

2025 Third Quarter Synchronized Reserve Performance

David Kimmel
Sr. Engineer, Performance Compliance
Operating Committee
December 4, 2025

2025	Total Number of Events	Number of Events \geq 10 min
Q1	4	1
Q2	4	0
July	4	2
August	3	0
September	4	1
Year To Date	19	4

Synchronized Reserve Response Summation of All Response MW

Event	1			2			3			4		
Date	07/01/25			07/22/25			07/30/25			07/31/25		
Start Time	10:18:26			15:11:28			13:31:31			01:33:40		
End Time	10:29:04			15:22:00			13:37:28			01:39:56		
Duration	00:10:38			00:10:32			00:05:57			00:06:16		
Region	RTO			RTO			RTO			RTO		
Resource Type	Gen	DR	Total	Gen	DR	Total	Gen	DR	Total	Gen	DR	Total
Assigned (MW)	2398	544	2942	2764	548	3312	3588	328	3917	2802	582	3384
Estimated Expected Response of Assigned Resources (MW)	2398	544	2942	2764	548	3312	2135	195	2330	1756	365	2121
Actual Response of Assigned Resources (MW)	1931	406	2337	2171	439	2610	2119	238	2357	1261	367	1628
Output Increase of Resources without Assignment (MW)	1961	0	1961	1575	0	1575	1371	0	1371	488	0	488
Percent Response To Assignment (%)	81%	75%	79%	79%	80%	79%	59%	72%	60%	45%	63%	48%
Percent Response To Estimated Expected Response (%)	81%	75%	79%	79%	80%	79%	99%	122%	101%	72%	101%	77%
Penalty (MW)	466	138	605	592	110	702	0	0	0	0	0	0

Event	1			2			3		
Date	08/06/25			08/14/25			08/15/25		
Start Time	18:49:11			17:40:51			15:33:03		
End Time	18:57:07			17:45:09			15:38:15		
Duration	00:07:56			00:04:18			00:05:12		
Region	MAD			RTO			RTO		
Resource Type	Gen	DR	Total	Gen	DR	Total	Gen	DR	Total
Assigned (MW)	1679	83	1762	2855	538	3392	3245	454	3699
Estimated Expected Response of Assigned Resources (MW)	1332	66	1398	1228	231	1459	1688	236	1924
Actual Response of Assigned Resources (MW)	1165	35	1200	1454	396	1851	2084	373	2458
Output Increase of Resources without Assignment (MW)	719	0	719	1857	0	1857	2155	0	2155
Percent Response To Assignment (%)	69%	42%	68%	51%	74%	55%	64%	82%	66%
Percent Response To Estimated Expected Response (%)	87%	53%	86%	118%	171%	127%	124%	158%	128%
Penalty (MW)	0	0	0	0	0	0	0	0	0

Synchronized Reserve Response

Summation of All Response MW

Event	1			2			3			3		
Date	09/04/25			09/25/25			09/25/25			09/29/25		
Start Time	19:56:22			19:12:37			19:35:52			21:30:12		
End Time	20:05:21			19:23:06			19:43:35			21:36:57		
Duration	00:08:59			00:10:29			00:07:43			00:06:45		
Region	RTO			RTO			RTO			RTO		
Resource Type	Gen	DR	Total	Gen	DR	Total	Gen	DR	Total	Gen	DR	Total
Assigned (MW)	2421	542	2963	2754	589	3343	2810	589	3399	2910	496	3406
Estimated Expected Response of Assigned Resources (MW)	2175	487	2662	2754	589	3343	2168	455	2623	1964	335	2299
Actual Response of Assigned Resources (MW)	1673	482	2155	2075	491	2566	1698	332	2030	1432	429	1861
Output Increase of Resources without Assignment (MW)	1281	0	1281	656	0	656	820	0	820	586	0	586
Percent Response To Assignment (%)	69%	89%	73%	75%	83%	77%	60%	56%	60%	49%	86%	55%
Percent Response To Estimated Expected Response (%)	77%	99%	81%	75%	83%	77%	78%	73%	77%	73%	128%	81%
Penalty (MW)	0	0	0	679	98	777	0	0	0	0	0	0

