FMU Statistics through Q3 2013

MIC: FMU Adder Group Date: December 4, 2013

Joseph Bowring



Table 3-9 Offer capping statistics for energy: January throughSeptember, 2009 to 2013

	Real Time		Day Ahead		
	Unit Hours MW		Unit Hours	MW	
(Jan - Sep)	Capped	Capped	Capped	Capped	
2009	0.5%	0.1%	0.1%	0.0%	
2010	1.2%	0.3%	0.3%	0.1%	
2011	0.7%	0.3%	0.0%	0.0%	
2012	1.1%	0.6%	0.1%	0.1%	
2013	0.5%	0.2%	0.2%	0.1%	





Table 3-10 Offer capping statistics for energy and reactivesupport: January through September, 2009 to 2013

	Real Time		Day Ahead		
	Unit Hours M		Unit Hours	MW	
(Jan - Sep)	Capped	Capped	Capped	Capped	
2009	0.5%	0.1%	0.1%	0.0%	
2010	1.2%	0.3%	0.3%	0.1%	
2011	0.8%	0.3%	0.0%	0.0%	
2012	1.1%	0.7%	0.2%	0.1%	
2013	2.2%	1.9%	2.4%	1.8%	



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Table 3-34 Number of frequently mitigated units and associated units (By month): 2012 and January through September, 2013

	FMUs and AUs							
		2012				2013		
			Tota	I Eligible			Т	Total Eligible
	Tier 1	Tier 2	Tier 3 for A	ny Adder	Tier 1	Tier 2	Tier 3 fo	or Any Adder
January	26	21	52	99	18	17	10	45
February	26	22	47	95	18	11	12	41
March	25	17	47	89	18	8	12	38
April	23	17	46	86	16	5	15	36
May	23	14	47	84	11	5	15	31
June	22	13	48	83	24	8	12	44
July	25	11	50	86	19	15	19	53
August	25	23	43	91	14	25	20	59
September	17	6	33	56	11	22	31	64
October	10	18	14	42				
November	9	21	10	40				
December	14	17	10	41				

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Figure 3-5 Frequently mitigated units and associated units (By month): February, 2006 through September, 2013



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Table 3-35 Frequently mitigated units and associated unitstotal months eligible: 2012 and January through September,2013

	Months Adder-Eligible	FMU & AU			
		2012	2013		
	1	25	16		
	2	12	10		
	3	4	11		
	4	9	7		
	5	2	1		
	6	4	1		
	7	14	1		
	8	16	10		
	9	15	24		
	10	5			
	11	2			
	12	25			
	Total	188	81		



Figure 3-6 Frequently mitigated units and associated units total months eligible: February, 2006 through September, 2013



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Frequently mitigated units at risk of retirement

FMU Units At Risk	No. of Units	MW
Units that have received FMU payments since 2011	263	22,989
Units retired or scheduled to retire	86	8,021
Remaining FMU units	177	14,968
Units that did not cover ACR	13	1,420
Units for which FMU revenue determined if ACR costs were covered	0	0
Additional FMU units that did not clear the 16/17 BRA or cleared significantly less than in previous years	5	115





Impact of FMU Adder on Zonal Load Weighted LMP

	2013 (Jan-Sep)			
	FMU Adder's Contribution to	Load Weighted Real Time		
Element	Real Time LMP	LMP	Percent	
AECO	\$1.08	\$42.09	2.6%	
AEP	\$0.96	\$36.31	2.6%	
APS	\$0.84	\$38.52	2.2%	
ATSI	\$0.87	\$44.63	2.0%	
BGE	\$1.09	\$44.55	2.4%	
COMED	\$0.75	\$34.01	2.2%	
DAY	\$0.83	\$36.91	2.3%	
DEOK	\$0.79	\$35.02	2.3%	
DOM	\$1.07	\$41.77	2.6%	
DPL	\$1.07	\$43.13	2.5%	
DUQ	\$0.77	\$36.44	2.1%	
EKPC	\$1.16	\$35.06	3.3%	
JCPL	\$2.20	\$44.45	5.0%	
METED	\$0.96	\$40.70	2.4%	
PECO	\$0.84	\$40.44	2.1%	
PENELEC	\$1.00	\$39.51	2.5%	
PEPCO	\$1.06	\$43.72	2.4%	
PPL	\$0.83	\$40.19	2.1%	
PSEG	\$1.38	\$45.47	3.0%	
RECO	\$1.61	\$47.74	3.4%	
PJM	\$0.98	\$39.75	2.5%	





FMU Adder and Reactive Units

- Some units are scheduled noneconomically for local voltage issues or for reactive interface control.
- These units are offer capped if their price-based offer is greater than their cost-based offer.
- These units become eligible for FMU adders if capped for more than 60 percent of run hours over a rolling 12 month period.



FMU Adder and Reactive Units

- These units receive a make whole payment whenever their offer is not covered by LMP revenues.
- These payments can be day-ahead operating reserve credits or reactive services credits.
- The make whole costs of these units is allocated to real-time load in the zone or zones where the service was provided.
- If the reactive service is for transmission lines equal or greater than 500 kV, then real-time load in the entire RTO is allocated the corresponding reactive services charges.



FMU Adder and Reactive Charges

Reactive Services Charges (Jan – Oct 2013)





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