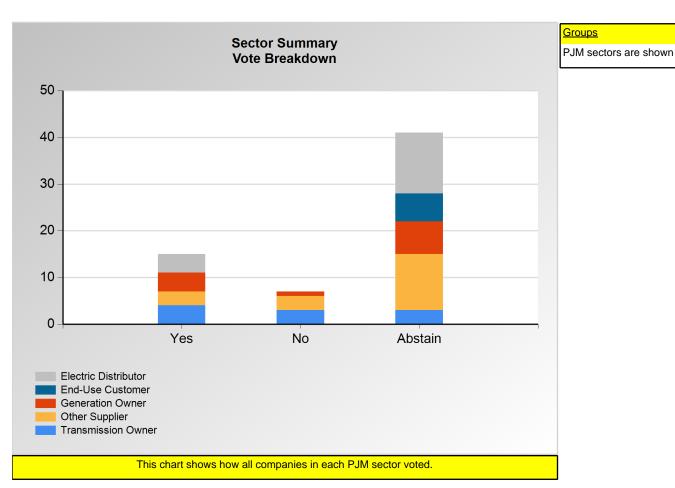
SUPPLEMENTAL VOTING RESULTS

PJM Members Committee MC Meeting Date: August 23, 2018

SECTION 1

Charts displayed in this section include various portrayals of how all companies voted at the Members Committee (MC) meeting on this particular issue.

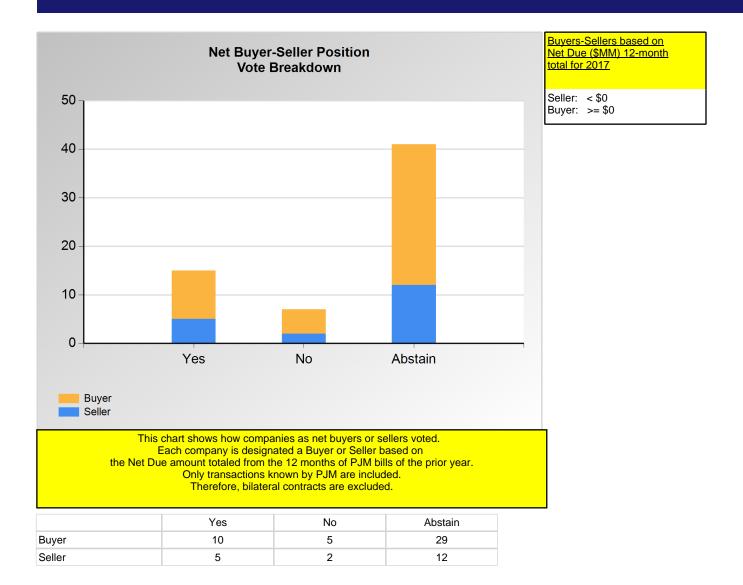
Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)



Additional Detail:

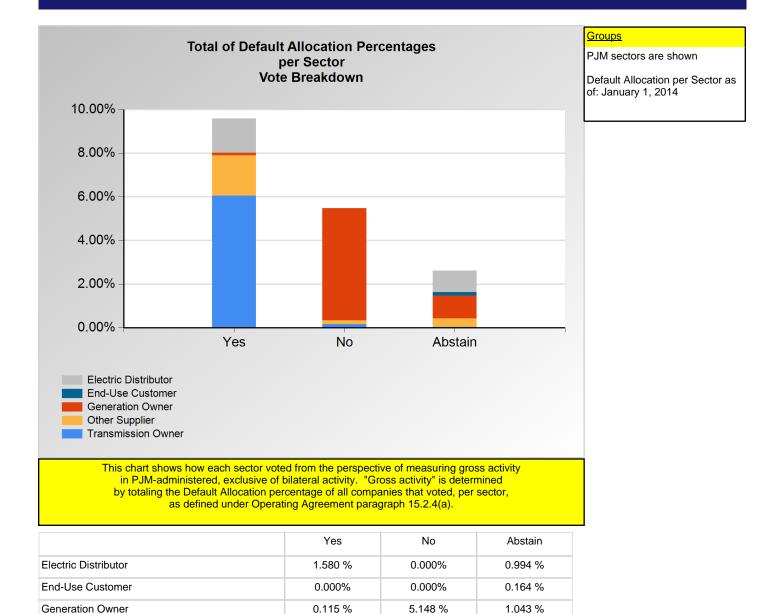
	Eligible	Attended	Did Not Vote	Yes	No	Abstain	Sector Vote In Favor	Sector Weight in Favor
End-Use Customer	22	6	0	0	0	6	0.0 %	0.000
Transmission Owner	14	13	3	4	3	3	57.1 %	0.571
Generation Owner	100	24	12	4	1	7	80.0 %	0.800
Electric Distributor	43	31	14	4	0	13	100.0 %	1.000
Other Supplier	344	64	46	3	3	12	50.0 %	0.500
Total	523	138	75	15	7	41		2.871

