

Demand Response Subcommittee
PJM Conference and Training Center
February 3, 2020
9:00 am – 12:15 pm EPT

Administration (9:00 - 9:15)

1. Welcome, Announcements and Anti-trust and Code of Conduct announcement

- A. Roll call: in-person only
- B. Approved prior minutes – 01/06/2020 meeting
- C. No additional agenda items were brought forward.

A reminder was provided that Load Management Registration training will be occurring on February 13, 2020 from 10:00 am until around 12:00 pm. It will be available via WebEx and In-person.

D. Brief update/discussion of DR related activity in other stakeholder groups – MIC, OC, PC, or other

Other than the scheduled agenda items on today's meeting, there was no DR related activity of note occurring at other stakeholder groups.

(9:15 –11:00) Potential impact of recent MOPR order on DR ([Presentation Link](#))

2. The MIC Special Sessions will discuss the overall MOPR order. The more detailed DR/EE specific issues will be discussed at the DRS to allow more time for discussion before the compliance filing is due. Pete Langbein will facilitate a discussion on the potential impact of the recent MOPR order on DR. This will be a working session to collaborate on how to implement the provisions provided in the order. Stakeholders are encourage to read the order prior to the meeting.

- a) (15 min) What may be considered a subsidy? Based on customers that provide DR today, what may be considered a subsidy?
- b) (20 min) What is new/planned vs existing (exemption vs non-exemption) – are there different ways to consider. If yes, what are pros/cons?
- c) (30 min) What is the expected structure of DR MOPR prices and how may they be calculated?
- d) (40 min) What is potential impact of MOPR on current DR offer process? What needs to change and why based on MOPR and MOPR calculation process. Go through some use cases (DR with no subsidies, DR with LoadDR only with subsidies, DR with LoadDR and GenDR with subsidies, etc.)

Pennsylvania has a state alternate energy performance credit/standard (similar to a REC). May need to take state level standards into account.

Specific situations regarding the timing of when a subsidy is accepted were brought up during the meeting. Providing examples of different scenarios may be helpful.

Competitive exemption component – not subsidized, because not eligible.

For resources that elected an exemption, but later receive subsidy – they may not participate in the capacity market for life of asset (20 years). How do you define asset life for DR? Is language in the FERC Order specific to CONE value?

Clarity was requested for giving up RPM revenues – If portion of a resource takes subsidy during the DY, is only portion of resource forgoing revenues or the entire resource? IMM recommended having each resource separate by classification, because partial resources could still potentially affect prices.

Any questions related to the FERC MOPR Order should be directed to the RPM hotline (rpm_hotline@pjm.com).

It was recommended by a stakeholder that DR with BtM generation be modeled more closely like a diesel with gas prices. It was also noted that the reliability benefit of a BtM generator should be considered. It was mentioned that the wind model may be a good model to use for the initial framework.

How will PJM handle customers that may have been replaced during an incremental auction (1st bullet on slide 11 may not provide enough information for this question). What happens if a customer was replaced, but didn't register? Should the CSP show specific account info to PJM? From the FERC Order – If you cleared an auction, you are registered. What document would CSP have to show this, EDC account number? Is there a need to have customers under contract to qualify (i.e. Planned MW, no contract - does not qualify)? It was mentioned this could be contrary to MOPR.

How will an exemption work if a CSP gets all new customers?

It was asked of PJM to be mindful of when next BRA auction occurs to make sure resources can have an advance notice of the timeline.

What is LoadDR vs GenDR and how can we determine today? For a generator built 5 years ago and becomes available for subsidy, what is used, ACR vs. CONE? It was recommended PJM think about BtM gross CONE differently than front of meter, because of different cost drivers.

Corrections required to the presentation

Slide 15 – Existing non-exempt diesel and gas should be gross ACR instead of CONE

Slide 12 – all the registrations are one account. (Pete will update to make them all Registration 1). GlenCo on the last line needs to be deleted.

(11:10 – 12:00) Potential impact of recent MOPR order on EE

Discussion of how the MOPR order may impact the EE offer process in RPM auctions. This will be a discussion similar to DR agenda item outlined above.

