



# Synchronized Reserve Event Performance Questions

Operating Committee  
January 6, 2015

- What amount of Tier 1 (MW) was PJM estimating prior to a Synchronized Reserve Event?

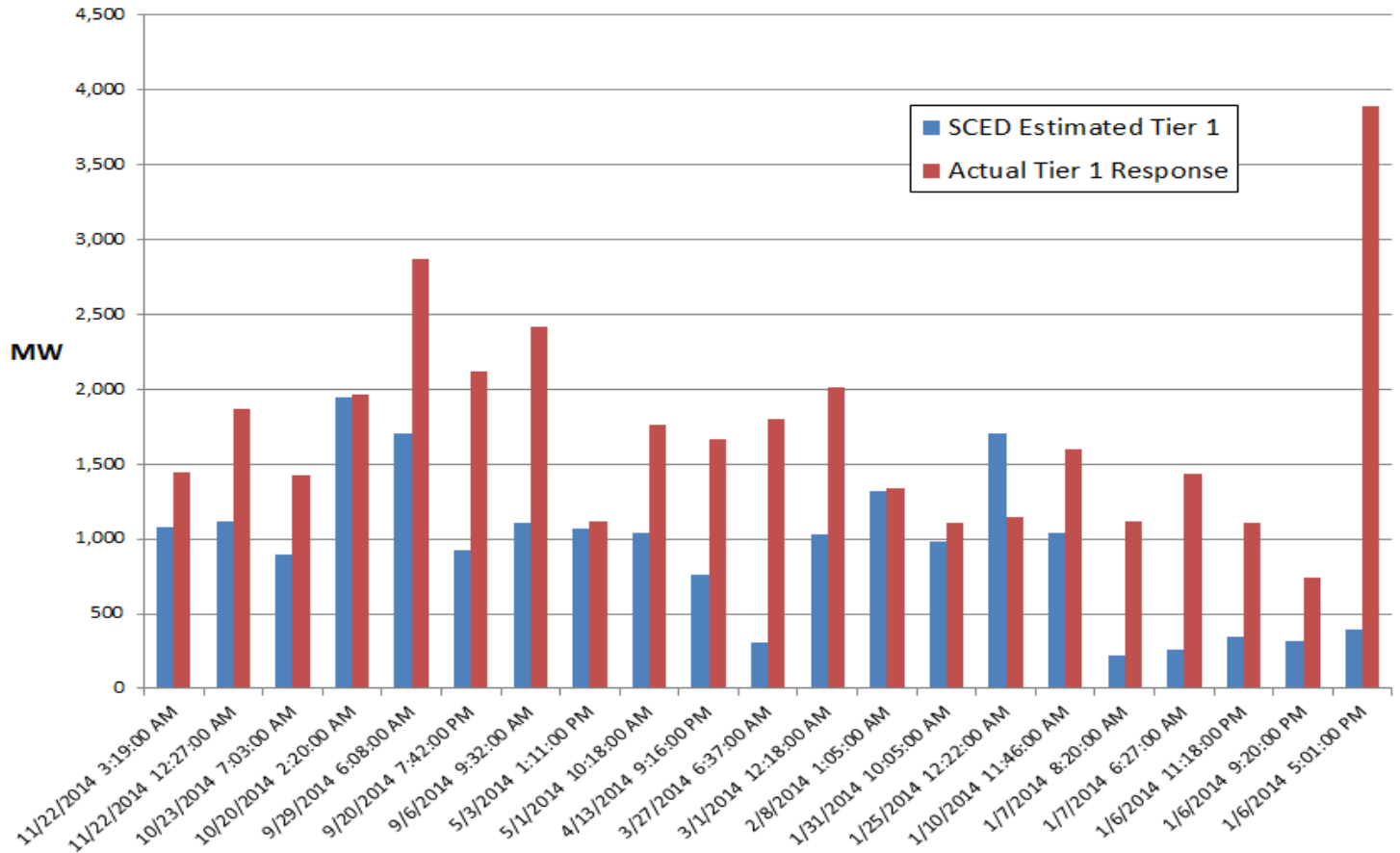


# 2014 Historical Response of Events Greater than 10 Minutes

- MW response to Synchronized Reserve events greater than 10 minutes
- Tier 1 data includes the response from all resources (without a Tier 2 Assignment)