^{*}Refer to the Company Designations table "Company Sector" column to see each company's group designation found on this chart.



^{*}Refer to the Company Designations table "Buyer-Seller Group" column to see each company's gruop designation found on this chart.

Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)



1.848 %

6.051 %

Other Supplier

Transmission Owner

0.172 %

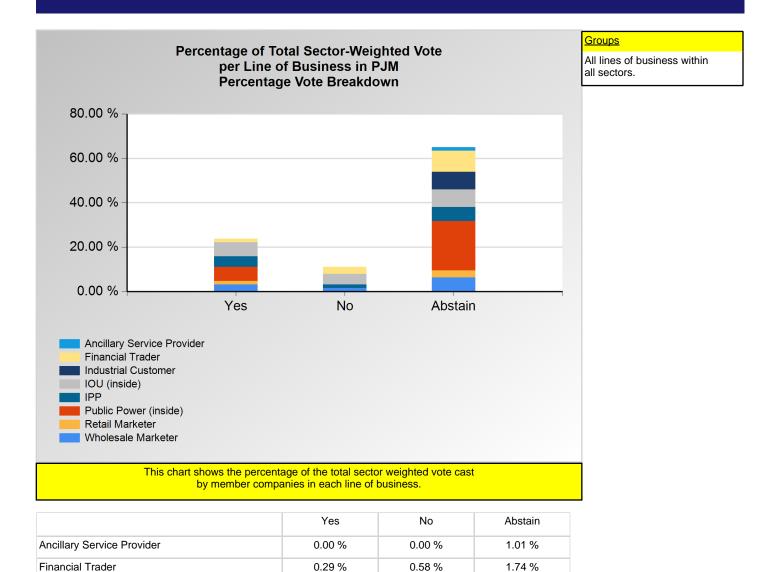
0.158 %

0.393 %

0.024 %

^{*}Refer to the Company Designations table "Company Sector" column to see each company's group designation found on this chart.

Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)



0.00 %

28.57 %

3.03 %

Industrial Customer

IOU (inside)

IPP

0.00 %

21.43 %

1.01 %

4.13 %

3.21 %

3.31 %

Public Power (inside)
 9.30 %
 0.00 %
 2.88 %

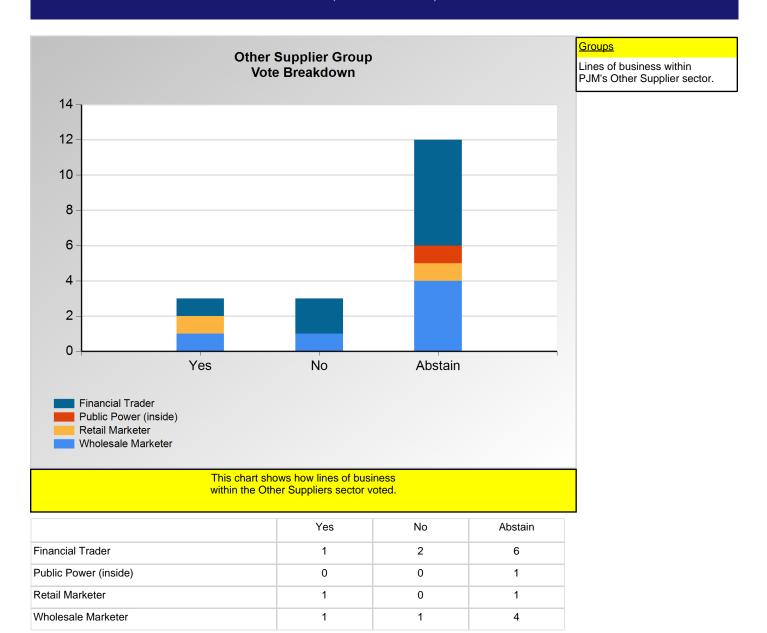
 Retail Marketer
 0.29 %
 0.00 %
 0.55 %

