

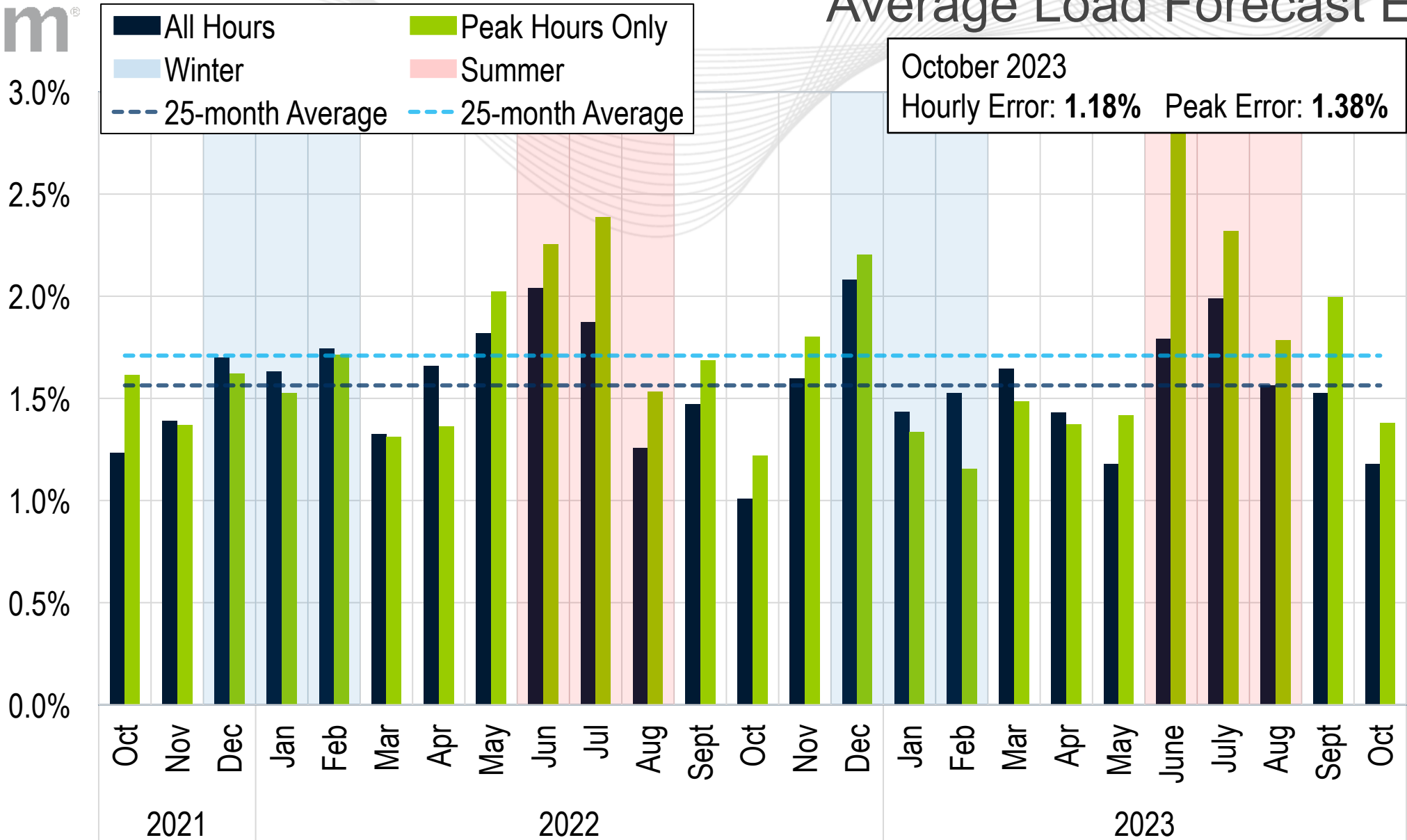


# System Operations Report

Hong Chen  
Principal Engineer, Markets Coordination  
MC Webinar  
November 13, 2023

