## Appendix – Errata

## Section 3, Energy Market

Change: On page 98 update text and Table 3-32 as shown below:

In 2014, the average hourly up-to congestion submitted MW decreased 5.0 percent and cleared MW decreased 4.0 percent, compared to 2013, as a result of the decreases after September 8.

## Table 3-32 Hourly average number of cleared and submitted up-to congestion bids by month: 2013 and 2014

Up-to Congestion								
				Average				
	Average Cleared	Average	Average Cleared	Submitted				
Year	MW	Submitted MW	Volume	Volume				
2013 Jan	44,844	157,229	1,384	4,205				
2013 Feb	46,351	144,066	1,419	3,862				
2013 Mar	49,003	163,178	1,467	3,745				
2013 Apr	57,938	193,366	1,683	4,229				
2013 May	59,700	203,521	1,679	4,754				
2013 Jun	60,210	229,912	1,984	5,997				
2013 Jul	49,674	201,630	1,658	5,300				
2013 Aug	44,765	157,748	1,477	3,923				
2013 Sep	45,412	136,813	1,408	3,507				
2013 Oct	45,918	145,026	1,705	4,267				
2013 Nov	54,643	171,439	2,108	5,365				
2013 Dec	60,588	197,092	2,204	5,948				
2013 Annual	51,598	175,255	1,682	4,596				
2014 Jan	55,969	199,708	2,436	7,056				
2014 Feb	64,123	229,256	3,262	9,020				
2014 Mar	66,003	243,469	3,527	10,920				
2014 Apr	73,453	224,924	3,216	8,390				
2014 May	73,853	251,463	3,057	8,860				
2014 Jun	69,050	235,590	2,781	8,221				
2014 Jul	66,800	212,485	2,855	7,856				
2014 Aug	66,272	214,713	3,003	7,933				
2014 Sep	25,370	86,237	1,210	2,979				
2014 Oct	9,298	30,502	512	1,289				
2014 Nov	11,890	36,600	661	1,633				
2014 Dec	12,952	37,177	770	1,770				
2014 Annual	49,511	166,537	2,269	6,315				

Change: On page 101, update Table 3-36 to the following:

## Table 3-35 PJM up-to congestion transactions by type of parent organization (MW): 2013 and 2014

	2013	2014				
	Total Up-to		Total Up-to			
Category	Congestion MW	Percent	Congestion MW	Percent		
Financial	432,126,914	95.6%	418,069,242	96.4%		
Physical	19,875,032	4.4%	15,649,759	3.6%		
Total	452,001,946	100.0%	433,719,001	100.0%		

Change: On page 101, update Table 3-39 to the following:

# Table 3-39 PJM cleared up-to congestion import bids by top ten source and sink pairs (MW): 2013 and 2014

2013 Imports								
Source	Source Type	Sink	Sink Type	MW				
OVEC	INTERFACE	DEOK	ZONE	1,277,685				
OVEC	INTERFACE	STUART 1	AGGREGATE	1,033,271				
OVEC	INTERFACE	MIAMI FORT 7	AGGREGATE	971,443				
NYIS	INTERFACE	HUDSON BC	AGGREGATE	894,530				
NORTHWEST	INTERFACE	ZION 1	AGGREGATE	733,906				
NORTHWEST	INTERFACE	BYRON 1	AGGREGATE	576,253				
OVEC	INTERFACE	BECKJORD 6	AGGREGATE	569,729				
OVEC	INTERFACE	SPORN 2	AGGREGATE	524,883				
IMO	INTERFACE	WESTERN HUB	HUB	489,032				
SOUTHEAST	INTERFACE	CLOVER	EHVAGG	482,986				
Top ten total				7,553,718				
PJM total				40,902,161				
Top ten total as percent of PJM total 18.								
2014								
		Imports						
Source	Source Type		Sink Type	MW				
HUDSONTP	INTERFACE	LEONIA 230 T-2	AGGREGATE	979,669				
SOUTHEAST	INTERFACE	EDANVILL T1	AGGREGATE	759,991				
MISO	INTERFACE	COOK	EHVAGG	666,261				
OVEC	INTERFACE	BIG SANDY CT1	AGGREGATE	603,745				
NORTHWEST	INTERFACE	N ILLINOIS HUB	HUB	571,373				
MISO	INTERFACE	AEP-DAYTON HUB	HUB	462,719				
NEPTUNE	INTERFACE	SOUTHRIV 230	AGGREGATE	436,574				
SOUTHEAST	INTERFACE	CLOVER	EHVAGG	428,397				
OVEC	INTERFACE	AEP-DAYTON HUB	HUB	402,375				
HUDSONTP	INTERFACE	LEONIA 230 T-1	AGGREGATE	383,260				
Top ten total				5,694,366				
				5,694,366 29,282,620				