 Wholesale Marketer
 0.45 %
 0.29 %
 1.16 %

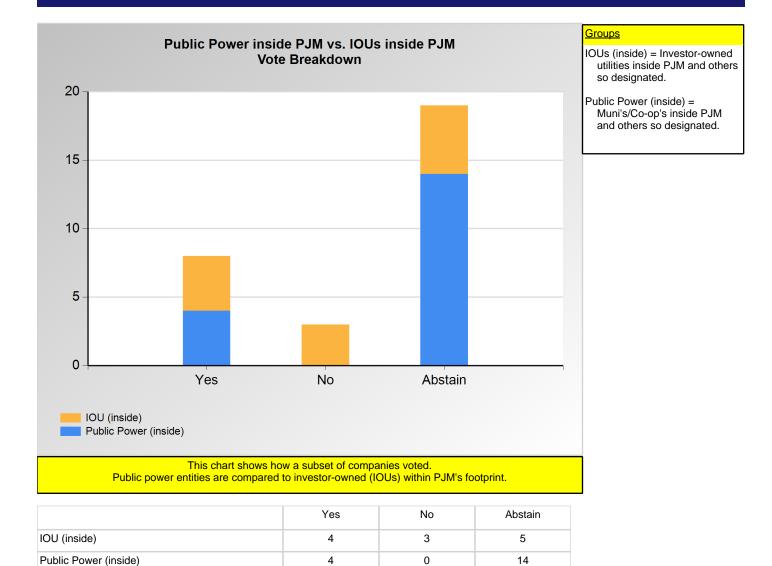
^{*}Refer to the Company Designations table "Line of Business Designation" column to see each company's group designation found on this chart.

SECTION 2

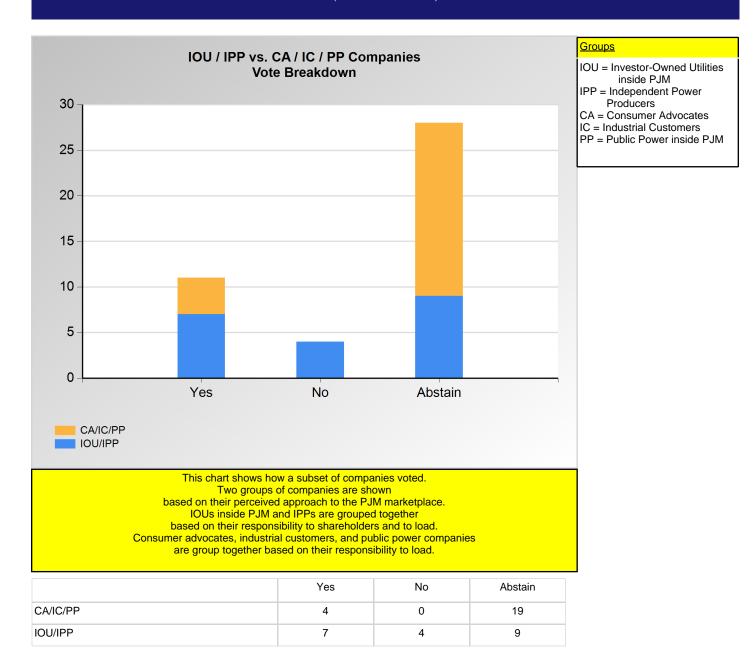
Charts displayed in this section include various portrayals of how various subsets of companies voted at the Members Committee (MC) meeting on this particular issue.