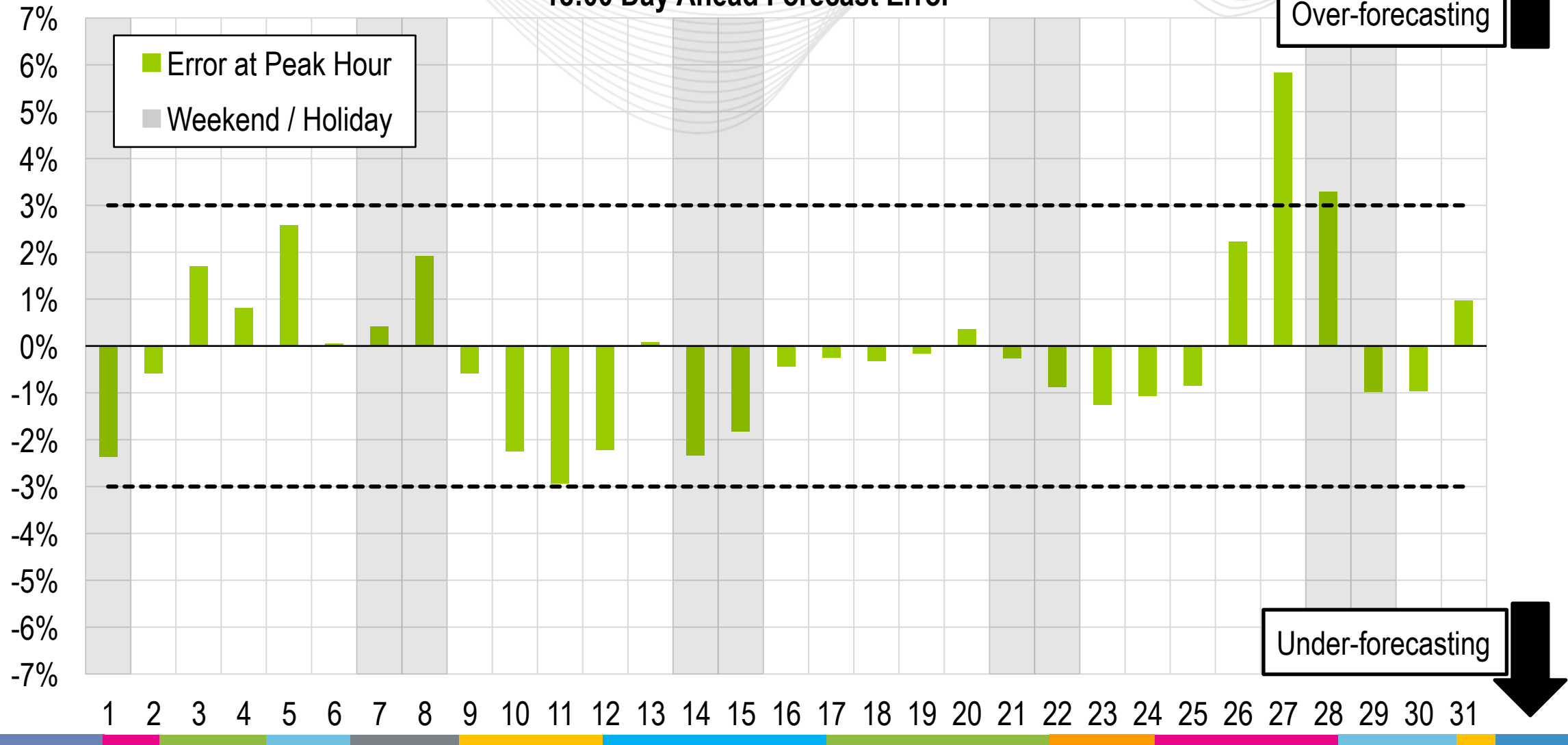


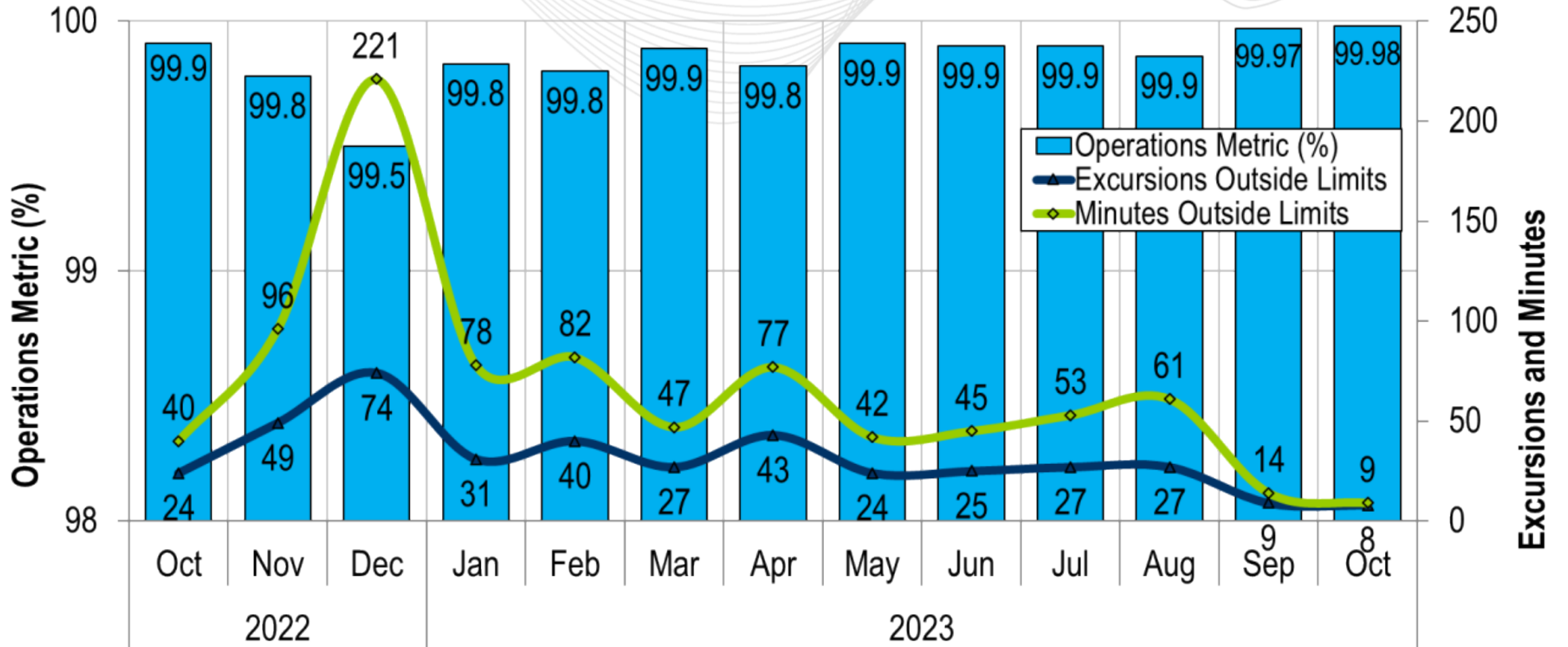
