume September 1, 2021, individuals at all ERCOT facilities are required to wear a mask, and TAC Leadership has requested a hybrid meeting approach for TAC and TAC Subcommittees meetings.

New Protocol Revision Subcommittee (PRS) Referrals (see Key Documents)

*Nodal Protocol Revision Request (NPRR) 1082, Emergency Response Service (ERS) Test Exception for Co-located ERS Loads*

Jennifer Chamberlin summarized NPRR1082. Christian Powell summarized NPRR1082 discussion at the July 30, 2021 Demand Side Working Group (DSWG) meeting. Market Participants offered edits to NPRR1082.

**Ms. Surendran moved to endorse NPRR1082 as revised by WMS. Shawnee Claiborn-Pinto seconded the motion. The motion carried via roll call vote with one objection from the Independent Power Marketer (IPM) (Morgan Stanley) Market Segment, and seven abstentions from the Cooperative (STEC), Independent Generator (Luminant), IPM (DC Energy), Independent Retail Electric Provider (IREP) (Demand Control 2), and Investor Owned Utility (IOU) (3) (AEPSC, CenterPoint Energy, TNMP) Market Segments**. *(Please see ballot posted with Key Documents.)*

*NPRR1084, Improvements to Reporting of Resource Outages and Derates*

Dan Woodfin summarized NPRR1084 and stated that ERCOT is also developing a System Change Request (SCR) for Stakeholder consideration. Market Participants discussed NPRR1084 and expressed concern for compliance issues and response time requirements and requested review of the issues by the Wholesale Market Working Group (WMWG). Ms. Surendran noted this item could be considered for inclusion in the [Combined Ballot.](#Combined_Ballot)

DSWG (see Key Documents)

Mr. Powell received DSWG activities, including the Emergency Conditions list items.

WMWG (see Key Documents)

Murali Sithuraj reviewed WMWG activities, including the Emergency Conditions list items and list of potential issues and impacts of ERCOT changes to grid operations and Non-Spinning Reserve (Non-Spin) procurement and deployments. Market Participants discussed the Reliability Unit Commitment (RUC) offer floor in consideration of the additional reserves ERCOT is procuring and requested that the WMWG review the ERCOT procurement process and pricing mechanisms.

Revision Requests Tabled at Protocol Revision Subcommittee (PRS), Referred to WMS (see Key Documents)

*NPRR981, Day-Ahead Market Price Correction Process (WMWG)*

*NPRR1058, Resource Offer Modernization for Real-Time Co-Optimization*

*NPRR1067, Market Entry Qualifications, Continued Participation Requirements, and Credit Risk Assessment*

*NPRR1070, Planning Criteria for GTC Exit Solutions*

*NPRR1077, Extension of Self-Limiting Facility Concept to Settlement Only Generators (SOGs) and Telemetry Requirements for SOGs*

WMS took no action on these items.

Market Credit Working Group (see Key Documents)

Seth Cochran reviewed MCWG activities, including default allocation issues.

Congestion Management Working Group (CMWG) (see Key Documents)

Katie Rich reviewed CMWG activities, including updates to the Emergency Conditions list items.

*Other Binding Document Revision Request (OBDRR) 026, Change Shadow Price Caps to Curves and Remove Shift Factor Threshold*

Ms. Rich summarized OBDRR026 discussion at the July 19, 2021 CMWG meeting and stated that CMWG did not reach consensus on the issues. Market Participants discussed OBDRR026 and the 7/16/21 Joint Commenters comments, debated the appropriate slope for the transmission demand curve, and requested ERCOT provide analysis at 105% and quantify the monetary impact, and that CMWG continue to review the issues.

*Nodal Operating Guide Revision Request (NOGRR) 215, Limit Use of Remedial Action Schemes*

WMS took no action on this item.

Revision Requests Tabled at WMS (see Key Documents)

*Verifiable Cost Manual Revision Request (VCMRR) 031, Clarification Related to Variable Costs in Fuel Adders*

WMS took no action on this item.

Combined Ballot

**Jeremy Carpenter moved to approve the Combined Ballot as follows:**

* **To approve the July 7, 2021 WMS Meeting Minutes as submitted**
* **To request PRS continue to table NPRR1084 for further review by WMWG**

**Ian Haley seconded the motion. The motion carried unanimously via roll call vote.** *(Please see ballot posted with Key Documents.)*

ERCOT Operations and Market Items (see Key Documents)

*Renewable Energy Credit (REC) Project Update*

Don Tucker summarized results of the recent REC project market-facing I-test, reminded Market Participants the go-live date is August 19, 2021, and encouraged Market Participants to change the account administrator or add new users into the production system after go-live.

*2021 Q2 Settlement Stability Report*

Austin Covington presented the 2nd Quarter 2021 Settlement Stability Report.

*2021 Q2 Unregistered Distributed Generation (DG) Report*

Dan Mantena presented the 2nd Quarter 2021 Unregistered DG Report.

Other Business

*Review Open Action Items*

Market Participants reviewed the Open Action Items.

*No Report*

* Market Settlement Working Group (MSWG)
* Metering Working Group (MWG)
* Resource Cost Working Group (RCWG)
* Supply Analysis Working Group (SAWG)

Adjournment

Ms. Surendran adjourned the August 4, 2021 WMS meeting at 12:34 p.m.

1. Key Documents referenced in these minutes may be accessed on the ERCOT website at:

   http://www.ercot.com/calendar/2021/8/4/213961-WMS [↑](#footnote-ref-1)