**Change:** On page 102, update Table 3-40 to the following:

Table 3-40 PJM cleared up-to con	ngestion export	bids by top ten	source and sink pairs
(MW): 2013 and 2014			

2013								
0		xports	0:	84347				
Source	Source Type	Sink	Sink Type	MW				
JEFFERSON	EHVAGG	OVEC	INTERFACE	2,337,713				
ROCKPORT	EHVAGG	SOUTHWEST		1,489,113				
21 KINCA ATR24304		SOUTHWEST		1,347,573				
SULLIVAN-AEP	EHVAGG	OVEC	INTERFACE	1,233,366				
TANNERS CRK 4	AGGREGATE		INTERFACE	1,157,724				
ROCKPORT	EHVAGG	OVEC	INTERFACE	1,007,610				
F387 CHICAGOH	AGGREGATE		INTERFACE	828,452				
GAVIN	EHVAGG	OVEC	INTERFACE	706,465				
21 KINCA ATR24304	AGGREGATE		INTERFACE	688,745				
EAST BEND 2	AGGREGATE	OVEC	INTERFACE	661,555				
Top ten total				11,458,315				
PJM total				49,738,703				
Top ten total as percer	23.0%							
2014								
		xports						
Source	Source Type	Sink	Sink Type	MW				
JEFFERSON	EHVAGG	OVEC	INTERFACE	2,073,052				
TANNERS CRK 4	AGGREGATE	SOUTHWEST	INTERFACE	1,782,780				
TANNERS CRK 4	AGGREGATE	OVEC	INTERFACE	809,364				
21 KINCA ATR24304	AGGREGATE	SOUTHWEST	INTERFACE	693,816				
				095,010				
ROCKPORT	EHVAGG	SOUTHWEST	-	607,054				
ROCKPORT JEFFERSON	EHVAGG EHVAGG	SOUTHWEST SOUTHWEST	INTERFACE					
			INTERFACE	607,054				
JEFFERSON	EHVAGG	SOUTHWEST OVEC	INTERFACE INTERFACE INTERFACE	607,054 606,723				
JEFFERSON ROCKPORT	EHVAGG EHVAGG	SOUTHWEST OVEC SOUTHWEST	INTERFACE INTERFACE INTERFACE	607,054 606,723 564,629				
JEFFERSON ROCKPORT EAST BEND 2	EHVAGG EHVAGG AGGREGATE	SOUTHWEST OVEC SOUTHWEST NIPSCO	INTERFACE INTERFACE INTERFACE INTERFACE	607,054 606,723 564,629 427,156				
JEFFERSON ROCKPORT EAST BEND 2 UNIV PARK 1-6	EHVAGG EHVAGG AGGREGATE AGGREGATE	SOUTHWEST OVEC SOUTHWEST NIPSCO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	607,054 606,723 564,629 427,156 426,011				
JEFFERSON ROCKPORT EAST BEND 2 UNIV PARK 1-6 BECKJORD 6	EHVAGG EHVAGG AGGREGATE AGGREGATE	SOUTHWEST OVEC SOUTHWEST NIPSCO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	607,054 606,723 564,629 427,156 426,011 418,718				

**Change:** On page 102, update Table 3-41 to the following:

Table 3-41 PJM cleared up-to	congestion whe	el bids by top	ten source	and sink pairs
(MW): 2013 and 2014				

