

Configuration of 3rd IA for 2016/2017 Delivery Year
1/29/2016
PJM Buy Bids & Sell Offers

These parameters reflect the release of new capacity procured in the 16/17 CP Transition Auction. A second set of parameters that do not release this new capacity are also posted. The release of this capacity is pending FERC review with FERC determination expected by 2/15/16.

								Price Points for PJM Buy Bids and PJM Sell Offers ****							
Location	Change in Reliability Requirement (MW)	Short-Term Resource Procurement Target Applicable Share (MW)	Uncleared PJM Buy Bids from Prior IA	Additional Buy Bids *	Release Excess Procured in Transitional Auction **	PJM Buy Bid (MW) ***	Capacity Type	Point 1 x-axis (MW)	Point 1 y-axis (\$/MW-Day)	Point 2 x-axis (MW)	Point 2 y-axis (\$/MW-Day)	Point 3 x-axis (MW)	Point 3 y-axis (\$/MW-Day)	Point 4 x-axis (MW)	Point 4 y-axis (\$/MW-Day)
RTO (Rest of)	-1,066.3	1,275.7	0.0	0.0	-1,012.3	-802.9	Annual	0.0	\$0.00	802.9	\$0.00	--	--	--	--
MAAC (Rest of)	-1,078.1	223.9	0.0	0.0	-727.2	-1,581.4	Annual	0.0	\$0.00	1551.1	\$0.00	1551.1	\$55.51	1581.4	\$58.43
EMAAC (Rest of)	-527.9	331.3	0.0	0.0	-13.5	-210.0	Annual	0.0	\$0.00	210.0	\$0.00	--	--	--	--
SWMAAC (Rest of)	-42.9	119.2	0.0	0.0	-0.8	75.5	Limited	0.0	\$124.93	75.5	\$94.58	--	--	--	--
PS (Rest of)	-174.9	89.3	-195.4	8.6	-1.6	-274.0	Annual	0.0	\$0.00	10.9	\$0.00	10.9	\$66.14	274.0	\$231.72
PS NORTH	-44.5	84.1	0.0	3.2	-1.4	41.4	Limited	0.0	\$260.34	41.4	\$210.37	--	--	--	--
DPL SOUTH	-71.5	39.9	-16.7	0.0	-1.8	-50.2	Annual	0.0	\$0.00	35.6	\$0.00	35.6	\$66.14	50.2	\$103.50
PEPCO	-85.5	111.2	-41.9	0.0	-0.6	-16.8	Annual	0.0	\$86.06	16.8	\$99.15	--	--	--	--
ATSI (Rest of)	38.5	142.8	0.0	0.0	-2,486.6	-2,305.3	Annual	0.0	\$0.00	2305.3	\$0.00	--	--	--	--
ATSI-CLEVELAND	-239.9	74.6	0.0	0.0	0.0	-165.3	Annual	0.0	\$0.00	160.3	\$0.00	160.3	\$72.70	165.3	\$79.81
TOTAL	-3,292.9	2,491.9	-254.0	11.8	-4,245.8	-5,289.0									

* Additional Buy Bids to account for Non-Viable DR commitments related to DR Operational Resource Flexibility Transition Provision & DR Legacy Direct Load Control Transition Provision.

** Release of excess new capacity procured in 2016/2017 CP Transition Auction is subject to FERC approval (Docket ER16-532-000) expected by 2/15/16.

*** A PJM Sell Offer is indicated by a negative PJM Buy Bid.

**** The price of a PJM buy bid is based on the Updated VRR Curve Increment which is the portion of the Updated VRR Curve remaining beyond the point representing all capacity already procured in prior auctions for the Delivery Year. The price of a PJM Sell Offer is based on the Updated VRR Curve Decrement which is the portion of the Updated VRR Curve to the left of the point representing all capacity already procured in prior auctions for the Delivery Year.

2016/2017 3rd IA Non-Viable DR Commitments Related to DR Operational Resource Flexibility Transition Provision & DR Legacy Direct Load Control Transition Provision.

