

## DER and Inverter-based Resources Subcommittee

WebEx Only

November 2, 2020

1:00 p.m. – 4:00 p.m. ET

### Administration (1:00 - 1:10)

1. Scott Baker opened the meeting and reviewed the agenda.
2. Hamad Ahmed reviewed the meeting participation guidelines. The minutes from the 3rd DIRS meeting on October 2<sup>nd</sup>, 2020 were approved with 0 objections and 0 abstentions
3. Scott Baker informed that the DIRS work plan is posted on the DIRS webpage.

### Public Distribution Microgrids (1:10 – 1:45)

4. Andrew Levitt reviewed draft manual language associated with the consensus package C.
  - Andrew Levitt reviewed Manual 14D changes scheduled to be presented at the Operating Committee (OC) on November 06, 2020 for endorsement.
  - Manual changes for Manual 11 and 18 are posted and are scheduled to be presented at the Market Implementation Committee (MIC) on November 05, 2020 for endorsement.

### FERC Order 2222 – DER Aggregation (1:45 - 3:00)

5. Danielle Croop provided an overview of the stakeholder process timeline to develop PJM's compliance filing.
  - Danielle Croop stated that PJM plans on developing a straw proposal during Q1 2021 and work through stakeholder feedback on the straw proposal with recommendations and iteration during Q2 2021. Finally, PJM plans on drafting and submission of the compliance filing in Q3 2021. The compliance filing is due July 19, 2021.
6. Greg Geller from Enel X and Tom Rutigliano from NRDC provided comments on Order 2222 from the perspective of a DER aggregator.
  - Greg Geller highlighted that ENEL X is pleased with the order highlighting that the order optimizes DER resources and makes for a more competitive market. Greg also discussed how the order affects retail/wholesale participation, the interconnection process and baselines.

- Tom Rutigliano highlighted that the order provides opportunity to simplify rules around interconnection and aggregation and build on Demand Response framework. He also provided input on metering and telemetry rules.
7. Danielle Croop presented the status quo for DER in PJM with respect to the various compliance directives in the Order.
- Danielle Croop reviewed key status quo for different directives within PJM for Demand Response, Generation and Dual Model (DR and DER) such as Interconnection, Jurisdiction, Opt-in for Small Utilities, participation model, distribution factors & bidding parameters, double counting services, Information and data requirements, Metering and Telemetry, location requirements, minimum and maximum size of aggregation, maximum capacity requirements, single resource aggregation, modification of list of resource in aggregation, types of technology, Market participation agreements, Market rules to address coordination between all parties such as DO,TO,RTO and RERRA.

## Hybrid Resources (3:00 - 3:45)

8. Don Kujawski presented education on generator deviation charges.
- Don Kujawski provided overview of Operating Reserves, Day-Ahead Operating Reserve charges, Balancing Operating Reserve Cost Analysis (BORCA), Ramp-Limited Desired MW Calculation for Deviations and Operating Scenarios with Ramp-Limited Desired MW.
  - Don Kujawski also reviewed resources following and not following dispatch, resources not dispatchable and resources excluded from deviation calculations.
9. Andrew Levitt reviewed additional draft design components and solution options in the hybrid solutions matrix.
- Andrew Levitt reviewed status quo and solution option for hybrid, Telemetry & Metering. data requirements for forecasting, rules for dispatch response time and economic minimum/emergency minimum values relative to CIRs and billing and settlements for charging energy of open-loop hybrids.

## Action items and next meeting agenda (3:45 – 4:00)

10. Hamad Ahmed recapped action items from the meeting.

## Future Meeting Dates

December 07, 2020

1:00 p.m. – 4:00 p.m.

PJM Conference & Training Center/ WebEx

Author: Hamad Ahmed

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