		2013 Wheels						
Source	Source Type	Sink	Sink Type	MW				
MISO	INTERFACE	NORTHWEST		766,264				
NORTHWEST	INTERFACE	MISO	INTERFACE	677,453				
SOUTHWEST	INTERFACE	SOUTHEXP	INTERFACE	479,746				
IMO	INTERFACE	NYIS	INTERFACE	330,340				
MISO	INTERFACE	NIPSCO	INTERFACE	303,181				
NORTHWEST	INTERFACE	NIPSCO	INTERFACE	143,047				
OVEC	INTERFACE	IMO	INTERFACE	131,155				
MISO	INTERFACE	SOUTHEXP	INTERFACE	118,693				
LINDENVFT	INTERFACE	NYIS	INTERFACE	86,796				
MISO	INTERFACE	OVEC	INTERFACE	83,065				
Top ten total				3,119,740				
PJM total				4,177,320				
Top ten total as percent of PJM total 74.7								
2014								
Wheels								
		Wheels						
Source	Source Type	Wheels Sink	Sink Type	MW				
Source NORTHWEST			Sink Type	MW 775,527				
NORTHWEST OVEC		Sink MISO SOUTHEXP	INTERFACE INTERFACE	775,527 344,298				
NORTHWEST OVEC MISO	INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST	INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888				
NORTHWEST OVEC MISO SOUTHWEST	INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP	INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763				
NORTHWEST OVEC MISO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO	INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC MISO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST SOUTHEXP	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854 97,877				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC MISO NYIS	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST SOUTHEXP IMO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854 97,877 97,249				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC MISO NYIS IMO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST SOUTHEXP IMO NYIS	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854 97,877 97,249 91,942				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC MISO NYIS IMO NORTHWEST	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST SOUTHEXP IMO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854 97,877 97,249 91,942 89,794				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC MISO NYIS IMO	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST SOUTHEXP IMO NYIS	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854 97,877 97,249 91,942				
NORTHWEST OVEC MISO SOUTHWEST MISO OVEC MISO NYIS IMO NORTHWEST	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	Sink MISO SOUTHEXP NORTHWEST SOUTHEXP NIPSCO SOUTHWEST SOUTHEXP IMO NYIS	INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE INTERFACE	775,527 344,298 334,888 255,763 128,693 120,854 97,877 97,249 91,942 89,794				

**Change:** On page 103, update Table 3-42 to the following:

Table 3-42 PJM cleared up-to congestion internal bids by top ten source and sink pairs	
(MW): 2013 and 2014	

