

# 2022 Fourth Quarter Synchronized Reserve Performance

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Sr. Engineer, Performance Compliance

Operations Committee

March 9, 2023

2022	Total Number of Events	Number of Events $\geq$ 10 min
1 <sup>st</sup> Quarter	2	0
2 <sup>nd</sup> Quarter	9	3
3 <sup>rd</sup> Quarter	3	0
October	1	1
November	3	1
December	5	5
Year To Date	23	10

Event Date	Event Duration (HH:MM:SS)	Tier 2 Assigned (MW)	Tier 2 Response (MW)
10/29/22	00:11:52	1,858	567
11/04/22	00:04:25	1,687	1,687
11/14/22	00:06:44	1,830	1,830
11/29/22	00:16:45	1,727	949
12/23/22	00:11:07	1,791	1,547
12/23/22	01:51:29	1,846	945
12/24/22	00:25:43	1,767	930
12/24/22	00:30:35	1,665	535
12/24/22	01:27:32	1,007	169

\*Tier 2 Response is equal to Tier 2 Assigned for events less than ten minutes



# All Event Performance

2022	Tier 1 Response			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			
2022 Q1	1,173	61%	195	1,252	1,252	100%	379	379	100%	2	0
2022 Q2	4,956	72%	493	6,247	6,797	92%	1,636	1,805	91%	9	0
2022 Q3	2,734	72%	156	1,728	1,728	100%	699	699	100%	3	0
Oct				386	1,669	23%	181	189	96%	1	0
Nov				4,087	4,864	84%	378	380	100%	3	0
Dec				2,329	7,498	31%	556	668	83%	5	0
YTD	8,863	70%	844	16,029	23,808	67%	3,830	4,120	93%	23	0



# Ten Minute Or Greater Event Performance

2022	Tier 1 Response			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			
2022 Q1	0	100%	0	0	0	100%	0	0	100%	0	0
2022 Q2	1,956	67%	97	1,173	1,723	68%	344	513	67%	3	0
2022 Q3	0	100%	0	0	0	100%	0	0	100%	0	0
Oct				386	1,669	23%	181	189	96%	1	0
Nov				927	1,703	54%	22	24	93%	1	0
Dec				3,632	7,498	48%	494	578	86%	5	0
YTD	1,956	67%	97	6,117	12,593	49%	1,041	1,303	80%	10	0



# Tier 1 Credits And Tier 2 Penalties

<b>2022</b>	<b>Tier 1 Credits</b>	<b>Tier 2 Penalties</b>
1 <sup>st</sup> Quarter	19,760	0
2 <sup>nd</sup> Quarter	185,950	986,812
3 <sup>rd</sup> Quarter	40,606	0
October	0	215,918
November	0	77,556
December	0	3,523,716
Year To Date	246,315	4,804,001

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## 2022 Fourth Quarter Synchronized Reserve Performance



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