



MINUTES
PJM MARKET IMPLEMENTATION COMMITTEE
PJM CONFERENCE & TRAINING CENTER
NORRISTOWN, PA
APRIL 9, 2014
9:00 AM

Members in Attendance:

Ford, Adrien (Chair)	PJM Interconnection, LLC	Not Applicable
Canter, David	AEP	Transmission Owner
Bloom, David	Baltimore Gas and Electric Company	Transmission Owner
Trayers, Barry	Citigroup Energy, Inc.	Other Supplier
Filomena, Guy	Customized Energy Solutions, Ltd.*	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.*	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Bleiweis, Bruce	DC Energy LLC	Other Supplier
Scarpignato, David	Direct Energy Business, LLC	Other Supplier
Jennings, Kenneth	Duke Energy Business Services LLC	Generation Owner
Peoples, John	Duquesne Light Company	Transmission Owner
Drabant, Tracey	Duquesne Light Company (FP 5)	Transmission Owner
Gockley, Beatrice	EnergyConnect, Inc.	Other Supplier
Stadelmeyer, Rebecca	Exelon Business Services Company, LLC	Transmission Owner
Benchek, Jim	FirstEnergy Solutions Corporation	Transmission Owner
O'Connell, Robert	JPMorgan Ventures Energy Corporation	Other Supplier
Kogut, George	New York Power Authority	Other Supplier
Lieberman, Steven	Old Dominion Electric Cooperative	Electric Distributor
Fuess, Jay	PBF Power Marketing LLC (Rep.'g)	Generation Owner
Brodbeck, John	Potomac Electric Power Company	Electric Distributor
Santarelli, Paul D.	PPL Electric Utilities Corporation d/b/a PPL Utilities	Transmission Owner
Greening, Michele	PPL EnergyPlus, L.L.C.	Transmission Owner
Etnoyer, Scott	Raven Power Marketing LLC	Generation Owner
Jwanier, David	RTO Insider	Not Applicable
Scoglietti, Barbara	Tangent Energy Solutions, Inc.	Other Supplier
Piascik, Thomas M.	Tangibl LLC	Not Applicable
Walter, Laura (Secretary)	PJM Interconnection, LLC	Not Applicable

Also in Attendance:

Erbrick, Michael	DhastCo,LLC	Not Applicable
Pratzon, David	GT Power Group	Not Applicable
Mabry, David	McNees Wallace & Nurick LLC	Not Applicable
Bastian, Jeff	PJM Interconnection, LLC	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Chmielewski, Brian	PJM Interconnection, LLC	Not Applicable
Ciabattoni, Joseph	PJM Interconnection, LLC	Not Applicable
Coyne, Suzanne	PJM Interconnection, LLC	Not Applicable



Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fernandez, Ray	PJM Interconnection, LLC	Not Applicable
Horger, Tim	PJM Interconnection, LLC	Not Applicable
Horowitz, Shira	PJM Interconnection, LLC	Not Applicable
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Langbein, Peter	PJM Interconnection, LLC	Not Applicable
Loomis, Hal	PJM Interconnection, LLC	Not Applicable
Morelli, Lisa	PJM Interconnection, LLC	Not Applicable
Scheidecker, Paul	PJM Interconnection, LLC	Not Applicable
Schuyler, Kenneth	PJM Interconnection, LLC	Not Applicable
Sechrist, Erin	PJM Interconnection, LLC	Not Applicable
Souder, Michelle	PJM Interconnection, LLC	Not Applicable
Tribulski, Jennifer	PJM Interconnection, LLC	Not Applicable
Velasco, Cheryl Mae	PJM Interconnection, LLC	Not Applicable

Via WebEx or Teleconference:

Rutigliano, Tom	Achieving Equilibrium LLC	Other Supplier
Liang-Nicol, Cecilia	Allegheny Energy Supply Company, L.L.C.	Transmission Owner
Gabrieli, Anthony	Ally Energy LLC.	Other Supplier
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Ondayko, Brock	Appalachain Power Company	Transmission Owner
Feliks, Kent	Appalachian Power Company	Transmission Owner
Esposito, Pati	Atlantic Grid Operations A LLC	Other Supplier
Fernandes, John	Baltimore Gas and Electric Company	Transmission Owner
Mancuso, Maria	Baltimore Gas and Electric Company	Transmission Owner
Bassett, Jeffrey	BP Energy Company	Other Supplier
Kopon, Owen	Brickfield, Burchette, Ritts & Stone, P.C.	Not Applicable
Xenopoulos, Damon	Brickfield, Burchette, Ritts & Stone, P.C.	Not Applicable
Francis, Frank	Brookfield Renewable Energy Marketing US LLC	Other Supplier
Comeskey, Benjamin	College Student	Not Applicable
Miller, John	Commonwealth Edison Company	Transmission Owner
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Urbini, Greg	Constellation NewEnergy, Inc.	Other Supplier
Griffiths, Dan	Consumer Advocates of PJM States	Not Applicable
Litchfield, Matthew	CPV Shore, LLC	Generation Owner
Dessender, Harry	Customized Energy Solutions, Ltd.*	Not Applicable
Erbrick, Michael	DHAST Co.	Not Applicable
Coyle, Billy	Dominion Virginia Power	Not Applicable
Currier, Jeff	Dominion Virginia Power	Not Applicable
Feierabend, Rich	Dominion Virginia Power	Not Applicable
Pakela, Gregory	DTE Energy Trading, Inc.	Other Supplier
Jett, William	Duke Energy Business Services LLC	Generation Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Janicki, Diane	Edison Mission Marketing & Trading, Inc.	Generation Owner
Haynes, Greg	Energy Authority, Inc. (The)	Other Supplier
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Meier, Mariko	EnerNOC, Inc.	Other Supplier
Nie, David	EnerNOC, Inc.	Other Supplier



Poulos, Greg	EnerNOC, Inc.	Other Supplier
Everngam, Scott	Federal Energy Regulatory Commission (The)	Not Applicable
Martin, Valerie	Federal Energy Regulatory Commission (The)	Not Applicable
Rolashevich, Pete	Federal Energy Regulatory Commission (The)	Not Applicable
Villatoro, Karen	Federal Energy Regulatory Commission (The)	Not Applicable
Bolan, Martin	FirstEnergy Solutions Corporation	Transmission Owner
Durand, Janine	Gibson, Dunn, and Crutcher	Not Applicable
Paul	Glenrock Associates	Not Applicable
Shanker, Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Patrylo, R. J.	H-P Energy Resources, LLC	Other Supplier
Webster, John	Icetec.com, Inc.	Other Supplier
Schum, Alice	Illinois Municipal Electric Agency	Electric Distributor
Foladare, Ken	IMG Midstream LLC	Generation Owner
Frellich, Jessica	Integrays Energy Services, Inc.	Other Supplier
Ma, Alex	Invenergy	Generation Owner
Levine, Jeffrey	IPR-GDF SUEZ Energy Marketing NA, Inc.	Other Supplier
Powers, Sean	Linde Energy Services, Inc.	End-use Customer
Parker, Seth	Long Island Lighting Company d/b/a LIPA	Other Supplier
Saini, Ishwar	Macquarie Energy LLC	Other Supplier
Wisersky, Megan	Madison Gas & Electric Co.	Other Supplier
Frost, Jodi	Moxie Liberty LLC	Other Supplier
Mahoney, Julie	New York State Electric & Gas Corporation	Other Supplier
Owens, Christina	North Carolina Electric Membership Corporation	Electric Distributor
Wilkins, James	North Carolina Electric Membership Corporation	Electric Distributor
Bonanni, John	NRG Power Marketing LLC	Generation Owner
Fitch, Neal	NRG Power Marketing LLC	Generation Owner
Patel, Munjal	NRG Power Marketing LLC	Generation Owner
Mariam, Yohannes	Office of the Peoples Counsel for the Dist of Columbia	End User Customer
Gell, Richard	Ontario Power Generation Inc.	Other Supplier
Lopez, Alex	Opower	Not Applicable
Caddell, Ted	PECO	Transmission Owner
Evrard, David	Pennsylvania Office of Consumer Advocate	End User Customer
Chiavaroli, Tom	PGI.com	Not Applicable
Brown, Rich	PJM Interconnection, LLC	Not Applicable
Egan, Amanda	PJM Interconnection, LLC	Not Applicable
Gordon, Brad	PJM Interconnection, LLC	Not Applicable
Hauske, Thomas	PJM Interconnection, LLC	Not Applicable
Kirby, Jim	PJM Interconnection, LLC	Not Applicable
Perera, Asanga	PJM Interconnection, LLC	Not Applicable
Souder, Rich	PJM Interconnection, LLC	Not Applicable
Ward, Mike	PJM Interconnection, LLC	Not Applicable
Weiss, Glenn	PJM Interconnection, LLC	Not Applicable
Xu, Xu	PJM Interconnection, LLC	Not Applicable
Zadlo, Thomas	PJM Interconnection, LLC	Not Applicable
Watson, Mark	Platts	Not Applicable
DeNavas, Joe	Potomac Electric Power Company	Electric Distributor
Teo, Kathrina	Power Costs Inc	Not Applicable
Santarelli, Paul	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Greening, Michele	PPL EnergyPlus, L.L.C.	Transmission Owner
Hyzinski, Tom	PPL EnergyPlus, L.L.C.	Transmission Owner