		2013 Internal							
Source	Source Type	Sink	Sink Type	MW					
ATSI GEN HUB	HUB	ATSI	ZONE	5,675,792					
SUNBURY 1-3	AGGREGATE	CITIZENS	AGGREGATE	4,405,866					
MT STORM	EHVAGG	GREENLAND GAP	EHVAGG	3,910,366					
FE GEN	AGGREGATE	ATSI	ZONE	2,980,966					
WYOMING	EHVAGG	BROADFORD	EHVAGG	2,939,931					
AEP-DAYTON HUB	HUB	WESTERN HUB	HUB	2,142,829					
SUNBURY 1-3	AGGREGATE	FOSTER WHEELER	AGGREGATE	1,917,015					
WHITPAIN	EHVAGG	ELROY	EHVAGG	1,868,461					
DAY	ZONE	BUCKEYE - DPL	AGGREGATE	1,559,654					
CORDOVA	AGGREGATE	QUAD CITIES 2	AGGREGATE	1,522,733					
Top ten total				28,923,614					
PJM total				357,183,762					
Top ten total as per	cent of PJM tota	al		8.1%					
2014									
		Internal							
Source	Source Type		Sink Type	MW					
MOUNTAINEER	EHVAGG	GAVIN	EHVAGG	6,627,189					
DAY	ZONE	BUCKEYE - DPL	AGGREGATE	5,207,776					
MOUNTAINEER	EHVAGG	FLATLICK	EHVAGG	4,297,331					
ATSI GEN HUB	HUB	ATSI	ZONE	4,114,584					
VERNON BK 4	AGGREGATE		AGGREGATE	3,733,527					
FE GEN	AGGREGATE	ATSI	ZONE	3,357,260					
FE GEN JEFFERSON	AGGREGATE EHVAGG	ATSI COOK	ZONE EHVAGG	3,357,260 2,548,989					
FE GEN JEFFERSON DUMONT	AGGREGATE EHVAGG EHVAGG	ATSI COOK COOK	ZONE EHVAGG EHVAGG	3,357,260 2,548,989 2,466,575					
FE GEN JEFFERSON DUMONT WESTERN HUB	AGGREGATE EHVAGG EHVAGG HUB	ATSI COOK COOK AEP-DAYTON HUB	ZONE EHVAGG EHVAGG HUB	3,357,260 2,548,989 2,466,575 2,147,264					
FE GEN JEFFERSON DUMONT WESTERN HUB TANNERS CRK 4	AGGREGATE EHVAGG EHVAGG HUB	ATSI COOK COOK	ZONE EHVAGG EHVAGG	3,357,260 2,548,989 2,466,575 2,147,264 1,813,835					
FE GEN JEFFERSON DUMONT WESTERN HUB	AGGREGATE EHVAGG EHVAGG HUB	ATSI COOK COOK AEP-DAYTON HUB	ZONE EHVAGG EHVAGG HUB	3,357,260 2,548,989 2,466,575 2,147,264 1,813,835 36,314,330					
FE GEN JEFFERSON DUMONT WESTERN HUB TANNERS CRK 4	AGGREGATE EHVAGG EHVAGG HUB	ATSI COOK COOK AEP-DAYTON HUB	ZONE EHVAGG EHVAGG HUB	3,357,260 2,548,989 2,466,575 2,147,264 1,813,835					

Change: On page 104, update Table 3-44 to the following:

Table 3-44 PJM cleared up-to congestion transactions	s by type (MW): 2013 and 2014
--	-------------------------------

	2013						
	Cleared Up-to Congestion Bids						
	Import	Export	Wheel	Internal	Total		
Top ten total (MW)	7,553,718	11,458,315	3,119,740	28,923,614	51,055,387		
PJM total (MW)	40,902,161	49,738,703	4,177,320	357,183,762	452,001,946		
Top ten total as percent of PJM total	18.5%	23.0%	74.7%	8.1%	11.3%		
PJM total as percent of all up-to congestion transactions	9.0%	11.0%	0.9%	79.0%	100.0%		
			2014				
		Cleared Up	o-to Conges	tion Bids			
	Import	Export	Wheel	Internal	Total		
Top ten total (MW)	5,694,366	8,409,302	2,336,885	36,314,330	52,754,883		
PJM total (MW)	29,282,620	30,285,649	2,984,112	371,166,620	433,719,001		
Top ten total as percent of PJM total	19.4%	27.8%	78.3%	9.8%	12.2%		
PJM total as percent of all up-to congestion transactions	6.8%	7.0%	0.7%	85.6%	100.0%		

## Section 7, Net Revenue

Change: On page 259, update text and Table 7-20 through Table 7-23 as follows:

Table 7-20 Energy Market net revenue for a wind installation (Dollars per installed MWyear)

		20	012		2013			2014				Percent Change in	
Zone	Energy	Credits	Capacity	Total	Energy	Credits	Capacity	Total	Energy	Credits	Capacity	Total	2014 Total Revenue
ComEd	67,781	60,971	2,435	131,186	83,453	66,324	1,007	150,783	107,998	71,840	3,671	183,508	22%
PENELEC	68,929	51,529	5,439	125,897	87,404	58,951	8,189	154,545	126,556	61,619	7,466	195,641	27%

In 2014, a new wind installation would have received sufficient net revenue to cover levelized total costs in PENELEC or but not in ComEd.

