



Special Session of the Market Implementation Committee: Variable Operations and Maintenance Costs PJM Conference & Training Center, Audubon, PA November 15, 2017 2:30 p.m. – 4:00 p.m. EPT

Administration

1. Ms. Christina Stotesbury & Mr. Jeff Schmitt, PJM, provided announcements and reviewed the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines.

Opportunity Cost Calculator

2. Ms. Laura Walter, PJM, provided an update on the Opportunity Cost Calculator. Additional information on the Opportunity Cost Calculator will be presented at the January 16 special session.

Variable Operations & Maintenance Costs

3. VOM Costs Matrix

Mr. Tom Hauske, PJM, led the discussion to propose final solution options for consideration, and build package proposals for endorsement.

4. Q & A and Future Requests

Mr. Jeff Schmitt, PJM, was available to answer questions, and stakeholders were given an opportunity to request additional items for discussion.

Future Meeting Dates

January 16, 2018 1:00 – 3:30 p.m. PJM Conference & Training Center

In-Person Attendees

PJM Interconnection, LLC	Not Applicable
PJM Interconnection, LLC	Not Applicable
PJM Interconnection, LLC	Not Applicable
Tangibl	Not Applicable
Old Dominion Electric Cooperative	Electric Distributor
PJM Interconnection, LLC	Not Applicable
PJM Interconnection, LLC	Not Applicable
PPGI Fund A/B Development, LLC	Generation Owner
PJM Interconnection, LLC	Not Applicable
PJM Interconnection, LLC	Not Applicable
GT Power Group	Not Applicable
	PJM Interconnection, LLC PJM Interconnection, LLC Tangibl Old Dominion Electric Cooperative PJM Interconnection, LLC PJM Interconnection, LLC PPGI Fund A/B Development, LLC PJM Interconnection, LLC PJM Interconnection, LLC

WebEx Attendees

Adams, Chris	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ainspan, Malcolm	Energy Curtailment Specialists, Inc.	Other Supplier
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Benchek, Jim	FirstEnergy Solutions Corp.	Transmission Owner

PJM©2017 1





Bolan, Martin Bonanni, John Borgatti, Michael Bowring, Joe Bricklin, Brian Britt, Debbie Brodbeck, John Brown, Rich Canchi, Devendra Canter, David Carmean, Gregory Chintapalli, Raj

Ciabattoni, Joseph Cocco, Michael Cox, EdwardP Coyle, Billy Croop, Danielle Crystle, Gil Currier, Jeffrey Davis, James DeLosa, Joseph Depillo, Raymond Dillon, Matthew Dirani, Rami

Dolan, Ryan Dugan, Chuck Feierabend, Rick Filomena, Guy Fitch, Neal A.

Fitzgerald, Evan Garnett, Bryan

Gebolys, Debbie Genuario, Gabrielle

Gilani, Rehan Glazer, Craig Gouda, John Greiner, Gary Hanser, Erik Haynes, Greg Helms, Joseph

Hoatson, Tom Hohenshilt, Jennifer Holdbrook, Ruth Holland, Risa FirstEnergy Solutions Corp. NRG Power Marketing LLC Gabel and Associates Monitoring Analytics, LLC PJM Interconnection, LLC

North Carolina Electric Membership Corporation

EDP Renewables North America, LLC

PJM Interconnection, LLC Monitoring Analytics, LLC Appalachian Power Company Organization of PJM States

Galt Power Inc.

PJM Interconnection, LLC

Old Dominion Electric Cooperative Appalachian Power Company Dominion Virginia Power PJM Interconnection, LLC UGI Development Company Dominion Virginia Power Dominion Energy Marketing, Inc.

DE Public Service Commission

PSEG Energy Resources and Trade LLC

UGI Development Company PJM Interconnection, LLC AEP Energy Partners, Inc.

East Kentucky Power Cooperative, Inc.

Dominion Virginia Power

Customized Energy Solutions, Ltd.

NRG Power Marketing LLC

North Carolina Electric Membership Corporation

Duke Energy Ohio, Inc.

Public Utilities Commission of Ohio (The)

PJM Interconnection, LLC ConEdison Energy, Inc. PJM Interconnection, LLC

Old Dominion Electric Cooperative
PSEG Energy Resources and Trade LLC
Michigan Public Service Commission

Energy Authority, Inc. (The)

Rainbow Energy Marketing Corporation

Riverside Generating, LLC Talen Energy Marketing, LLC

Northern Virginia Electric Cooperative

PJM Interconnection, LLC

Transmission Owner

Generation Owner

Not Applicable

Not Applicable

Not Applicable

Electric Distributor

Other Supplier Not Applicable

Not Applicable

Transmission Owner

Not Applicable

Other Supplier

Not Applicable

Electric Distributor
Transmission Owner

Not Applicable

Not Applicable

Transmission Owner

Not Applicable Generation Owner

Not Applicable

Other Supplier

Generation Owner

Not Applicable Other Supplier

Transmission Owner

Not Applicable Not Applicable

Generation Owner Flectric Distributor

Transmission Owner

Not Applicable

Not Applicable

Other Supplier Not Applicable

Electric Distributor

Other Supplier Not Applicable

Other Supplier

Other Supplier

Other Supplier Generation Owner

Electric Distributor Not Applicable

PJM©2017 2





Horstmann, John Hsia, Eric Hudis, Gabriella Hyatt, John Hyzinski, Tom Jardot, Gina Jett, William

