

**Carbon Pricing Senior Task Force (CPSTF)**  
**PJM Conference and Training Center**  
**July 26, 2019**  
**9:00 a.m. – 3:00 p.m. EPT**

## Administration (9:00-9:15)

1. Ms. Jen Tribulski and Ms. Suzanne Coyne provided the welcome, announcements, introductions, and review of the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines Text. Ms. Tribulski noted that the meeting would be recorded and asked if any there were any objections to PJM posting the recording. The task force had no objections.

## Review of Problem Statement and Issue Charge (9:15-9:45)

2. Mr. Michael Borgatti, Gable Associates, led a review of the Carbon Pricing Senior Task Force opportunity statement and issue charge approved at the April 25, 2019 Markets and Reliability Committee meeting.
3. Ms. Jen Tribulski reviewed the stakeholder process change approved at the May 2019 Members Committee meeting which allows for an issue charge to serve as the charter. Ms. Tribulski asked if there were any objections to using this new process for the Carbon Pricing Senior Task Force charter. The task force had no objections. An updated Carbon Pricing Senior Task Force issue charge will be posted.

## Education and Analysis Work Plan (9:45-10:00)

4. Ms. Suzanne Coyne reviewed the Carbon Pricing Senior Task Force stakeholder process Stage 1 work plan and methodology for soliciting feedback on education. Ms. Coyne notified the group that a form will be added to the [CPSTF page on pjm.com](#) for stakeholders to provide feedback on education topics, speakers, and general questions.

## Education (10:00-2:15)

### 5. Carbon Pricing Concepts (10:00–11:45)

Mr. Dallas Burtraw, Resources for the Future, provided education on carbon pricing concepts.

### Lunch (11:45-12:45)

### 6. State Energy & Environmental Policy in PJM (12:45-1:45)

- A. Ms. Emma Nix, PJM, provided education on state energy and environmental policy in PJM. (12:45-1:15)
- B. Mr. Ken Schuyler, PJM, provided education on Renewable Portfolio Standards, PJM Environmental Information Services (EIS), and the Generation Attribute Tracking System. (1:15-1:45)

## 7. PJM Study (1:45-2:15)

Mr. Gary Helm, PJM, provided an overview of the PJM carbon pricing study.

### Action Items (2:15-2:30)

8. Ms. Suzanne Coyne and Ms. Jen Tribulski discussed action items.

### Future Meeting Dates

August 26, 2019	1:00 p.m.	PJM Conference & Training Center/ WebEx
October 11, 2019	1:00 p.m.	PJM Conference & Training Center/ WebEx
November 15, 2019	1:00 p.m.	PJM Conference & Training Center/ WebEx
December 20, 2019	9:00 a.m.	PJM Conference & Training Center/ WebEx

Author: Suzanne Coyne

### In-Person Meeting Attendees

Tribulski, Jen (Facilitator)	PJM Interconnection, LLC	Not Applicable
Coyne, Suzanne (Secretary)	PJM Interconnection, LLC	Not Applicable
Bernabeu, Emanuel	PJM Interconnection, LLC	Not Applicable
Borgatti, Michael	Gabel and Associates	Not Applicable
Carroll, Rebecca	PJM Interconnection, LLC	Not Applicable
Crystle, Gil	UGI Development Company	Transmission Owner
D'Alessandris, Lou	FirstEnergy Solutions Corp.	Transmission Owner
Davis, James	Dominion Energy Marketing, Inc.	Generation Owner
Foladare, Kenneth	Tangibl	Not Applicable
George, Brian	Federal Energy Regulatory Commission	Not Applicable
Giacomoni, Anthony	PJM Interconnection, LLC	Not Applicable
Greening, Michele	PJM Interconnection, LLC	Not Applicable
Helm, Gary	PJM Interconnection, LLC	Not Applicable
Holland, Cynthia	New Jersey Board of Public Utilities	Not Applicable
Horton, Dana	Appalachian Power Company	Transmission Owner
Huang, Jame	Rockland Electric Company	Transmission Owner
Jayachandran, Marilyn	PJM Interconnection, LLC	Not Applicable
Kogut, George	New York Power Authority	Other Supplier
Litchfield, Matthew	CPV Shore, LLC	Generation Owner
Lu, Chenchao	PJM Interconnection, LLC	Not Applicable
Midgley, Sharon	Exelon Business Services Company, LLC	Transmission Owner
Nix, Emma	PJM Interconnection, LLC	Not Applicable
O'Connell, Robert	PPGI Fund A/B Development, LLC	Generation Owner

