

**Carbon Pricing Senior Task Force (CPSTF)
PJM Conference and Training Center
January 14, 2020
9:00 a.m. – 2:00 p.m. EPT**

Administration (9:00-9:05)

1. Ms. Jen Tribulski and Ms. Suzanne Coyne provided welcome, announcements, and review of the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines Text. Stakeholders approved the draft minutes from the November 15, 2019 meeting.

Work Plan (9:05-9:10)

2. Ms. Suzanne Coyne reviewed the Carbon Pricing Senior Task Force stakeholder process Stage 1 work plan.

Education and Analysis (9:10-1:50)

3. PJM Study
 - A. Dr. Emanuel Bernabeu, PJM, provided an executive summary of the purpose and findings of the PJM study.
 - B. Mr. Gary Helm, PJM, reviewed the assumptions, methodology, and framework of the PJM carbon study.
 - C. Ms. Natalie Tacka and Dr. Anthony Giacomoni, PJM, presented results from the PJM carbon study.

Future Agenda Items (1:50-2:00)

4. Ms. Jen Tribulski reviewed meeting action items and discussed future agenda items. The PJM Study team will review the requests and provide additional results and information at the next meeting.
 - Stakeholders requested PJM study the following carbon pricing regions:
 - NJ, MD, DE, VA
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 - Additional data requests included results by state or zone, production cost results, and impacts to out-of-market payments.
 - Stakeholders also requested additional information on the example problem formulations for the potential leakage mitigation mechanisms.

Stakeholders can submit additional feedback using the [form](#) on the CPSTF page.

Future Meeting Dates

February 26, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
April 2, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
May 19, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx
June 25, 2020	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: Suzanne Coyne

In-Person Meeting Attendees

Tribulski, Jennifer (Facilitator)	PJM Interconnection, LLC	Not Applicable
Coyne, Suzanne (Secretary)	PJM Interconnection, LLC	Not Applicable
Barker, Jason	Exelon Business Services Company, LLC	Transmission Owner
Bernabeu, Emanuel	PJM Interconnection	Not Applicable
Borgatti, Mike	Gabel and Associates	Not Applicable
Callaghan, Chris	PJM Interconnection	Not Applicable
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
DeLosa, Joe	New Jersey Board of Public Utilities	Not Applicable
Dumitriu, Nicolae	PJM Interconnection	Not Applicable
Endress, Eric	PJM Interconnection	Not Applicable
Foladare, Kenneth	Tangibl	Not Applicable
Foley, Imelda	Environmental Defense Fund	Not Applicable
Giacomoni, Anthony	PJM Interconnection	Not Applicable
Helm, Gary	PJM Interconnection	Not Applicable
Hilderbrand, Rebecca	PJM Interconnection	Not Applicable
Hsia, Eric	PJM Interconnection	Not Applicable
Hoatson, Tom	West Deptford Energy, LLC	Generation Owner
Hyatt, John	Monitoring Analytics	Not Applicable
Jayachandran, Marilyn	PJM Interconnection	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.	Not Applicable
Marzewski, Skyler	Monitoring Analytics	Not Applicable
Molinda, John	American Nuclear Society – Pittsburgh Section	Not Applicable
O'Connell, Robert	PPGI Fund A/B Development, LLC.	Generation Owner
Robinson, Becky	Vistra Energy	Not Applicable
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Scheirer, Alexandra	PJM Interconnection	Not Applicable
Sweeney, Rory	GT Power Group	Not Applicable
Tacka, Natalie	PJM Interconnection	Not Applicable
Toomey, Megan	Talen Energy Marketing, LLC	Generation Owner
Widom, Stuart	PJM Interconnection	Not Applicable
Zakaria, Rama	Environmental Defense Fund	Not Applicable

