



FINAL MINUTES – WEDNESDAY, MARCH 7TH, 2012

PJM Interconnection
Net Energy Metering Senior Task Force (NEMSTF) - Meeting #6
PJM Business Center, B1 & B2
2621 Van Buren Avenue, Norristown, PA
02.27.2012, 9:30am – 3:30pm

1) Introduction & Roll-Call

- a) The meeting was called to order at 9:30 AM. Mr. Fran Barrett introduced the meeting agenda, discussed schedule, and solicited input for actual dates. The NEMSTF Stakeholders were solicited for additional responses to the Parking Lot survey.
- b) The attendees were recorded by the secretary's roll-call. Attendee spreadsheet attached



Registered_Attendee_OnDemand_03-07.

- c) Mr. Brad Smith solicited feedback on the draft meeting minutes from 2/27/12; hearing none, the minutes are considered final.
- d) Mr. Smith reviewed the status of the open action items and noted those items closed from previous meeting minutes. Please see the Action Item Log attached to these meeting minutes for individual statuses.

2) Review of NEM Stakeholder Feedback

- a) Ms. Miehle provided an update on the upcoming NEM “practitioner” panels, confirmed panelists/companies, and discussed ground rules and proposed schedules. She also solicited interest by any additional parties and indicated that final materials will be due to PJM by close of business on Tuesday, March 13, 2012.
 - i) Physical Interconnection and Real-Time Metering
 - ii) Data Aggregation and Settlements
- b) Mr. Barrett and Mr. Smith presented the summary level data results from the NEMSTF Survey Questionnaire. Mr. Barrett shared his thanks for the effort by the respondents and cautioned that this document should be considered a working paper for the task force due to some variability in responses. The data, however, suggested predominance of solar NEM projects over other renewable generation alternatives. Mr. Barrett shared that, after further clean up and addition of charting, the report will be posted on Friday of this week.

3) Discussion – NEMSTF Stakeholder preparation for Interest Identification Phase

- a) The preliminary NEMSTF interests submitted by the stakeholders were shared via Webex and served as the basis for review, discussion and identification of new interests. Mr. Barrett reported that the NEMSTF Interests document would be revised and issued by Friday of this week and invited submission of additional interests. He noted that the task force will complete the identification phase by the close of the NEMSTF meeting on March 19th. Following this – the task force shall commence efforts to prioritize, sequence and align the interests with design components to help ascertain and propose recommended solutions.

4) Parking Lot, Question and Answer period



- a) Mr. Smith reviewed the items identified and placed on a Parking Lot during the education phase. Mr. Barrett responded to questions regarding next steps for these items and indicated that list will be reduced to those items that meet NEM scope and possess stakeholder priority and this list will be circulated to the stakeholders. Upon conclusion of the Interest Identification effort outlined above, this reduced list will be evaluated by the stakeholders to determine if any items should be included within the NEMSTF Interests document.
 - b) Mr. Barrett shared that NEM Stakeholder questions have been submitted outside of NEMSTF sessions and the questions were shared via Webex. Mr. Barrett indicated that PJM will attempt to assist in response to questions outside of scheduled meetings. Consistent with transparency objectives – all information will be shared with the NEMSTF stakeholders.
- 5) Meeting review & adjournment - Mr. Barrett solicited the NEMSTF stakeholders for any new business and invited new agenda topics, actions or feedback from the meeting. He also called for feedback to improve meeting materials, efficiency, or effectiveness. Mr. welcomed direct feedback and Ms. Miehle provided the PJM weblink to submit anonymous feedback and suggestions to improve stakeholder meetings. The meeting was adjourned at 3:30 P.M.



