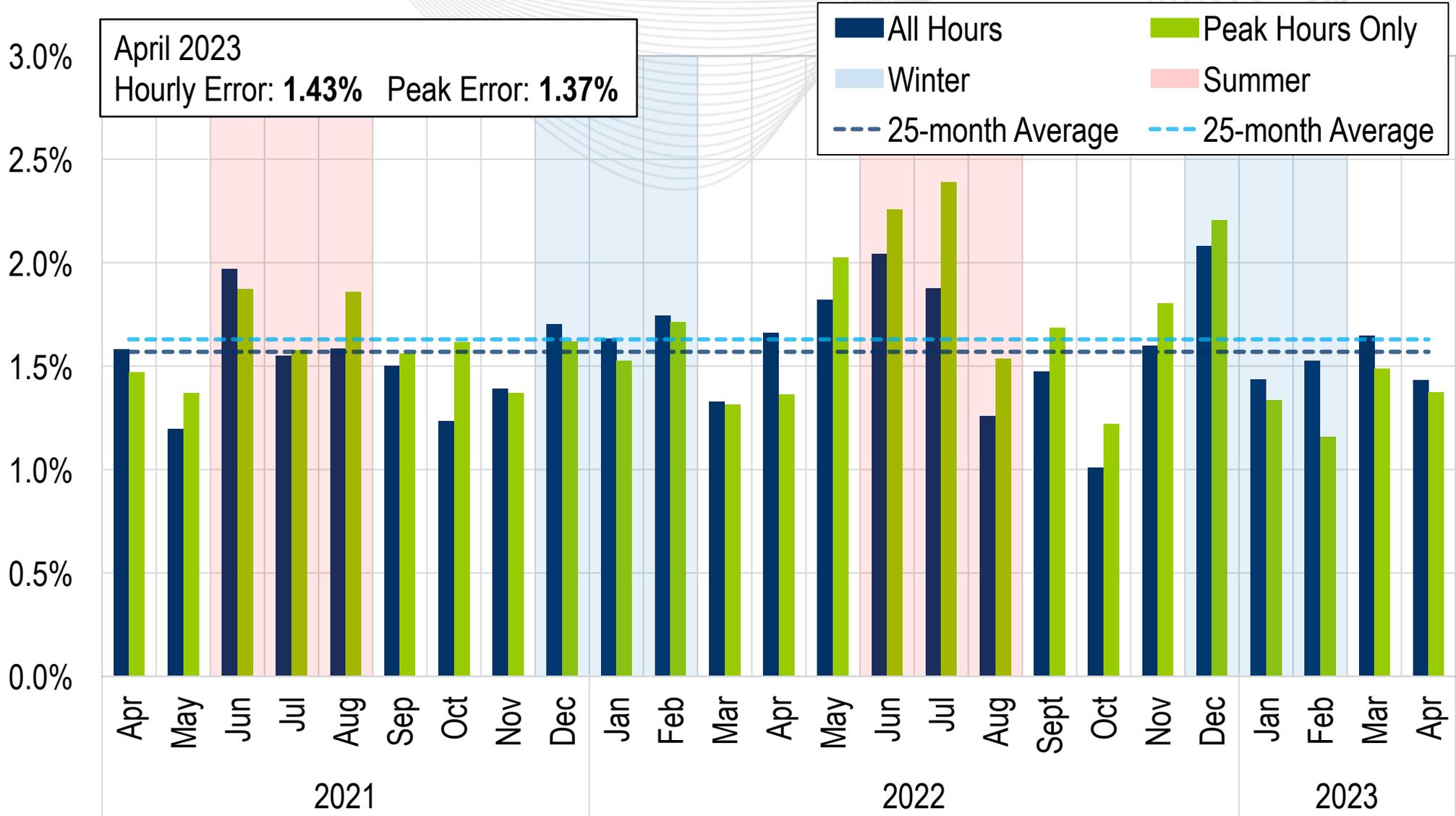




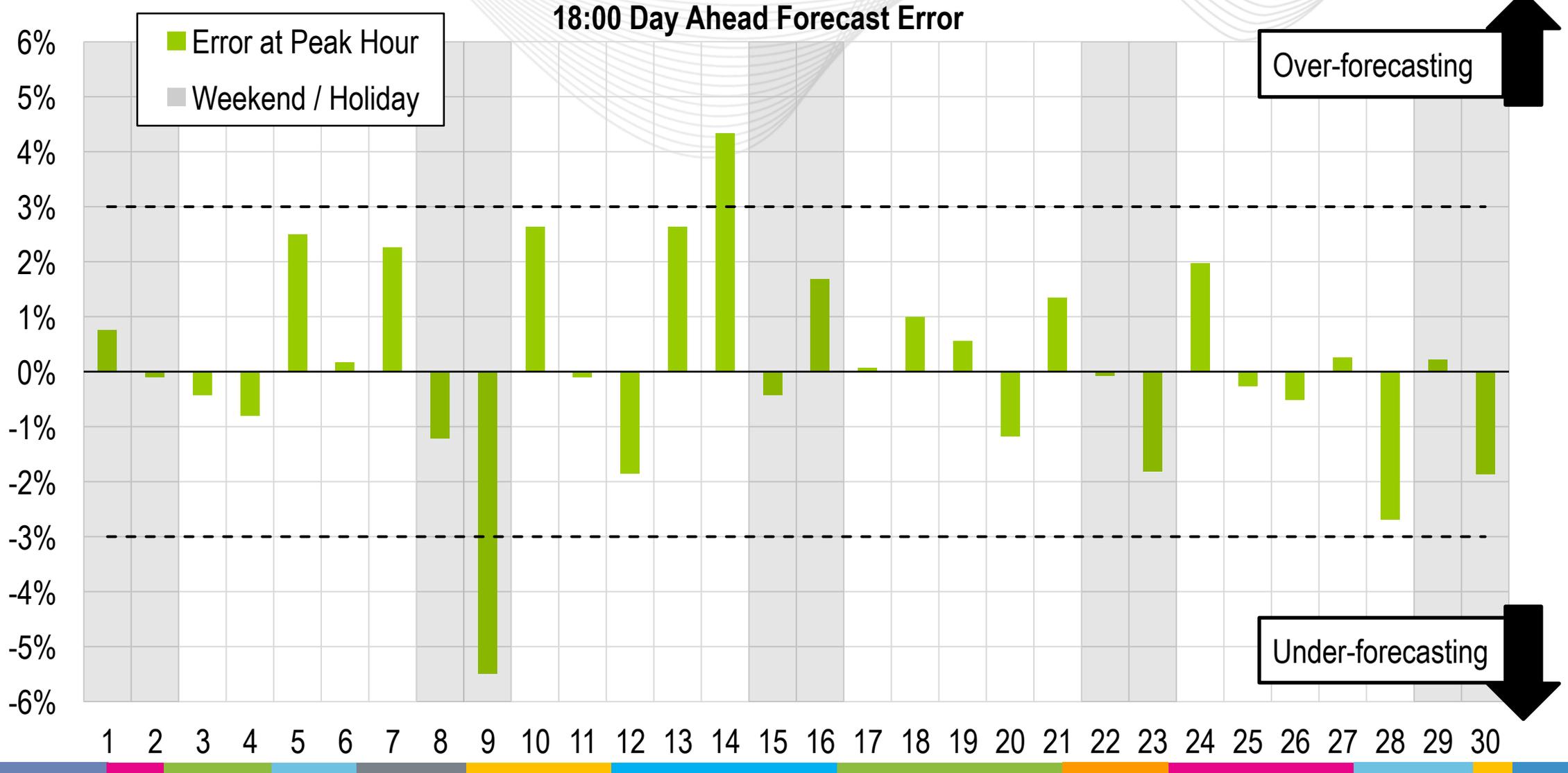