Synchronized Reserve Response

Summation Response MW By Portfolio

Event Date (MM/DD/YY)	Duration (HH:MM:SS)	Gen					DR				
		Assignment (MW)	Response By Total Resource (MW) ¹	Response By Total Resource (%)	Netted Response By Portfolio (MW) ²	Netted Response By Portfolio (%)	Assignment (MW)	Response By Total Resource (MW) ¹	Response By Total Resource (%)	Netted Response By Portfolio (MW) ²	Netted Response By Portfolio (%)
07/01/25	00:10:38	2,398	1,931	81%	2,001	83%	544	406	75%	457	84%
07/22/25	00:10:32	2,764	2,171	79%	2,324	84%	548	439	80%	490	89%
07/30/25	00:05:57	3,588	2,119	59%	2,229	62%	328	238	72%	288	88%
07/31/25	00:06:16	2,802	1,261	45%	1,295	46%	582	367	63%	478	82%
08/06/25	00:07:56	1,679	1,165	69%	1,239	74%	83	35	42%	43	52%
08/14/25	00:04:19	2,855	1,454	51%	1,521	53%	538	396	74%	471	88%
08/15/25	00:05:22	3,245	2,084	64%	2,209	68%	454	373	82%	447	98%
09/04/25	00:08:59	2,421	1,673	69%	1,828	76%	542	482	89%	521	96%
09/25/25	00:10:39	2,754	2,075	75%	2,183	79%	589	491	83%	523	89%
09/25/25	00:07:43	2,810	1,698	60%	1,872	67%	589	332	56%	370	63%
09/29/25	00:06:45	2,910	1,432	49%	1,482	51%	496	429	86%	496	100%

2025	Synchronized Reserve Response						Zone	
	Generation		Response Percent	DSR		Response Percent	RTO	MAD
	Response	Assigned		Response	Assigned			
2025 Q1	4,660	7,870	59%	195	440	44%	4	0
2025 Q2	4,677	7,388	63%	1,086	1,558	70%	3	1
Jul	7,483	11,552	65%	1,449	2,003	72%	4	0
Aug	4,703	7,779	60%	805	1,075	75%	2	1
Sep	6,878	10,895	63%	1,734	2,216	78%	4	0
YTD	28,401	45,483	62%	5,269	7,292	72%	17	2

Ten Minute Or Greater Event Performance

2025	Synchronized Reserve Response						Zone	
	Generation		Response Percent	DSR		Response Percent	RTO	MAD
	Response	Assigned		Response	Assigned			
2025 Q1	1,155	1,827	63%	98	98	100%	1	0
2025 Q2	0	0	100%	0	0	100%	0	0
Jul	4,103	5,161	79%	845	1,093	77%	2	0
Aug								
Sep	2,075	2,754	75%	491	589	83%	1	0
YTD	7,332	9,742	75%	1,433	1,779	81%	4	0

2025	Synchronized Reserve Penalties (\$)
Q1	193,247.50
Q2	0.00
July	1,797,310.62
August	0.00
September	355,189.23
Year To Date	2,345,747.35

SME/Presenter:
David Kimmel,
David.Kimmel@pjm.com

2025 Third Quarter Synchronized Reserve Performance



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

Appendix

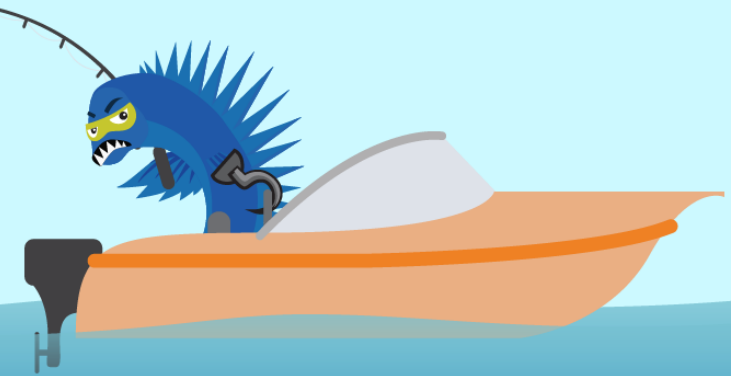
- 1: “Response by Total Resource (MW)” is the performance based on each resource that has a reserve assignment where the resource performance is capped at 100%.
- 2: “Netted Response by Portfolio (MW)” is the performance based on the organization’s portfolio where performance is netted across all resources that have a reserve assignment for each organization. This allows an over-performing resource to offset an under-performing resource within the same organization. Each organization’s performance is capped at 100%. This reflects the way penalties are administered for DR.

**PROTECT THE
POWER GRID**

**THINK BEFORE
YOU CLICK!**



**BE ALERT TO
MALICIOUS PHISHING
EMAILS**



Report suspicious email activity to PJM.
Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com