Event Start	Event End	Duration	SCED Estimate (MW)	Tier 1 Response (MW)
11/22/2014 3:19:00 AM	11/22/2014 3:29	0:10:00	1,081	1,443
11/22/2014 12:27:00 AM	11/22/2014 0:48	0:21:00	1,119	1,866
10/23/2014 7:03:00 AM	10/23/2014 7:30	0:27:00	895	1,424
10/20/2014 2:20:00 AM	10/20/2014 2:35	0:15:00	1,943	1,964
9/29/2014 6:08:00 AM	9/29/2014 6:23	0:15:00	1,705	2,869
9/20/2014 7:42:00 PM	9/20/2014 19:56	0:14:00	926	2,119
9/6/2014 9:32:00 AM	9/6/2014 9:50	0:18:00	1,104	2,420
5/3/2014 1:11:00 PM	5/3/2014 13:24	0:13:00	1,070	1,121
5/1/2014 10:18:00 AM	5/1/2014 10:31	0:13:00	1,042	1,758
4/13/2014 9:16:00 PM	4/13/2014 21:26	0:10:00	756	1,671
3/27/2014 6:37:00 AM	3/27/2014 7:33	0:56:00	308	1,797
3/1/2014 12:18:00 AM	3/1/2014 0:44	0:26:00	1,029	2,016
2/8/2014 1:05:00 AM	2/8/2014 1:23	0:18:00	1,315	1,336
1/31/2014 10:05:00 AM	1/31/2014 10:18	0:13:00	983	1,108
1/25/2014 12:22:00 AM	1/25/2014 0:32	0:10:00	1,700	1,150
1/10/2014 11:46:00 AM	1/10/2014 11:58	0:12:00	1,041	1,603
1/7/2014 8:20:00 AM	1/7/2014 9:01	0:41:00	217	1,118
1/7/2014 6:27:00 AM	1/7/2014 6:38	0:11:00	260	1,435
1/6/2014 11:18:00 PM	1/6/2014 23:52	0:34:00	347	1,109
1/6/2014 9:20:00 PM	1/6/2014 21:45	0:25:00	316	737
1/6/2014 5:01:00 PM	1/6/2014 18:09	1:08:00	399	3,894

## 2014 Ten Minute or Greater Synchronized Reserve Event Tier 1





# 2014 Historical Response of All Events

Event Start	Event End	Duration	SCED Estimate (MW)	Tier 1 Response (MW)
12/10/2014 13:58	12/10/2014 14:06	0:08:00	2,249	1,936
11/22/2014 3:19	11/22/2014 3:29	0:10:00	1,081	1,443
11/22/2014 0:27	11/22/2014 0:48	0:21:00	1,119	1,866
11/7/2014 21:08	11/7/2014 21:16	0:08:00	1,418	1,331
11/1/2014 2:50	11/1/2014 2:59	0:09:00	1,595	1,860
10/23/2014 7:03	10/23/2014 7:30	0:27:00	895	1,424
10/20/2014 2:20	10/20/2014 2:35	0:15:00	1,943	1,964
9/29/2014 6:08	9/29/2014 6:23	0:15:00	1,705	2,869
9/20/2014 19:42	9/20/2014 19:56	0:14:00	926	2,119
9/6/2014 9:32	9/6/2014 9:50	0:18:00	1,104	2,420
7/25/2014 15:19	7/25/2014 15:26	0:07:00	1,023	2,000
7/7/2014 23:07	7/7/2014 23:16	0:09:00	2,397	2,554
5/13/2014 21:36	5/13/2014 21:41	0:05:00	1,001	1,126
5/3/2014 13:11	5/3/2014 13:24	0:13:00	1,070	1,121
5/1/2014 10:18	5/1/2014 10:31	0:13:00	1,042	1,758
4/25/2014 13:33	4/25/2014 13:39	0:06:00	663	195
4/25/2014 13:33	4/25/2014 13:39	0:06:00	663	911
4/13/2014 21:16	4/13/2014 21:26	0:10:00	756	1,671
3/27/2014 6:37	3/27/2014 7:33	0:56:00	308	1,797
3/13/2014 16:39	3/13/2014 16:47	0:08:00	1,963	994
3/5/2014 16:25	3/5/2014 16:33	0:08:00	991	2,698
3/1/2014 0:18	3/1/2014 0:44	0:26:00	1,029	2,016
2/22/2014 18:05	2/22/2014 18:12	0:07:00	2,665	2,342
2/8/2014 1:05	2/8/2014 1:23	0:18:00	1,315	1,336
2/2/2014 9:03	2/2/2014 9:11	0:08:00	924	2,306
1/31/2014 10:05	1/31/2014 10:18	0:13:00	983	1,108
1/26/2014 12:11	1/26/2014 12:17	0:06:00	2,576	2,286
1/25/2014 0:22	1/25/2014 0:32	0:10:00	1,700	1,150
1/22/2014 17:54	1/22/2014 18:02	0:08:00	412	1,531
1/21/2014 21:26	1/21/2014 21:33	0:07:00	2,035	1,322
1/21/2014 13:52	1/21/2014 13:58	0:06:00	2,035	1,734
1/10/2014 11:46	1/10/2014 11:58	0:12:00	1,041	1,603
1/7/2014 8:20	1/7/2014 9:01	0:41:00	217	1,118
1/7/2014 6:27	1/7/2014 6:38	0:11:00	260	1,435
1/6/2014 23:18	1/6/2014 23:52	0:34:00	347	1,109
1/6/2014 21:20	1/6/2014 21:45	0:25:00	316	737
1/6/2014 17:01	1/6/2014 18:09	1:08:00	399	3,894

- What would the maximum DSR % be if all offers were accepted as Tier 2?
- The maximum % would be 25% (330 MW)