

Market Implementation Committee Special Session: Quadrennial Review

Webex

March 25, 2022

9:00 a.m. – 2:00 p.m. EPT

[Issues Tracking Page](#)

Administration (9:00-9:15)

1. Rebecca Carroll, PJM, provided a welcome and announcements.
 - a. Nikki Militello, PJM reviewed the Antitrust, Code of Conduct, and Public Meetings/ Media Participation Guidelines. **The committee approved the draft minutes from the February 11, 2022 Special Session.**
 - b. Rebecca Carroll reviewed the Quadrennial Review work plan.

Education (9:15-1:55)

2. Brattle's Mike Hagerty, Sam Newell and Travis Carless provided a summary of the CC/CT gross CONE based on feedback from stakeholders, an analysis of the battery storage gross CONE and a review of the E&AS analysis. (9:15 – 11:15)

Lunch (11:15 – 11:55)
3. Brattle's Kathleen Spees provided a summary of the VRR Curve analysis. (11:55 – 12:55)
4. Monitoring Analytics provided comments on the various components of the Quadrennial Review. (12:55 – 1:55)
 - a. Joe Bowring reviewed the Market Monitor's CONE proposal and results.
 - b. Joe Bowring reviewed the Market Monitor's VRR Curve recommendations.


Future Agenda Items (1:55-2:00)

CBIR Process

Action Items

1. Brattle to provide percentage cost increase, from December to current, for equipment and material costs.
2. Brattle to provide specific challenges as reasoning for moving away from wet cooling towers.
3. E&AS Action Items:
 - a. PJM to provide breakdown of Energy & Ancillary Service revenues, by RTO and by zone.
 - b. PJM to investigate the possibility of providing two scenarios of the E&AS offset and impact on Net CONE – forward-looking vs historical.

- c. Brattle to provide gross CONE values to PJM and PJM to calculate zonal Net E&AS & net CONE values.
- 4. PJM to provide a more detailed review of Net E&AS methodology.
- 5. PJM to ensure feasibility of Gas CC in various states is discussed during May MIC meeting.
- 6. Monitoring Analytics to provide the change in total costs to load for movement along the SAME existing or Brattle proposed demand curves and his proposed curve. As well as comparison of Brattle's recommended double train 1 x 1 CC vs 2 x 1 CC.

Future Meeting Dates and Materials			Materials Due to Secretary 	Materials Published
Date	Time	Location		
April 22, 2022	9:00 am – 12:00 pm	WebEx/Teleconference	April 14, 2022	April 19, 2022
May 20, 2022	9:00 am – 12:00 pm	TBD	May 12, 2022	May 17, 2022
June 21, 2022	9:00 am – 12:00 pm	TBD	June 13, 2022	June 16, 2022

Author: Nikki Miliello

Antitrust:

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. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings. PJM may create audio, video or online recordings of stakeholder meetings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

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<p>On the Phone, Dial</p>  <p>to Mute/Unmute</p>	<p>Linking Teleconference Connection to Webex</p> <p>When logging in to the meeting, access Webex first and select the "call me" feature to receive a direct call to your phone. Using this feature will connect your name to your Webex presence.</p>
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**Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.*

Attendance

Last Name	First Name	Company	Sector
Baker	Scott	PJM Interconnection	N/A
Barker	Jason	Constellation Energy Generation, LLC	GO
Barrow	Kimberly	PA PUC	N/A
Bastian	Jeff	PJM Interconnection	N/A
Benchek	Jim	American Transmission Systems, Inc.	TO
Bowring	Joe	Monitoring Analytics	N/A
Brodbeck	John	EDP Renewables	GO

Bruno	Patrick	PJM Interconnection	N/A
Callen	Zachary	Illinois Commerce Commission	N/A
Canchi	Devendra	Monitoring Analytics	N/A
Canter	David	Appalachian Power Company (AEP Generation)	TO
Carless	Travis	The Brattle Group	N/A
Carmean	Gregory	OPSI	N/A
Carroll	Rebecca	PJM Interconnection	N/A
Colaresi	Chandra	CPower Corp.	NA
Collins	Ryan	Wright & Talisman, P.C.	N/A
Corash	Rich	PSEG Energy Resources & Trade LLC	OS
Croop	Danielle	PJM Interconnection	N/A
Curtis	Kenneth	Drilling Info, Inc.	N/A
D'Antonio	Phil	PJM Interconnection	N/A
Daou	Patrick	Sargent & Lundy	N/A
Dolan	James	PJM Interconnection	N/A
Dorko	Keri	Monitoring Analytics	N/A
Drom	Rick	Affirmed Energy LLC	OS
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	TO
Ericson	Christine	Illinois Commerce Commission	
Evrard	David	PA Office of the Consumer Advocate	EUC
Fabiano	Janell	PJM Interconnection	N/A
Fan	Zhenyu	PJM Interconnection	N/A
Farhat	Michelle	PJM Interconnection	N/A
Fee	George	Appalachian Power Company	TO
Filomena	Guy	Customized Energy Solutions	N/A
Fink	Sari	American Wind Energy Association	N/A
Foladare	Ken	Geenex Solar LLC	OS
Ford	Adrien	ODEC	ED
Foster Cronin	Denise	East KY Power Cooperative, Inc.	TO
Gates	Terry	Appalachian Power Company	TO
Gautam	Suman	PA Consulting	NA
Glazer	Craig	PJM Interconnection	N/A
Gorman	Brad	American Transmission Systems, Inc.	TO
Graf	Walter	PJM Interconnection	N/A
Hagerty	Mike	The Brattle Group	N/A