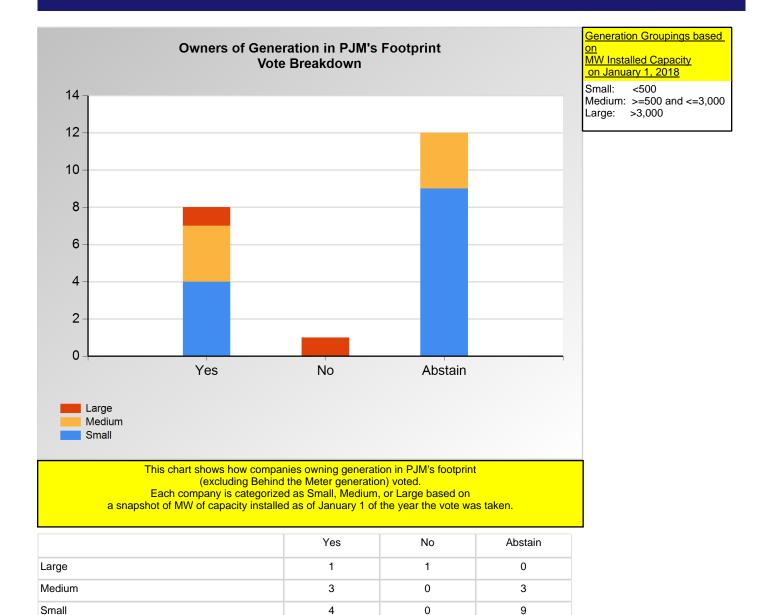
^{*}Refer to the Company Designations table "Line of Business Designation" column to see each company's group designation found on this chart.



^{*}Refer to the Company Designations table "Line of Business Designation" column to see each company's group designation found on this chart.

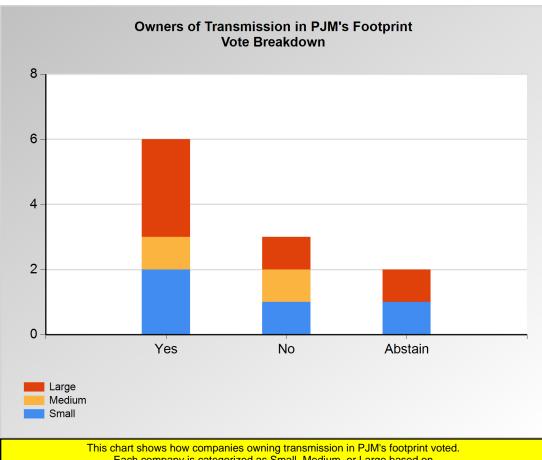


^{*}Refer to the Company Designations table "Line of Business Designation" column to see each company's group designation found on this chart.



^{*}Refer to the Company Designations table "Generation Group" column to see each company's group designation found on this chart.

Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)



Groups based on Revenue Regs (\$MM) on January 1, 2018

Small: <50

Medium: >=50 and <=150

Large: >150

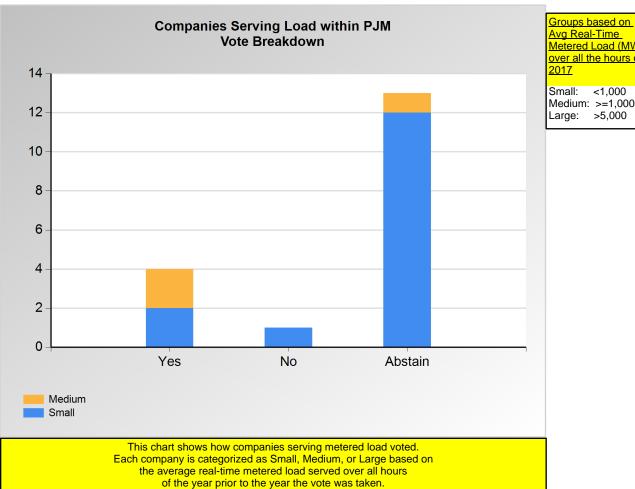
This chart shows how companies owning transmission in PJM's footprint voted.

Each company is categorized as Small, Medium, or Large based on
a snapshot of Revenue Requirements amount as of January 1 the year the vote was taken.

	Yes	No	Abstain
Large	3	1	1
Medium	1	1	0
Small	2	1	1

^{*}Refer to the Company Designations table "Transmission Group" column to see each company's group designation found on this chart.

Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)



	Yes	No	Abstain
Medium	2	0	1
Small	2	1	12

*Refer to the Company Designations table "Load Server Group" column to see each company's group designation found on this chart.

Avg Real-Time Metered Load (MW) over all the hours of the year <u> 2017</u>

Small: <1,000

Medium: >=1,000 and <=5,000

Large: >5,000

SECTION 3

The table reports displayed in this section provide important detail supporting the charts in the previous sections.

Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)

SECTOR DETAIL VOTE BREAKDOWN

	End-Use Custom	er	
Yes	No	Abstain	Sector Vote In Favor
0	0	6	NaN
		Air Products & Chemicals, Inc.	
		ArcelorMittal USA LLC	
		Lehigh Portland Cement Company	
		Linde, LLC	
		MeadWestvaco Corporation	
		Praxair, Inc.	
	Transmission Ow	ner	
Yes	No	Abstain	Sector Vote In Favor
4	3	3	57.1 %
American Transmission Systems, Inc.	Duquesne Light Company	Duke Energy Business Services LLC	
Appalachian Power Company	Exelon Business Services Company, LLC	Essential Power Rock Springs, LLC	
East Kentucky Power Cooperative, Inc.	Rockland Electric Company	Virginia Electric & Power Company	
Public Service Electric & Gas Company			
	Generation Own	er	
Yes	No	Abstain	Sector Vote In Favor
4	1	7	80.0 %
Grays Ferry Cogeneration Partnership	Talen Energy Marketing, LLC	Eastern Generation, LLC	
PPGI Fund A/B Development, LLC.		Elwood Energy, LLC	
Riverside Generating, LLC		Indiana Municipal Power Agency	
West Deptford Energy, LLC		Kimberly-Clark Corporation	
		NRG Power Marketing, LLC	
		Procter & Gamble Paper Products Company (The)	
		Wheelabrator Frackville Energy Co., Inc.	
	Electric Distribut	or	
Yes	No	Abstain	Sector Vote In Favor
4	0	13	100.0 %
American Municipal Power, Inc.		Allegheny Electric Cooperative, Inc.	
Old Dominion Electric Cooperative		Borough of Chambersburg	

Electric Distributor								
Yes	No	Abstain	Sector Vote In Favor					
4	0	13	100.0 %					
Southern Maryland Electric Cooperative, Inc.		Buckeye Power, Inc.						
Wabash Valley Power Association, Inc.		City of Dover, Delaware						
		Delaware Municipal Electric Corporation, Inc.						
		Easton Utilities Commission						
		Hagerstown Light Department						
		Illinois Municipal Electric Agency						
		Letterkenny Industrial Development Authority - PA						
		North Carolina Electric Membership Corporation						
		Northern Virginia Electric Cooperative (NOVEC)						
		Town of Williamsport (The)						
		Wellsboro Electric Company						
	Other Supplier							
Yes	No	Abstain	Sector Vote In Favor					
3	3	12	50.0 %					
Brookfield Energy Marketing LP	Citigroup Energy, Inc.	BioUrja Power, LLC						
Direct Energy Business, LLC	DC Energy, LLC	Energy Cooperative Association of Pennsylvania (The)						
Elliott Bay Energy Trading, LLC	Rainbow Energy Marketing Corporation	Forest Investment Group, LLC						
		Gerdau Ameristeel Energy, Inc.						
		H.Q. Energy Services (U.S.), Inc.						
		Industrial Energy Users-Ohio						
		Madison Gas & Electric Co.						
		Manatee Transmission LLC						
		New York Power Authority						
		Suffolk Fund LLC						
		Vitol Inc.						
		WPPI Energy						

Item 2a: Request to Amend the Agenda for Vote on Opportunity Cost Calculator (Vote Result: FAILED)

COMPANY DESIGNATIONS (Sorted by Sector then by Company Name)