Table 7-21 Percent of 20-year levelized total costs recovered by wind energy and capacity net revenue (Dollars per installed MW-year)

Zone	2012	2013	2014
ComEd	67%	77%	93%
PENELEC	64%	79%	99%

Table 7-22 PSEG Energy Market net revenue for a solar installation (Dollars per installed MW-year)

		20	12		2013				2014				Percent Change in
Zone	Energy	Credits	Capacity	Total	Energy	Credits	Capacity	Total	Energy	Credits	Capacity	Total	2014 Total Revenue
PSEG	50,363	328,733	17,565	396,661	81,813	328,720	26,516	437,050	100,313	323,268	24,995	448,577	3%

Table 7-23 Percent of 20-year levelized total costs recovered by solar energy and capacity net revenue (Dollars per installed MW-year)

Zone	2012	2013	2014
PSEG	100%	166%	190%

**Change:** On page 262, update Table 7-28 as follows:

Table 7-28 Class average net revenue from energy and ancillary markets and associated recovery of class average avoidable costs and total revenue from all markets and associated recovery of class average avoidable costs: 2014<sup>1</sup>

Technology	Total Installed Capacity (ICAP)	Class average energy and ancillary net revenue (\$/MW-year)	Class average energy net revenue and capacity revenue (\$/MW-year)	Class average avoidable costs (\$/MW-year)
CC - NUG Cogeneration Frame B or E Technology	2,078	\$76,130	\$138,722	\$48,810
CC - Two on Three on One Frame F Technology	10,789	\$37,188	\$85,377	\$21,810
CT - First & Second Generation Aero (P&W FT 4)	3,505	\$23,014	\$78,718	\$9,439
CT - First & Second Generation Frame B	3,282	\$13,355	\$69,202	\$10,974
CT - Second Generation Frame E	9,826	\$15,641	\$58,708	\$9,707
CT - Third Generation Aero	3,864	\$26,031	\$75,112	\$19,799
CT - Third Generation Frame F	10,418	(\$5,350)	\$30,746	\$9,812
Diesel	480	\$29,717	\$78,206	\$9,627
Hydro	6,869	\$480,087	\$529,312	\$24,646
Nuclear	31,661	\$302,462	\$346,518	NA
Oil or Gas Steam	9,545	\$38,120	\$94,129	\$40,223
Sub-Critical Coal	28,284	\$69,316	\$102,224	\$68,463
Super Critical Coal	20,716	\$89,723	\$134,320	\$117,933

<sup>&</sup>lt;sup>1</sup> 20-year levelized total cost used in place of Nuclear ACR.

**Change:** On page 264 and 265, delete text and update Table 7-32 through Table 7-35 as follows:

**Change:** Table 7-32 shows the avoidable cost recovery from PJM energy and ancillary services markets by quartiles. In 2014, a substantial portion of units did not achieve full recovery of avoidable costs through energy markets alone. Although there is not good public data on nuclear unit avoidable costs, the table includes the total annualized costs for a new nuclear unit as a rough proxy for the avoidable costs of an existing nuclear unit. This is only an approximation to provide a rough benchmark for avoidable cost results.

Table 7-32 Avoidable cost recovery by quartile from energy and ancillary net revenue for select technologies

	Recovery of avoidable costs from energy and ancillary net revenue							
Technology	First quartile	Second quartile	Third quartile					
CC - NUG Cogeneration Frame B or E Technology	31%	72%	109%					
CC - Two on Three on One Frame F Technology	0%	90%	140%					
CT - First & Second Generation Aero (P&W FT 4)	32%	184%	319%					
CT - First & Second Generation Frame B	NA	67%	240%					
CT - Second Generation Frame E	NA	77%	225%					
CT - Third Generation Aero	28%	61%	133%					
CT - Third Generation Frame F	15%	79%	260%					
Diesel	75%	536%	710%					
Hydro	820%	1,039%	1,592%					
Nuclear	NA	NA	NA					
Oil or Gas Steam	NA	25%	87%					
Sub-Critical Coal	10%	91%	143%					
Super Critical Coal	83%	113%	172%					

**Change:** Table 7-33 shows the avoidable cost recovery from all PJM markets by quartiles. The net revenues from all markets cover avoidable costs for most technology types. The nuclear results are understated as a result of using the total annualized costs for a new nuclear unit is used as a rough approximation of the avoidable costs of an existing nuclear unit.