# Average Load Forecast Error



# Daily Peak Forecast Error (October)

## 18:00 Day Ahead Forecast Error

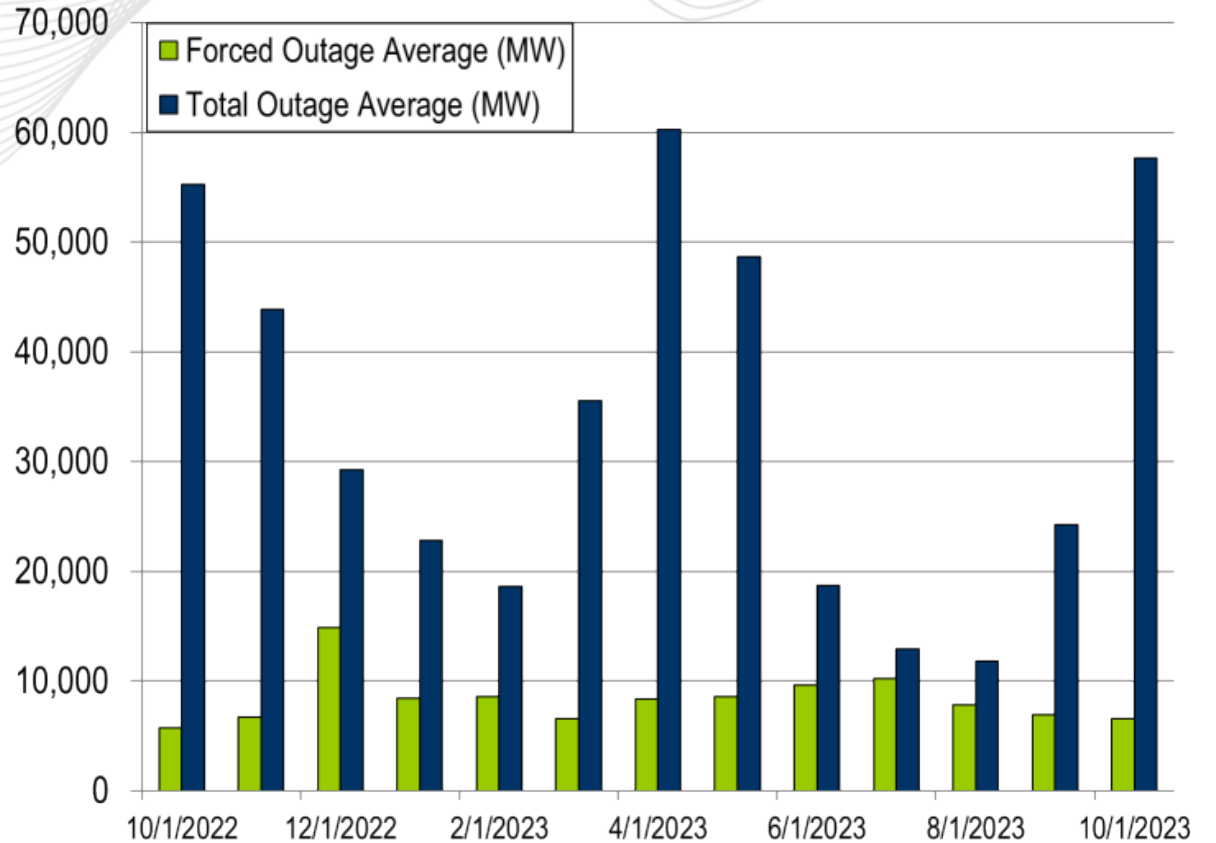
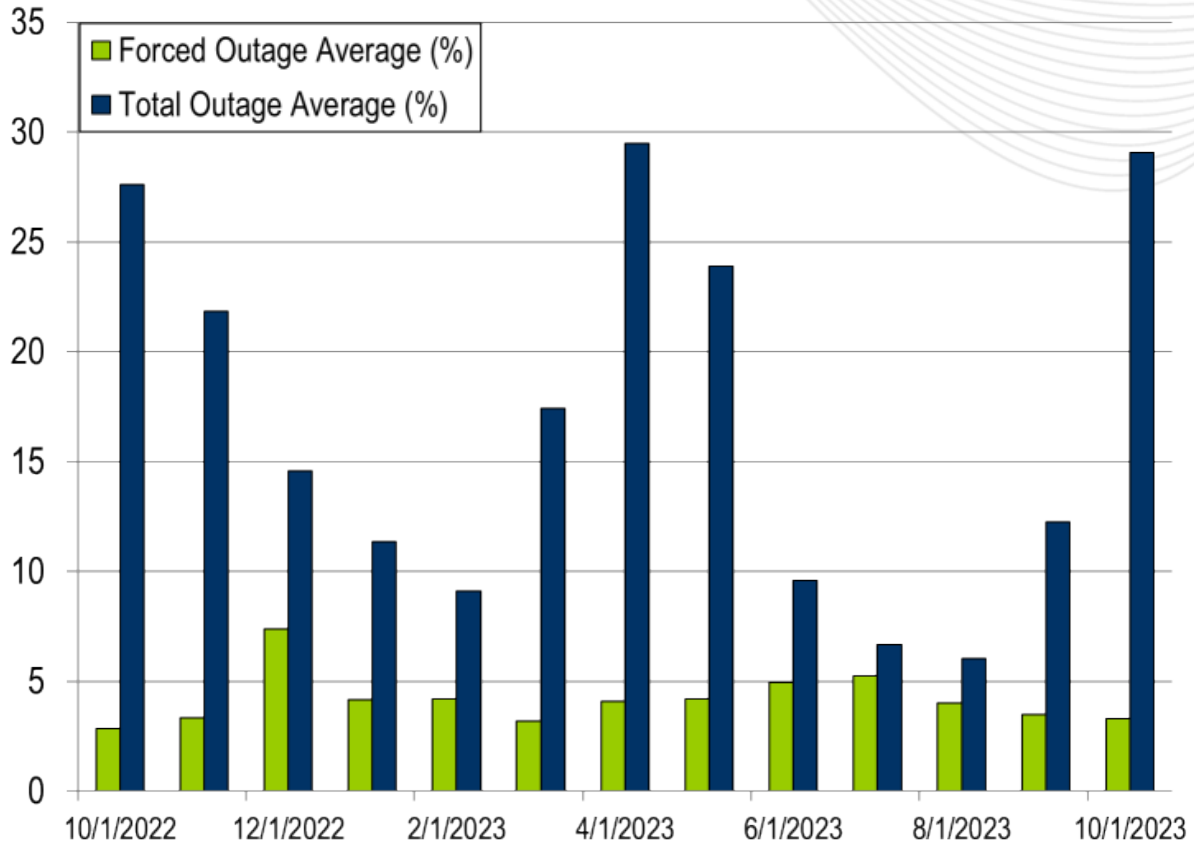