Vote	Company Name (in PJM CRM system)	Company Sector (in PJM CRM System)	Company Line of Business (In PJM CRM system)	Buyer-Seller Group	Generation Group	Transmission Group	Load Server Group	Line of Business Designation
Abstain	Allegheny Electric Cooperative, Inc.	Electric Distributor	Transmission Owner	Buyer	Small	Small	Small	IOU (inside)
Yes	American Municipal Power, Inc.	Electric Distributor	Muni/Co-op	Buyer	Zero	Zero	Zero	Public Power (inside)
Abstain	Borough of Chambersburg	Electric Distributor	Muni/Co-op	Buyer	Small	Zero	Small	Public Power (inside)
Abstain	Buckeye Power, Inc.	Electric Distributor	Muni/Co-op	Seller	Medium	Zero	Medium	Public Power (inside)
Abstain	City of Dover, Delaware	Electric Distributor	Muni/Co-op	Buyer	Small	Zero	Small	Public Power (inside)
Abstain	Delaware Municipal Electric Corporation, Inc.	Electric Distributor	Muni/Co-op	Buyer	Small	Zero	Small	Public Power (inside)
Abstain	Easton Utilities Commission	Electric Distributor	Muni/Co-op	Buyer	Small	Zero	Small	Public Power (inside)
Abstain	Hagerstown Light Department	Electric Distributor	Muni/Co-op	Buyer	Zero	Zero	Zero	Public Power (inside)
Abstain	Illinois Municipal Electric Agency	Electric Distributor	Muni/Co-op	Buyer	Medium	Zero	Small	Public Power (inside)
Abstain	Letterkenny Industrial Development Authority - PA	Electric Distributor	Muni/Co-op	Buyer	Zero	Zero	Small	Public Power (inside)
Abstain	North Carolina Electric Membership Corporation	Electric Distributor	Muni/Co-op	Seller	Small	Zero	Small	Public Power (inside)
Abstain	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor	Muni/Co-op	Buyer	Zero	Zero	Small	Public Power (inside)
Yes	Old Dominion Electric Cooperative	Electric Distributor	Muni/Co-op	Buyer	Medium	Small	Small	Public Power (inside)
Yes	Southern Maryland Electric Cooperative, Inc.	Electric Distributor	Muni/Co-op	Buyer	Small	Small	Small	Public Power (inside)
Abstain	Town of Williamsport (The)	Electric Distributor	Muni/Co-op	Buyer	Zero	Zero	Zero	Public Power (inside)
Yes	Wabash Valley Power Association, Inc.	Electric Distributor	Muni/Co-op	Buyer	Small	Zero	Zero	Public Power (inside)
Abstain	Wellsboro Electric Company	Electric Distributor	Muni/Co-op	Buyer	Zero	Zero	Small	Public Power (inside)
Abstain	Air Products & Chemicals, Inc.	End-Use Customer	Industrial	Buyer	Zero	Zero	Zero	Industrial Customer
Abstain	ArcelorMittal USA LLC	End-Use Customer	Load Serving Entity	Buyer	Zero	Zero	Small	Retail Marketer
Abstain	Lehigh Portland Cement Company	End-Use Customer	Industrial	Buyer	Zero	Zero	Zero	Industrial Customer
Abstain	Linde, LLC	End-Use Customer	Industrial	Seller	Zero	Zero	Zero	Industrial Customer
Abstain	MeadWestvaco Corporation	End-Use Customer	Generation	Buyer	Zero	Zero	Zero	IPP
Abstain	Praxair, Inc.	End-Use Customer	Industrial	Seller	Zero	Zero	Zero	Industrial Customer