Table 7-33	Avoidable	cost	recovery	by	quartile	from	all	PJM	Markets	for	select
technologies	s for 2014										

	Recovery of a	ets	
Technology	First quartile	Second quartile	Third quartile
CC - NUG Cogeneration Frame B or E Technology	179%	211%	276%
CC - Two on Three on One Frame F Technology	270%	378%	500%
CT - First & Second Generation Aero (P&W FT 4)	545%	783%	1,057%
CT - First & Second Generation Frame B	494%	611%	862%
CT - Second Generation Frame E	290%	415%	644%
CT - Third Generation Aero	165%	284%	368%
CT - Third Generation Frame F	303%	454%	704%
Diesel	554%	1,378%	1,570%
Hydro	1,037%	1,374%	1,808%
Nuclear	NA	NA	NA
Oil or Gas Steam	192%	259%	324%
Sub-Critical Coal	78%	134%	207%
Super Critical Coal	104%	173%	255%

## Table 7-34 Proportion of units recovering avoidable costs from energy and ancillary markets

Units with full recovery from energy and ancillary services markets									
Technology	2009	2010	2011	2012	2013	2014			
CC - NUG Cogeneration Frame B or E Technology	41%	81%	52%	40%	61%	50%			
CC - Two on Three on One Frame F Technology	22%	54%	53%	52%	56%	59%			
CT - First & Second Generation Aero (P&W FT 4)	27%	33%	16%	12%	19%	71%			
CT - First & Second Generation Frame B	28%	27%	26%	20%	8%	50%			
CT - Second Generation Frame E	52%	32%	40%	43%	38%	65%			
CT - Third Generation Aero	20%	48%	51%	43%	23%	46%			
CT - Third Generation Frame F	32%	29%	31%	62%	54%	51%			
Diesel	62%	77%	68%	55%	53%	72%			
Hydro and Pumped Storage	60%	99%	96%	99%	99%	99%			
Nuclear	NA	NA	NA	NA	NA	NA			
Oil or Gas Steam	42%	52%	42%	39%	42%	48%			
Sub-Critical Coal	28%	76%	53%	30%	44%	66%			
Super Critical Coal	37%	80%	53%	28%	31%	79%			

#### Table 7-35 Proportion of units recovering avoidable costs from all markets

	Units with full recovery from all markets								
Technology	2009	2010	2011	2012	2013	2014			
CC - NUG Cogeneration Frame B or E Technology	91%	90%	92%	90%	100%	100%			
CC - Two on Three on One Frame F Technology	100%	89%	87%	90%	85%	93%			
CT - First & Second Generation Aero (P&W FT 4)	98%	90%	90%	90%	86%	97%			
CT - First & Second Generation Frame B	99%	99%	95%	94%	90%	97%			
CT - Second Generation Frame E	100%	91%	90%	94%	94%	100%			
CT - Third Generation Aero	74%	99%	99%	90%	73%	96%			
CT - Third Generation Frame F	100%	96%	93%	92%	90%	97%			
Diesel	100%	98%	91%	85%	74%	93%			
Hydro and Pumped Storage	100%	100%	100%	100%	100%	100%			
Nuclear	NA	NA	NA	NA	NA	NA			
Oil or Gas Steam	95%	90%	68%	69%	77%	88%			
Sub-Critical Coal	80%	94%	76%	48%	60%	80%			
Super Critical Coal	77%	100%	80%	39%	64%	87%			

## Section 8, Environmental and Renewables

On Page 281, Table 8-10 should be updated to the following information.

