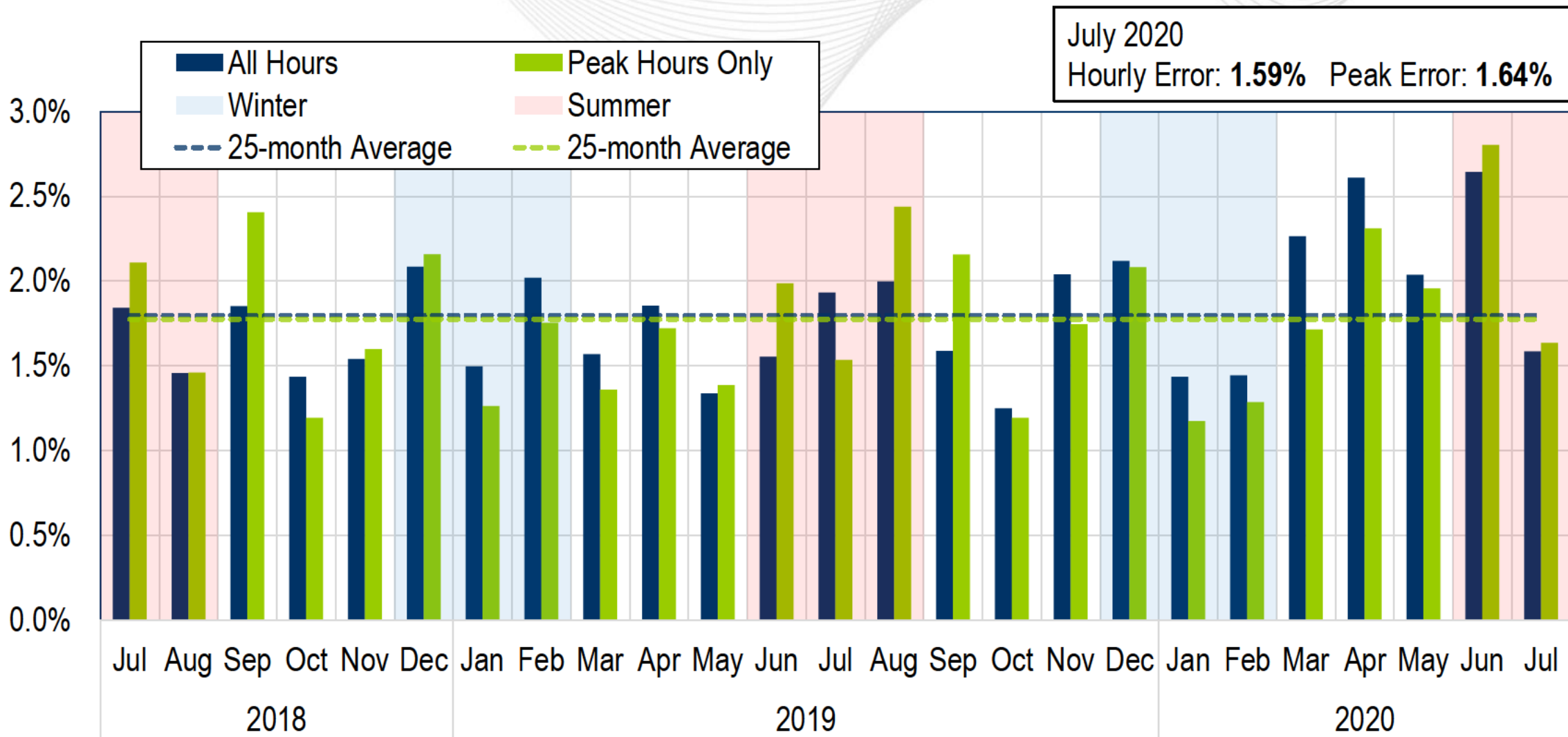
