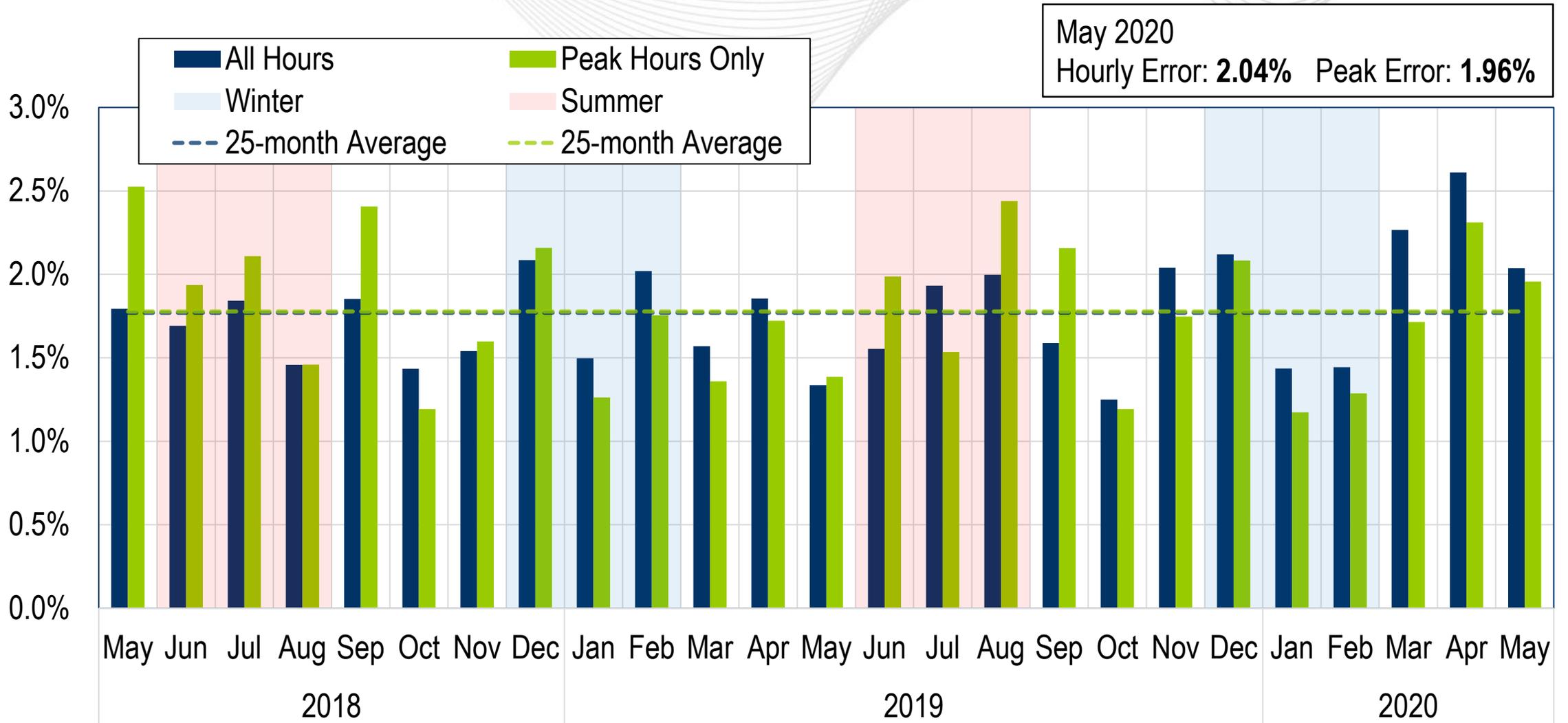


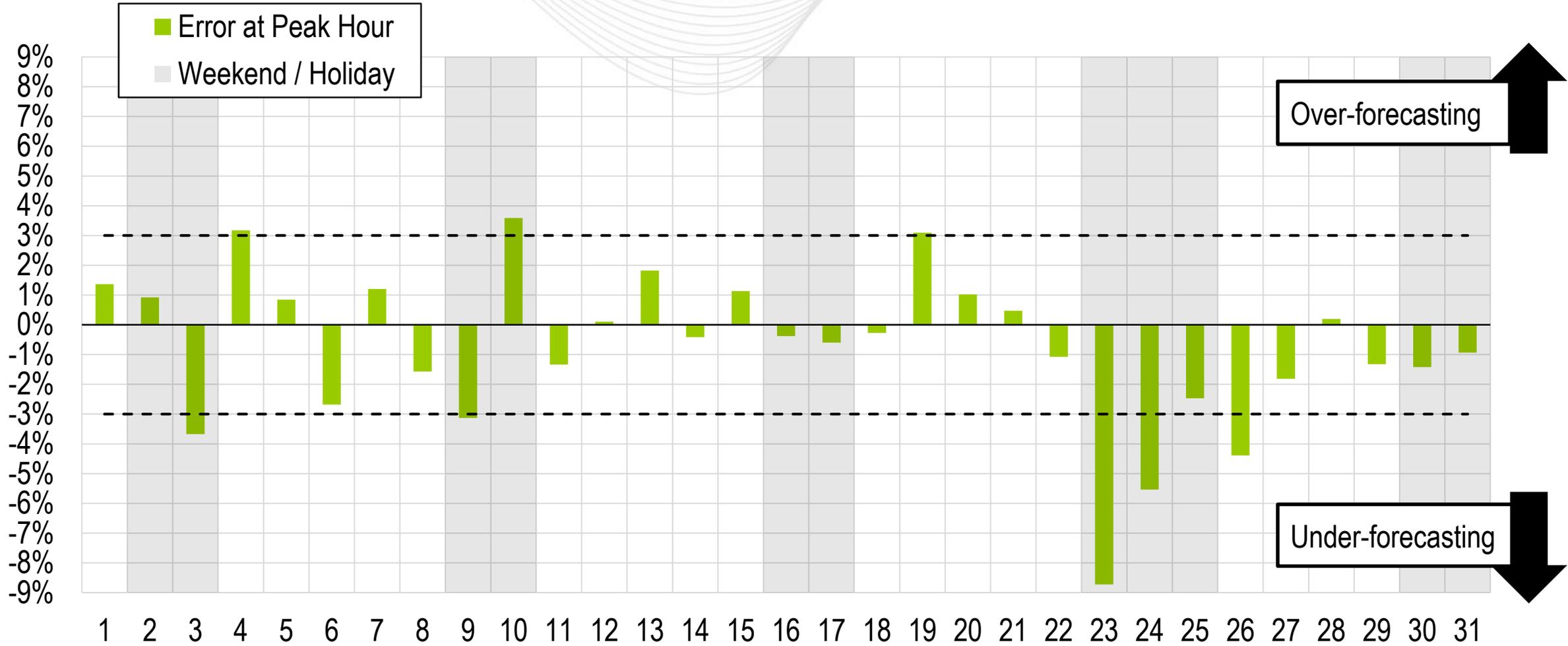