Zone/Sub Zone	Annual DR	Extended Summer DR	Limited DR
AE	0.0	0.0	0.0
AEP	0.0	0.0	0.0
APS	0.0	0.0	0.0
ATSI	0.0	0.0	0.0
ATSI-C	0.0	0.0	0.0
BGE	0.0	0.0	0.0
COMED	0.0	0.0	0.0
DAYTON	0.0	0.0	0.0
DEOK	0.0	0.0	0.0
DLCO	0.0	0.0	0.0
DOM	0.0	0.0	0.0
DPL	0.0	0.0	0.0
DPLSOUTH	0.0	0.0	0.0
JCPL	0.0	0.0	0.0
METED	0.0	0.0	0.0
PECO	0.0	0.0	0.0
PENELEC	0.0	0.0	0.0
PEPCO	0.0	0.0	0.0
PPL	0.0	0.0	0.0
PS	0.0	0.0	8.6
PSNORTH	0.0	0.0	3.2
RECO	0.0	0.0	0.0
Total	0.0	0.0	11.8

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2016-2017 3rd IA Configuration

	LDA									
	RTO	MAAC	EMAAC	SWMAAC	PS	PS NORTH	DPL SOUTH	PEPCO	ATSI	ATSI-C
2nd IA Reliability Requirement	158,494.4	68,994.3	38,033.8	16,204.8	12,453.8	6,422.4	3,081.1	8,374.5	15,902.8	6,190.2
3rd IA Reliability Requirement with EE Addbacks	155,201.5	66,969.0	37,215.0	16,076.4	12,234.4	6,377.9	3,009.6	8,289.0	15,701.4	5,950.3
Change in Reliability Requirement *	-3,292.9	-2,025.3	-818.8	-128.4	-219.4	-44.5	-71.5	-85.5	-201.4	-239.9
Short-Term Resource Procurement Target Applicable Share	2,491.9	998.8	544.5	230.4	173.3	84.1	39.9	111.2	217.4	74.6
Change in CETL	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capacity Import Limit Margin after 2nd IA *	NA	0.0	582.1	3,409.5	0.0	0.0	453.0	3,635.9	0.0	1,447.7

* Capacity Import Limit Margin indicates the capacity import capability remaining into the LDA.

