

**January Planning Committee  
Teleconference / WebEx  
January 11, 2022  
9:00 a.m. – 12:35 p.m. EPT**

### Administration (9:00 – 9:15)

1. Dave Souder, PJM, called the meeting to order. Molly Mooney, PJM, reviewed the Antitrust, Code of Conduct, media participation, and WebEx guidelines.
2. Molly Mooney reviewed the January 11, 2022 Planning Committee agenda. No changes to the agenda were requested.
3. Molly Mooney reviewed the draft December 14, 2021 Planning Committee meeting minutes and the committee approved the minutes.
4. Molly Mooney reviewed the 2022 PC work plan.
- X. Amanda Egan, PJM, reviewed an update to the Voting Application to retire use of weak encryption.

Dave Souder reviewed organizational updates within the Planning Division.

### Endorsements (9:15 – 10:00)

5. Interconnection Process Reform – Interconnection Process  
Jack Thomas, PJM, reviewed the new interconnection process package from the work done at the Interconnection Process Reform Task Force.  
**The committee endorsed the PJM package with approximately 100% support. There were 275 Yes votes, 1 No vote, and 0 Abstain. The committee voted if the proposed solution was preferable to the status quo. This vote passed with approximately 100% support - 275 Yes, 1 No, and 0 Abstain.**

Materials for task force can be found [here](#).

### First Reads (10:00 – 11:30)

6. Interconnection Process Reform - Transition  
Jack Thomas, PJM, provided a first read of the transition package(s) from the work done at the Interconnection Process Reform Task Force. The committee will be asked to vote on the transition package(s) at next month's meeting.

Materials for task force can be found [here](#).

7. Deactivation Process Timing  
Dave Egan, PJM, provided a first read of a proposed deactivation process timing update. The committee will be asked to approve the issue charge and endorse the proposed solution as part of the Quick Fix process outlined in Section 8.6.1 of Manual 34 at next month's meeting.

8. TO/TOP Matrix V16

Gizella Mali, PJM, presented the proposed changes to the TO/TOP Matrix. The Committee will be requested to provide a recommendation to the TOA-AC to approve the Draft TO/TOP Matrix V16 at the next meeting.

## Informational Updates (11:30 – 12:35)

9. Capacity Interconnection Rights for ELCC Resources Update

Brian Chmielewski, PJM, provided an update of the work done during the PC special session on Capacity Interconnection Rights (CIR) for ELCC Resources.

Materials for the special sessions can be found [here](#).

10. Resilience Testing Update

Grace Niu, PJM, provided an update on annual resilience testing.

11. Attachment M3 Process Update

Aaron Berner, PJM, provided an Attachment M-3 update and facilitated a discussion with stakeholders.

12. Reliability Compliance Update

Becky Davis, PJM, provided an update on the activities, issues and items of interest at NERC, SERC, and RF.

## Informational Posting

### Model Build Activity Update

- MMWG
  - Dynamics
    - PJM submitted the second round of generator dynamic data and Transmission Owners' dynamic device data to PowerTech
    - PowerTech is working on dynamic cases initializations and disturbance test
- RTEP
  - Loadflow
    - Transmission Owners to provide Trial 2 updates and contingency files by January 21, 2022
  - Short Circuit
    - PJM will post the Trial 1 2024 case and associated files by January 15, 2022
- A friendly reminder - The upcoming Gen Model Window for MOD-032 data submittals for applicable Generator Owners will open on Sunday, May 1st, 2022 and end on Wednesday, June 15th, 2022

### Carbon Impact Report – 2020/21 Long-Term Window 1 Update

A report posted with meeting materials summarizes the carbon impacts for the Market Efficiency projects to be submitted to the February Board meeting.