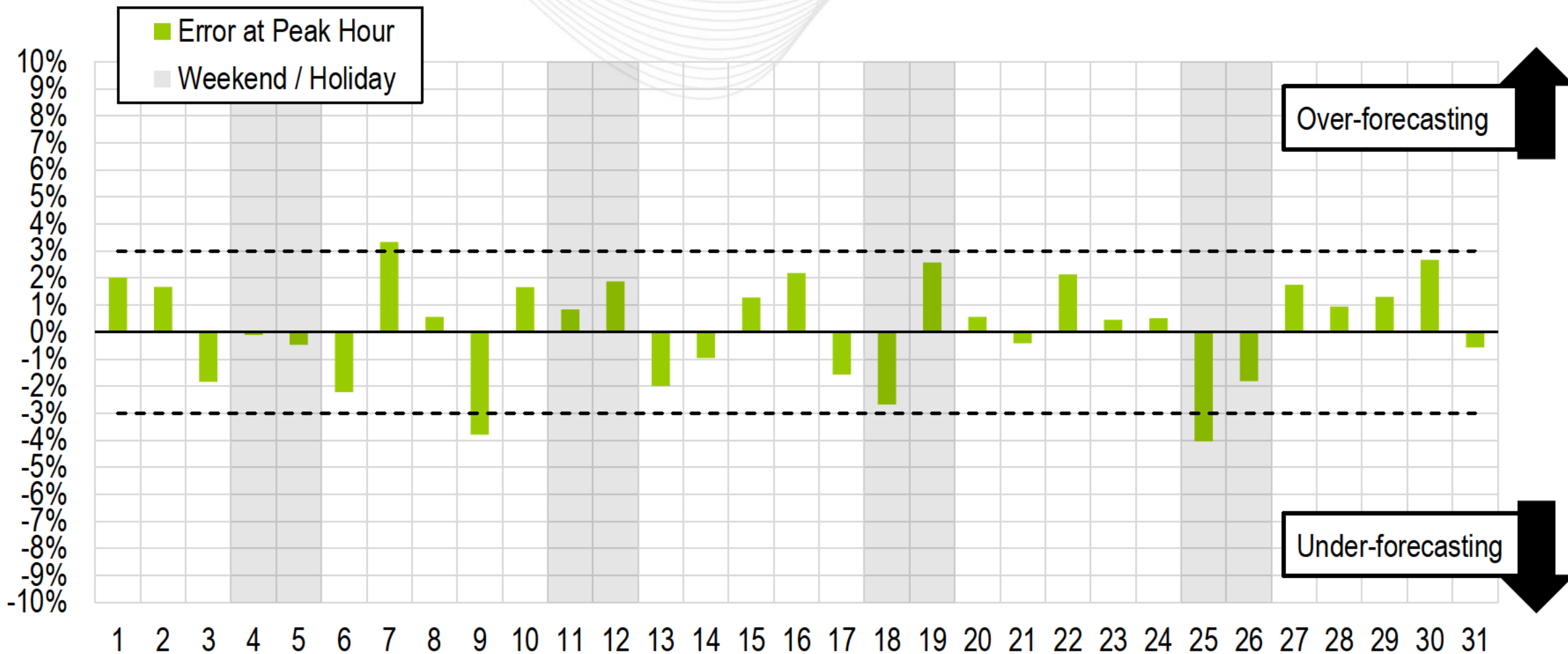