Same criteria applies to EE as DR. There is no account level registration for EE (it is zonal, LDA). Existing EE is not a valid concept for exemption process, because EE only has 4 year life and drops to 0. The installation period is defined at zone/sub-zone level. Who gets the competitive exemption within EE aggregate? What are EE hours for peak hour offset? It was requested to have consistent UCAP values throughout process.

(12:00 – 12:15) Overview of how DR participates in FRR areas

Overview of how DR participates in FRR areas today. This is a follow up from a request made at the last DRS.

From PJM perspective, there are no expected changes for how things are today. There could be 2 CSPs (FRR/Non-FRR). How does a resource not in an FRR plan affect constrained LDA constraints (Only effective in export-constrained regions)?

Future Agenda Items

Participants will have the opportunity to request the addition of any new item(s) to the agenda of a future meeting.

Future Meeting Dates

Monday	3/9/2020	1:00 pm – 4:00 pm
Monday	4/13/2020	1:00 pm – 4:00 pm
Monday	5/18/2020	1:00 pm – 4:00 pm
Thursday	6/11/2020	1:00 pm – 4:00 pm
Thursday	7/9/2020	1:00 pm – 4:00 pm
Monday	8/3/2020	9:00 am – 12:00 pm
Thursday	9/3/2020	1:00 pm – 4:00 pm
Monday	10/5/2020	1:00 pm – 4:00 pm
Monday	11/2/2020	9:00 am – 12:00 pm
Thursday	12/3/2020	1:00 pm – 4:00 pm

Author: Jack Thomas

Langbein (Chair)	Pete	PJM Interconnection, LLC	Not Applicable
Thomas (Secretary)	Jack	PJM Interconnection, LLC	Not Applicable



Bastian	Jeff	PJM Interconnection, LLC	Not Applicable
Bruno	Josh	PJM Interconnection, LLC	Not Applicable
Campbell	Bruce	EnergyConnect, Inc.	Other Supplier
Colbert	Cathleen	NRG Curtailment Solutions, Inc.	Other Supplier
Foladare	Kenneth	Tangibl	Not Applicable
Foley	Imelda	Environmental Defense Fund	None
Helm	Gary	PJM Interconnection, LLC	Not Applicable
Kaufman	Brian	Enel X North America, Inc.	Other Supplier
Kogut	George	New York Power Authority	Other Supplier
Lu	Chenchao	PJM Interconnection, LLC	Not Applicable
Mabry	David	McNeese Wallace & Nurick LLC	Not Applicable
Marzewski	Skyler	Monitoring Analytics, LLC	Not Applicable
Morelli	Lisa	PJM Interconnection, LLC	Not Applicable
O'Neill	Jack	PJM Interconnection, LLC	Not Applicable
Scheidecker	Paul	PJM Interconnection, LLC	Not Applicable
Yeaton	Andrea	PJM Interconnection, LLC	Not Applicable

In Attendance via WebEx / Teleconference

Anders	David	PJM Interconnection, LLC	Not Applicable
Anthony	Jason	KORenergy, Ltd.	Other Supplier
Baker	Laura	Stone, Mattheis, Xenopoulos, & Brew, PC	Not Applicable
Bhavaraju	Murty	PJM Interconnection, LLC	Not Applicable
Brooks	Royce	ODEC	Electric Distributor
Bruno	Patrick	PJM Interconnection, LLC	Not Applicable
Cavan	Peter	Direct Energy Business, LLC	Other Supplier
Chang	Sean	Shell Energy North America (US), LP	Other Supplier
Christopher	Mahila	Public Utilities Commission of Ohio (The)	Not Applicable

