

**February Planning Committee
Teleconference / WebEx
February 8, 2022
9:00 a.m. – 12:45 p.m. EPT**

Administration (9:00 – 9:20)

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 February 8, 2022 Planning Committee agenda. No changes to the agenda were requested.
3. Molly Mooney reviewed the draft January 11, 2022 Planning Committee meeting minutes and the committee approved the minutes
4. Amanda Egan, PJM, reviewed an update to the Voting Application to retire the use of weak encryption.
5. Susan McGill, PJM, reviewed the concept of Browserless/API 2 Factor Authentication Public Key Infrastructure (PKI) and proposed PKI production implementation schedule.

Molly Mooney communicated that an Information Item was posted along with meeting materials containing an announcement by PJM Transmission Owners which included potential refinements to the Solution Based DFAX method for the purpose of addressing issues raised as part of a FERC Complaint.

Endorsements (9:20 – 11:20)

6. Interconnection Process Reform – Transition
Ken Seiler, VP PJM System Planning, communicated his appreciation of the important Interconnection Process Reform stakeholder work completed thus far.
 - A. Jack Thomas, PJM, reviewed the transition packages (PJM and National Grid Renewables) from the work done at the Interconnection Process Reform Task Force.
 - B. Christian Alva, Bitter Ridge Wind Farm LLC, discussed a proposed alternative supported by Bitter Ridge Wind Farm LLC, Tri Global Energy, Hecate Energy, Leeward Energy.

The committee endorsed the PJM transition package with approximately 91% support. There were 218 Yes votes, 22 No votes, and 14 Abstain. The transition package proposed by National Grid Renewables failed with 3% support. There were 6 Yes votes, 200 No votes, and 48 Abstain. The alternate transition package proposed by Bitter Ridge Wind Farm LLC, Tri Global Energy, Hecate Energy, and Leeward Energy also failed with 34% support. There were 69 Yes votes, 134 No votes, and 51 Abstain.

[Issue Tracking: Interconnection Process Reform](#)
Materials for task force can be found [here](#).

7. TO/TOP Matrix V16

Gizella Mali, PJM, reviewed the proposed changes to the TO/TOP Matrix.

The committee vote to provide a recommendation to the TOA-AC to approve the Draft TO/TOP Matrix V16 was passed with 100% support by acclamation vote. This vote passed with 0 objections and 0 abstentions.

First Reads (11:20 – 11:45)

8. Deactivation Process Timing

Dave Egan, PJM, provided a second 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.

Informational Updates (11:45 – 12:45)

9. Capacity Interconnection Rights for ELCC Resources Update

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

[Issue Tracking: CIRs for ELCC Resources](#)

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

10. Generator Deliverability Timeline Update

Jonathan Kern, PJM, provided a generator deliverability proposal development timeline update.

11. Interconnection Queue Update

Jason Shoemaker, PJM, reviewed status of the PJM Interconnection Queues.

12. Offshore Wind State Agreement Approach

Sue Glatz, PJM, provided an update on the State Agreement Approach (SAA) Agreement filing.

14. 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
 - PowerTech is working on dynamic cases initializations and disturbance test
- RTEP
 - Loadflow

- Transmission Owners to provide Trial 3 and contingency file updates by February 4, 2022
 - Short Circuit
 - PJM posted Trial 1 2024 RTEP short circuit case and files on January 28, 2022
 - Transmission Owners are required to review the files and provide their feedback by February 11, 2022
- 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