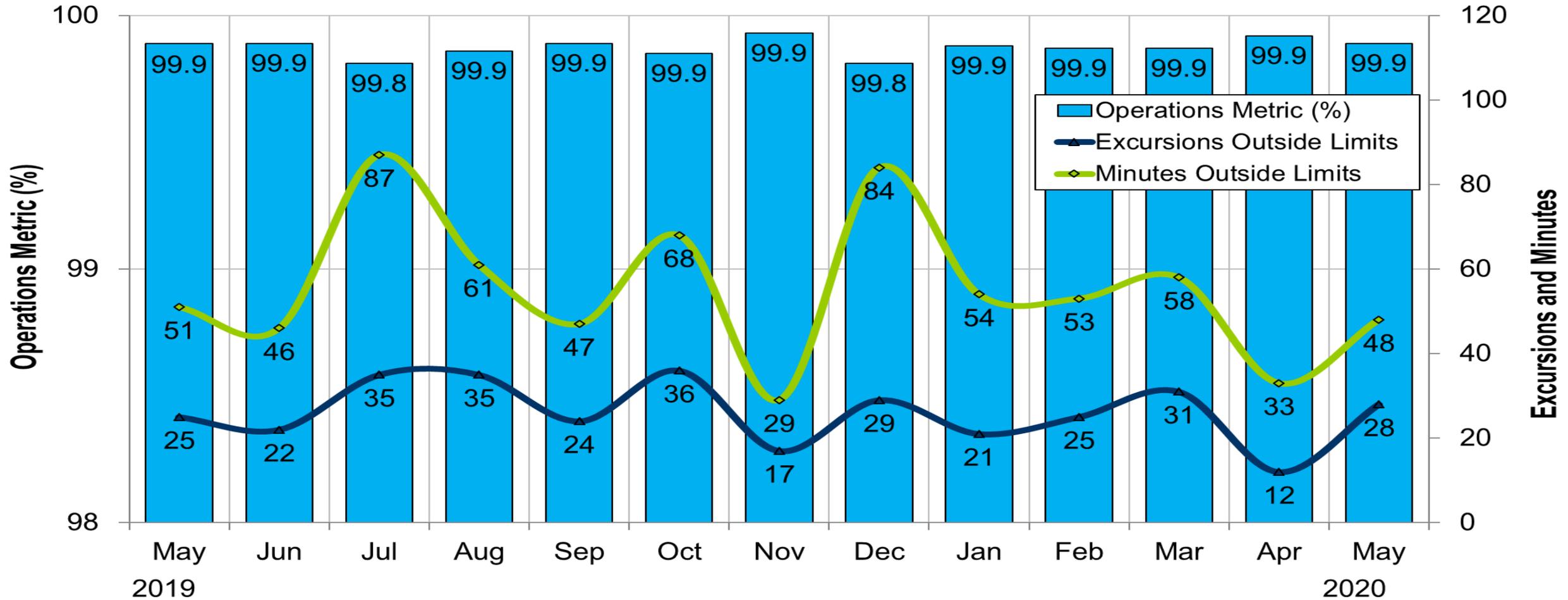
System Operations Report

Stephanie Monzon
Manager, Markets Coordination