Vote	Company Name (in PJM CRM system)	Company Sector (in PJM CRM System)	Company Line of Business (In PJM CRM system)	Buyer-Seller Group	Generation Group	Transmission Group	Load Server Group	Line of Business Designation
Abstain	Eastern Generation, LLC	Generation Owner	Generation Owner/Ancillary Service Provider	Buyer	Zero	Zero	Zero	Ancillary Service Provider
Abstain	Elwood Energy, LLC	Generation Owner	Transmission Owner	Seller	Zero	Zero	Zero	IOU (inside)
Yes	Grays Ferry Cogeneration Partnership	Generation Owner	Generation	Seller	Small	Zero	Zero	IPP
Abstain	Indiana Municipal Power Agency	Generation Owner	Muni/Co-op	Buyer	Small	Zero	Small	Public Power (inside)
Abstain	Kimberly-Clark Corporation	Generation Owner	Generation	Seller	Small	Zero	Zero	IPP
Abstain	NRG Power Marketing, LLC	Generation Owner	Generation	Seller	Medium	Zero	Zero	IPP
Yes	PPGI Fund A/B Development, LLC.	Generation Owner	Generation	Buyer	Zero	Zero	Zero	IPP
Abstain	Procter & Gamble Paper Products Company (The)	Generation Owner	Industrial	Buyer	Zero	Zero	Zero	Industrial Customer
Yes	Riverside Generating, LLC	Generation Owner	Power Marketer	Seller	Zero	Zero	Zero	Wholesale Marketer
No	Talen Energy Marketing, LLC	Generation Owner	Generation	Seller	Large	Large	Zero	IPP
Yes	West Deptford Energy, LLC	Generation Owner	Generation	Seller	Medium	Zero	Zero	IPP
Abstain	Wheelabrator Frackville Energy Co., Inc.	Generation Owner	Generation	Seller	Small	Zero	Zero	IPP
Abstain	BioUrja Power, LLC	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader
Yes	Brookfield Energy Marketing LP	Other Supplier	Power Marketer	Seller	Small	Zero	Zero	Wholesale Marketer
No	Citigroup Energy, Inc.	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader
No	DC Energy, LLC	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader
Yes	Direct Energy Business, LLC	Other Supplier	Load Serving Entity	Buyer	Zero	Zero	Medium	Retail Marketer
Yes	Elliott Bay Energy Trading, LLC	Other Supplier	Financial Trader	Seller	Zero	Zero	Zero	Financial Trader
Abstain	Energy Cooperative Association of Pennsylvania (The)	Other Supplier	Muni/Co-op	Buyer	Zero	Zero	Zero	Public Power (inside)
Abstain	Forest Investment Group, LLC	Other Supplier	Financial Trader	Seller	Zero	Zero	Zero	Financial Trader
Abstain	Gerdau Ameristeel Energy, Inc.	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader
Abstain	H.Q. Energy Services (U.S.), Inc.	Other Supplier	Power Marketer	Seller	Zero	Zero	Zero	Wholesale Marketer
Abstain	Industrial Energy Users-Ohio	Other Supplier	Load Serving Entity	Seller	Zero	Zero	Zero	Retail Marketer
Abstain	Madison Gas & Electric Co.	Other Supplier	Power Marketer	Buyer	Zero	Zero	Zero	Wholesale Marketer
Abstain	Manatee Transmission LLC	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader
Abstain	New York Power Authority	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader
No	Rainbow Energy Marketing Corporation	Other Supplier	Power Marketer	Buyer	Zero	Zero	Zero	Wholesale Marketer
Abstain	Suffolk Fund LLC	Other Supplier	Financial Trader	Buyer	Zero	Zero	Zero	Financial Trader

Vote	Company Name (in PJM CRM system)	Company Sector (in PJM CRM System)	Company Line of Business (In PJM CRM system)	Buyer-Seller Group	Generation Group	Transmission Group	Load Server Group	Line of Business Designation
Abstain	Vitol Inc.	Other Supplier	Power Marketer	Buyer	Zero	Zero	Zero	Wholesale Marketer
Abstain	WPPI Energy	Other Supplier	Power Marketer	Buyer	Zero	Zero	Zero	Wholesale Marketer
Yes	American Transmission Systems, Inc.	Transmission Owner	Transmission Owner	Buyer	Zero	Large	Zero	IOU (inside)
Yes	Appalachian Power Company	Transmission Owner	Transmission Owner	Buyer	Large	Large	Zero	IOU (inside)
Abstain	Duke Energy Business Services LLC	Transmission Owner	Transmission Owner	Buyer	Zero	Zero	Zero	IOU (inside)
No	Duquesne Light Company	Transmission Owner	Transmission Owner	Seller	Zero	Medium	Small	IOU (inside)
Yes	East Kentucky Power Cooperative, Inc.	Transmission Owner	Transmission Owner	Buyer	Medium	Medium	Medium	IOU (inside)
Abstain	Essential Power Rock Springs, LLC	Transmission Owner	Transmission Owner	Seller	Zero	Zero	Zero	IOU (inside)
No	Exelon Business Services Company, LLC	Transmission Owner	Transmission Owner	Buyer	Zero	Zero	Zero	IOU (inside)
Yes	Public Service Electric & Gas Company	Transmission Owner	Transmission Owner	Buyer	Zero	Large	Zero	IOU (inside)
No	Rockland Electric Company	Transmission Owner	Transmission Owner	Buyer	Zero	Small	Zero	IOU (inside)
Abstain	Virginia Electric & Power Company	Transmission Owner	Transmission Owner	Buyer	Zero	Large	Zero	IOU (inside)