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2016-2017 RPM 1st IA Planning Parameters										
	RTO	Notes:								
Installed Reserve Margin (IRM)	15.7%	1. Load data: from 2014 Load Report.								
Pool-Wide Average EFORd	5.64%	2. Adjustments were made in the Zonal Peak Load Forecast of AEP, DEOK, and EKPC to account for EKPC integration.								
Forecast Pool Requirement (FPR)	1.0917									
Demand Resource (DR) Factor	0.953									
Preliminary Forecast Peak Load	162,749.7									
Short-Term Resource Procurement Target	0.8*BRA STRPT									
		LOCATIONAL DELIVERABILITY AREA (LDA)								
	RTO	MAAC	EMAAC	SWMAAC	PS	PS NORTH	DPL SOUTH	PEPCO	ATSI	ATSI-Cleveland
CETO	NA	6,840.0	8,260.0	5,250.0	6,180.0	2,450.0	1,430.0	3,270.0	5,850.0	3,360.0
CETL	NA	6,495.0	8,916.0	8,786.0	6,581.0	2,936.0	1,901.0	6,846.0	7,881.0	5,245.0
Reliability Requirement	177,673.8	70,854.0	39,070.0	16,785.0	12,709.0	6,438.0	3,196.0	8,732.0	16,019.0	6,265.0
Total Peak Load of FRR Entities	12,841.4	0	0	0	0	0	0	0	0	0
Preliminary FRR Obligation	14,019.0	0	0	0	0	0	0	0	0	0
Reliability Requirement adjusted for FRR	163,654.8	70,854.0	39,070.0	16,785.0	12,709.0	6,438.0	3,196.0	8,732.0	16,019.0	6,265.0
Short-Term Resource Procurement Target	3,322.6	1,331.8	726.1	307.2	231.1	112.1	53.2	148.3	289.9	99.5
Net CONE, \$/MW-Day (UCAP Price)	\$330.35	\$276.75	\$329.77	\$276.75	\$329.77	\$329.77	\$329.77	\$276.75	\$362.45	\$362.45
Variable Resource Requirement Curve:										
Point (a) UCAP Price, \$/MW-Day	\$495.53	\$415.13	\$494.65	\$415.13	\$494.65	\$494.65	\$494.65	\$415.13	\$543.67	\$543.67
Point (b) UCAP Price, \$/MW-Day	\$330.35	\$276.75	\$329.77	\$276.75	\$329.77	\$329.77	\$329.77	\$276.75	\$362.45	\$362.45
Point (c) UCAP Price, \$/MW-Day	\$66.07	\$55.35	\$65.95	\$55.35	\$65.95	\$65.95	\$65.95	\$55.35	\$72.49	\$72.49
Point (a) UCAP Level, MW	156,088.8	67,685.0	37,330.9	16,042.6	12,148.3	6,159.0	3,060.0	8,357.3	15,313.8	6,003.1
Point (b) UCAP Level, MW	161,746.7	70,134.6	38,681.6	16,622.9	12,587.7	6,381.5	3,170.4	8,659.2	15,867.6	6,219.7
Point (c) UCAP Level, MW	167,404.6	72,584.2	40,032.4	17,203.2	13,027.1	6,604.1	3,280.9	8,961.1	16,421.4	6,436.3
Customer-Funded ICTRs Awarded	NA	159.0	NA	444.0	NA	NA	37.0	191.0	NA	NA
Min Ext Summer Resource Req'ment, MW	156,324.5	61,796.6	28,005.1	6,975.5	5,369.4	3,134.1	1,147.8	1,432.6	7,434.0	778.4
Min Annual Resource Req'ment, MW	146,654.8	57,046.8	24,048.3	5,721.3	3,863.1	2,545.4	960.7	421.1	5,768.7	0.0
FRR Load Requirements:										
Min % Internal Resource Req'ment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Min % Ext Summer Resource Req'ment	95.5%	94.2%	78.2%	46.1%	47.2%	56.8%	43.9%	19.6%	52.3%	16.0%
Min % Annual Resource Req'ment	89.6%	87.0%	67.2%	37.8%	34.0%	46.2%	36.7%	5.8%	40.6%	0.0%