ACTION ITEMS LOG

Created	Description	Owner	Status
Action Items Created Monday, January 30 th , 2012			
Jan-30 #1	PJM – When determining jurisdiction (PURPA, QF, FERC, etc), a process flow diagram was recommended. PJM to produce draft before next meeting <ul style="list-style-type: none"> ➤ 2/6: PJM distributed and Pauline reviewed with the participants 	PJM	Closed
Jan-30 #2	PJM - Ensure uniformity of NEMSTF matrix definitions; e.g. standby charges	PJM	Ongoing
Jan-30 #3	PJM - Create a glossary for the state and legislative NEMSTF matrix under development	PJM	Ongoing
Jan-30 #4	Harry Dessender – create a use case regarding materiality (< ____ MW) in individual and aggregate MW. When are the positive net energy injections too small to warrant modeling? (ref Metering slide on Modeling, bullet 2, 1st sub bullet) <ul style="list-style-type: none"> ➤ 2/6: WIP, querying the eMTR data for NULL values ➤ 2/28: Harry indicated this is a WIP and will need several more weeks to complete due to amount of data ➤ 3/7: Harry indicated WIP including data analysis on generators in State Estimator (SE), Load buses going negative (due to modeling issues). 	PJM	WIP
Jan-30 #5	PJM - Include an education session with the NEM impact on the planning model including peak load and peak generations calculations (John Reynolds to provide training)	PJM	Closed
Jan-30 #6	TO's and utilities – “How do you manage NEM's in your region?” Document and share your practices with respect to NEM projects. Note: PJM build a posting template for TO's and utilities <ul style="list-style-type: none"> ➤ Split into 3 distinct items Feb-6 #1, #2, and #6 	Joint	Closed
Jan-30 #7	PJM - It was noted that some March and April NEMSTF meetings fall on “No Meeting dates”. An action item was taken to see if the dates could be mitigated or rescheduled <ul style="list-style-type: none"> ➤ 2/6: Meetings moved to 3/7 (from 3/5) and 4/4 (from 4/2). 	PJM	Closed
Action Items Created Monday, February 6 th , 2012			
Feb-6 #1	Stakeholders “Interests” – Document and share your company's interest w/r/t NEM by noon on Monday, March 5th, 2012 <ul style="list-style-type: none"> ➤ 3/7: there were a handful of responses, these were discussed and edits/additions were captured online. PJM will distribute the results Friday, 3/9. 	PJM	3/7
Feb-6 #2	Stakeholders “Questionnaire” – Document and share how you deal with NEM projects in your region; types and number of interactions, number of NEM projects, number of 2012 projected NEM projects, NEM project magnitude (MW), etc. by noon on Monday, March 5th, 2012 <ul style="list-style-type: none"> ➤ 3/7 Update: 14 responses gathered (13 via EDCs). The results were reviewed; there were some suggestions for making changes to the questionnaire to provide better, more consistent information. PJM took an action item to formulate ~ 3-5 new survey questions and re-distribute. The timing to publish the new data is coincident with the NEMSTF meeting on March 19th. 	PJM, Stakeholders	Closed
Feb-6 #3	PJM (Bhavana Keshavamurthy) Day Ahead Markets a. Revise slide # 11 for clarity of MWh for demand and MW/MVar for energy	PJM	Closed

	<p>and capacity</p> <p>b. Distribute additional resources regarding D/A Markets (web link for eMKT user guide, web link for detailed D/A training, hotline phone number for Markets questions)</p> <ul style="list-style-type: none"> ➤ There are three main resources that new participants can use to familiarize themselves with the Day ahead market and emkt: <ol style="list-style-type: none"> 1) Day ahead training : Day-Ahead Scheduling & eMkt - http://www.pjm.com/sitecore/content/Globals/Training/Course/s/ol-da-sched.aspx 2) Emkt User guide : http://www.pjm.com/markets-and-operations/etools/~media/etools/emkt/ts-userguide.ashx 3) Customer support: The Client Managers assigned to the participant will help with the paperwork needed to get their accounts setup . For specific questions related to portfolio setup, participants can contact the PJM Markets Hotline at 610-666-8998 or send an email to markets_hotline@pjm. 		
Feb-6 #4	<p>PJM publish any FERC Order and tariff citations with respect to non-retail generation</p> <ul style="list-style-type: none"> ➤ 1.27AA Non-Retail Behind The Meter Generation: Behind the Meter Generation that is used by municipal electric systems, electric cooperatives, or electric distribution companies to serve load. ➤ Non-Retail Behind the Meter Generation (NRBTMG) is in Schedule 8 of the Reliability Assurance Agreement (RAA). ➤ Section 1.27AA Non-Retail Behind The Meter Generation: ➤ Section 34.3 Netting of Non-Retail Behind The Meter Generation. ➤ SCHEDULE 15 - Non-Retail Behind The Meter Generation Maximum Generation Emergency Obligations 	PJM	Closed
Feb-6 #5	<p>PJM (Pauline Foley) – edit/revise and distribute the Jurisdictional decision table</p> <ol style="list-style-type: none"> a. Correction for QF non-purpose sale, slide 2 b. Add a NEM row to the table c. Revise high level flow chart (Jason Keyes, Pauline Foley) <ul style="list-style-type: none"> ➤ 2/28 – Items a and b are complete. Pauline and Jason are discussing a topic related to item c, and when complete, the document will be re-issued to the stakeholders. ➤ 	PJM	WIP
Feb-6 #6	PJM publish NEM template for stakeholders by 2/13/12.	PJM	Closed
Action Items Created Monday, February 27 th , 2012			
Feb-27 #1	Review Reliability Assurance Agreement (RAA) Schedule 6, § L for potential conflict with current NEM legislation (reducing load below zero).	Pauline Foley	3/19
Feb-27 #2	Create a chart/visual of the NEM project options and alternatives regarding Behind the Meter, energy only, or capacity resource.	PJM	June 1 deliverables
Feb-27 #3	Ensure the state and legislature matrix can be pivoted by State or Feature/variable	Brad	Closed