# System Operations Report

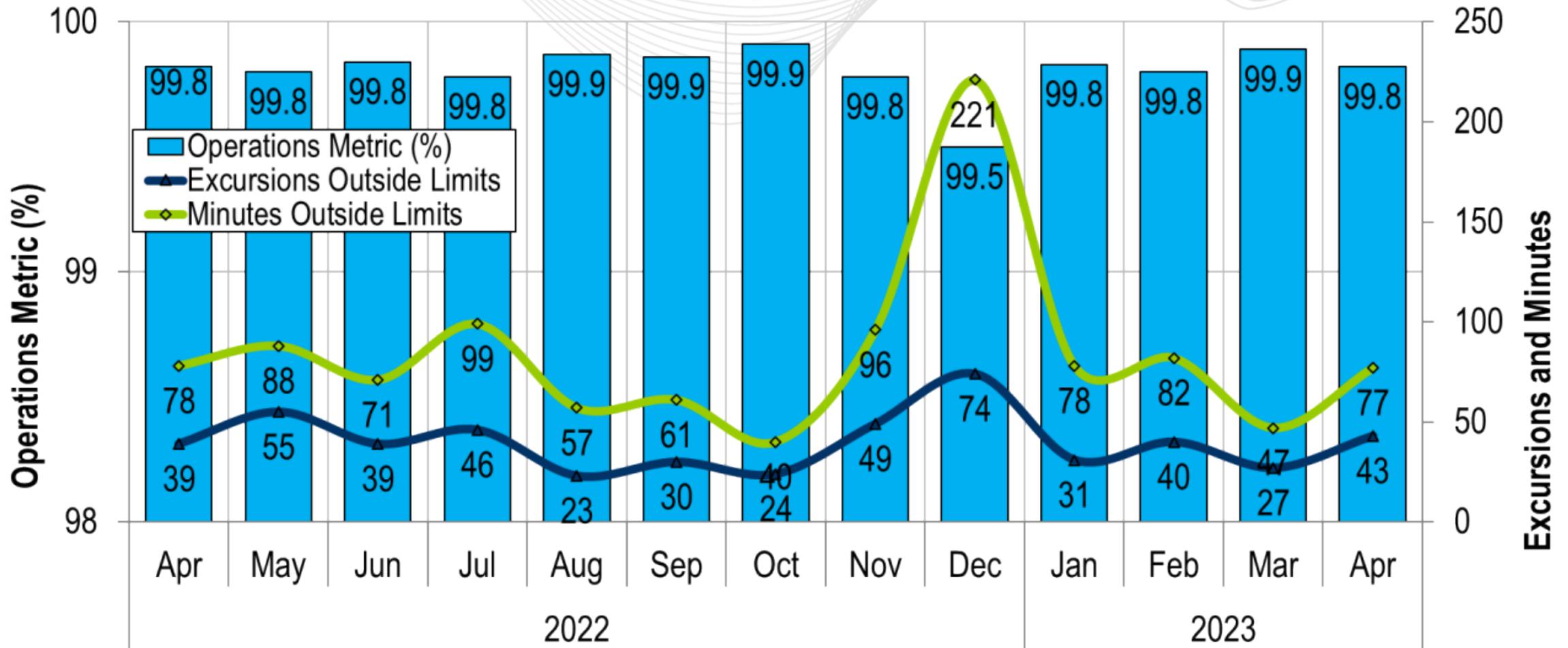
Hong Chen  
Principal Engineer, Markets Coordination  
MC Webinar  
May 22th, 2023