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022 and 2023.

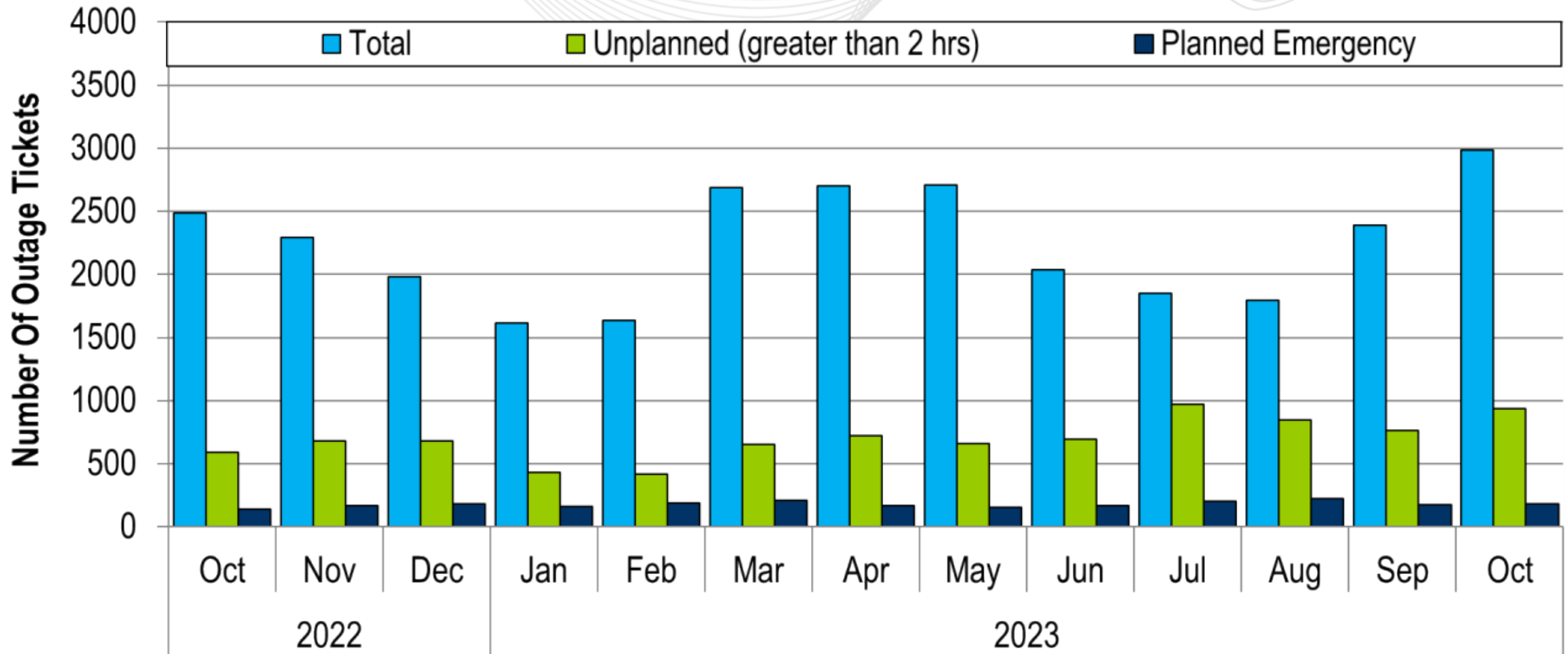
- 1 Shared Reserve event
- The following Emergency Procedures occurred:
  - 14 High System Voltage Actions
  - 17 Post Contingency Local Load Relief Warnings (PCLLRW)

