

# 2024 Third Quarter Synchronized Reserve Performance

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December 5, 2024



# Number of Events

2024	Total Number of Events	Number of Events $\geq$ 10 min
Q1	4	1
Q2	4	0
July	3	2
August	3	1
September	0	0
Year To Date	14	4



# Synchronized Reserve Response Summation of All Response MW (July)

Event	1			2		
Date	07/08/24			07/18/24		
Start Time	17:57:03			15:25:50		
End Time	18:11:32			15:32:50		
Duration	00:14:29			00:07:00		
Region	RTO			RTO		
Resource Type	Gen	DR	Total	Gen	DR	Total
Assigned (MW)	3123	111	3234	2328	169	2497
Estimated Expected Response (MW)	3123	111	3234	1630	119	1748
Actual Response (MW)	1385	94	1479	1059	125	1183
Percent Response To Estimated Expected Response (%)	44%	84%	46%	65%	105%	68%
Penalty (MW)	1738	17	1755	0	0	0

Event	3		
Date	07/21/24		
Start Time	17:53:39		
End Time	18:03:49		
Duration	00:10:10		
Region	RTO		
Resource Type	Gen	DR	Total
Assigned (MW)	1826	553	2379
Estimated Expected Response (MW)	1826	553	2379
Actual Response (MW)	1233	533	1766
Percent Response To Estimated Expected Response (%)	68%	96%	74%
Penalty (MW)	593	20	613



# Synchronized Reserve Response Summation of All Response MW ( August)

Event	1			2		
Date	08/12/24			08/18/24		
Start Time	17:10:55			16:04:33		
End Time	17:20:34			16:20:24		
Duration	00:09:39			00:15:51		
Region	RTO			RTO		
Resource Type	Gen	DR	Total	Gen	DR	Total
Assigned (MW)	2623	613	3237	1417	529	1945
Estimated Expected Response (MW)	2531	592	3123	1417	529	1945
Actual Response (MW)	2008	462	2470	865	477	1342
Percent Response To Estimated Expected Response (%)	79%	78%	79%	61%	90%	69%
Penalty (MW)	0	0	0	552	51	603

Event	3		
Date	08/26/24		
Start Time	13:53:42		
End Time	13:57:55		
Duration	00:04:13		
Region	RTO		
Resource Type	Gen	DR	Total
Assigned (MW)	2111	539	2650
Estimated Expected Response (MW)	890	227	1117
Actual Response (MW)	720	307	1027
Percent Response To Estimated Expected Response (%)	81%	135%	92%
Penalty (MW)	0	0	0



# Synchronized Reserve Response Summation Response MW By Portfolio

Event Date	Duration (HH:MM:SS)	Gen					DR				
		Assignment (MW)	Response By Total Resource (MW) <sup>1</sup>	Response By Total Resource (%)	Netted Response By Portfolio (MW) <sup>2</sup>	Netted Response By Portfolio (%)	Assignment (MW)	Response By Total Resource (MW) <sup>1</sup>	Response By Total Resource (%)	Netted Response By Portfolio (MW) <sup>2</sup>	Netted Response By Portfolio (%)
07/08/24	00:14:29	3,123	1,385	44%	1,453	47%	111	94	84%	111	100%
07/18/24	00:07:00	2,328	1,059	45%	1,081	46%	169	125	74%	132	78%
07/21/24	00:10:10	1,826	1,233	68%	1,323	72%	553	533	96%	552	99%
08/12/24	00:09:39	2,623	2,008	77%	2,121	81%	613	462	75%	525	85%
08/18/24	00:15:51	1,417	865	61%	1,021	72%	529	477	90%	529	100%
08/26/24	00:04:13	2,111	720	34%	726	34%	539	307	57%	348	65%



# All Event Performance

2024	Synchronized Reserve Response						Zone	
	Generation		Response Percent	DSR		Response Percent	RTO	MAD
	Response	Assigned		Response	Assigned			
2024 Q1	3,637	8,556	43%	1,132	1,428	79%	3	1
2024 Q2	3,104	7,847	40%	753	1,320	57%	4	0
Jul	3,677	7,277	51%	752	834	90%	3	0
Aug	3,593	6,151	58%	1,246	1,681	74%	3	0
Sep								
YTD	14,011	29,832	47%	3,883	5,262	74%	13	1



# Ten Minute Or Greater Event Performance

2024	Synchronized Reserve Response						Zone	
	Generation		Response Percent	DSR		Response Percent	RTO	MAD
	Response	Assigned		Response	Assigned			
2024 Q1	706	1,843	38%	20	100	20%	0	1
2024 Q2	0	0	100%	0	0	100%	0	0
Jul	2,618	4,949	53%	627	664	94%	1	0
Aug	865	1,417	61%	477	529	90%	1	0
Sep								
YTD	4,189	8,209	51%	1,124	1,293	87%	2	1



# Synchronized Reserve Penalties

2024	Synchronized Reserve Penalties (\$)
Q1	262,251.22
Q2	0.00
July	726,264.83
August	306,544.21
September	0.00
Year To Date	1,295,060.26



- There were 35 Synchronized Reserve Events between November 1, 2022 and October 31, 2024 with an average days between events of 20.70 days.
- The 2025 penalty days effective January 1, 2025 is 20 days.
- The 2024 penalty days was 18 days.

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**2024 Second Quarter Synchronized Reserve  
Performance**



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# 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.