Operating Committee
June 4, 2020



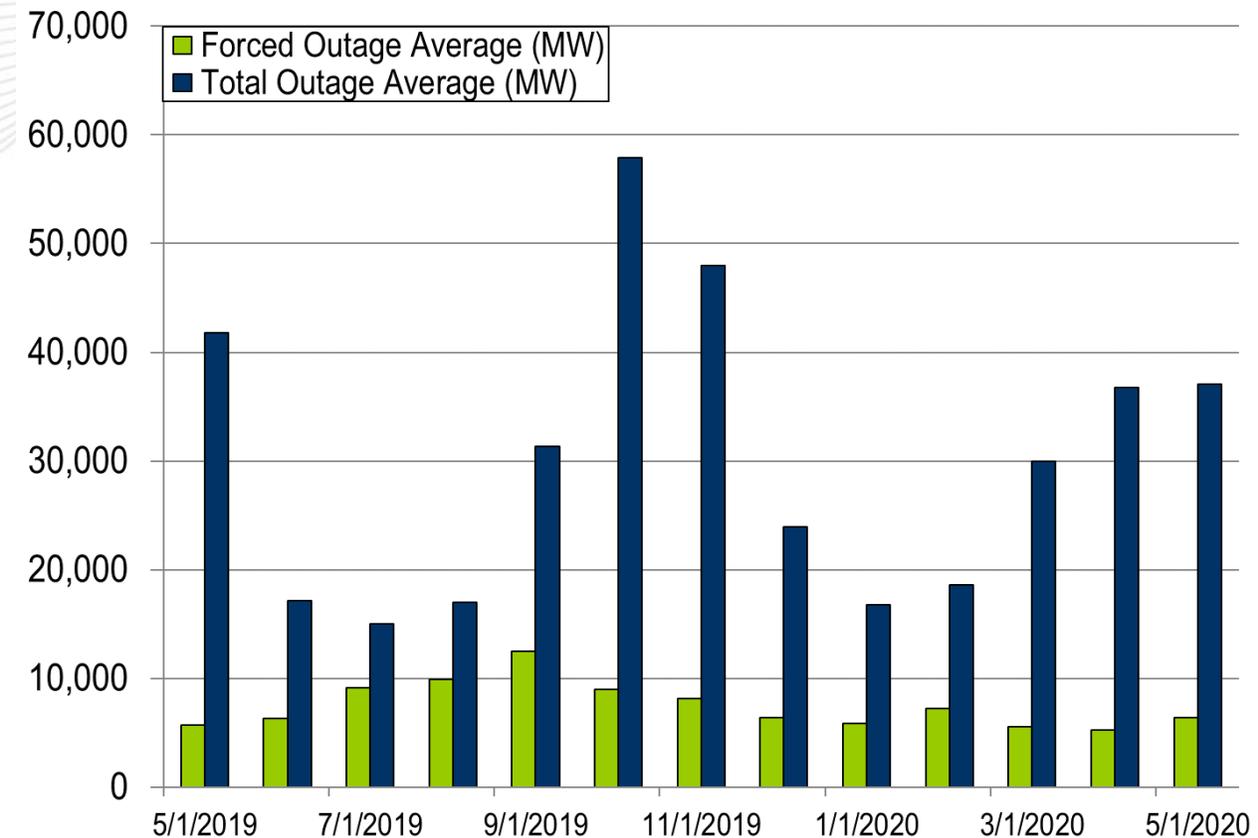