Kazerooni, Hamid	PPL EnergyPlus, L.L.C.	Transmission Owner
Piascik, Thomas	Primary Power LLC	Other Supplier
Citrolo, John	PSEG Energy Resources and Trade LLC	Transmission Owner
La Falce, Michael	PSEG Energy Resources and Trade LLC	Transmission Owner
Sock, Bryan	Public Service Electric & Gas Company	Transmission Owner
Heizer, Fred	Public Utilities Commission of Ohio	Not Applicable
Jostworth, Kimberly	RBC Energy Services LP	Other Supplier
Jasani, Sachin	Red Wolf Energy Trading, LLC	Other Supplier
Hoatson, Tom	Riverside Generating, LLC	Other Supplier
Sudhakara, Raghu	Rockland Electric Company	Transmission Owner
Heidorn, Rich	RTO Insider	Not Applicable
Jwanier, David	RTO Insider	Not Applicable
Binder, Gerry	SESCO Enterprises LLC	Other Supplier
Peebles, Andy	Shell Energy North America (US), LP	Other Supplier
Trevino, Rita	Siemens Industry, Inc.	Other Supplier
Rohrbach, John	Southern Maryland Electric Cooperative	Electric Distributor
Batta, Mike	Virginia Electric & Power Company	Transmission Owner
Slade Jr. (ES-vapwr), Louis	Virginia Electric & Power Company	Transmission Owner
Wilmoth, Emily	Virginia Electric & Power Company	Transmission Owner
Irwin-Wedbush, Craig	Wedbush Securities	Not Applicable
Unknown	XO Energy MA, LP	Other Supplier

1. ADMINISTRATION

The Committee approved the Agenda and the minutes of the March 5, 2014 MIC meeting with no objections or abstentions. Ms. Laura Walter, PJM, gave an update on adjustments affecting Balancing Operating Reserve charges, reviewed the work plan, and noted that PJM slides and a statement presented at the FERC have been posted.

2. MEASUREMENT AND VERIFICATION FOR RESIDENTIAL DEMAND RESPONSE IN ENERGY AND CAPACITY MARKETS PROBLEM STATEMENT

Ms. Shira Horowitz, PJM, presented a problem statement related to reviewing measurement and verification. **The committee endorsed the problem statement with 0 objections and 3 abstentions.** The committee will be asked to endorse the issue charge at the May MIC.