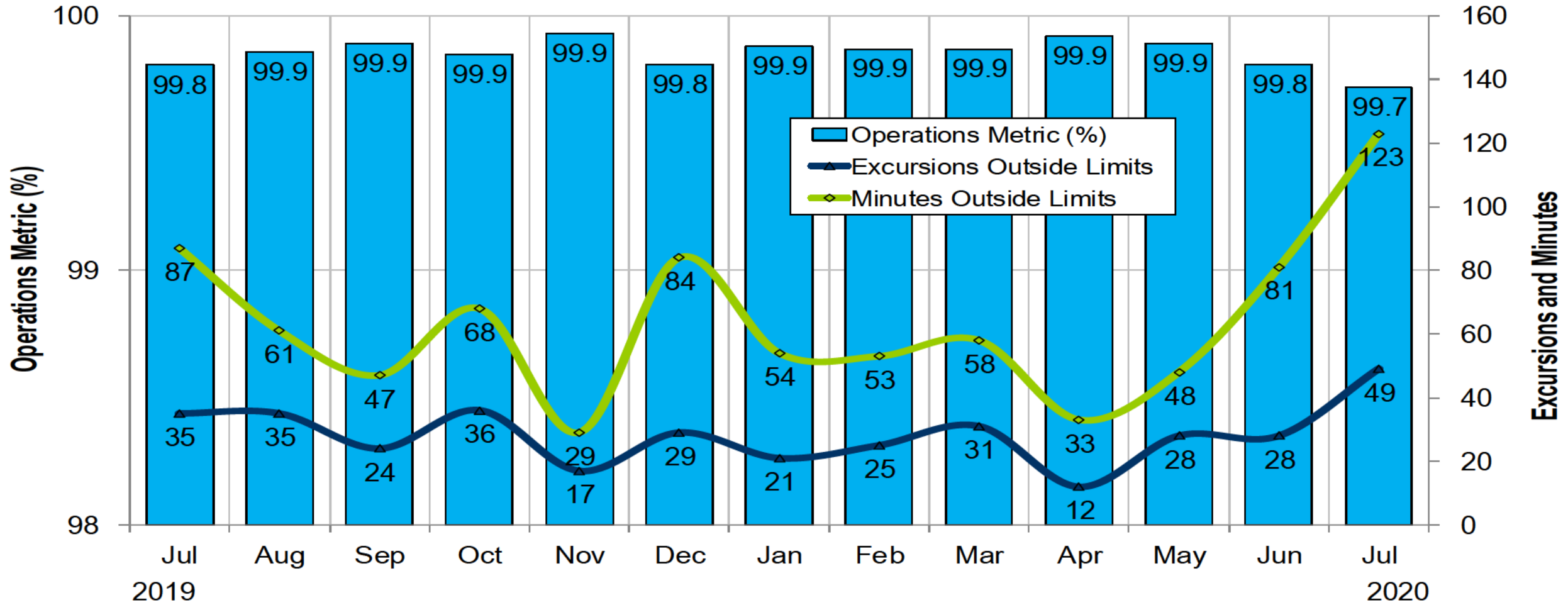


# System Operations Report

Stephanie Monzon  
Manager, Markets Coordination  
Operating Committee  
August 6, 2020