Feb-27 #4	Re-issue the NEMSTF Survey Questionnaire to include a) "Please identify the respondents sector" with a special emphasis on EDC data b) Add "NEM" to question #3	Tracy	Closed
Feb-27 #5	Provide refresher for Senior Task Force polling expectations ➤ 3/7: Fran updated the NEMSTF that the group will employ straw polls and Webex online polling in order to permit timely, efficient and extensive task force feedback. Mr. Barrett noted the guiding sections of the PJM Stakeholder Meeting Manual (Manual 34) and informed the stakeholders that, as a Senior Task Force, certain voting guidelines must be upheld prior to submission for consideration by the MRC.	Fran	Closed
Feb-27 #6	PJM will circulate a brief narrative for each of the panels (one panel on physical interconnection and real time metering, and a second panel on data aggregation and market settlements), solicit speakers and their availability, and identify the timing of the panels (March 7 th and/or March 19 th). Panelists shall be stakeholder practitioners dealing with NEM Projects.	Tracy	Closed
Action Items Created Monday, March 7 th , 2012			
Mar-7 #1	Schedule two (2) "HOLD" NEMSTF meeting dates in May to alleviate any potential workload/schedule conflicts. PJM agreed to determine if future meetings may be relocated to the Visitor's Center in the Technology Center.	PJM	3/9
Mar-7 #2	PJM took an action item to formulate ~ 3-5 new survey questions and re-distribute. The timing to publish the new data is coincident with the NEMSTF meeting on March 19 th . <ul style="list-style-type: none"> • Number of net MWh positive (2011 and any possible multiyear trends) • Peak, instantaneous NEM generation that might affect PJM reliability and real time operations • Revised meter survey question – (David Ellis to assist in formulation) • Survey question on queue timing and cost data 	Facilitation Team	Open
Mar-7 #3	Review Manual 41 for Glossary terms for energy injections and formulate a term specific to excess distribution level, NEM generation that affects the wholesale administered markets	H. Dessender	Open

• UPCOMING NEMSTF MEETINGS:
2012

March 19	9:30 – 3:30pm	PJM Interconnection, Business Center
April 4 (NOTE date change 4/2)	9:30 – 3:30pm	PJM Interconnection, Business Center
April 16	9:30 – 3:30pm	PJM Interconnection, Business Center
April 30	9:30 – 3:30pm	PJM Interconnection, Business Center



May 11	9:30 – 3:30pm	PJM Interconnection, Business Center
New: May 14th	TBD	TBD
May 18	9:30 – 3:30pm	PJM Interconnection, Business Center
New: May 24th	TBD	TBD
May 25	9:30 – 3:30pm	PJM Interconnection, Business Center
May 30	9:30 – 3:30pm	PJM Interconnection, Business Center

Please use this link to see the meeting materials and to register for these meetings:

<http://www.pjm.com/committees-and-groups/task-forces/nemstf.aspx>

Anti-trust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

Public Meetings/Media Participation:

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. PJM Members are also not allowed to create audio, video or online recordings of PJM meetings.