2016-2017 RPM Base Residual Auction Planning Parameters						4/30/2013	734653-v6			
Updated on 4/30/2013										
	RTO	Notes:								
Installed Reserve Margin (IRM)	15.6%	1. Load data: from 2013 Load Report.								
Pool-Wide Average EFORd	5.69%	2. Adjustments were made in the Zonal Peak Load Forecast of AEP, DEOK, and EKPC to account for EKPC integration.								
Forecast Pool Requirement (FPR)	1.0902	3. See "Net CONE" worksheet for Net CONE calculations.								
Demand Resource (DR) Factor	0.955	Planning Parameters were updated on 4/16/2013 to reflect: (1) FRR Elections for which FRR Obligations were satisfied by the 4/13/2013 deadline; (2) increased CETL for SWMAAC, PEPco and DPL SOUTH LDAs associated with customer-funded upgrades for which ICTR certifications were made by the 3/29/2013 deadline; and (3) 13 MW decrease in EKPC forecast load due to correction of historical load data used in original EKPC load forecast.								
Preliminary Forecast Peak Load	165,412.0									
Short-Term Resource Procurement Target	2.5%									
Pre-Clearing BRA Credit Rate, \$/MW	\$36,193.04	Limited DR Reliability Targets revised based on FERC approved alternate methodology (Filing 20121130-er13-486-000).								
		LOCATIONAL DELIVERABILITY AREA (LDA)								
	RTO	MAAC	EMAAC	SWMAAC	PS	PS NORTH	DPL SOUTH	PEPCO	ATSI	ATSI-Cleveland
CETO	NA	5,220.0	6,140.0	5,840.0	6,450.0	2,450.0	1,580.0	2,730.0	5,390.0	3,800.0
CETL	NA	6,495.0	8,916.0	8,786.0	6,581.0	2,936.0	1,901.0	6,846.0	7,881.0	5,245.0
Reliability Requirement	180,332.2	72,299.0	39,694.0	17,316.0	12,870.0	6,440.0	3,160.0	9,012.0	16,255.0	6,164.0
Total Peak Load of FRR Entities	13,029.4	0	0	0	0	0	0	0	0	0
Preliminary FRR Obligation	14,204.7	0	0	0	0	0	0	0	0	0
Reliability Requirement adjusted for FRR	166,127.5	72,299.0	39,694.0	17,316.0	12,870.0	6,440.0	3,160.0	9,012.0	16,255.0	6,164.0
Short-Term Resource Procurement Target	4,153.2	1,664.7	907.6	384.0	288.9	140.1	66.5	185.3	362.4	124.3
Net CONE, \$/MW-Day (UCAP Price)	\$330.53	\$276.90	\$329.94	\$276.90	\$329.94	\$329.94	\$329.94	\$276.90	\$362.64	\$362.64
Variable Resource Requirement Curve:										
Point (a) UCAP Price, \$/MW-Day	\$495.80	\$415.35	\$494.91	\$415.35	\$494.91	\$494.91	\$494.91	\$415.35	\$543.96	\$543.96
Point (b) UCAP Price, \$/MW-Day	\$330.53	\$276.90	\$329.94	\$276.90	\$329.94	\$329.94	\$329.94	\$276.90	\$362.64	\$362.64
Point (c) UCAP Price, \$/MW-Day	\$66.11	\$55.38	\$65.99	\$55.38	\$65.99	\$65.99	\$65.99	\$55.38	\$72.53	\$72.53
Point (a) UCAP Level, MW	157,663.0	68,758.0	37,756.3	16,482.7	12,247.1	6,132.8	3,011.5	8,592.8	15,470.8	5,879.7
Point (b) UCAP Level, MW	163,411.4	71,259.7	39,129.8	17,081.8	12,692.4	6,355.6	3,120.9	8,904.6	16,033.3	6,093.0
Point (c) UCAP Level, MW	169,159.7	73,761.4	40,503.3	17,681.0	13,137.8	6,578.4	3,230.2	9,216.5	16,595.7	6,306.3
Customer-Funded ICTRs Awarded	NA	159.0	NA	444.0	NA	NA	37.0	191.0	NA	NA
Min Ext Summer Resource Req'ment, MW	158,512.2	62,179.2	28,559.2	7,503.3	5,483.4	3,113.3	1,114.3	1,712.9	7,668.1	676.8
Min Annual Resource Req'ment, MW	149,469.1	58,109.3	24,606.9	6,183.2	4,214.2	2,503.1	903.5	750.0	6,200.8	0.0
FRR Load Requirements:										
Min % Internal Resource Req'ment	NA	98.8%	84.8%	55.5%	54.4%	62.5%	47.4%	29.2%	57.8%	18.5%
Min % Ext Summer Resource Req'ment	95.0%	86.0%	71.9%	43.3%	42.6%	48.3%	35.3%	19.0%	47.2%	11.0%