- 3 Shortage Cases Approved
- The approved Shortage Cases occurred on:
  - 10/02/2023:
    - 2 Shortage Cases for intervals 18:15 and 18:20
    - Factors: Export increase and solar drop out
  - 10/03/2023:
    - 1 Shortage Case for interval 17:59
    - Factors: Higher load than forecasted, export increase, and solar drop out



The 13-month average forced outage rate is 4.20% or 8,394 MW.  
 The 13-month average total outage rate is 16.89% or 33,913 MW.

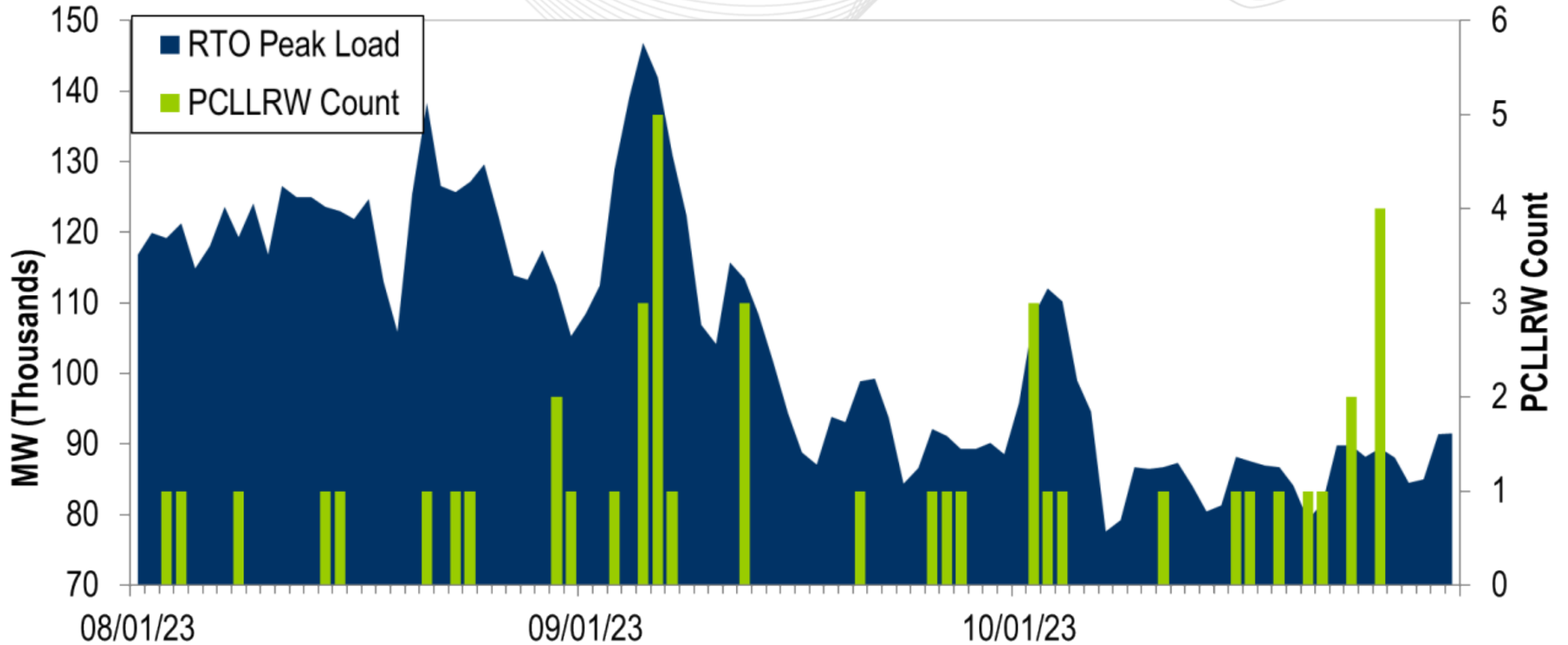
# 2022-2023 Planned Emergency, Unplanned, and Total Outages by Ticket