Hastings	David	DHAST Co.	N/A
Hauske	Tom	PJM Interconnection	N/A
Heinle	Frederick	Office of the Peoples Counsel for DC	EUC
Helm	Gary	PJM Interconnection	N/A
Herel	Suzanne	PJM Interconnection	N/A
Hoatson	Thomas	West Deptford Energy, LLC	GO
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	GO
Horning	Lynn	Customized Energy Solutions	N/A
Horstmann	John	Dayton Power & Light Company (The)	TO
Hudis	Gabriella	Jersey Green Energy LLC	OS
Hyzinski	Tom	GT Power Group	N/A
Jacobs	Mike	Fowler Ridge IV Wind Farm, LLC	GO
Jardot	Gina	NRG Curtailment Solutions, Inc.	OS
Johnson	Carl	Customized Energy Solutions	N/A
Josyula	Siva	Monitoring Analytics	N/A
Junge	Josh	Sargent & Lundy	N/A
Kalaskar	Rahul	AES Ohio Generation, LLC	GO
Kayne	Samuel	DE PSC	N/A
Kazerooni	Hamid	PJM Interconnection	N/A
Keegan	Jack	PJM Interconnection	N/A
Keenan	Matthew	Elwood Energy, LLC	GO
Kelly	Stephen	Brookfield Renewable Trading and Marketing LP	OS
Kogut	George	NYPA	OS
libbos	robin	Monongahela Power Company d/b/a Allegheny Power	TO
Lu	Chen	PJM Interconnection	N/A
Mabry	David	McNees Wallace & Nurick LLC	N/A
Mascarenhas	Sandeep	Brookfield Renewable Energy Marketing US LLC	OS
Matheson	Eric	N/A	N/A
McDewell	Christian	PA PUC	N/A
McNeil	Justin	Office of the Attorney General - Kentucky	EUC
Midgley	Sharon	Exelon Business Services Company, LLC	TO
Militello	Nikki	PJM Interconnection	N/A
Mooney	Jeff	American Transmission Systems, Inc.	TO
Newell	Sam	The Brattle Group	N/A
Nix	Emma	Jersey Green Energy, LLC	OS

Novosel	Sarah	Calpine Energy Services, L.P.	GO
Okenfuss-Savion	James	Savion, LLC	N/A
Ondayko	Brock	AEP Energy Partners, Inc.	TO
Pasteris	Ray	Monitoring Analytics	N/A
Patterson	Paul	Glenrock Associates, LLC	N/A
Peoples	John	Duquesne Light Company	TO
Perera	Asanga	PJM Interconnection	N/A
Pilong	Melissa	PJM Interconnection	N/A
Poulos	Greg	OPSI	N/A
Price	Ruth Ann	DE PSC	N/A
Pungaliya	Rajat	Pine Gate Mid-Atlantic, LLC	OS
Rahimi	Farrokh	Open Access Technology International, Inc.	N/A
Roberts	Casey	Sierra Club	N/A
Robinson	Becky	Dynegy Marketing and Trade, LLC	GO
Rodriguez	Tomas	OPSI	N/A
Rohrbach	John	Wabash Valley Power Association, Inc.	ED
Salanek	Alexandra	Monitoring Analytics	N/A
Sasser	Jonathan	Customized Energy Solutions	N/A
Scarpignato	David	Calpine Energy Services, L.P.	GO
Schmitt	David	NJ Board of Public Utilities	N/A
Schreim	Morris	MD PSC	N/A
Schuyler	Ken	PJM Interconnection	N/A
Shanker	Roy	HQ Energy Services	OS
Sotkiewicz	Paul	E-Cubed Policy Associates	N/A
Spees	Kathleen	The Brattle Group	N/A
Squibb	Bill	Ohio Valley Electric Corporation	TO
Stern	Alexander	Public Service Electric & Gas Company	TO
Sturgeon	John	Duke Energy Progress, LLC	OS
Sussler	Philip	Maryland Public Service Commission	N/A
Svenson	Heather	Public Service Electric & Gas Company	TO
Swalwell	Brad	Tangent Energy Solutions, Inc.	OS
Sweeney	Rory	GT Power Group, LLC	N/A
Tacka	Natalie	PJM Interconnection	N/A
Thompson	Andrew	The Brattle Group	N/A
VanderLaan	William	Illinois Commerce Commission	N/A

Wehnes	Kathleen	MD Dept. of the Environment	N/A
Whitehead	Jeffrey	GT Power Group	N/A
Willey	Amy	DE PSC	N/A
Yoder	Michael	RTO Insider	N/A
Zemanek	Kevin	Buckeye Power, Inc.	ED

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