WebEx Attendees

Abdur-Rahman, Muhsin	ABB	Not Applicable
Anderson, Jared	SP Global	Not Applicable

Baker, Scott	PJM Interconnection	Not Applicable
Barry, Chris	NJ Dept. of Environmental Protection	Not Applicable
Book, Hayley	Pennsylvania Public Utility Commission	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Generation Owner
Brown, David	NJ Board of Public Utilities	Not Applicable
Bruce, Susan	McNees Wallace & Nurick LLC	Not Applicable
Campbell, Bruce	Enerwise Global Technologies, LLC	Other Supplier
Canter, David	Appalachian Power Company	Transmission Owner
Carmean, Gregory	OPSI	Not Applicable
Chandler, Kent	Kentucky Public Service Commission	Not Applicable
Chen, Yang	PJM Interconnection	Not Applicable
Crystle, Gil	UGI Development Company	Generation Owner
Davis, James	Dominion Energy Generation Marketing, Inc.	Generation Owner
Dolan, James	PJM Interconnection	Not Applicable
Domian, Christin	Duquesne Light Company	Transmission Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
fan, zhenyu	PJM Interconnection	Not Applicable
Fazio, Danielle	Engelhart CTP (US) LLC	Other Supplier
Feller, John	PPL Electric Utilities Corp. dba PPL Utilities (TO)	Transmission Owner
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Garnett, Bryan	Duke Energy Ohio, Inc.	Transmission Owner
Gilani, Rehan	ConEdison Energy, Inc.	Other Supplier
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Guntle, Vince	American PowerNet Management, L.P.	End-Use Customer
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Hasan, Prusha	Advanced Energy Economy	Not Applicable
Hastings, David	Market Interconnection Consulting Services, LLC	Not Applicable
Heinle, Frederick	Office of the People's Counsel for the District of Columbia	End-Use Customer
Heisey, Bradley	Tenaska Pennsylvania Partners, LLC	Generation Owner
Herel, Suzanne	PJM Interconnection	Not Applicable
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horning, Lynn Marie	Customized Energy Solutions, Ltd.	Not Applicable
Horton, Dana	Appalachian Power Company	Transmission Owner
Hyzinski, Tom	GT Power Group	Not Applicable
Islam, Lubaba	Rockland Electric Company	Transmission Owner
Janicki, Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Jayachandran, Marilyn	PJM Interconnection	Not Applicable
Jett, Bill	Duke Energy Business Services LLC	Transmission Owner

Jha, Monica	PCI	Not Applicable
Johnson, Carl	Customized Energy Solutions, Ltd.	Not Applicable
Kazerooni, Hamid	Invenergy, LLC	Generation Owner
Kelly, Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kimmel, David	PJM Interconnection	Not Applicable
Kozhuharov, Dimitar	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
LaRocque, Matthew	PJM Interconnection	Not Applicable
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Lu, Chenchao	PJM Interconnection	Not Applicable
Martin, Valerie	FERC	Not Applicable
Marzewski, Skyler	Monitoring Analytics	Not Applicable
McGraw, Dan	Carbon Pulse	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Mooney, Jeffrey	FirstEnergy Solutions Corp.	Transmission Owner
Murphy, Shaun	PJM Interconnection	Not Applicable
Murray, Kevin	McNees Wallace & Nurick LLC	Not Applicable
O'Connor, Siobhan	Energy Authority, Inc. (The)	Other Supplier
Ondayko, Brock	AEP Energy Partners, Inc.	Transmission Owner
Oppel, Laurie	Balico, LLC	Not Applicable
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Pelletier, Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Peoples, John	Duquesne Light Company	Transmission Owner
Pilong, Melissa	PJM Interconnection	Not Applicable
Poulos, Greg	CAPS	Not Applicable
Price, Ruth Ann	Division of the Public Advocate of the State of Delaware	End-Use Customer
Rinkoski, Marie	Constellation Energy Projects & Services Group	Other Supplier
Saha, Amlan	MJ Bradley	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.	Not Applicable
Scheidecker, Paul	PJM Interconnection	Not Applicable
Schuyler, Ken	PJM Interconnection	Not Applicable
Scorsolini, Mark	PSEG Energy Resources & Trade LLC	Other Supplier
Shanker, Roy	East Coast Power Linden Holdings, LLC	Generation Owner
Shobe, William	University of Virginia	Not Applicable
Smith, Christen	RTO Insider	Not Applicable
Sotkiewicz, Paul	E-Cubed Policy Associates	Not Applicable
Stern, Alexander	Public Service Electric & Gas Company	Transmission Owner
Sturgeon, John	Duke Energy Business Services LLC	Transmission Owner
Swalwell, Brad	Tangent Energy Solutions, Inc	Other Supplier
Wadsworth, Joseph	Vitol Inc.	Other Supplier



Minutes

Watson, Betty
Whitehead, Jeff
Willey, Amy
Williams, Fernie
Wilson, James
Wisniewski, Christian
Zevin, Avi

Affirmed Energy LLC
GT Power Group
Delaware Public Service Commission
East Kentucky Power Cooperative, Inc.
Wilson Energy Economics
DNREC - Division of Air Quality
New York University School of Law

Other Supplier
Not Applicable
Not Applicable
Transmission Owner
Not Applicable
Not Applicable
Not Applicable