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



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



There have been no spin events for the month of October 2023

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System Operations Report



### Member Hotline

(610) 666 – 8980

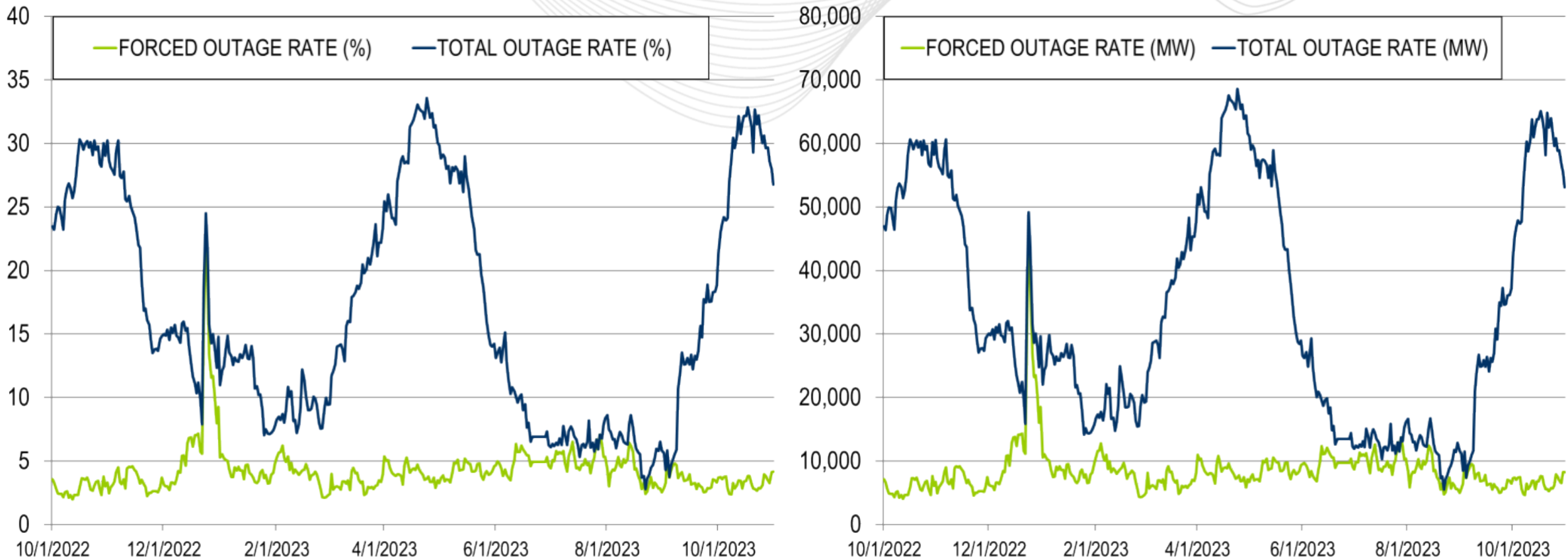
(866) 400 – 8980

[custsvc@pjm.com](mailto:custsvc@pjm.com)