	Pumped- Run-of-River										
Jurisdiction	Coal	Landfill Gas	Natural Gas	Oil	Storage Hydro	Hydro	Solar	Solid Waste	Waste Coal	Wind	Total
Delaware	0.0	8.1	1,797.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	1,818.1
Illinois	0.0	49.5	0.0	0.0	0.0	0.0	9.0	0.0	0.0	2,187.4	2,245.9
Indiana	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	1,452.4	1,460.6
lowa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	185.0	185.0
Kentucky	0.0	0.0	0.0	0.0	0.0	61.0	0.0	0.0	0.0	0.0	61.0
Maryland	0.0	25.1	0.0	69.0	0.0	494.4	48.8	128.2	0.0	120.0	885.5
Michigan	0.0	8.0	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	21.9
New Jersey	0.0	81.7	0.0	0.0	453.0	11.5	228.5	0.0	0.0	4.5	779.1
North Carolina	0.0	0.0	0.0	0.0	0.0	352.5	0.0	162.0	0.0	0.0	514.5
Ohio	13,864.0	64.7	580.0	156.0	0.0	47.4	1.1	0.0	0.0	403.0	15,116.2
Pennsylvania	0.0	222.0	2,346.0	0.0	1,269.0	888.3	19.5	345.8	1,611.0	1,337.7	8,039.3
Tennessee	0.0	0.0	0.0	0.0	0.0	52.0	0.0	50.0	0.0	0.0	102.0
Virginia	0.0	130.1	0.0	17.0	5,166.2	350.5	0.0	444.9	585.0	0.0	6,693.7
West Virginia	8,772.0	2.2	519.0	0.0	0.0	213.9	0.0	0.0	165.0	583.3	10,255.4
PJM Total	22,636.0	591.4	5,242.0	255.0	6,888.2	2,493.5	306.9	1,130.9	2,361.0	6,273.2	48,178.1

Table 8-10 PJM renewable capacity by Jurisdiction (MW), on December 31, 2014

On Page 281, Table 8-11 should be updated to the following information.

Table 8-11 Renewable capacity by Jurisdiction, non-PJM units registered in GATS (MW),
on December 31, 2014

1. A. A. A. A.	0	11	Landfill	Natural	Other	Other	0.1	Solid	14.5 - 1	<b>T</b> . ( . )
Jurisdiction		Hydroelectric	Gas	Gas	Gas	Source	Solar	Waste	Wind	Total
Alabama	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5	0.0	87.5
Delaware	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	2.1	62.1
Georgia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	258.9	0.0	258.9
Illinois	0.0	6.6	92.4	0.0	0.6	0.0	22.3	0.0	502.5	624.4
Indiana	0.0	0.0	47.2	0.0	6.2	94.6	2.4	0.0	180.0	330.4
lowa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	185.0	185.0
Kentucky	600.0	2.2	16.0	0.0	0.0	0.0	1.4	93.0	0.0	712.6
Maryland	65.0	0.0	13.7	129.0	0.0	0.0	178.2	11.2	0.3	397.4
Michigan	55.0	1.3	3.2	0.0	0.0	0.0	1.2	0.0	0.0	60.7
Missouri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	446.0	446.0
New Jersey	0.0	0.0	55.0	0.0	8.3	23.3	1,134.3	0.0	4.9	1,225.9
New York	0.0	158.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	159.1
North Carolina	0.0	27.5	0.0	0.0	0.0	0.0	8.6	30.0	0.0	66.1
Ohio	0.0	1.0	30.4	92.6	12.5	27.0	102.4	109.3	23.1	398.3
Pennsylvania	109.7	37.0	44.2	91.0	12.4	1.0	191.5	38.6	3.3	528.5
Tennessee	0.0	52.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	52.3
Virginia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.7	0.0	57.7
West Virginia	0.0	9.0	0.0	0.0	0.0	0.0	0.4	44.6	0.0	54.0
Wisconsin	0.0	18.2	17.5	0.0	0.0	0.0	7.9	287.6	0.0	331.1
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	12.8
Total	829.7	313.4	319.6	312.6	39.9	146.2	1,723.7	930.9	1,347.3	5,963.3