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Meeting (Location)		
Tuesday, January 11, 2022	9:00 a.m. – 12:00 p.m.	Planning Committee (TBD)	Thursday, December 30, 2021	Tuesday, January 4, 2022
Tuesday, February 8, 2022	9:00 a.m. – 12:00 p.m.	Planning Committee (TBD)	Thursday, January 27, 2022	Tuesday, February 1, 2022
Tuesday, March 8, 2022	9:00 a.m. – 12:00 p.m.	Planning Committee (TBD)	Thursday, February 24, 2022	Tuesday, March 1, 2022
Tuesday, April 12, 2022	9:00 a.m. – 12:00 p.m.	Planning Committee (TBD)	Thursday, March 31, 2022	Tuesday, April 5, 2022
Tuesday, May 10, 2022	9:00 a.m. – 12:00 p.m.	Planning Committee (TBD)	Thursday, April 28, 2022	Tuesday, May 3, 2022
Tuesday, June 7, 2022	9:00 a.m. – 12:00 p.m.	Planning Committee (TBD)	Thursday, May 26, 2022	Tuesday, May 31, 2022

## Attendance List

David Souder (Chair)	PJM Interconnection, LLC	Not Applicable
Molly Mooney (Secretary)	PJM Interconnection, LLC	Not Applicable
Shilpa Toppo	174 Power Global	Not Applicable
Alex Camargo	8Minute Solar Energy	Not Applicable
Muhsin Abdur-Rahman	ABB	Not Applicable
Julian Prasad	Acciona Energy North America Corporation	Generation Owner
Jose Villarreal	Acciona Energy North America Corporation	Generation Owner
Sophie Graham	Adapt2 Solutions	Not Applicable
Jake Greenfield	Advanced Power	Not Applicable
Kyle Kekeisen	Advanced Power	Not Applicable
Aaron Lamb	Advanced Power	Not Applicable
Nicole Makela	Advanced Power	Not Applicable
Nick Zaborowsky	Advanced Power	Not Applicable
Benjamin Greene	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Tyler Berton	American Electric Power	Transmission Owner
Gerit Hull	American Municipal Power, Inc.	Electric Distributor
Art Iler	American Municipal Power, Inc.	Electric Distributor
Steven Lieberman	American Municipal Power, Inc.	Electric Distributor
Alexandros Lousos	American Municipal Power, Inc.	Electric Distributor
Lisa McAlister	American Municipal Power, Inc.	Electric Distributor
Gary Fuerst	American Transmission Systems, Inc.	Transmission Owner
Sari Fink	American Wind Energy Association	Not Applicable
Ash Panegal	Apex Clean Energy	Not Applicable
Richard Seide	Apex Clean Energy	Not Applicable
Brock Ondayko	Appalachian Power Company	Transmission Owner
David Canter	Appalachian Power Company	Transmission Owner
Terry Gates	Appalachian Power Company	Transmission Owner
Takis Laios	Appalachian Power Company	Transmission Owner
Craig Rutledge	Appalachian Power Company	Transmission Owner
Kevin Kilgallen	Avangrid Renewables LLC	Generation Owner
Zelalem Tekle	Baltimore Gas and Electric	Transmission Owner
Tom Dao	Bechtel	Not Applicable
Brian Vayda	Borough of Park Ridge	Electric Distributor
Zachary Stines	Borrego Solar	Not Applicable
Diane Janicki	Boston Energy Trading and Marketing LLC	Generation Owner
Brett White	Brett White	Not Applicable
Stephen Kelly	Brookfield Energy Marketing LP	Other Supplier
Tony Lopez-Lopez	Bryndan Associates, Inc.	Not Applicable
Greg Poulos	CAPS	Not Applicable
Nick Benjamin	Clearway Energy LLC	Not Applicable
Ling Hua	Clearway Energy LLC	Not Applicable
Bill Allen	Commonwealth Edison Company	Transmission Owner
Rehan Gilani	ConEdison Energy, Inc.	Other Supplier