Min % Annual Resource Req'ment	89.1%	80.4%	62.0%	35.7%	32.7%	38.9%	28.6%	8.3%	38.1%	0.0%
LDA CETO/CETL Data; Zonal Peak Loads, Base Zonal FRR Scaling Factors, and Zonal Short-Term Resource Procurement Target.										
* (Asterisk) – LDA has adequate internal resources to meet the reliability criterion.										
ATSI, DPL and PS Zonal peak loads and Short-Term Resource Procurement Targets include the corresponding sub-zonal values.										
LDA/Zone	CETO	CETL (Changes shown in red)	CETL to CETO Ratio	2012 Zonal W/N Coincident Peak Loads	Preliminary Zonal Peak Load Forecast	Base Zonal FRR Scaling Factor	Short-Term Resource Procurement Target	FRR Portion of the Preliminary Peak Load Forecast	Preliminary Zonal Peak Load Forecast less FRR load**	
RTO	NA	NA	NA	154,501.8	165,412.0	NA	4,153.2	13,029.4	152,382.6	
AE	1,030	> 1185	> 115%	2,600.0	2,782.0	1.07000	75.8	0	2,782.0	
AEP	2,110	> 2427	> 115%	22,663.9	24,007.6	1.05929	324.5	12,102.3	11,905.3	
APS	1,970	> 2266	> 115%	8,210.0	8,786.0	1.07016	239.5	0	8,786.0	
ATSI	5,390	7,881	146%	12,660.0	13,295.0	1.05016	362.4	0	13,295.0	
ATSI-CLEVELAND	3,800	5,245	138%	NA	4,562.3	NA	124.3	0	4,562.3	
BGE	5,130	> 5900	> 115%	6,870.0	7,288.0	1.06084	198.6	0	7,288.0	
COMED	1,330	> 1530	> 115%	21,650.0	23,504.0	1.08564	640.6	0	23,504.0	
DAYTON	960	> 1104	> 115%	3,230.0	3,556.0	1.10093	96.9	0	3,556.0	
DEOK	3,800	> 4370	> 115%	5,246.5	5,572.2	1.06208	127.5	894.4	4,677.8	
DLCO	1,350	> 1553	> 115%	2,800.0	2,996.0	1.07000	81.7	0	2,996.0	
DOM	-70	*	*	18,570.0	20,415.0	1.09935	556.4	0	20,415.0	
DPL	1,000	> 1150	> 115%	3,950.0	4,212.0	1.06633	114.8	0	4,212.0	
DPL SOUTH	1,580	1,901	120%	NA	2,438.7	NA	66.5	0	2,438.7	
EKPC	580	> 667	> 115%	2,096.4	2,200.2	1.04951	59.1	32.7	2,167.5	
JCPL	3,300	> 3795	> 115%	5,960.0	6,381.0	1.07064	173.9	0	6,381.0	
METED	1,170	> 1346	> 115%	2,820.0	3,068.0	1.08794	83.6	0	3,068.0	
PECO	2,860	> 3289	> 115%	8,320.0	8,908.0	1.07067	242.8	0	8,908.0	
PENLC	1,300	> 1495	> 115%	2,740.0	3,044.0	1.11095	83.0	0	3,044.0	
PEPCO	2,730	> 1864	251%	6,540.0	6,800.0	1.03976	185.3	0	6,800.0	
PL (incl. UGI)	1,360	> 1566	> 115%	7,075.0	7,581.0	1.07152	206.6	0	7,581.0	
PS	6,450	6,581	102%	10,100.0	10,600.0	1.04950	288.9	0	10,600.0	
PS NORTH	2,450	2,936	120%	NA	5,141.0	NA	140.1	0	5,141.0	
RECO	NA	NA	NA	400.0	416.0	1.04000	11.3	0	416.0	
EMAAC	6,140	8,916	145%	NA	33,299.0	NA	907.6	0		** Used to allocate Short-Term Resource Procurement Target to Zones.
SWMAAC	5,840	8,786	150%	NA	14,088.0	NA	384.0	0		
Western MAAC	-3,840	*	*	NA	13,693.0	NA	373.2	0		
MAAC	5,220	6,495	124%	NA	61,080.0	NA	1,664.7	0		
Western PJM	5,940	> 6831	> 115%	NA	83,917.0	NA	1,932.0	13,029.4		
Limiting conditions at the CETL for modeled LDAs:										
LDA	Violation/Limiting Facility									
MAAC	Thermal/Sandy Springs-High Ridge 230 kV									
EMAAC	Voltage/Loss of Keeney - Rock Springs 500 kV									
SWMAAC	Thermal/Graceton - Bagley 230 kV									
PS	Thermal/Roseland - Cedar Grove 230 kV F									
PSNORTH	Thermal/Cedar Grove F - Clifton K 230 kV line									
DPLSOUTH	Thermal/Easton - Trappe Tap 69 kV									
PEPCO	Thermal/Conastone - Northwest 230 kV									
ATSI	Thermal/Ashtabula 345/138 kV transformer									
ATSI-CLEVELAND	Thermal/Ashtabula 345/138 kV transformer									