Future Meeting Dates and Materials			Materials Due to Secretary	Materials Published
Date	Time	Meeting (Location)		
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
Julian Prasad	Acciona Energy North America Corporation	Generation Owner
Jose Villarreal	Acciona Energy North America Corporation	Generation Owner
Sophie Graham	Adapt2 Solutions	Not Applicable
Kat Burnham	Advanced Energy Economy (AEE)	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
Alexandros Lousos	American Municipal Power, Inc.	Electric Distributor
Vince Guntle	American PowerNet Management, L.P.	End User Customer
Chengyue Guo	American Transmission	Not Applicable
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
david glenn	Avan Grid Renewables	Generation Owner
Kevin Kilgallen	Avangrid Renewables LLC	Generation Owner
Zelalem Tekle	Baltimore Gas and Electric	Transmission Owner
Hugh Scott	Baltimore Gas and Electric Company	Transmission Owner
Tom Dao	Bechtel	Not Applicable
Zachary Stines	Borrego Solar	Not Applicable
Diane Janicki	Boston Energy Trading and Marketing LLC	Generation Owner
Brett White	Brett White	Not Applicable
Wayne Galli	Bright Night Power	Not Applicable
Ganesh Velumylylum	Bright Night Power	Not Applicable
Stephen Kelly	Brookfield Energy Marketing LP	Other Supplier
Tony Lopez-Lopez	Bryndan Associates, Inc.	Not Applicable
David Scarpignato	Calpine Energy Services, L.P.	Generation Owner

Rowen VonPlagenhoef
 Spencer Weiser
 Stefanie Tanenhaus
 Hannah Muller
 Bill Allen
 Paul Mills
 Ron Regner
 Rehan Gilani
 Rebecca Turner
 Jason Barker
 Christopher Nekolny
 Haibin Sun
 Tom McCarthy
 Matt Litchfield
 Guy Filomena
 Lynn Horning
 Carl Johnson
 Jonathan Sasser
 Matthew Crosby
 Steven Lichtin
 David Capparelli
 Ryan Dolan
 John Horstmann
 David Hastings
 Ron Carrier
 Jim Davis
 Jacqui Huges
 Tania Jones
 Connie Lowe
 Ryen Lawson
 Gregory Pakela
 Bill Jett
 John Sturgeon
 Jeff Baker
 Dan Benson
 Julie Mason
 Gian Alian
 Janessa Kent
 Joe Pilch
 Patrick Grau
 Jason Cox
 Iker Chocarro
 Tom Rutigliano
 Darrin Adams
 Nathan Bradley
 Chuck Dugan
 Rick Drom
 Paul Sotkiewicz
 Maguette Fall
 Arash Ghodsian
 Anton Ptak
 Temujin Roach
 Shannon Weigel
 John Brodbeck
 Matthew Keenan
 Marc Aurely
 Minnie Han
 Mohamed Kadous
 Gaurav Mehta
 Ruchi Singh
 Gina Jardot
 Rajesh Bhana
 Thomas Leeming
 Sharon Midgley
 Roozbeh Shegari

Charles River Associates
 Charles River Associates
 Citadel FNGE Ltd.
 Clearway Energy LLC
 Commonwealth Edison Company
 Commonwealth Edison Company
 Commonwealth Edison Company
 ConEdison Energy, Inc.
 Connect Gen LLC
 Constellation Energy Generation, LLC
 Constellation Energy Generation, LLC
 Constellation Energy Services, Inc
 CP Energy Marketing (US) 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)
 Dhast Co
 Direct Energy Business, LLC
 Dominion Energy Marketing, Inc.
 Dominion Energy Marketing, Inc.
 Dominion Virginia Power
 Dominion Virginia Power
 Dominion Virginia Power
 DTE Energy Trading, Inc.
 Duke Energy
 Duke Energy Carolinas, LLC
 Duke Energy Ohio, Inc.
 Duke Energy Ohio, Inc.
 Duke Energy Ohio, Inc.
 Duquesne Light Company
 Duquesne Light Company
 Duquesne Light Company
 Duquesne Light Company
 Dynegy Marketing and Trade, LLC
 Dynegy 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.
 Eckert Seamans
 E-Cubed Policy Associates
 EDF Renewable
 EDF Renewable
 EDF Renewable
 EDF Renewable
 EDF Renewable
 Edison Energy
 EDP Renewables North America LLC
 Elwood Energy, LLC
 EN Engineering LLC
 Enel Trading North America, LLC
 Enel Trading North America, LLC
 Enel Trading North America, LLC
 ENGIE Resources LLC
 Essential Power, LLC
 Exelon Business Services Company, LLC
 Exelon Business Services Company, LLC
 Exelon Business Services Company, LLC
 Exelon Business Services Company, LLC