# Appendix

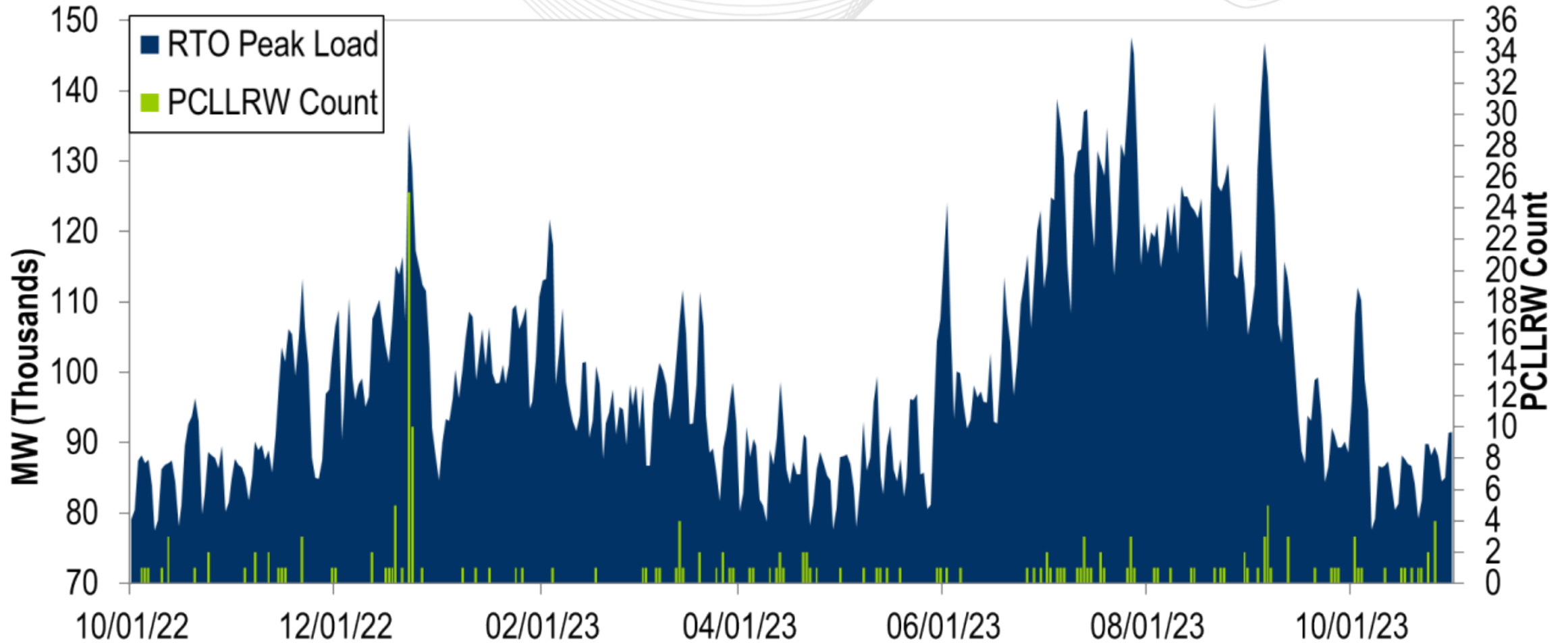
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.20% or 8,394 MW.  
 The 13-month average total outage rate is 16.89% or 33,913 MW.

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





**PROTECT THE  
POWER GRID  
THINK BEFORE  
YOU CLICK!**



Be alert to  
malicious  
phishing emails.

**Report suspicious email activity to PJM.**  
(610) 666-2244 / [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)