2016/2017 Updated 3rd IA Minimum Resource Requirements										
Forecast Pool Requirement	1.0952									
Demand Resource Factor	0.951									
Quantities are in Unforced Capacity Megawatts	PJM Region	MAAC	EMAAC	SWMAAC	PS	PS NORTH	DPL SOUTH	PEPCO	ATSI	ATSI-Cleveland
Reliability Requirement adjusted for FRR	155,201.5	66,969.0	37,215.0	16,076.4	12,234.4	6,377.9	3,009.6	8,289.0	15,701.4	5,950.3
CETL	NA	6,495.0	8,916.0	8,786.0	6,581.0	2,936.0	1,901.0	6,846.0	7,881.0	5,245.0
Updated Peak Load Forecast	152,356.6	56,009.0	30,384.0	12,951.0	9,719.0	4,846.9	2,234.1	6,288.0	12,396.0	4,147.7
FRR Peak Load	12,511.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Peak Load Forecast adjusted for FRR	139,845.0	56,009.0	30,384.0	12,951.0	9,719.0	4,846.9	2,234.1	6,288.0	12,396.0	4,147.7
Limited Demand Resource Reliability Target										
Percent of Preliminary Forecast Peak Load	4.3%	5.9%	6.1%	7.2%	6.9%	6.9%	5.5%	6.9%	4.9%	4.9%
Unforced Capacity, MW	6,263.1	3,441.8	1,930.4	971.2	698.5	348.3	128.0	451.9	632.6	211.7
Extended Summer Demand Resource Reliability Target										
Percent of Preliminary Forecast Peak Load	8.7%	11.4%	19.1%	11.1%	18.7%	19.2%	9.1%	26.5%	13.6%	34.9%
Unforced Capacity, MW	12,671.9	6,650.2	6,044.4	1,497.3	1,892.9	969.3	211.7	1,735.5	1,755.9	1,507.7
Minimum Resource Requirements for RPM, MW										
Minimum Extended Summer Resource Requirement	148,938.4	57,032.3	26,368.6	6,319.2	4,954.9	3,093.6	980.6	991.1	7,187.8	493.6
Minimum Annual Resource Requirement	142,529.6	53,823.8	22,254.6	5,793.2	3,760.5	2,472.7	896.8	0.0	6,064.5	0.0
Minimum Resource Requirements for FRR (% Obligation)										
Minimum Extended Summer Resource Requirement	95.9%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Annual Resource Requirement	91.7%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Previously Committed Capacity (Cleared in all auctions and TA - Non-Viable DR)	PJM Region	MAAC	EMAAC	SWMAAC	PS	PS NORTH	DPL SOUTH	PEPCO	ATSI	ATSI-Cleveland
Limited Resources	8,652.3	3,299.1	1,055.4	1,060.2	338.9	168.2	87.4	223.0	925.5	268.9
Extended Summer Resources	1,319.4	713.0	307.5	337.3	52.9	14.8	0.0	341.2	312.1	24.5
Annual Resources (Including CP Resources)	157,709.3	60,889.7	29,456.6	9,820.3	5,798.0	3,372.0	1,639.0	4,831.6	9,714.0	2,275.5
Extended Summer Resources + Annual Resources	159,028.7	61,602.7	29,764.1	10,157.6	5,850.9	3,386.8	1,639.0	5,172.8	10,026.1	2,300.0
Total Resources	167,681.0	64,901.8	30,819.5	11,217.8	6,189.8	3,555.0	1,726.4	5,395.8	10,951.6	2,568.9

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