# Average Load Forecast Error



# Daily Peak Forecast Error (April)

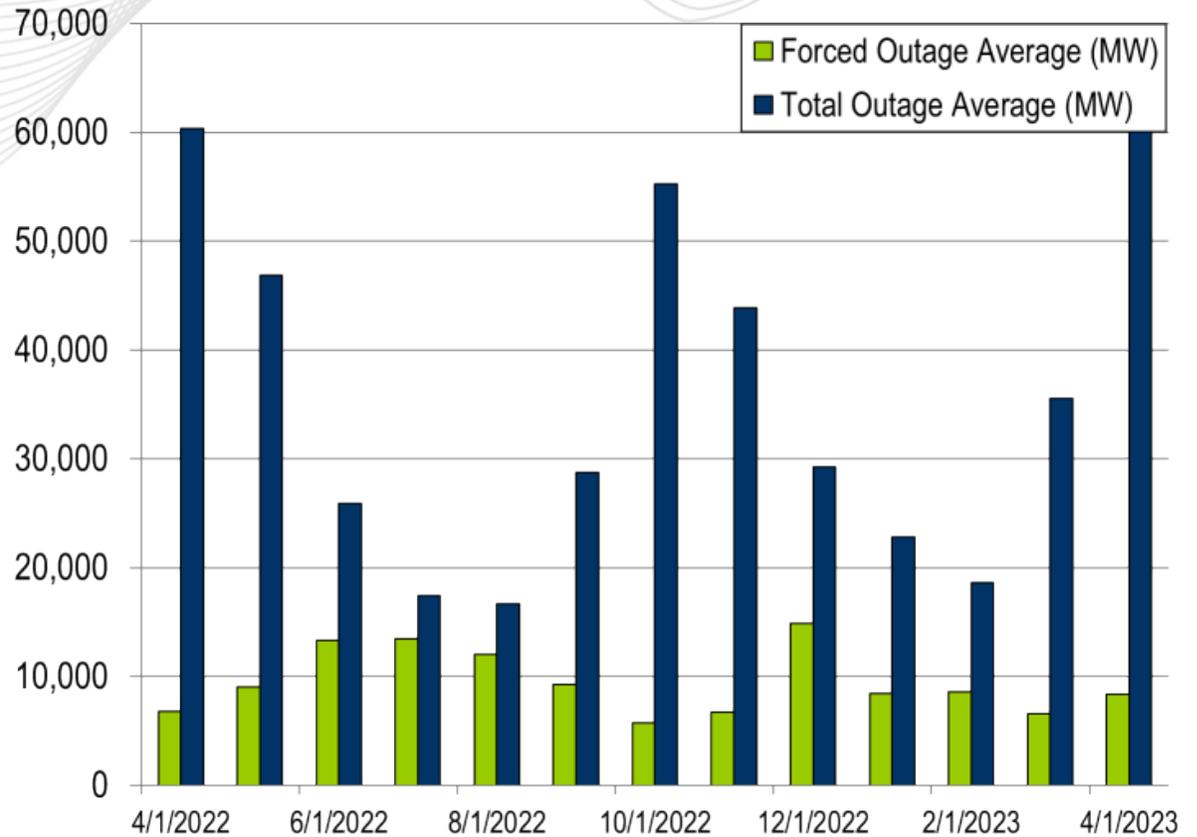
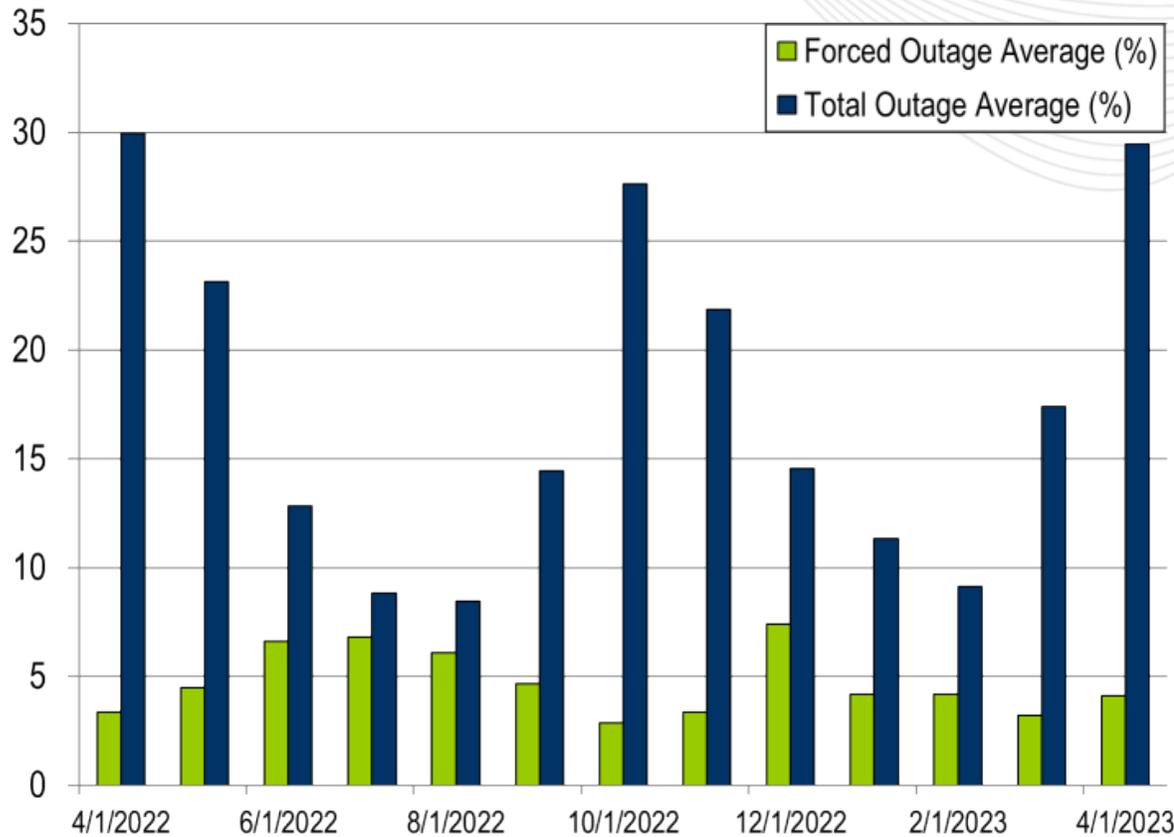




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022 and 2023.