Jett, William Jha, Monica Johnson, Carl Kaczanowski, Marek

Keeney, Jerry Kelly, Stephen Kenney, Susan Kimmel, David Kingston, Amber Kinser, Cynthia Kogut, George Leopold, Chris

Liu McKenna, Phyllis Lokhandwalla, Faizmin

Long, Matt
Lowe, Connie
Mabry, David
Mack, Amanda
Mariam, Yohannes
Marton, David
Meridionale, Kevin
Midgley, Sharon
Nawaz, Zainab

Nix, Emma Norton, Chris Ondayko, Brock Patten, Kevin Peoples, John Poulos, Greg Pratzon, David Price, Ruth Rajan, Abhijit

Reis, Raffi Ripperda, Amanda Ritchie, Sandra Rohrbach, John

Rushing, Nathan

Rayhorn, Carolyn

Dayton Power & Light Company (The)

PJM Interconnection, LLC Jersey Green Energy LLC Monitoring Analytics, LLC

GT Power Group

Essential Power Rock Springs, LLC Duke Energy Business Services LLC

PCI

Customized Energy Solutions, Ltd.*
Baltimore Gas and Electric Company
Dynegy Marketing & Trade, LLC
Brookfield Energy Marketing LP
PJM Interconnection, LLC
PJM Interconnection, LLC

North Carolina Electric Membership Corporation

Tennessee Department of Agriculture

New York Power Authority Appalachian Power Company

Public Service Electric & Gas Company

Dynegy

AEP Energy Partners, Inc.
Dominion Virginia Power
McNees Wallace & Nurick LLC

NextEra Energy Power Marketing, LLC Office of the Peoples Counsel for DC

FirstEnergy Solutions Corp.

Jersey Central Power & Light Company Exelon Business Services Company, LLC

NJ Board of Public Utilities
PJM Interconnection, LLC
American Municipal Power, Inc.
Appalachian Power Company
Appalachian Power Company
Duquesne Light Company

CAPS

GT Power Group

Division of the Public Advocate of the State of DE

Dominion Resources Dominion Virginia Power

Other

Illinois Municipal Electric Agency PJM Interconnection, LLC

Southern Maryland Electric Cooperative

CPV Maryland, LLC

Transmission Owner

Not Applicable Other Supplier Not Applicable Not Applicable Transmission Owner

Generation Owner
Not Applicable

Not Applicable
Transmission Owner
Generation Owner
Other Supplier
Not Applicable
Not Applicable
Electric Distributor
Not Applicable

Other Supplier
Transmission Owner
Transmission Owner
Generation Owner
Other Supplier
Not Applicable
Not Applicable
Not Applicable
Generation Owner
End User Customer
Transmission Owner
Transmission Owner

Transmission Owner
Not Applicable
Not Applicable
Electric Distributor
Transmission Owner
Transmission Owner
Transmission Owner
Not Applicable
Not Applicable
End User Customer
Not Applicable
Not Applicable
Not Applicable
Not Applicable

Not Applicable Electric Distributor Generation Owner

3

Electric Distributor

Not Applicable

PJM©2017





Saini, Ishwar Sasser, Jonathan Scarpignato, David Schmatz, Peter Schum, Alice Shanker, Roy Shannon, Gary Singer, Chad Smith, Kara Snyder, Sue Sweeney, Rory Tangirala, Subha Tyler, Catherine Vogel, Anne Ward, Michael Welty Jr., Peter Williams, Amber

Wilmoth, Emily

Macquarie Energy LLC
Customized Energy Solutions, Ltd.*
Calpine Energy Services, L.P.
PSEG Energy Resources and Trade LLC
Illinois Municipal Electric Agency
H.Q. Energy Services (U.S.), Inc.
Appalachian Power Company
Fellon McCord
Buckeye Power, Inc.
PJM Interconnection, LLC
RTO Insider

Monitoring Analytics
AEP Appalachian Transmission Company, Inc.
PJM Interconnection, LLC
Easton Utilities Commission

New York State Electric & Gas Corporation

Dominion Virginia Power

ABB

Other Supplier Not Applicable **Generation Owner Transmission Owner Electric Distributor** Other Supplier **Transmission Owner** Not Applicable **Electric Distributor** Not Applicable Not Applicable Not Applicable Not Applicable **Transmission Owner** Not Applicable **Electric Distributor** Other Supplier

Not Applicable

Provide feedback on the progress of this group: <u>Facilitator Feedback Form</u>
Visit <u>learn.pjm.com</u>, an easy-to-understand resource about the power industry and PJM's role.

PJM©2017 4