Haibin Sun  
 Matt Litchfield  
 Guy Filomena  
 Lynn Horning  
 Carl Johnson  
 Jonathan Sasser  
 Matthew Crosby  
 Steven Lichtin  
 David Capparelli  
 Ryan Dolan  
 John Horstmann  
 Michael Russ  
 David Hastings  
 Ron Carrier  
 Marji Philips  
 Ruth Ann Price  
 Jim Davis  
 Rebecca Hicks  
 Jacqui Huges  
 Tania Jones  
 Derek Kou  
 Bao Pham  
 Connie Schroeder  
 Ryen Lawson  
 William Jett  
 Steve Steinkuhl  
 John Sturgeon  
 Jeff Baker  
 Dan Benson  
 Bryan Garnett  
 Julie Mason  
 Gian Alian  
 Janessa Kent  
 Joe Pilch  
 Jason Cox  
 Iker Chocarro  
 Tom Rutigliano  
 Darrin Adams  
 Nathan Bradley  
 Chuck Dugan  
 Denise Foster Cronin  
 Zach Gold  
 Paul Sotkiewicz  
 Maguette Fall  
 Arash Ghodsian  
 Anton Ptak  
 John Brodbeck  
 Marc Aurely  
 Minnie Han  
 Mohamed Kadous  
 Gaurav Mehta  
 Colleen Wallace  
 Chandra Colaresi  
 Gina Jardot  
 Thomas Leeming  
 Rajesh Bhana  
 Harsha Jasti  
 Sharon Midgley  
 Robert Taylor  
 Amber Thomas  
 Kevin Thundiyil  
 Roozbeh Shegarfi  
 Aasawari Pawar  
 Eric Bryant  
 Tom Bainbridge

Constellation Energy Services, Inc  
 CPV Power Holdings, LP  
 Customized Energy Solutions, Ltd.  
 Customized Energy Solutions, Ltd.  
 Customized Energy Solutions, Ltd.  
 Customized Energy Solutions, Ltd.  
 Cypress Creek Renewables, LLC  
 Cypress Creek Renewables, LLC  
 Dakota Power Partners  
 Dayton Power & Light Company (The)  
 Dayton Power & Light Company (The)  
 Dayton Power & Light Company (The)  
 Dhast Co  
 Direct Energy Business, LLC  
 Direct Energy Business, LLC  
 Division of the Public Advocate of the State of Delaware  
 Dominion Energy Marketing, Inc.  
 Dominion Energy Marketing, Inc.  
 Dominion Energy Marketing, Inc.  
 Dominion Virginia Power  
 Dominion Virginia Power  
 Dominion Virginia Power  
 Dominion Virginia Power  
 Dominion Virginia Power  
 Dominion Virginia Power  
 Duke Energy Business Services LLC  
 Duke Energy Business Services LLC  
 Duke Energy Carolinas, LLC  
 Duke Energy Ohio, Inc.  
 Duke Energy Ohio, Inc.  
 Duke Energy Ohio, Inc.  
 Duke Energy Ohio, Inc.  
 Duquesne Light Company  
 Duquesne Light Company  
 Duquesne Light Company  
 Duquesne Light Company  
 Dynege Power Marketing, Inc.  
 E.ON Climate & Renewables North America, Inc.  
 Earth Networks  
 East Kentucky Power Cooperative, Inc.  
 East Kentucky Power Cooperative, Inc.  
 East Kentucky Power Cooperative, Inc.  
 East Kentucky Power Cooperative, Inc.  
 East Light Partners  
 E-Cubed Policy Associates  
 EDF Renewable  
 EDF Renewable  
 EDF Renewable  
 EDP Renewables North America LLC  
 EN Engineering LLC  
 Enel Trading North America, LLC  
 Enel Trading North America, LLC  
 Enel Trading North America, LLC  
 Energy Exemplar  
 Enerwise Global Technologies, LLC  
 Essential Power, LLC  
 Exelon  
 Exelon Business Services Company, LLC  
 Exelon Business Services Company, LLC  
 Exelon Business Services Company, LLC  
 Exelon Business Services Company, LLC  
 Exelon Business Services Company, LLC  
 Exelon Business Services Company, LLC  
 Exelon Business Services Company, LLC  
 Exelon Generation Co., LLC  
 First Solar  
 FirstEnergy Solutions Corp  
 FirstEnergy Solutions Corp

