**AGENDA**

**ERCOT Wholesale Market Working Group Meeting**

ERCOT Austin Office / 7620 Metro Center Drive / Austin, Texas 78744

September 16, 2019 / 9:30 – 3:30

<http://ercot.webex.com>

Meeting Number:

Meeting Password:

Audio Dial-In:

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| --- | --- | --- | --- |
| 1. | Antitrust Admonition | D. Detelich | 9:30 a.m. |
| 2. | Energy Storage Issues   * NPRR967 Allow Limited Duration Resource Energy Offer Curve Updates Near Real-Time and Remove the 10 MW Limit * RUC * Mitigation process overview and how it applies to Storage * SCED dispatch of storage CLRs * NPRR963 Creation of Generation and Controllable Load Resource Group (GCLR Group) | D. Detelich  W. Lasher  I. Gonzalez  P. Wattles |  |
| 3. | Monthly Review   * Board Market Operations Material * SASM/Manual Override Activity * Intra-Hour Wind Forecast Accuracy | ERCOT |  |
| 4 | Review of 2020 Ancillary Service Methodology | S. Sharma |  |
| 5. | Review potential Ancillary Services and telemetry errors that impact ERCOT systems, including coding issues and develop metrics to mitigate risks   * Examination of ERCOT telemetry validation rules | S. Sharma  N. Mago |  |
| 6. | NPRR947 Clarification to Ancillary Service Supply Responsibility Definition and Improvements to Determining and Charging for Ancillary Service Failed Quantities | A. Townsend |  |
| 7. | Draft NPRR on Mitigated Offer for RUC Resources | A. Townsend  R. Surendan |  |
| 8. | Other business | D. Detelich |  |
|  | Adjourn | D. Detelich | 3:30 p.m. |
|  | Future Meetings - October 21, 2019 |  |  |

| Open Action Items | Responsible | | Notes | Assigned |
| --- | --- | --- | --- | --- |
| Concept for Nodal Pricing for Non-Modeled Generators and Registered Distributed Generation (DG) – Done | DSWG/  WMWG | NPRR917 moving through stakeholder process | | 04/03/2019  05/02/2018 |
| Review NPRR850 and the restart mechanics and pricing impacts – Ongoing – Need action items | MSWG/  WMWG |  | | 02/06/2019 |
| Switchable Generation Resource Demand Side Working Group (DSWG) Whitepaper - include notification requirements of Resources switchable to other Control Areas - Done | WMWG /  RCWG | On Hold - for ERCOT to work with other ISOs | | 07/06/2016 |
| Constraint Definitions – Update? | WMWG /  NDSWG | Sham's question about contingencies where resource nodes are isolated due to the contingency definition and/or combination of prior outage and contingency. Should be discussed at NDSWG | | 07/12/2017 |
| Review concept of establishing a minimum threshold to post Total Wholesale Storage Load (WSL), utilization of Real-Time telemetry, and Resource disclosures – Update? | WMWG | Following implementing grey-boxed language to post WSL to MIS (NPRR461) | | 02/28/2018 |
| Deep Dive of potential issues in the Low System-Wide Offer Cap (LCAP) Methodology if cumulative Peaker Net Margin (PNM) exceeds $315,000/Megawatts (MW) year and there are insufficient Ancillary Service offers in the Day-Ahead Market (DAM) – Update? | WMWG |  | | 05/02/2018 |
| TAC Assignment: Review the commercial impacts of DC Tie Curtailments - Ongoing | WMWG | 05/24/18 TAC moved from ROS to WMS to review, under NPRR818 | | 06/06/2018 |
| RUC mitigation methodology in NPRR826  NPRR838, Updated O&M Cost for RMR Resources – Ongoing? | WMWG / RCWG | | 05/01/2019 – IMM concerns with incentives in treating RMR/RUC Resources the same, and WMWG update – NPRR838 not needed if NPRR826 passes, continue to hold, once NPRR826 finalized, RCWG can take up the issues.  Update on 04/03/2019 WMS – NPRR826/NPRR 838 progress forward need to review issues at next WMWG –  If gravitating to a low number on NPRR838, relook at NPRR826 and confirm better solution | 05/01/2019  04/03/2019  07/11/2018 |
| Market Issues related to compensation for Reliability Unit Commitment (RUC) Switchable Generation Resources - – Ongoing for switching for congestion? | WMWG | Identify all the potential areas for compensation for RUC SWGR, try to identify potential uplift and frame up voting issues | | 08/08/18 |
| Review price formation impacts from ERCOT out-of-market actions related to DC Ties, including the Operating Reserve Demand Curve (ORDC) price adders and the impacts on Locational Marginal Prices (LMPs) from the Real-Time On-Line Reliability Deployment Price Adder – Update? | WMWG |  | | 09/05/2018 |
| Review the mitigation issues and cost impacts and provide a recommendation – Update? | WMWG / ~~RCWG~~ | 06/05/2019- Removed review by RCWG, keep for WMWG  02/06/2019 WMS requested WMWG take up after local pricing issues  09/05/2018 – assigned to WMWG/RCWG | | 06/05/2019  02/06/2019 |
| Continue vetting of the Fuel Index Price – Done? | WMWG | WMWG update – Katy hub may be only index needed, awaiting PUCT direction. Following recommendation regarding NPRR664 | | 05/01/2019  04/03/2019 |
| TAC Assignment: Review of Protocols in relation to use of “Emergency Condition” – Update? | WMWG | Related to OCN/Outage activity, subsequent NPRRs with E. Goff assistance | | 06/05/2019 |
| Review potential Ancillary Services and telemetry errors that impact ERCOT systems, including coding issues and develop metrics to mitigate risks - Ongoing | WMWG | Related to 5/30/19 Market Pricing event due to MP telemetry issue | | 06/05/2019 |
| Look at actual loss factors compared to calculated losses in modeling – Update? | WMWG | Regarding 2018 UFE Analysis | | 07/10/2019 |
| Evaluate moving the deadline for revising energy offer curves closer to Real-Time operations - Ongoing | WMWG |  | | 08/07/2019 |
| Review market impacts from Tech Refresh project– Ongoing | WMWG |  | | 08/07/2019 |
| Review concerns of Generation To Be Dispatched (GTBD) calculation biases, look at root causes, why oscillation between Security-Constrained Economic Dispatch (SCED) clearing and prices in full Regulation Up (Reg-Up) and Regulation Down (Reg-Down) deployment. – Ongoing | WMWG |  | | 08/07/2019 |
| TAC Assignment: Energy Storage Issue 6: State of Charge/Limited Duration Considerations   1. Specific methodology in resource entity/operator/QSE communicating its preference for dispatching in the Real-Time market – Ongoing | WMS/ROS  WMWG |  | | 07/10/2019  07/10/2019 |
| TAC Assignment: Energy Storage Issue 7: Alternate Device Modeling Options– Ongoing | WMS/ROS |  | | 07/10/2019 |