Not Applicable
 Not Applicable
 Other Supplier
 Not Applicable
 Transmission Owner
 Transmission Owner
 Transmission Owner
 Other Supplier
 Not Applicable
 Generation Owner
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 Other Supplier
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Amber Thomas	Exelon Business Services Company, LLC	Transmission Owner
Valerie Martin	Federal Energy Regulatory Commission (The)	Not Applicable
Eric Bryant	FirstEnergy Solutions Corp	Transmission Owner
Tom Bainbridge	FirstEnergy Solutions Corp.	Transmission Owner
Jim Benchek	FirstEnergy Solutions Corp.	Transmission Owner
Lawrence Hozempa	FirstEnergy Solutions Corp.	Transmission Owner
Jeff Stuchell	FirstEnergy Solutions Corp.	Transmission Owner
Johnbinh Vu	Florida Power & Light Company	Other Supplier
Todd Cater	Foundation Solar Partners	Not Applicable
Michael Whalen	Foundation Solar Partners	Not Applicable
Mike Borgatti	Gabel and Associates	Not Applicable
Gabriella Hudis	Gabel and Associates	Not Applicable
Jenny Zhao	GE Renewable Energy	Not Applicable
Donna Robichaud	Geenex	Not Applicable
Lesley Williams	Geenex	Not Applicable
Randall Porter	Geronimo Energy	None
Paul Patterson	Glenrock	Not Applicable
Tom Hyzinski	GT Power Group	Not Applicable
Rory Sweeney	GT Power Group	Not Applicable
Jeff Whitehead	GT Power Group	Not Applicable
Eveline Pelletier	H.Q. Energy Services (U.S.), Inc.	Other Supplier
Andrew Webster	Hanwha QCells USA	Not Applicable
Aruna Ranaweera	Hecate Energy LLC	Not Applicable
Andrew Redding	Heelstone Renewable Energy	Not Applicable
Steve Herling	Herling Power Grid Consulting, Inc	Not Applicable
Sudipto Bhowmik	lbv Energy	Not Applicable
Zachary Callen	Illinois Commerce Commission	Not Applicable
Katharine McCormick	Illinois Commerce Commission	Not Applicable
Dave Johnston	Indiana Utility Regulatory Commission	Not Applicable
Abbas Abed	Innergex Renewable USA LLC	Generation Owner
Rob Stupar	Invenergy, LLC	Generation Owner
Justin McNeil	Kentucky Government	Not Applicable
Fred Rohs	Landco	Not Applicable
Ian Sharpe	Leeward Asset Management, LLC	Generation Owner
John Sterling	Leeward Asset Management, LLC	Generation Owner
John Wieland	Leeward Asset Management, LLC	Generation Owner
Caleb Gaddes	Light Source BP	Not Applicable
Awais Ghayas	Light Source BP	Not Applicable
Sharon Segner	LS Power Transmission, LLC	Transmission Owner
Kathleen Wehnes	Maryland Public Service Commission	Not Applicable
David Mabry	McNees Wallace & Nurick LLC	Not Applicable
Tracy Brecke	MEPPI	Not Applicable
Chad Mazurek	MEPPI	Not Applicable
Erik Hanser	Michigan Public Service Commission	Not Applicable
Sumit Brar	Midwest Independent Transmission System Operator, Inc.	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
Anupama Janapareddy	National Grid Renewables	Not Applicable
matt morais	National Grid Renewables	Generation Owner
Colin Walcavich	National Grid Renewables	Not Applicable
Cullen Howe	Natural Resources Defense Council	Not Applicable
Radha Soorya	Navigant	Not Applicable
Joe DeLosa	New Jersey Board of Public Utilities	Not Applicable
David Schmitt	New Jersey Board Of Public Utilities	Other Supplier
George Kogut	New York Power Authority	Other Supplier
Brian McArdle	NextEra Energy Transmission, LLC	Not Applicable
Tom Johnson	NJ Spotlight	Other Supplier
Jung Suh	Noble Americas Energy Solutions LLC	Electric Distributor
Mike Dailey	Northern Virginia Electric Cooperative	Electric Distributor
John Rainey	Northern Virginia Electric Cooperative	Not Applicable
Gil Jaramillo	Novec	Other Supplier
Brian Kauffman	NRG Curtailment Solutions	Not Applicable
Divya Kurthakoti	Ocean Wind LLC	Not Applicable
Erik Heinle	Office of the Peoples Counsel for the District of Columbia	End User Customer