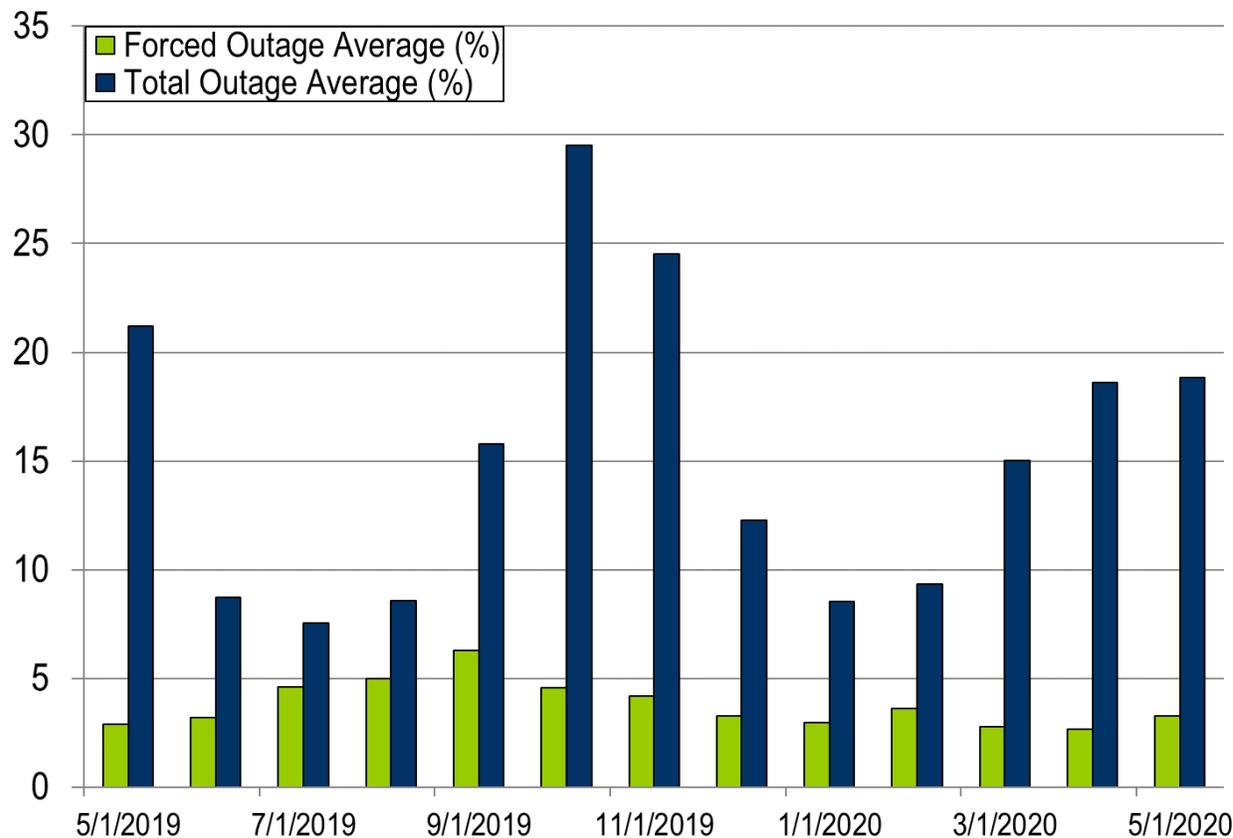
Daily Peak Forecast Error (May)





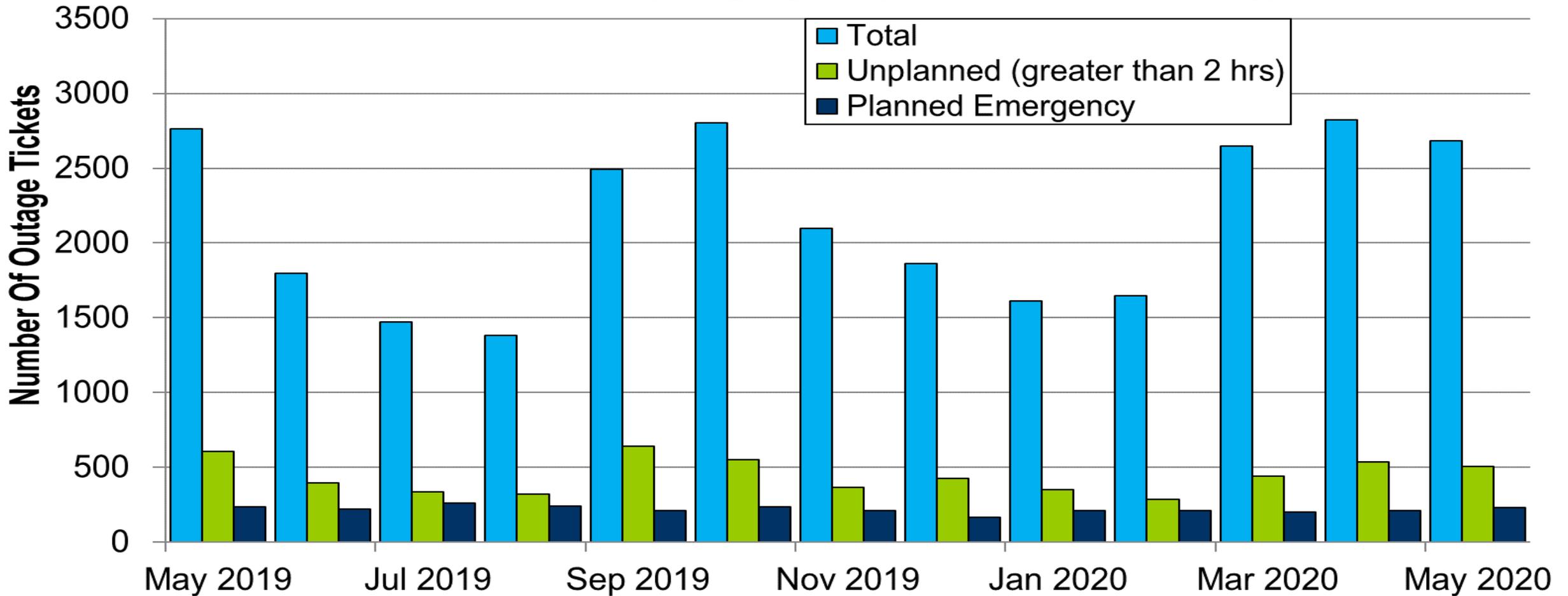
PJM's BAAL performance has exceeded the goal of 99% for each month in 2020.