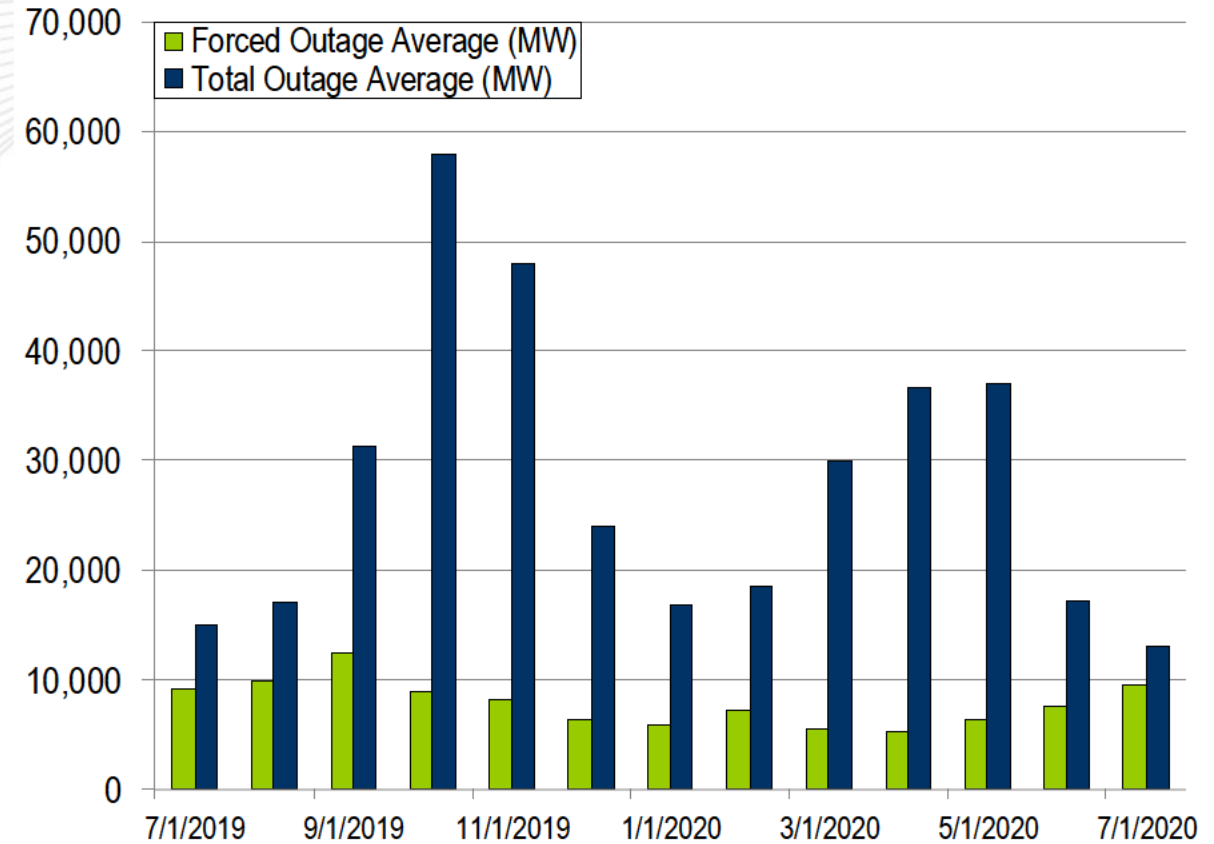
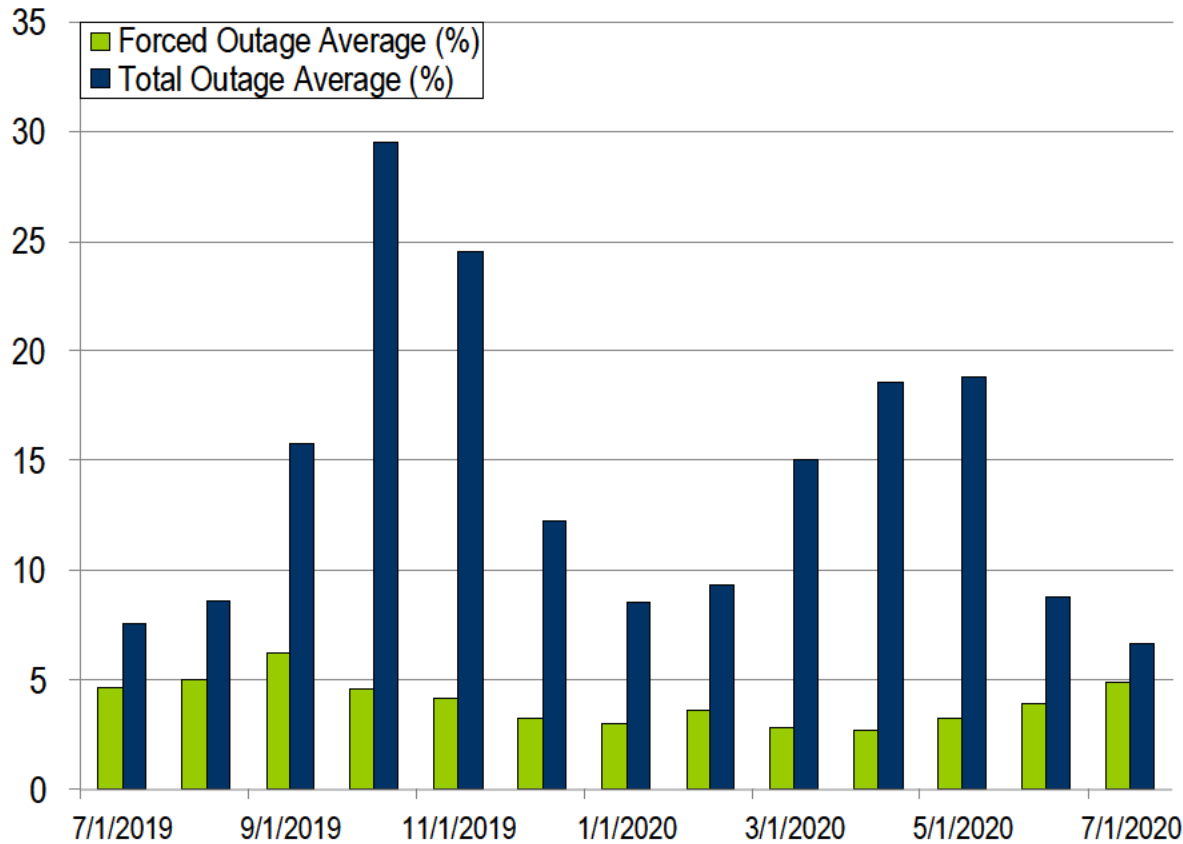






