



2017 Fourth Quarter Synchronized Reserve Performance

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2017	Total Number of Events	Number of Events > 10 min
1 st Quarter	9	1
2 nd Quarter	4	2
3 rd Quarter	3	2
October	0	0
November	0	0
December	0	0
Year to Date	16	5

PJM experienced no synchronized reserve events during the fourth quarter of 2018.

2017 MW	Tier 1			Tier 2 Response						Zone	
	Generation Response	Response Percent	DSR Response	Generation		Response Percent	DSR		Response Percent	RTO	MAD
			Non-Tier 1 Estimate	Response	Assigned		Response	Assigned			
2017 Q1	5,866	63%	214	5,153	5,218	99%	749	867	86%	8	1
2017 Q2	3,290	71%	197	1,615	1,655	98%	566	616	92%	4	
2017 Q3	1,491	63%	256	366	425	86%	380	412	92%	2	1
Oct											
Nov											
Dec											
YTD	10,647	66%	667	7,133	7,298	98%	1,695	1,895	89%	14	2

2017 MW	Tier 1			Tier 2 Response						Zone	
	Generation Response	Response Percent	DSR Response	Generation		Response Percent	DSR		Response Percent	RTO	MAD
			Non-Tier 1 Estimate	Response	Assigned		Response	Assigned			
2017 Q1	567	61%	38	411	477	86%	148	266	56%	1	
2017 Q2	1,703	74%	116	508	548	93%	313	363	86%	2	
2017 Q3	301	38%	98	366	425	86%	196	227	86%	1	1
Oct											
Nov											
Dec											
YTD	2,570	64%	253	1,285	1,449	89%	657	856	77%	4	1

2017	Tier 1 Credits	Tier 2 Penalties
1 st Quarter	\$174,096	\$67,257
2 nd Quarter	\$69,728	\$27,168
3 rd Quarter	\$231,887	\$89,477
October		
November		
December		
Year To Date	\$475,711	\$183,902