- One spinning event in the month of May
- Five reserve sharing events with the Northeast Power Coordinating Council (NPCC)
- The following Emergency Procedures occurred in April:
 - 6 Post-Contingency Local Load Relief Warnings (PCLLRW)
 - 14 High System Voltages
 - 0 Shortage Cases Approved



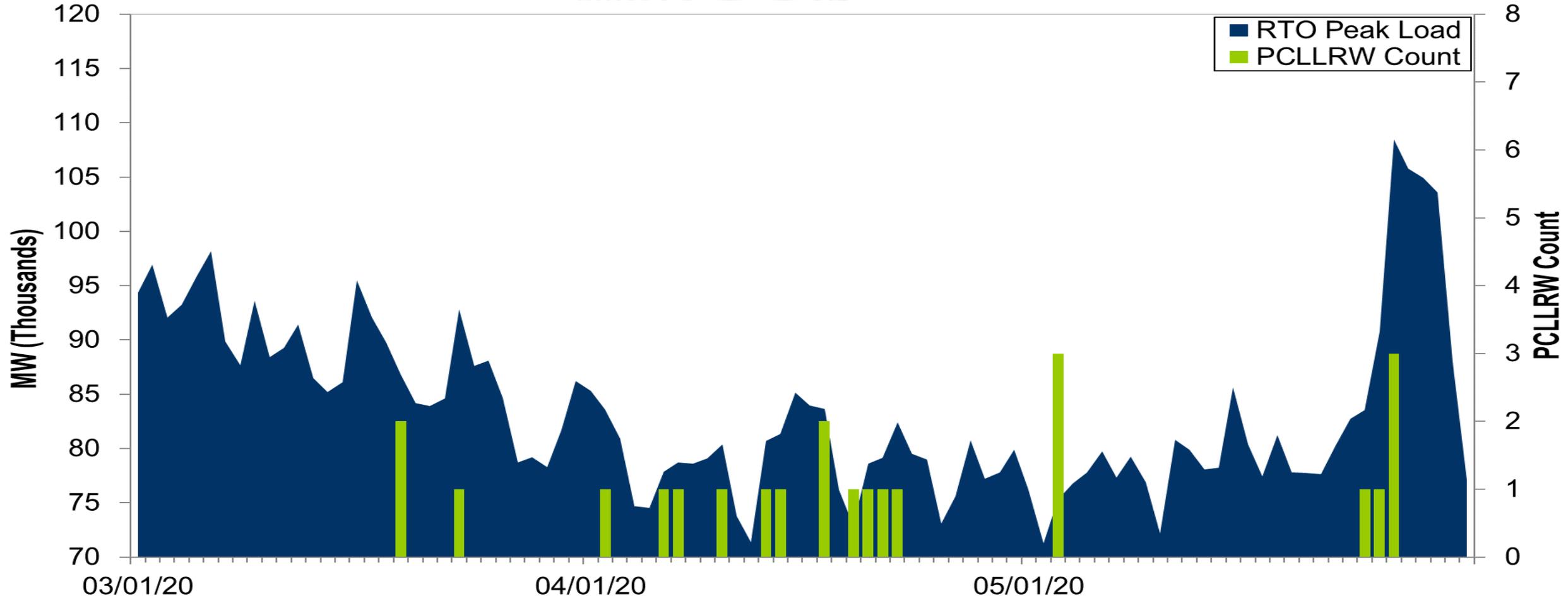
The 13-month average forced outage rate is 3.73% or 7,371 MW.