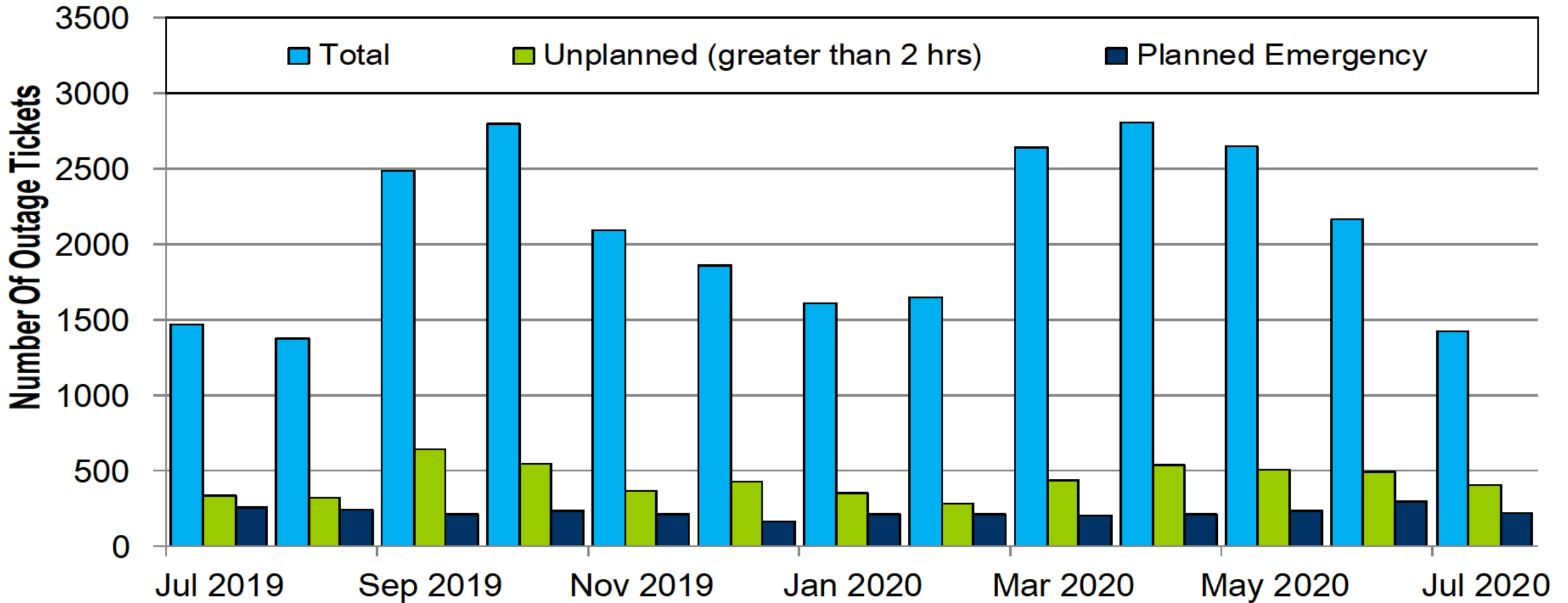
PJM's BAAL performance has exceeded the goal of 99% for each month in 2020.