3. REVISIONS TO DEFINITION OF ZONAL BASE LOAD (OA 1.3.39)

Mr. Brian Chmielewski, PJM, will present revisions to the definition of zonal base load. The vote on this issue was delayed as the committee wanted to revisit the word “normal” as not being specific enough, as it pertained to normal operating conditions. PJM will discuss a change internally and bring back for endorsement at the next MIC.

4. CLARIFICATION TO TARIFF AND MANUALS FOR SYNCHRONIZED RESERVE MARKET PENALTY CHARGES

Ms. Suzanne Coyne, PJM, presented proposed clarifications to the Tariff/OA, Manuals 11 and 28 to account for aggregate response when determining Synchronized Reserve penalty charges for Tier 2 resources, and other



clarifications to ensure accuracy of terms used in the Tariff and OA. **The committee endorsed the revisions by acclamation with 0 objections 0 abstentions**

5. REVISIONS TO MANUAL 28: OPERATING AGREEMENT ACCOUNTING

Ms. Suzanne Coyne, PJM, presented a first read of additional details and cleanup items. The committee will be asked to endorse the revisions in May.

6. QUALIFIED TRANSMISSION UPGRADE CREDIT ISSUE

The committee continued with the Consensus Based Issue Resolution (CBIR) process and identified stakeholder interests and started developing design components. Participants are requested to send potential solutions or packages to laura.walter@pjm.com by April 28 for discussion at the May MIC.

7. RPM CHANGES APPLICABLE TO THE UPCOMING BASE RESIDUAL AUCTION

Mr. Paul Scheidecker, PJM, presented RPM changes applicable and potentially applicable to the upcoming Base Residual Auction.

8. DEMAND RESPONSE EXISTING MW PROPOSED MANUAL CHANGE

Mr. Pete Langbein, PJM, presented a first read of proposed Manual 18 changes from the Demand Response Subcommittee that would allow a curtailment service provider to add additional MWs as “existing” for offer into RPM auction through an exception process if the nominated amount on the registration is low because the peak load contribution is low due to a load data anomaly. The committee will be asked to endorse the revisions in May.

9. DEMAND RESPONSE DEFICIENCY LETTER

Mr. Pete Langbein, PJM, reviewed the deficiency letter and proposed tariff revisions which will allow DR capacity compliance to be aggregated by “Capacity Aggregation Area” and following define “Load Management Event” in case FERC orders PJM to make a compliance filing to incorporate these changes into the tariff..

10. INTERMITTENT RESOURCES TASK FORCE CHARTER UPDATE

Mr. Ken Schuyler, PJM, presented an updated charter for the IRTF. The committee will be asked to endorse the revisions in May.

11. ENERGY / RESERVE PRICING & INTERCHANGE VOLATILITY

Ms. Lisa Morelli, PJM, presented an update on solution packages being developed by the Energy / Reserve Pricing & Interchange Volatility special sessions of the MIC. The committee will be asked for endorsement of the proposed solutions at the May meeting.

12. RESOURCE FLEXIBILITY SURVEY RESULTS

Mr. Eric Hsia, PJM, presented an update on the resource flexibility survey results.

13. INTERREGIONAL COORDINATION UPDATE



Ms. Rebecca Carroll, PJM, presented an update on interregional coordination.

14. BILLING LINE ITEM TRANSFERS

Mr. Hal Loomis, PJM, explained upcoming changes to credit exposure measurement and corresponding credit requirements for those members that are engaged in billing line item transfers.

15. MEASUREMENT OF CREDIT EXPOSURE

Mr. Hal Loomis, PJM, explained upcoming improvements to the internal measure of current exposure.

16. POTENTIAL DEMAND BID VOLUME LIMITS

Mr. Hal Loomis, PJM, provided a presentation of the historical peak analysis of demand bids.

17. FREQUENTLY MITIGATED UNITS (FMU)

Ms. Adrien Ford, PJM reviewed survey results as part of the first read of the proposed solution from on Frequently Mitigated Units.

18. MEMBER DEFAULT DISCUSSION

Ms. Michelle Souder, PJM, presented conforming Manual updates to incorporate communications surrounding load reallocation due to member default. The committee will be asked for endorsement of the proposed solutions at the May meeting.