Bill Squibb	Ohio Valley Electric	Generation Owner
Michael Cocco	Old Dominion Electric Cooperative	Electric Distributor
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor
Bao Pham	Old Dominion Electric Cooperative	Electric Distributor
Cyrus Tashakkori	Open Road Renewables, LLC	Not Applicable
Mike Volpe	Open Road Renewables, LLC	Not Applicable
Greg Carmean	OPSI	Not Applicable
Tomas Rodriguez	OPSI	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
Christina Andalora	PJM Interconnection, LLC	Not Applicable
David Anders	PJM Interconnection, LLC	Not Applicable
Alejandro Bautista	PJM Interconnection, LLC	Not Applicable
Tarik Bensala	PJM Interconnection, LLC	Not Applicable
Aaron Berner	PJM Interconnection, LLC	Not Applicable
Matthew Bernstein	PJM Interconnection, LLC	Not Applicable
Alida Brooks	PJM Interconnection, LLC	Not Applicable
Joshua Bruno	PJM Interconnection, LLC	Not Applicable
Susan Buehler	PJM Interconnection, LLC	Not Applicable
Tim Burdis	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
Noorgul Dada	PJM Interconnection, LLC	Not Applicable
Elizabeth Davis	PJM Interconnection, LLC	Not Applicable
Nicolae Dumitriu	PJM Interconnection, LLC	Not Applicable
Collin Edgar-Smith	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
Anisha Fernandes	PJM Interconnection, LLC	Not Applicable
Pauline Foley	PJM Interconnection, LLC	Not Applicable
Christine Franks	PJM Interconnection, LLC	Not Applicable
Edmund Franks	PJM Interconnection, LLC	Not Applicable
Jill Gates	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
Suzanne Herel	PJM Interconnection, LLC	Not Applicable
Michael Herman	PJM Interconnection, LLC	Not Applicable
Risa Holland	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
Jonathan Kern	PJM Interconnection, LLC	Not Applicable
Lisa Krizenoskas	PJM Interconnection, LLC	Not Applicable
Andrew Lambert	PJM Interconnection, LLC	Not Applicable
Matt LaRocque	PJM Interconnection, LLC	Not Applicable
Dan Lockwood	PJM Interconnection, LLC	Not Applicable
Jessica Lynch	PJM Interconnection, LLC	Not Applicable
Gizella Mali	PJM Interconnection, LLC	Not Applicable
Susan McGill	PJM Interconnection, LLC	Not Applicable
Paul McGlynn	PJM Interconnection, LLC	Not Applicable
Jason McGovern	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
Medha Pai	PJM Interconnection, LLC	Not Applicable