Robertson, Kathleen	Exelon Business Services Company, LLC	Transmission Owner
Robinson, Becky	Vistra Energy	Not Applicable
Robinson, Liz	Other	Other Supplier
Rutigliano, Tom	Achieving Equilibrium LLC	Other Supplier
Scarpignato, David	Calpine Energy Services, L.P.	Generation Owner
Schuyler, Ken	PJM Interconnection, LLC	Not Applicable
Scorsolini, Mark	PSE&G	Other Supplier
Stern, Alexander	Public Service Electric & Gas Company	Transmission Owner
Sweeney, Rory	GT Power Group	Not Applicable
Tacka, Natalie	PJM Interconnection, LLC	Not Applicable
Zakaria, Rama	EDF - Environmental Defense Fund	Not Applicable

## WebEx Attendees

Barry, Robert	Dep NJ.Gov	Other Supplier
Benчек, Jim	American Transmission Systems, Inc.	Transmission Owner
Bernstein, Matthew	PJM Interconnection, LLC	Not Applicable
Bialek, Sylwia	NYU	Not Applicable
Bodnar, Mike	ACES	Not Applicable
Boyle, Stephen	Merion Energy Solutions	Not Applicable
Brodbeck, John	EDP Renewables North America, LLC	Other Supplier
Brown, David	NJ Board of Public Utilities	Not Applicable
Bruce, Susan	McNees Wallace & Nurick LLC	Not Applicable
Bruno, Joshua	PJM Interconnection, LLC	Not Applicable
Bruno, Pat	PJM Interconnection, LLC	Not Applicable
Burdis, Tim	PJM Interconnection, LLC	Not Applicable
Callaghan, Chris	PJM Interconnection, LLC	Not Applicable
Canter, David	Appalachian Power Company	Transmission Owner
Carmean, Gregory	OPSI	Not Applicable
Chandler, Kent	Office of the Attorney General, Kentucky	End User Customer
Chen, Jennifer	Natural Resources Defense Council	Not Applicable
Chen, Yang	PJM Interconnection, LLC	Not Applicable
Chintapalli, Raj	BP Energy Company	Other Supplier
Colbert, Cathleen	NRG Power Marketing LLC	Other Supplier
Covello, Philip	Evercore ISI	Not Applicable
Croop, Danielle	PJM Interconnection, LLC	Not Applicable
Dailey, Michael	Northern Virginia Electric Cooperative	Electric Distributor
DeLosa, Joseph	DE Public Service Commission	Not Applicable
Dennis, Jeff	Advanced Energy Economy Inc.	Not Applicable