Other Supplier  
 Generation Owner  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Generation Owner  
 Generation Owner  
 Not Applicable  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Not Applicable  
 Other Supplier  
 Other Supplier  
 End User Customer  
 Generation Owner  
 Generation Owner  
 Generation Marketing, Inc.  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Other Supplier  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Generation Owner  
 Generation Owner  
 Other Supplier  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Not Applicable  
 Generation Owner  
 Not Applicable  
 Other Supplier  
 Other Supplier  
 Other Supplier  
 Other Supplier  
 Not Applicable  
 Other Supplier  
 Generation Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Transmission Owner  
 Generation Owner  
 Not Applicable  
 Transmission Owner  
 Transmission Owner

Jim Benchek	FirstEnergy Solutions Corp.	Transmission Owner
Lou D'Alessandris	FirstEnergy Solutions Corp.	Transmission Owner
Andrew Horne	FirstEnergy Solutions Corp.	Transmission Owner
Lawrence Hozempa	FirstEnergy Solutions Corp.	Transmission Owner
Jeff Stuchell	FirstEnergy Solutions Corp.	Transmission Owner
Gabriella Hudis	Gabel and Associates	Not Applicable
Emma Nix	Gabel and Associates	Not Applicable
Lesley Williams	Geenex	Not Applicable
Randall Porter	Geronimo Energy	None
Tom Hyzinski	GT Power Group	Not Applicable
Rory Sweeney	GT Power Group	Not Applicable
Jeff Whitehead	GT Power Group	Not Applicable
Matthew Wharton	Guidehouse, Inc	Not Applicable
Eveline Pelletier	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Andrew Redding	Heelstone Renewable Energy	Not Applicable
Sudipto Bhowmik	Ibv Energy	Not Applicable
Zachary Callen	Illinois Commerce Commission	Not Applicable
Christine Ericson	Illinois Commerce Commission	Not Applicable
Katharine McCormick	Illinois Commerce Commission	Not Applicable
Steve Davies	Indiana Utility Regulatory Commission	Not Applicable
Dave Johnston	Indiana Utility Regulatory Commission	Not Applicable
Rob Stupar	Invenergy, LLC	Generation Owner
Matt Keenan	J-Power USA	Not Applicable
Justin McNeil	Kentucky Government	Not Applicable
Fred Rohs	Landco	Not Applicable
Megan Wisersky	Madison Gas and Electric	Other Supplier
Philip Sussler	Maryland Public Service Commission	Not Applicable
Kathleen Wehnes	Maryland Public Service Commission	Not Applicable
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Tracy Brecke	MEPPI	Not Applicable
Stephen Boyle	Merion Energy Solutions	Not Applicable
Nick Abraham	Michigan Public Service Commission	Not Applicable
Erik Hanser	Michigan Public Service Commission	Not Applicable
Liang Qi	Midwest Independent Transmission System Operator, Inc.	Not Applicable
Christin Domian	Mitsubishi Electric Power Products Inc.	Not Applicable
Abbey Li	Mitsubishi Electric Power Products Inc.	Not Applicable
John Dadourian	Monitoring Analytics, LLC	Not Applicable
Anupama Janapareddy	National Grid Renewables	Not Applicable
Colin Walcavich	National Grid Renewables	Not Applicable
Cullen Howe	Natural Resources Defense Council	Not Applicable
George Kogut	New York Power Authority	Other Supplier
Brian McArdle	NextEra Energy Transmission, LLC	Other Supplier
Jung Suh	Noble Americas Energy Solutions LLC	Other Supplier
Brian Kauffman	NRG Curtailment Solutions	Other Supplier
Divya Kurthakoti	Ocean Wind LLC	Not Applicable
Tom Schmidt	Ohio Electric Cooperatives	Not Applicable
Bill Squibb	Ohio Valley Electric	Generation Owner
Michael Cocco	Old Dominion Electric Cooperative	Electric Distributor
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor
Cyrus Tashakkori	Open Road Renewables, LLC	Not Applicable
Mike Volpe	Open Road Renewables, LLC	Not Applicable
Gregory Carmean	OPSI	Not Applicable
Tomas Rodriguez	OPSI	Not Applicable
Akeem Bowen	Orsted	Not Applicable
Azade Brahman	Orsted	Not Applicable
Ankit Pahwa	Pattern Energy Group	Not Applicable
Pulin Shah	PECO Energy Company	Transmission Owner
Regan Fink	Pine Gate Renewables	Not Applicable
Andrew Grieve	Pine Gate Renewables	Not Applicable
Susan Stanfill	Pine Gate Renewables	Not Applicable
Sami Abdulsalam	PJM Interconnection, LLC	Not Applicable
David Anders	PJM Interconnection, LLC	Not Applicable
Alejandro Bautista	PJM Interconnection, LLC	Not Applicable
Stephen Bennett	PJM Interconnection, LLC	Not Applicable
Tarik Bensala	PJM Interconnection, LLC	Not Applicable