- Three spinning events in the month of July
- Seven reserve sharing events with the Northeast Power Coordinating Council (NPCC)
- The following Emergency Procedures occurred in July:
  - 31 Post-Contingency Local Load Relief Warnings (PCLLRW)
  - 15 Hot Weather Alerts



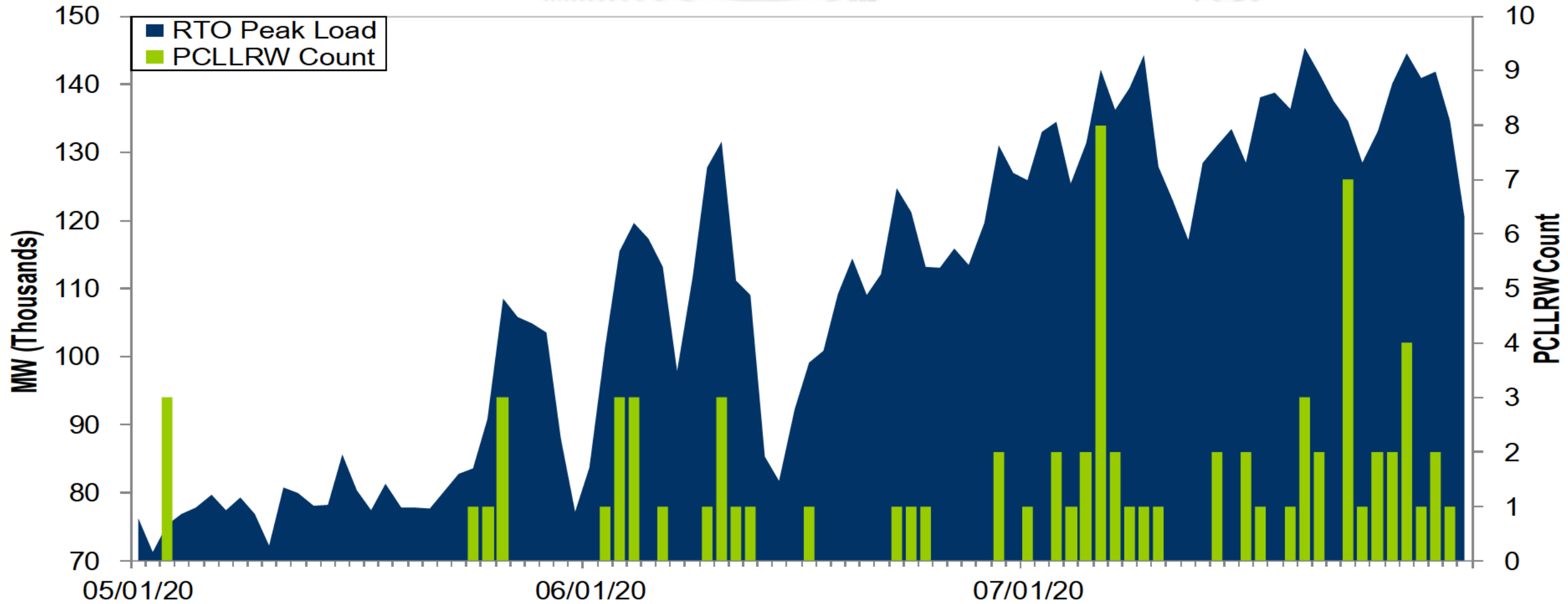
The 13-month average forced outage rate is 4.00% or 7,894 MW.  
 The 13-month average total outage rate is 14.16% or 27,907 MW.

# 2019-2020 Planned Emergency, Unplanned, and Total Outages by Ticket



Note: "Unplanned Outages" include tripped facilities. One tripping event may involve multiple facilities.