Dillon, Matthew	UGI Development Company	Generation Owner
Domian, Christin	Duquesne Light Company	Transmission Owner
Dugan, Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fan, Zhenyu	PJM Interconnection, LLC	Not Applicable
Fabiano, Janell	PJM Interconnection, LLC	Not Applicable
Fazio, Danielle	Noble Americas Gas & Power Corp.	Other Supplier
Feller, John	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fitch, Neal	NRG Power Marketing, LLC	Generation Owner
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor
Friedberg, Julie	Kindle Energy	Other Supplier
Frye, Samuel	Mercuria Energy America, Inc.	Other Supplier
Gahimer, Michael	IN Office of Utility Consumer Counselor	End User Customer
Garnett, Bryan	Duke Energy Business Services LLC	Transmission Owner
Genuario, Gabrielle	PJM Interconnection, LLC	Not Applicable
Glazer, Craig	PJM Interconnection, LLC	Not Applicable
Gluck, Jim	PJM Interconnection, LLC	Not Applicable
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Hammons, Jeffrey	Environmental Law & Policy Center	Not Applicable
Hanser, Erik	Michigan Public Service Commission	Not Applicable
Hastings, David	Market Interconnection Consulting Services (MICS)	Not Applicable
Heisey, Bradley	Wolf Hills Energy, LLC	Generation Owner
Herel, Suzanne	PJM Interconnection, LLC	Not Applicable
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horning, Lynn	Customized Energy Solutions, Ltd.	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hsia, Eric	PJM Interconnection, LLC	Not Applicable
Hudis, Gabriella	Jersey Green Energy LLC	Other Supplier
Hyatt, John	Monitoring Analytics, LLC	Not Applicable
Hyzinski, Tom	GT Power Group	Not Applicable
Janicki, Diane	Boston Energy Trading & Marketing, LLC	Generation Owner
Johnson, Carl	Customized Energy Solutions, Ltd.	Not Applicable
Kilgallen, Kevin	Avangrid Renewables LLC	Generation Owner
Kelly, Stephen	Brookfield Energy Marketing LP	Other Supplier
Kettig, Bob	New Jersey Department of Environmental Protection	Not Applicable
Kimmel, David	PJM Interconnection, LLC	Not Applicable
Kozhuharov, Dimitar	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Lauritsen, Kim	Ontario Power Generation	Other Supplier
Liang-Nicol, Cecilia	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Long, Glenn	PJM Interconnection, LLC	Not Applicable

Luna, Tawnya	PJM Interconnection, LLC	Not Applicable
Mariam, Yohannes	Office of the Peoples Counsel for the District of Columbia	End User Customer
Marinelli, Rich	Public Service Electric & Gas Company	Transmission Owner
Marzewski, Skyler	Monitoring Analytics, LLC	Not Applicabe
Mauroschadt, Erich	PJM Interconnection, LLC	Not Applicable
McGraw, Daniel	Carbon Pulse	Not Applicable
Michael, Matthew	Ontario Power Generation	Other Supplier
Murphy, Shaun	PJM Interconnection, LLC	Not Applicable
Norton, Chris	American Municipal Power, Inc.	Electric Distributor
Ondayko, Brock	Appalachain Power Company	Transmission Owner
O'Neill, Jack	PJM Interconnection, LLC	Not Applicable
Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Pelletier, Eveline	Hydro-Quebec	Not Applicable
Pilong, Chris	PJM Interconnection, LLC	Not Applicable
Poulos, Greg	Consumer Advocates of PJM States	Not Applicable
Price, Ruth	Division of the Public Advocate of the State of Delaware	End User Customer
Roberts, Casey	Sierra Club	Not Applicable
Sandelier, Nicole	8minuteenergy Renewables	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.*	Not Applicable
Schreim, Morris	Maryland Public Service Commission	Not Applicable
Seide, Richard	Apex Clean Energy	Not Applicable
Shanker , Roy	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Smith, Jared		
Sotkiewicz, Paul	E-Cubed Policy Associates	Not Applicable
Stewart, Travis	Gable and Associates	Not Applicable
Suh, Jung	Calpine Energy Services, L.P.	Generation Owner
Swalwell, Brad	Tangent Energy Solutions, Inc.	Other Supplier
Tam, Simon	PJM Interconnection, LLC	Not Applicable
Thomas, Amber	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Vayda, Brian	Borough of Park Ridge, NJ	Electric Distributor
Ward, Adam	American Municipal Power, Inc.	Electric Distributor
Webster, John	Icetek.com	Other Supplier
Whitehead, Jeffrey	GT Power Group	Not Applicable
Willey, Amy	Delaware.gov	Not Applicable
Zevin, Avi	New York University	Not Applicable

Author: Suzanne Coyne