# Draft Minutes

As of January 18, 2022

Aaron Berner	PJM Interconnection, LLC	Not Applicable
Matthew Bernstein	PJM Interconnection, LLC	Not Applicable
Ashwini Bhat	PJM Interconnection, LLC	Not Applicable
Joshua Bruno	PJM Interconnection, LLC	Not Applicable
Mike Bryson	PJM Interconnection, LLC	Not Applicable
Augustine Caven	PJM Interconnection, LLC	Not Applicable
Onyinye Caven	PJM Interconnection, LLC	Not Applicable
Brian Chmielewski	PJM Interconnection, LLC	Not Applicable
Jason Connell	PJM Interconnection, LLC	Not Applicable
Becky Davis	PJM Interconnection, LLC	Not Applicable
Nicolae Dumitriu	PJM Interconnection, LLC	Not Applicable
Amanda Egan	PJM Interconnection, LLC	Not Applicable
David Egan	PJM Interconnection, LLC	Not Applicable
Janell Fabiano	PJM Interconnection, LLC	Not Applicable
Tom Falin	PJM Interconnection, LLC	Not Applicable
Zhenyu Fan	PJM Interconnection, LLC	Not Applicable
Zeenath Fernandes	PJM Interconnection, LLC	Not Applicable
Pauline Foley	PJM Interconnection, LLC	Not Applicable
Ed Franks	PJM Interconnection, LLC	Not Applicable
Suzanne Glatz	PJM Interconnection, LLC	Not Applicable
Craig Glazer	PJM Interconnection, LLC	Not Applicable
Jim Glennon	PJM Interconnection, LLC	Not Applicable
Michele Greening	PJM Interconnection, LLC	Not Applicable
Suzanne Herel	PJM Interconnection, LLC	Not Applicable
Michael Herman	PJM Interconnection, LLC	Not Applicable
Dennis Hough	PJM Interconnection, LLC	Not Applicable
Eric Hsia	PJM Interconnection, LLC	Not Applicable
Marilyn Jayachandran	PJM Interconnection, LLC	Not Applicable
Ed Kovler	PJM Interconnection, LLC	Not Applicable
Lisa Krizenoskas	PJM Interconnection, LLC	Not Applicable
Mark Kuras	PJM Interconnection, LLC	Not Applicable
Andrew Lambert	PJM Interconnection, LLC	Not Applicable
Andrew Levitt	PJM Interconnection, LLC	Not Applicable
Jessica Lynch	PJM Interconnection, LLC	Not Applicable
Gizella Mali	PJM Interconnection, LLC	Not Applicable
Erich Mauroschadt	PJM Interconnection, LLC	Not Applicable
Susan McGill	PJM Interconnection, LLC	Not Applicable
Megan McLaverty	PJM Interconnection, LLC	Not Applicable
Stacey Nestel	PJM Interconnection, LLC	Not Applicable
Grace Niu	PJM Interconnection, LLC	Not Applicable
Michael Olaleye	PJM Interconnection, LLC	Not Applicable
Ninad Patil	PJM Interconnection, LLC	Not Applicable
Wenzheng Qiu	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
pavan sajjja	PJM Interconnection, LLC	Not Applicable
Ken Schuyler	PJM Interconnection, LLC	Not Applicable
Dylan Seeley	PJM Interconnection, LLC	Not Applicable
Ken Seiler	PJM Interconnection, LLC	Not Applicable
Jeffrey Shields	PJM Interconnection, LLC	Not Applicable
Jason Shoemaker	PJM Interconnection, LLC	Not Applicable
Mark Sims	PJM Interconnection, LLC	Not Applicable
Stan Sliwa	PJM Interconnection, LLC	Not Applicable
Michelle Souder	PJM Interconnection, LLC	Not Applicable
Chris Terranova	PJM Interconnection, LLC	Not Applicable
Nebiat Tesfa	PJM Interconnection, LLC	Not Applicable
Jack Thomas	PJM Interconnection, LLC	Not Applicable
Jen Tribulski	PJM Interconnection, LLC	Not Applicable
Stuart Widom	PJM Interconnection, LLC	Not Applicable
Phil Yum	PJM Interconnection, LLC	Not Applicable
Mohammed Shaikh	Plus Power	Not Applicable
Koushy Nareshkumar	Potomac Electric Power	Electric Distributor
Shadab Ali	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Reynaldo Noel Jeune	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Meagan Kuchan	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Horst Lehmann	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner



# Draft Minutes

As of January 18, 2022

Steven Nadel  
 Lindsay Orphanides  
 Nick Pratt  
 Cleveland Richards  
 Amanda Rumsey  
 Laura Yovanovich  
 Ray DePillo  
 Roseanne Circelli  
 Garan Gunn  
 Daniel Hutt  
 Esam Khadr  
 Leonid Lyakhovich  
 Subomi Rahman  
 Alex Stern  
 Rafael Wilches  
 Brandon Young  
 Mahila Christopher  
 Ray Mason  
 Bryna VanBlargan  
 Tom Hoatson  
 Lubaba Islam  
 Rollie Manganon  
 Michael Yoder  
 Karthik mekala  
 Peter Jones  
 James Okenfuss  
 Christian Alva  
 John Rohrbach  
 Lisa Szot  
 JJ Petti  
 Jennifer Hohenshiit  
 Brad Swalwell  
 Kenneth Foladare  
 Sriharsha Hari  
 Brad Heisey  
 Syed Ahmad  
 Jessica Johnson  
 Edrissa Cham  
 Aaron Vander Vorst  
 Chris Green  
 Jeff Hudson  
 Sonny Nguyen  
 Erin Baker  
 Ronnie Bailey  
 Peter Nedwick  
 Becky Robinson  
 Christian Fuess  
 Dave Berman  
 Wendy Warren

PPL Electric Utilities Corp. dba PPL Utilities  
 PPL Electric Utilities Corp. dba PPL Utilities  
 PPL Electric Utilities Corp. dba PPL Utilities  
 PPL Electric Utilities Corp. dba PPL Utilities  
 PPL Electric Utilities Corp. dba PPL Utilities  
 PSEG Energy Resources and Trade LLC  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Service Electric & Gas Company  
 Public Utilities Commission of Ohio (The)  
 ReliabilityFirst Corporation  
 Resource Investments  
 Riverside Generating, LLC  
 Rockland Electric Company  
 Rockland Electric Company  
 RTO Insider  
 RWE Renewables Americas, LLC  
 Savion Energy  
 Savion Energy  
 Scout Clean Energy  
 Southern Maryland Electric Cooperative  
 Strata Clean Energy  
 Sun Tribe Solar, LLC  
 Talen Energy Marketing, LLC  
 Tangent Energy Solutions, Inc.  
 Tangibl  
 Tenaska Power Services Co  
 Tenaska Power Services Co  
 The Federal Energy Regulatory Commission  
 Timmons Group  
 Tradewind Energy, Inc.  
 Tradewind Energy, Inc.  
 Tri Global Energy  
 Urban Grid  
 Urban Grid  
 Vesper Energy Development LLC  
 Virginia Electric & Power Company  
 Virginia Electric & Power Company  
 Vistra Energy  
 White Pine Consulting LLC  
 Wright & Talisman  
 Wright & Talisman

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

Author: Molly Mooney