# PCLLRW Count Vs. Peak Load – Daily Values For 3 Months





Event	Date	Start Time	End Time	Duration	Region	Tier 1 Estimate (MW)	Tier 1 Response (MW)
1	07/06/20	17:22	17:32	00:10	RTO	1464.0	526.1
2	07/23/20	21:03	21:12	00:09	RTO	1562.7	852.8
3	07/25/20	12:39	12:50	00:11	MAD	868.4	421.6

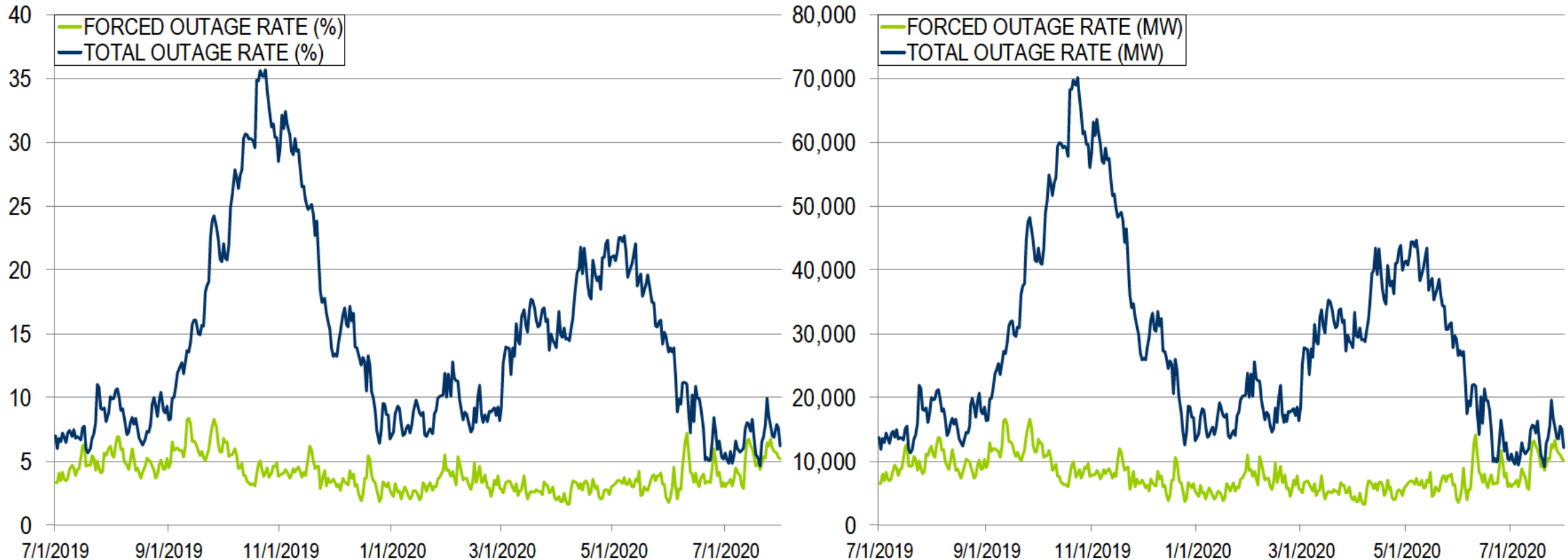
Event	Date	Start Time	End Time	Duration	Region	Tier 2 Assigned (MW)	Tier 2 Response (MW)	Tier 2 Penalty (MW)
1	07/06/20	17:22	17:32	00:10	RTO	479.7	415.1	64.6
2	7/23/2020	21:03	21:12	00:09	RTO	743.2	743.2	0.0
3	7/25/2020	12:39	12:50	00:11	MAD	302.3	264.8	37.5

