



# Carbon Pricing Senior Task Force (CPSTF) Final Report

November 2021

## Issue Creation

[Problem Statement](#) and [Issue Charge](#) brought forward by Eastern Generation, Public Service Electric & Gas, CPV Power Holdings, NextEra Energy Marketing, and Dayton Power & Light Company and approved at the April 25, 2019 Markets and Reliability Committee (MRC).

## Issue Summary

The [Carbon Pricing Senior Task Force \(CPSTF\)](#) was established to discuss and explore potential process or rule changes necessary to manage emissions leakage and integrate a regional or sub-regional carbon pricing mechanisms into PJM's energy market design, where appropriate.

Stage 1 of the key work activities included education on various topics as well as the review of PJM and other stakeholder and industry analyses and potential solutions. Educational topics included presentations by PJM and many others in the industry on carbon pricing concepts, the Regional Greenhouse Gas Initiative (RGGI), a review of RPS standards and goals around the PJM region, leakage mitigation efforts in other regions of the country, state/federal jurisdictional issues, a review of then-pending legislation around a clean energy standard, and development of cost-based offers in PJM and inclusion of emission-based costs in such offers. On the analysis side, PJM presented its study on carbon pricing (using high & low RGGI scenario prices) and potential leakage mitigation options. Other analyses and potential solution ideas were presented by MJB&A/EDF, Monitoring Analytics, Exelon, Vistra, and E3/EPISA. See here for [Leakage Mitigation Study Comparisons](#)

Stage 2 of the key work activities was targeted to include the development of a common set of rules to integrate carbon pricing and manage leakage, where appropriate. Stage 2 of the key work activities has not been initiated.

Number of Meetings and date range covering this topic: 16 from July 2019 through September 2021

Poll Results: Summer 2020 [polling](#) to solicit feedback on next steps

## Consensus-Based Issue Resolution Process – Not Applicable

## Appendix I: Supplemental Documents

CPSTF Page: <https://www.pjm.com/committees-and-groups/task-forces/cpstf>

Issue Tracking: <https://www.pjm.com/committees-and-groups/issue-tracking/issue-tracking-details.aspx?Issue=6d27f558-5540-485c-890c-856cfcc8a3a6>

Sunset Presentation: <https://www.pjm.com/-/media/committees-groups/committees/mrc/2021/20211020/20211020-item-07-carbon-pricing-senior-task-force-presentation.ashx>

FERC Docket: N/A



## Appendix II: PJM Participation

Facilitator: Jen Tribulski

Secretary: Suzanne Coyne

Advocate: N/A

Subject Matter Experts: Stephen Bennett, Emanuel Bernabeu, Anthony Giacomoni, Gary Helm, Eric Hsia, Ken Schuyler, Natalie Tacka

PJM Legal: Chen Lu

## Appendix III: Stakeholder Participation

Anders, David	PJM Interconnection	Not Applicable
Benchek, Jim	First Energy	Transmission Owner
Bernabeu, Emanuel	PJM Interconnection	Not Applicable
Book, Hayley	Pennsylvania Department of Environmental Protection	Not Applicable
Breidenbaugh, Aaron	Centrica Business Solutions Optimize, LLC	Other Supplier
Brodbeck, John	EDP Renewables North America LLC	Generation Owner
Bryson, Michael	PJM Interconnection	Not Applicable
Callen, Zac	Illinois Commerce Commission	Not Applicable
Canter, David	Appalachian Power Company	Transmission Owner
Carmean, Gregory	OPSI	Not Applicable
Chmielewski, Brian	PJM Interconnection	Not Applicable
Christopher, Mahila	Public Utilities Commission of Ohio (The)	Not Applicable
Coyle, Billy	Dominion Energy Generation Marketing, Inc.	Generation Owner
Crystle, Gil	UGI Development Company	Generation Owner
D'Alessandris, Lou	First Energy	Transmission Owner
Davis, David	Strata Solar	Not Applicable
Davis, James	Dominion Energy Generation Marketing, Inc.	Generation Owner
DeLosa, Joseph	New Jersey Board of Public Utilities	Not Applicable
Denby, Brett	Northern Virginia Electric Cooperative	Electric Distributor
Dillon, Matthew	UGI Development Company	Generation Owner
Dossin, Sophia	Invenergy, LLC	Generation Owner
Downs, Jere	PJM Interconnection	Not Applicable
Elkins, Rachel	American Transmission Systems, Inc.	Transmission Owner
Ericson, Christine	Illinois Commerce Commission	Not Applicable
Fan, Zhenyu	PJM Interconnection	Not Applicable
Filomena, Guy	Customized Energy Solutions, Ltd.	Not Applicable
Fink, Regan	Pine Gate Renewables	Not Applicable
Fink, Sari	American Wind Energy Association	Not Applicable
Foladare, Kenneth	Geenex Solar LLC	Other Supplier
Ford, Adrien	Old Dominion Electric Cooperative	Electric Distributor