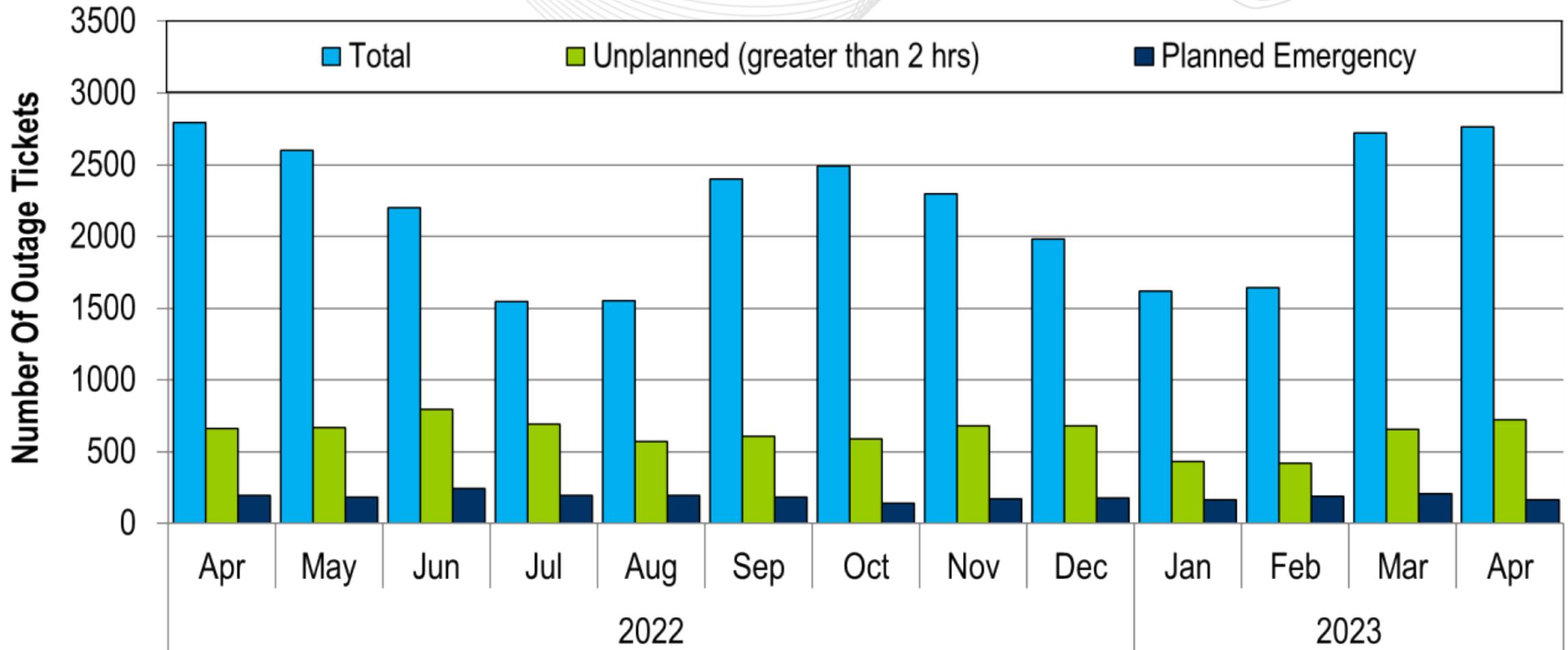
- The following Emergency Procedures occurred:
  - 1 Geomagnetic Disturbance Warning
  - 4 High System Voltage Actions
  - 13 Post Contingency Local Load Relief Warnings