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

# Appendix

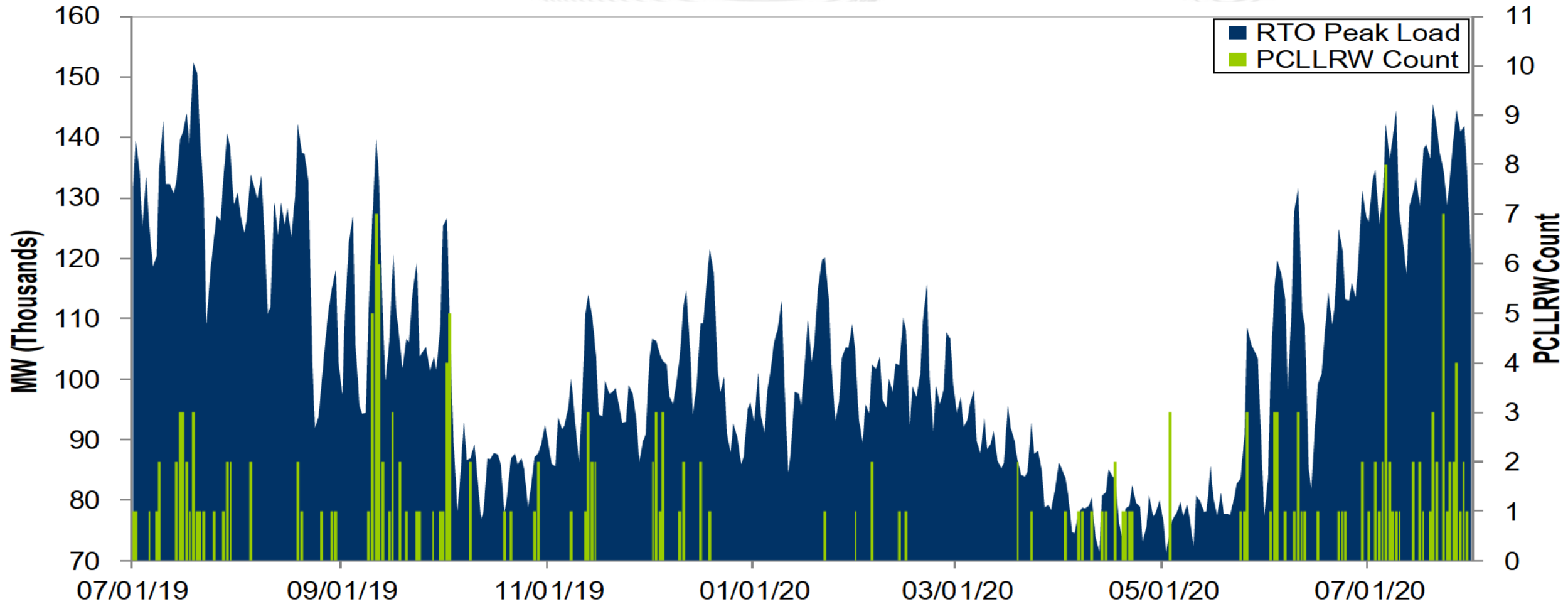
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- The purpose of the new BAAL standard is to maintain interconnection frequency within a predefined frequency profile under all conditions (normal and abnormal), to prevent frequency-related instability, unplanned tripping of load or generation, or uncontrolled separation or cascading outages that adversely impact the reliability of the interconnection. NERC requires each balancing authority demonstrate real-time monitoring of ACE and interconnection frequency against associated limits and shall balance its resources and demands in real time so that its Reporting ACE does not exceed the BAAL ( $BAAL_{LOW}$  or  $BAAL_{HIGH}$ ) for a continuous time period greater than 30 minutes for each event.
- PJM directly measures the total number of BAAL excursions in minutes compared to the total number of minutes within a month. PJM has set a target value for this performance goal at 99% on a daily and monthly basis. In addition, current NERC rules limit the recovery period to no more than 30 minutes for a single event.



The 13-month average forced outage rate is 4.00% or 7,894 MW.  
 The 13-month average total outage rate is 14.16% or 27,907 MW.

# PCLLRW Count Vs. Peak Load – Daily Values For 13 Months



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## System Operations Report – July 2020



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