

2019 Third Quarter Synchronized Reserve Performance

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December 10, 2019

2019	Total Number of Events	Number of Events > 10 min
1 st Quarter	6	0
2 nd Quarter	0	0
July	1	0
August	1	0
September	2	1
Year To Date	10	1

Event Date	Event Duration (Min)	Tier 1 Estimate (MW)	Tier 1 Response (MW)	Tier 2 Assigned (MW)	Tier 2 Response (MW)
07/27/19	6	554	167	1,627	1,627
08/11/19	7	4,809	1,592	0	0
09/03/19	9	980	598	228	228
09/23/19	11	1,485	1,212	652	496

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

2019 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			
2019 Q1	4,852	40%	286	1,409	1,409	100%	817	817	100%	6	0
2019 Q2	0	100%	0	0	0	100%	0	0	100%	0	0
Jul	167	30%	26	1,545	1,545	100%	82	82	100%	1	0
Aug	1,592	33%	0	0	0	100%	0	0	100%	1	0
Sep	1,810	73%	98	507	570	89%	216	309	70%	1	1
YTD	8,421	42%	411	3,461	3,524	98%	1,116	1,209	92%	9	1



Ten Minute Or Greater Event Performance

2019 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			
2019 Q1	0	100%	0	0	0	100%	0	0	100%	0	0
2019 Q2	0	100%	0	0	0	100%	0	0	100%	0	0
Jul										0	0
Aug										0	0
Sep	1,212	82%	80	316	379	83%	180	272	66%	1	0
YTD	1,212	82%	80	316	379	83%	180	272	66%	1	0



Tier 1 Credits And Tier 2 Penalties

2019	Tier 1 Credits	Tier 2 Penalties
1 st Quarter	\$82,357	\$0
2 nd Quarter	\$0	\$0
July	\$3,881	\$0
August	\$19,743	\$0
September	\$43,214	\$81,233
Year To Date	\$149,195	\$81,233

- There were 30 Synchronized Reserve Events between November 1, 2017 and October 31, 2019 with an average days between events of 25.52 days.
- The 2020 penalty days effective January 1, 2020 is 25 days.
- The 2019 penalty days was 20 days.