Foster Cronin, Denise	East Kentucky Power Cooperative, Inc.	Transmission Owner
Fuess, Christian	White Pine Consulting, LLC	Not Applicable
Gibbons, Jaret	ARIPPA	Not Applicable
Good, Megan	Pennsylvania Public Utility Commission	Not Applicable
Granstrand, Luke	Dominion Energy Generation Marketing, Inc.	Generation Owner
Greening, Michele	PJM Interconnection	Not Applicable
Greiner, Gary	PSEG Energy Resources and Trade LLC	Other Supplier
Guntle, Vince	American PowerNet Management, L.P.	End-Use Customer
Hasan, Prusha	Advanced Energy Economy	Not Applicable
Hastings, David	Market Interconnection Consulting Services	Not Applicable
Heisey, Bradley	Tenaska Pennsylvania Partners, LLC	Generation Owner
Helm, Gary	PJM Interconnection	Not Applicable
Herel, Suzanne	PJM Interconnection	Not Applicable
Hohenshilt, Jennifer	Talen Energy Marketing, LLC	Generation Owner
Horning, Lynn Marie	Customized Energy Solutions, Ltd.	Not Applicable
Horstmann, John	Dayton Power & Light Company (The)	Transmission Owner
Hsia, Eric	PJM Interconnection	Not Applicable
Hudson, Wesley	Dominion Energy Generation Marketing, Inc.	Generation Owner
Hull, Gerit	American Municipal Power, Inc.	Electric Distributor
Hyzinski, Tom	GT Power Group, LLC	Not Applicable
Iler, Art	Indiana Office of Utility Consumer	Not Applicable
Janicki, Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Jett, William	Duke Energy Business Services, LLC	Transmission Owner
Johnson, Carl	Customized Energy Solutions, Ltd.	Not Applicable
Kelly, Stephen	Brookfield Renewable Trading and Marketing LP	Other Supplier
Kilgallen, Kevin	Avangrid Renewables, LLC	Generation Owner
Kogut, George	New York Power Authority	Other Supplier
Kozhuharov, Dimitar	Delaware Municipal Electric Corporation, Inc.	Electric Distributor
Ladin, Sarah	Institute for Policy Integrity at NYU School of Law	Not Applicable
LaRocque, Matthew	PJM Interconnection	Not Applicable
Lejcar, Jamie	Allegheny Electric Cooperative, Inc.	Electric Distributor
Levitt, Andrew	PJM Interconnection	Not Applicable
Lu, Chenchao	PJM Interconnection	Not Applicable
Mariam, Yohannes	Office of the People's Counsel for the District of Columbia	End-Use Customer
McNeil, Justin	Kentucky Public Service Commission	Not Applicable
McNeil, Kytson	Maryland Public Service Commission	Not Applicable
Megali, Brian	Exelon Business Services Company, LLC	Transmission Owner
Nenon, Michael	Strata Clean Energy	Not Applicable
Nix, Emma	Gabel Associates	Not Applicable
Okenfuss, James	Savion, LLC	Not Applicable
Ondayko, Brock	AEP Energy Partners, Inc.	Transmission Owner



Pakela, Greg	DTE Energy Trading, Inc.	Other Supplier
Pelletier, Eveline	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Poulos, Greg	Rep.'g Delaware Division of the Public Advocate	End-Use Customer
Price, Ruth	Delaware Division of the Public Advocate	End-Use Customer
Pungaliya, Rajat	Pine Gate Mid-Atlantic, LLC	Other Supplier
Rodriguez, Tomas	OPSI	Not Applicable
Rohrbach, John	Wabash Valley Power Association, Inc.	Electric Distributor
Rutigliano, Tom	NRDC	Not Applicable
Sasser, Jonathan	Customized Energy Solutions, Ltd.	Not Applicable
Scheirer, Alexandra	PJM Interconnection	Not Applicable
Schmitt, David	New Jersey Board of Public Utilities	Not Applicable
Schuyler, Ken	PJM Interconnection	Not Applicable
Shegarfi, Roozbeh	Exelon Generation Co., LLC	Generation Owner
Sotkiewicz, Paul	E-Cubed Policy Associates	Not Applicable
Svenson, Heather	Public Service Electric & Gas Company	Transmission Owner
Sweeney, Rory	GT Power Group, LLC	Not Applicable
Tacka, Natalie	PJM Interconnection	Not Applicable
Wadsworth, Joseph	Vitol Inc.	Other Supplier
Wehnes, Kathleen	Maryland Department of the Environment	Not Applicable
Weigel, Shannon	Edison Energy	Not Applicable
Whitehead, Jeff	GT Power Group	Not Applicable
Williams, Fernie	East Kentucky Power Cooperative, Inc.	Transmission Owner
Wilson, James	Wilson Energy Economics	Not Applicable
Wisersky, Megan	Madison Gas & Electric Co.	Other Supplier
Wisniewski, Christian	DNREC - Division of Air Quality	Not Applicable
Yoder, Michael	RTO Insider	Not Applicable