- There were no shortage cases approved for the month of April 2023



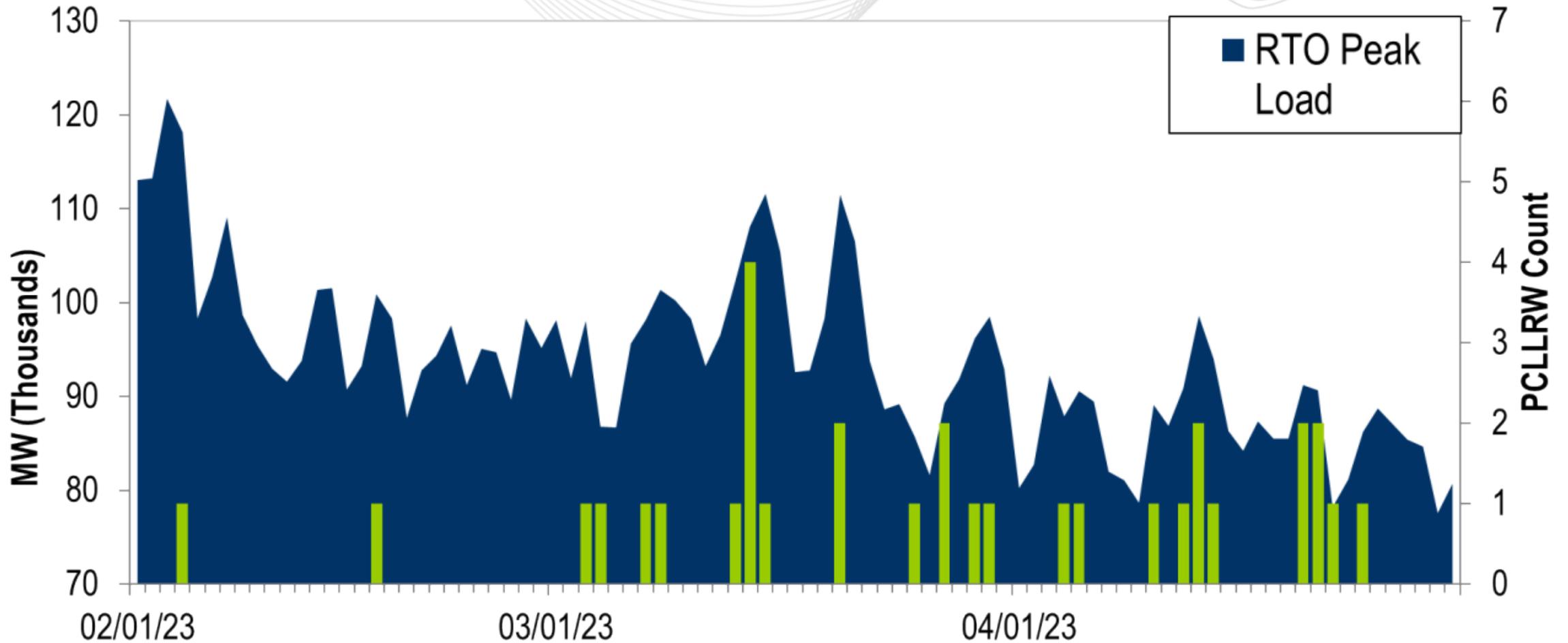
The 13-month average forced outage rate is 4.73% or 9,496 MW.  
 The 13-month average total outage rate is 17.64% or 35,532 MW.

# 2021-2022 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 were no spin events in April 2023

\*Response is equal to Assigned for events with duration less than ten minutes

Presenter:  
Hong Chen,  
[Hong.Chen@pjm.com](mailto:Hong.Chen@pjm.com)

SME:  
Ross Kelly,  
[Ross.Kelly@pjm.com](mailto:Ross.Kelly@pjm.com)