Draft Minutes

As of February 14, 2022

Komal Patel	PJM Interconnection, LLC	Not Applicable
Conrad Paul	PJM Interconnection, LLC	Not Applicable
Wenzheng Qiu	PJM Interconnection, LLC	Not Applicable
John Reynolds	PJM Interconnection, LLC	Not Applicable
pavan sajj	PJM Interconnection, LLC	Not Applicable
Paul Scheidecker	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
Nebiat Tesfa	PJM Interconnection, LLC	Not Applicable
Jack Thomas	PJM Interconnection, LLC	Not Applicable
Jennifer Tribulski	PJM Interconnection, LLC	Not Applicable
William Walker	PJM Interconnection, LLC	Not Applicable
Jeanine Watson	PJM Interconnection, LLC	Not Applicable
Stuart Widom	PJM Interconnection, LLC	Not Applicable
Alex Worcester	PJM Interconnection, LLC	Not Applicable
Michael Zhang	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
Homam Kamhia	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
Steven Nadel	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Lindsay Orphanides	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Nick Pratt	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Cleveland Richards	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Amanda Rumsey	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Laura Yovanovich	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner
Luis Coba	PSEG	Transmission Owner
Rich Corash	PSEG Energy Resources and Trade LLC	Other Supplier
Roseanne Circelli	Public Service Electric & Gas Company	Transmission Owner
John Dempsey	Public Service Electric & Gas Company	Transmission Owner
Garan Gunn	Public Service Electric & Gas Company	Transmission Owner
Daniel Hutt	Public Service Electric & Gas Company	Transmission Owner
Esam Khadr	Public Service Electric & Gas Company	Transmission Owner
Leonid Lyakhovich	Public Service Electric & Gas Company	Transmission Owner
Richard Marinelli	Public Service Electric & Gas Company	Transmission Owner
Alex Stern	Public Service Electric & Gas Company	Transmission Owner
Heather Svenson	Public Service Electric & Gas Company	Transmission Owner
Rafael Wilches	Public Service Electric & Gas Company	Transmission Owner
Anuj Dixit	Recurrent Energy LLC	Generation Owner
Ray Mason	ReliabilityFirst Corporation	Not Applicable
Tom Hoatson	Riverside Generating, LLC	Other Supplier
Lubaba Islam	Rockland Electric Company	Transmission Owner
Michael Yoder	RTO Insider	Not Applicable
Karthik mekala	RWE Renewables Americas, LLC	Not Applicable
Wonbae Choi	Samsung Renewable Energy Inc.	Not Applicable
Peter Jones	Savion Energy	Not Applicable
Shukul Mazari	Savion Energy	Not Applicable
James Okenfuss	Savion Energy	Not Applicable
Christian Alva	Scout Clean Energy	Not Applicable
Melissa Alfano	SEIA	Not Applicable
John Rohrbach	Southern Maryland Electric Cooperative	Electric Distributor
Lisa Szot	Strata Clean Energy	Not Applicable
Kun Zhu	Sun Energy	Not Applicable
Anthony Deyerle	Sun Tribe Solar, LLC	Other Supplier
JJ Petti	Sun Tribe Solar, LLC	Other Supplier
Stephanie Fowler	Swift Current Energy	Not Applicable

Hillel Halberstam
Jennifer Hohenshilt
Brad Swalwell
Kenneth Foladare
Kirk MacLearnsberry
Sriharsha Hari
Jessica Johnson
Derek Sunderman
Edrissa Cham
Aaron Vander Vorst
Chandana Bommareddy
Chris Green
Stacey Jackson
Sonny Nguyen
Peter Nedwick
Francisco Velez-Cedeno
Cheri Yochelson
Cristina Drivas
James Wilson
Dave Berman

SynerGen Solar
Talen Energy Marketing, LLC
Tangent Energy Solutions, Inc.
Tangibl
Teichos Energy
Tenaska Power Services Co
Timmons Group
Tradewind Energy
Tradewind Energy, Inc.
Tradewind Energy, Inc.
TRC Solutions
Tri Global Energy
UGI Utilities, Inc.
Urban Grid
Virginia Electric & Power Company
Virginia Electric & Power Company
Virginia Electric & Power Company
Whitetail Solar 1, LLC
Wilson Energy Economics
Wright & Talisman

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