Cornett	Stephanie	East Kentucky Power Cooperative, Inc.	Transmission Owner
DeVito	Anthony	Direct Energy Business Marketing LLC	Other Supplier
Ding	Congmei	PJM Interconnection, LLC	Not Applicable
DiNicola	Laura	FirstEnergy Solutions Corp.	Transmission Owner
Drom	Richard	Eckert Seamans	Not Applicable
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ehrichs	Lisa	Duke Energy Business Services LLC	Generation Owner
Fan	Zhenyu	PJM Interconnection, LLC	Not Applicable
Fee	George	Appalachian Power Company	Transmission Owner
Fiano	Anna	KeyTex Energy, LLC	Other Supplier
Filomena	Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fishback	Luke	Affirmed Energy LLC	Other Supplier
Ford	Adrien	Old Dominion Electric Cooperative	Electric Distributor
Foust	Wolfgang (Wolf)	NuEnergen, LLC	Other Supplier
Garbini	Marjorie	Potomac Electric Power Company	Electric Distributor
Garnett	Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gates	Terry	Appalachian Power Company	Transmission Owner
Hasan	Prusha	Advanced Energy Economy	None
Hastings	David	Market Interconnection Consulting Services (MICS)	Not Applicable
Hoatson	Tom	Riverside Generating, LLC	Other Supplier
Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Hyzinski	Tom	GT Power Group	Not Applicable
Johnson	Carl	Customized Energy Solutions, Ltd.	Not Applicable
Johnston	David	Indiana Utility Regulatory Commission	Not Applicable
Korandovich	Bob	KOREnergy, Ltd.	Other Supplier
Long	Glenn	PJM Interconnection, LLC	Not Applicable
Mariam	Yohannes	Office of the Peoples Counsel for the District of Columbia	End User Customer
Marzewski	Skyler	Monitoring Analytics, LLC	Not Applicable
McDaniel	John	Baltimore Gas and Electric Company	Transmission Owner
McDonnell	Devon	Other	Not Applicable

Meridionale	Kevin	Jersey Central Power & Light Company	Transmission Owner
Midgley	Sharon	Exelon Business Services Company, LLC	Transmission Owner
Miller	John	Commonwealth Edison Company	Transmission Owner
Newbold	Russ	CPowerEnergyManagement	Other Supplier
Nix	Emma	Gable and Associates	Not Applicable
Norton	Chris	American Municipal Power, Inc.	Electric Distributor
Nyemko	Masha	PJM Interconnection, LLC	Not Applicable
Ondayko	Brock	Appalachain Power Company	Transmission Owner
Pisarcik	David	Customized Energy Solutions, Ltd.	Not Applicable
Powers	Sean	Linde Energy Services, Inc.	End User Customer
Price	Dann	Constellation NewEnergy, Inc.	Other Supplier
Ring	Eric	Enerwise Global Technologies, Inc.	Other Supplier
Rutigliano	Tom	Achieving Equilibrium LLC	Other Supplier
Salaneck	Alexandra	Monitoring Analytics, LLC	Not Applicable
Sasser	Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Seelaus	Andrew J. (Andy)	EMC Development Company, Inc.	Other Supplier
Svenson	Heather	Public Service Electric & Gas Company	Transmission Owner
Swalwell	Brad	Tangent Energy Solutions, Inc.	Other Supplier
Sweeney	Rory	GT Power Group	Not Applicable
Trott	Jed	Galt Power Inc.	Other Supplier
Watson	Betty	SolarCity	Not Applicable
Webster	John	Dyon LLC	Other Supplier
Weeks	Thomas	Michigan Public Power Agency	Generation Owner
Wehnes	Kathleen	Maryland.gov	Not Applicable
Wehr	Christopher	Metropolitan Edison Company	Transmission Owner
Willey	Amy	Delaware.gov	Not Applicable
Wilmoth	Emily	Dominion Virginia Power	Not Applicable
Yeaton	Andrea	PJM Interconnection, LLC	Not Applicable
York	Amy	McNees Wallace & Nurick	Not Applicable

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



Draft Meeting Minutes

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.

Participant Identification in WebEx:

When logging into the WebEx desktop client, please enter your real first and last name as well as a valid email address. Be sure to select the "call me" option. PJM support staff continuously monitors WebEx connections during stakeholder meetings. Anonymous users or those using false usernames or emails will be dropped from the teleconference.

On the Phone Dial



Mute / Unmute

Linking Teleconference Connection to WebEx

To link your teleconference connection (audio presence) to your WebEx presence, please dial *29 and enter your Personal Identification Number. Once you are logged in to the WebEx, this PIN can be found under the "Meeting Info" tab of your WebEx window.

Join a Meeting

1. Join meeting in the WebEx desktop client
2. Enter name (*First and Last**) and corporate email
3. Under "Select Audio Option" select "Call Me" option from the dropdown menu

**Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.*

Provide feedback on the progress of this group: [Facilitator Feedback Form](#)
Visit learn.pjm.com, an easy-to-understand resource about the power industry and PJM's role.