System Operations Report



### Member Hotline

(610) 666 – 8980

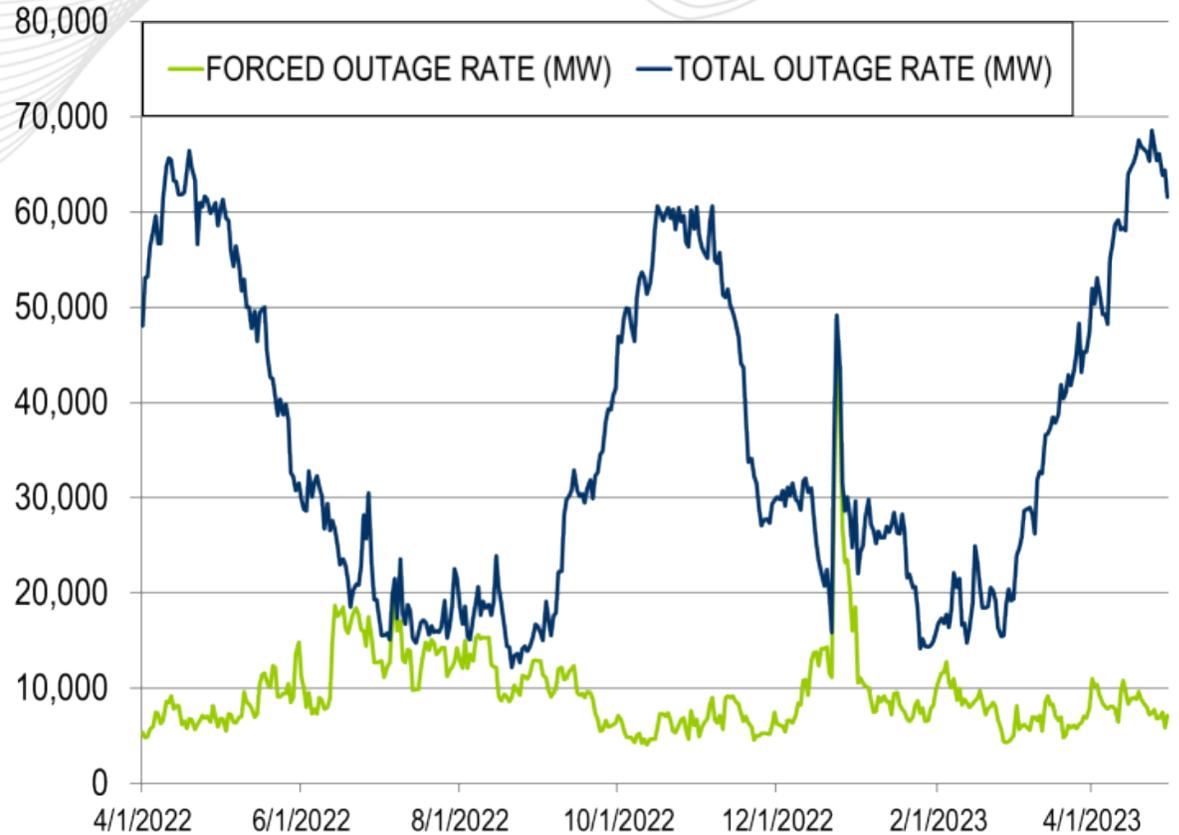
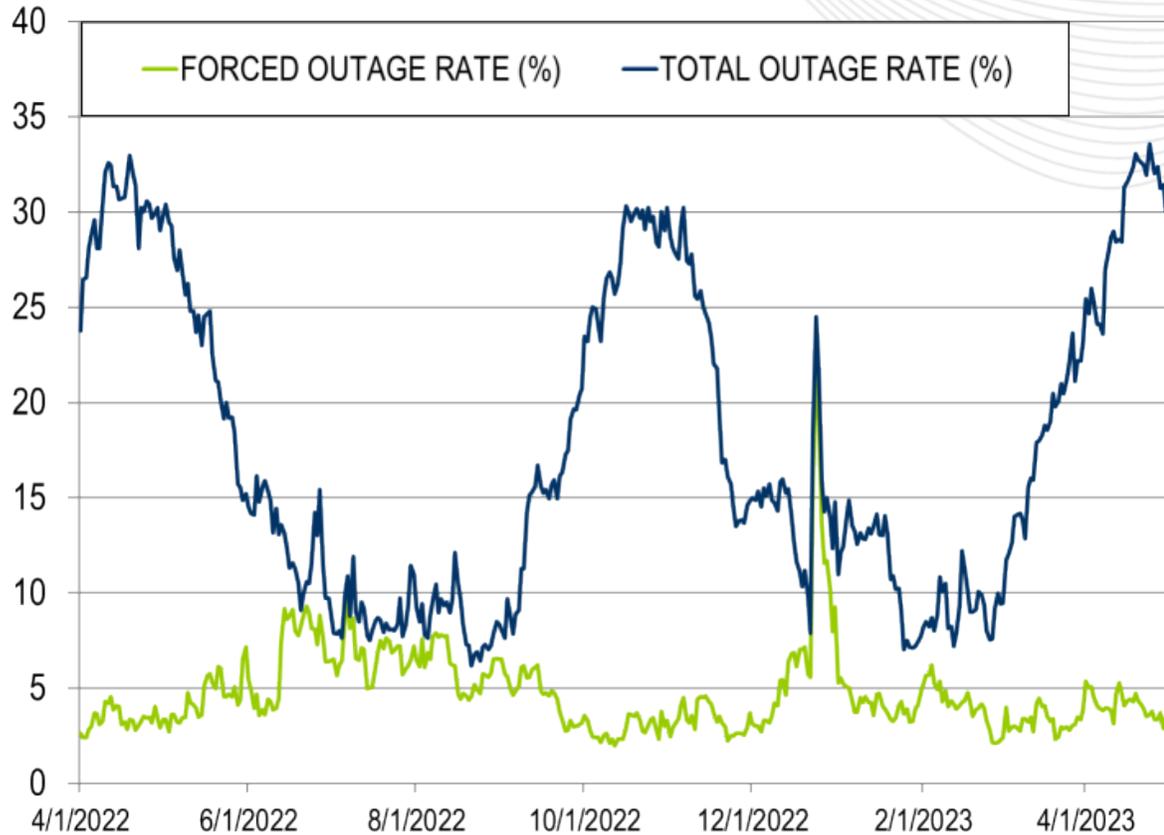
(866) 400 – 8980