## Section 9, Interchange Transactions

Prior versions of the 2014 State of the Market Report for PJM reported the MEC interface as distinct from MISO totals. Section 9 has been updated to include its activity as part of the MISO interface. This update impacts the following tables, as well as the associated write-up: Figure 9-1, Figure 9-2, Table 9-1, Table 9-2, Table 9-3, Table 9-4, Table 9-5, Table 9-6, Table 9-7, Table 9-8, Table 9-9, Table 9-10, Table 9-11, Table 9-12, Table 9-13, Table 9-14, Table 9-15, Table 9-18, Table 9-19, Table 9-20, Table 9-21, Table 9-22, Table 9-23 and Table 9-24.

Impacted values in the section Overview and in the Section 1 Introduction have also been updated.

## Section 12, Planning

**Change**: On page 423, update Table 12-10 to the following (swapping the DPL and Dominion rows):

			<b>r</b>			,	、			-Jr - (//	
Zone	CC	СТ	Diesel	Fuel Cell	Hydroelectric	Nuclear	Solar	Steam	Storage	Wind	Total
AECO	901.9	705.9	22.6	0.0	0.0	0.0	41.7	815.9	0.0	7.5	2,495.5
AEP	4,900.0	3,682.2	77.1	0.0	1,071.9	2,071.0	0.0	24,264.8	4.0	1,953.2	38,024.2
APS	1,129.0	1,214.9	47.9	0.0	86.0	0.0	36.1	5,409.0	27.4	1,058.5	9,008.8
ATSI	685.0	1,617.4	74.0	0.0	0.0	2,134.0	0.0	6,540.0	0.0	0.0	11,050.4
BGE	0.0	720.0	18.4	0.0	0.0	1,716.0	0.0	2,995.5	0.0	0.0	5,449.9
ComEd	2,270.1	7,244.0	100.2	0.0	0.0	10,473.5	9.0	5,417.1	4.5	2,431.9	27,950.3
DAY	0.0	1,368.5	47.5	0.0	0.0	0.0	1.1	3,179.8	40.0	0.0	4,636.9
DEOK	47.2	842.0	0.0	0.0	0.0	0.0	0.0	4,382.0	0.0	0.0	5,271.2
DLCO	244.0	15.0	0.0	0.0	6.3	1,777.0	0.0	784.0	0.0	0.0	2,826.3
Dominion	5,493.6	3,874.8	153.8	0.0	3,589.3	3,581.3	2.7	8,403.0	0.0	0.0	25,098.5
DPL	1,189.3	1,820.4	96.1	30.0	0.0	0.0	4.0	1,620.0	0.0	0.0	4,759.8
EKPC	0.0	774.0	0.0	0.0	70.0	0.0	0.0	1,882.0	0.0	0.0	2,726.0
EXT	1,471.0	297.9	0.0	0.0	269.1	12.5	0.0	5,253.5	0.0	0.0	7,304.0
JCPL	1,692.5	1,233.1	16.1	0.0	400.0	614.5	96.3	10.0	0.0	0.0	4,062.5
Met-Ed	2,111.0	406.5	41.4	0.0	19.0	805.0	0.0	200.0	0.0	0.0	3,582.9
PECO	3,209.0	836.0	2.9	0.0	1,642.0	4,546.8	3.0	979.1	1.0	0.0	11,219.8
PENELEC	0.0	407.5	45.8	0.0	512.8	0.0	0.0	6,793.5	0.0	930.9	8,690.5
Pepco	1,807.9	616.2	60.5	0.0	706.6	2,520.0	15.0	5,169.9	20.0	219.7	11,135.8
PPL	3,091.3	2,653.8	12.0	0.0	5.0	3,493.0	108.2	2,050.1	2.0	0.0	11,415.4
PSEG	230.0	1,091.7	9.9	0.0	0.0	0.0	0.0	3,649.1	0.0	0.0	4,980.7
Total	30,472.8	31,421.8	826.2	30.0	8,378.0	33,744.6	317.1	89,798.3	98.9	6,601.7	201,689.4