19. SPECIAL PROTECTION SCHEME (SPS) AT JENKINS

Mr. Paul D. Santarelli, PPL, reviewed a new Special Protection Scheme (SPS) at Jenkins.

20. CALPINE SPECIAL PROTECTION SCHEME UPDATE

Mr. Thomas M. Piascik, Tangibl LLC, reviewed a new Special Protection Scheme (SPS).

INFORMATIONAL SECTION

21. MANUAL 3: TRANSMISSION OPERATIONS UPDATE

A presentation related to updates to Manual 3: Transmission Operations is posted for information.

[Item 21A – Manual 3 Revision Presentation](#)

[Item 21B – Manual 3 Redline](#)

22. MANUAL 3: TRANSMISSION OPERATIONS UPDATE: SECTIONALIZING SCHEMES

A presentation related to updates to Manual 3 on Sectionalizing Schemes is posted for information.



[Item 22A - New Sectionalizing Schemes to Manual 03: Transmission Operations](#)

23. THE QUARTERLY NET ENERGY METERING REPORT

The *Quarterly Net Energy Metering Report* is posted for information.

[Item 23A - PJM Net Energy Metering Quarterly Review](#)

24. REPORT ON MARKET OPERATIONS

The *Report on Market Operations* will be posted to the [MIC Website](#).

25. MIC WORKING SESSION UPDATES

FTR Forfeiture

A MIC working session was held on March 18, 2014.

[20140402 FTR Forfeiture Agenda](#)

The next meeting will be on April 28, 2014. Materials will be posted to the [MIC web site](#).

[Issue Tracking: FTR Forfeiture](#)

Frequently Mitigated Units & RPM Supply Curve Transparency

A MIC working session was held on April 2, 2014.

[20140402 FMU and RPM Supply Curve Agenda](#)

[Issue Tracking: Frequently Mitigated Unit Adders](#)

[Issue Tracking: RPM Supply Curve Adequacy](#)

Energy Scheduling Issue

The Energy Scheduling (MIC) meetings have been put on hold until April/May 2014 to allow work on related issues through the PJM/MISO Joint and Common Market Initiative. PJM will announce new meeting dates in late April or early May 2014 as appropriate. Meeting materials will be posted to the [MIC web site](#).

[Issue Tracking: Energy Scheduling Issue](#)

Energy/Reserve Pricing & Interchange Volatility

A MIC working session was held on March 17, 2014.

[20140317 Energy/Reserve Pricing and Interchange Volatility Agenda](#)

[Issue Tracking: Energy/Reserve Pricing & Interchange Volatility](#)

26. SUBCOMMITTEE AND TASK FORCE UPDATES

Market Settlements Subcommittee (MSS)

The MSS met on March 18, 2014. Meeting materials are available at:

[20140318 MSS Agenda](#)

The next meeting is scheduled for April 22, 2014. Meeting materials will be posted to the [MSS web site](#).

Credit Subcommittee (CS)



The CS met on February 4, 2014. Meeting materials are available at:

[20140404 CS Agenda](#)

The next meeting is scheduled for May 6, 2014. Meeting materials will be posted to the [CS website](#).

Demand Response Subcommittee (DRS)

The DRS met on March 20, 2014. Meeting materials are available at:

[20140320 DRS Agenda](#)

The next meeting is scheduled for April 23, 2014. Meeting materials will be posted to the [DRS web site](#).

Intermittent Resources Task Force (IRTF)

The IRTF met on March 17, 2014. Meeting materials are available at:

[20140317 IRTF Agenda](#)

The next meeting is scheduled for May 21, 2014. Meeting materials will be posted to the [IRTF web site](#).

27. FUTURE MEETING DATES

May 7, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
June 4, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
July 9, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
August 6, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
September 3, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
October 8, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
November 5, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA
December 3, 2014	9:30 AM	PJM Interconnection - Valley Forge, PA

Author: Laura Walter
DM#: 788214