 The 13-month average total outage rate is 16.27% or 32,061 MW.

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	05/03/20	08:23	08:29	00:06	RTO	4154.4	1369.6

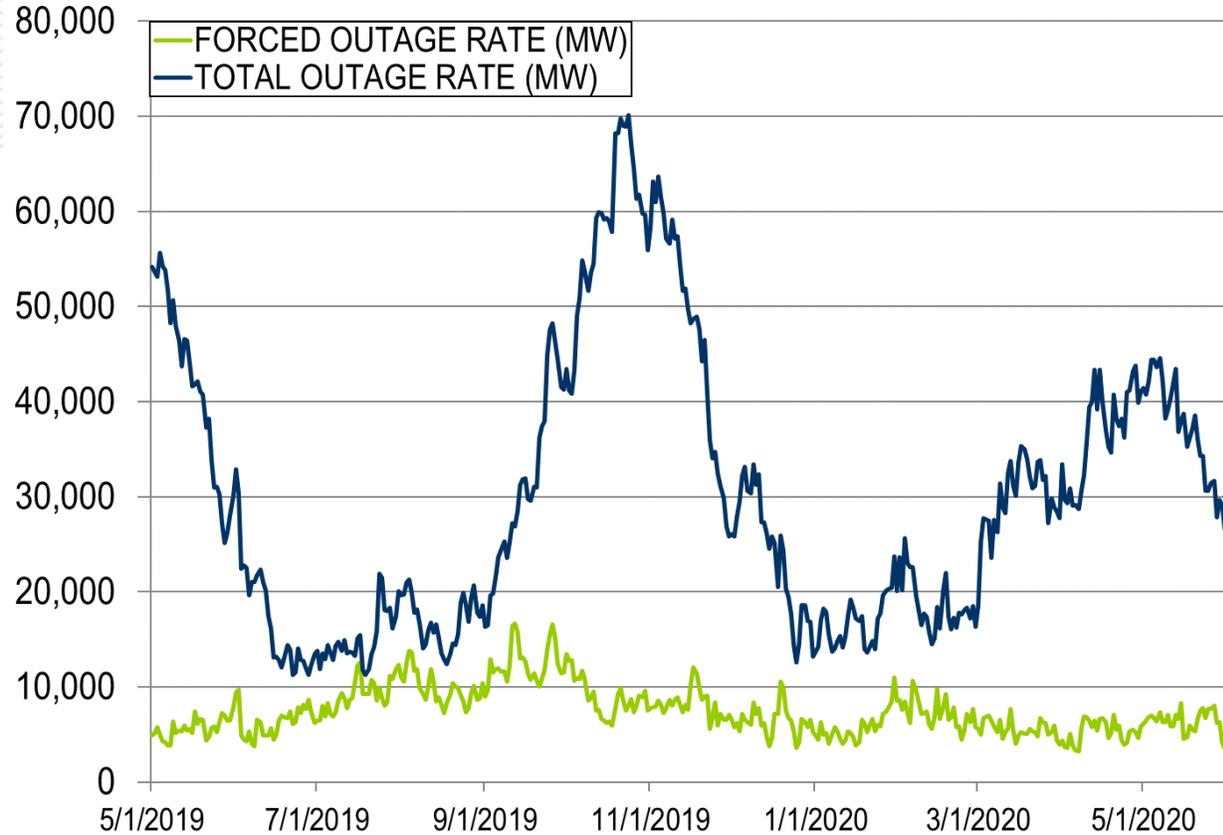
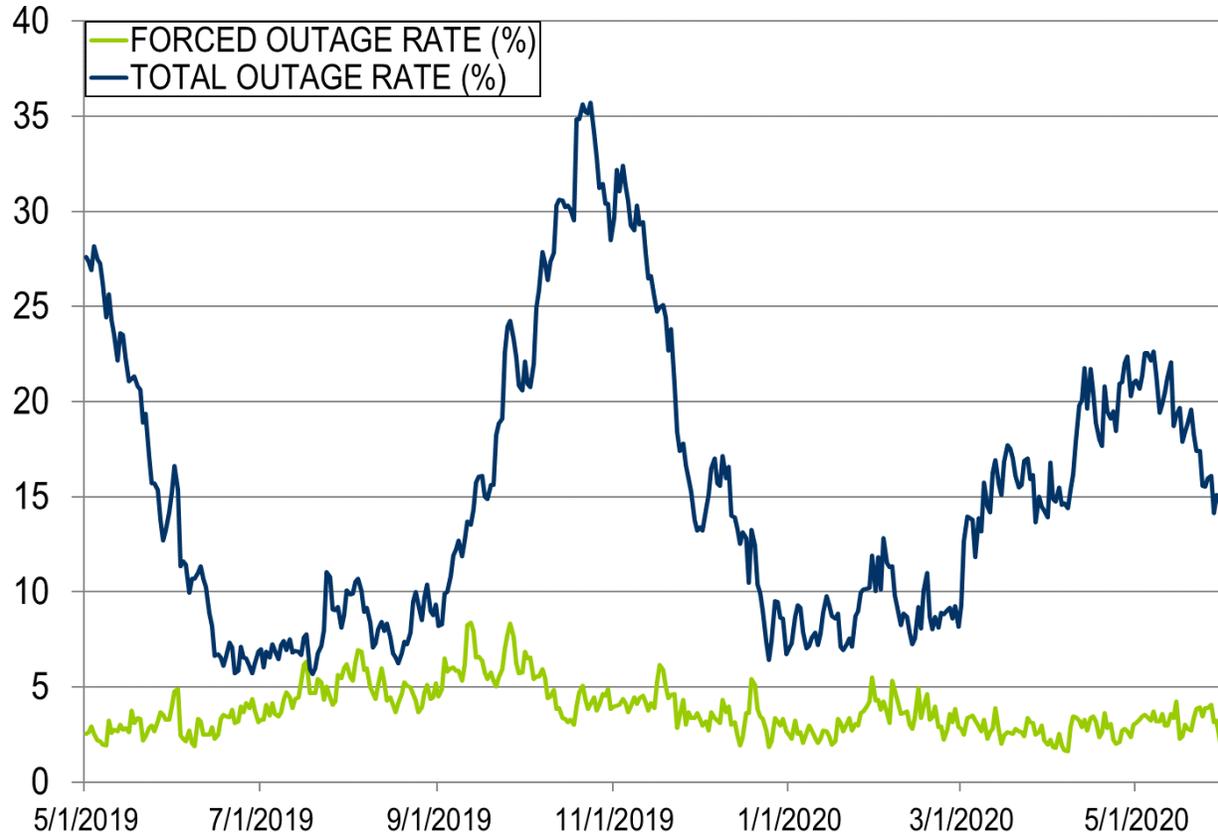
Event	Date	Start Time	End Time	Duration	Region	Tier 2 Assigned (MW)	Tier 2 Response (MW)	Tier 2 Penalty (MW)
1	05/03/20	08:23	08:29	00:06	RTO	0.0	0.0	0.0

*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 3.73% or 7,371 MW.
 The 13-month average total outage rate is 16.27% or 32,061 MW.

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