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

# Appendix

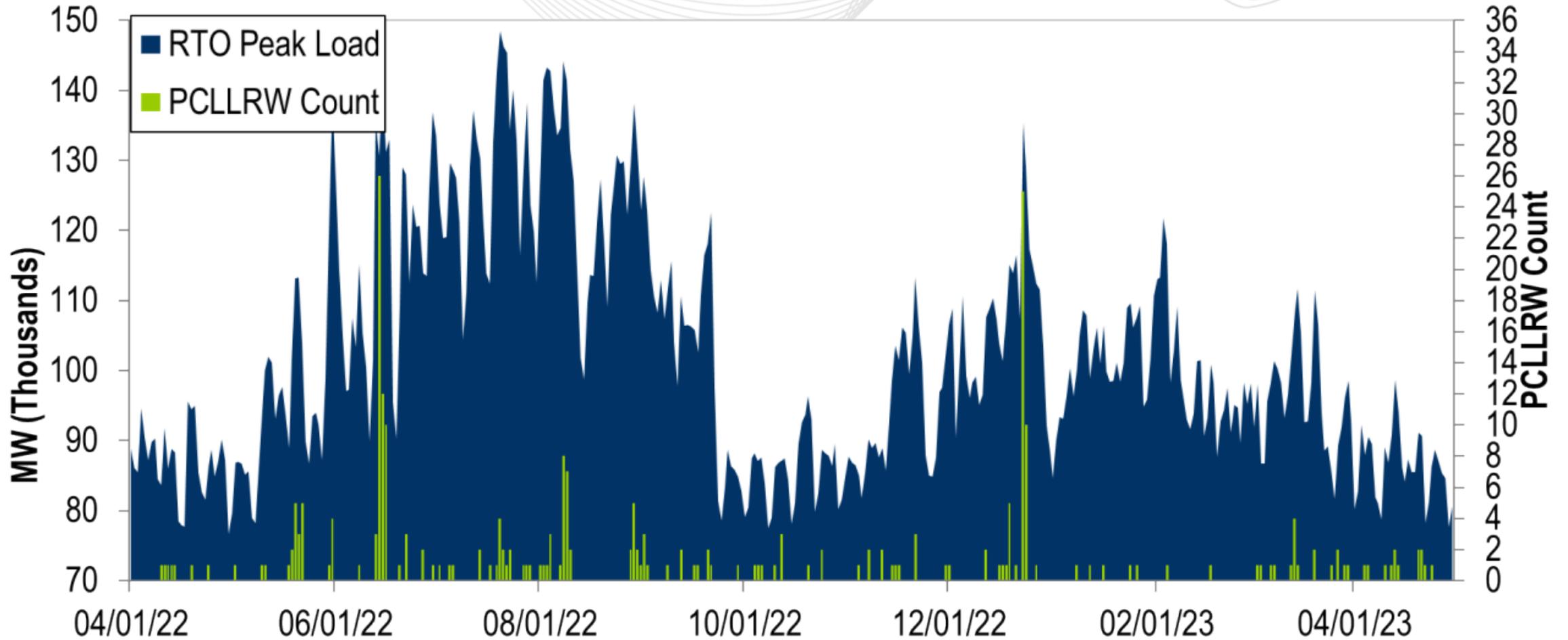
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.73% or 9,496 MW.  
 The 13-month average total outage rate is 17.64% or 35,532 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)

