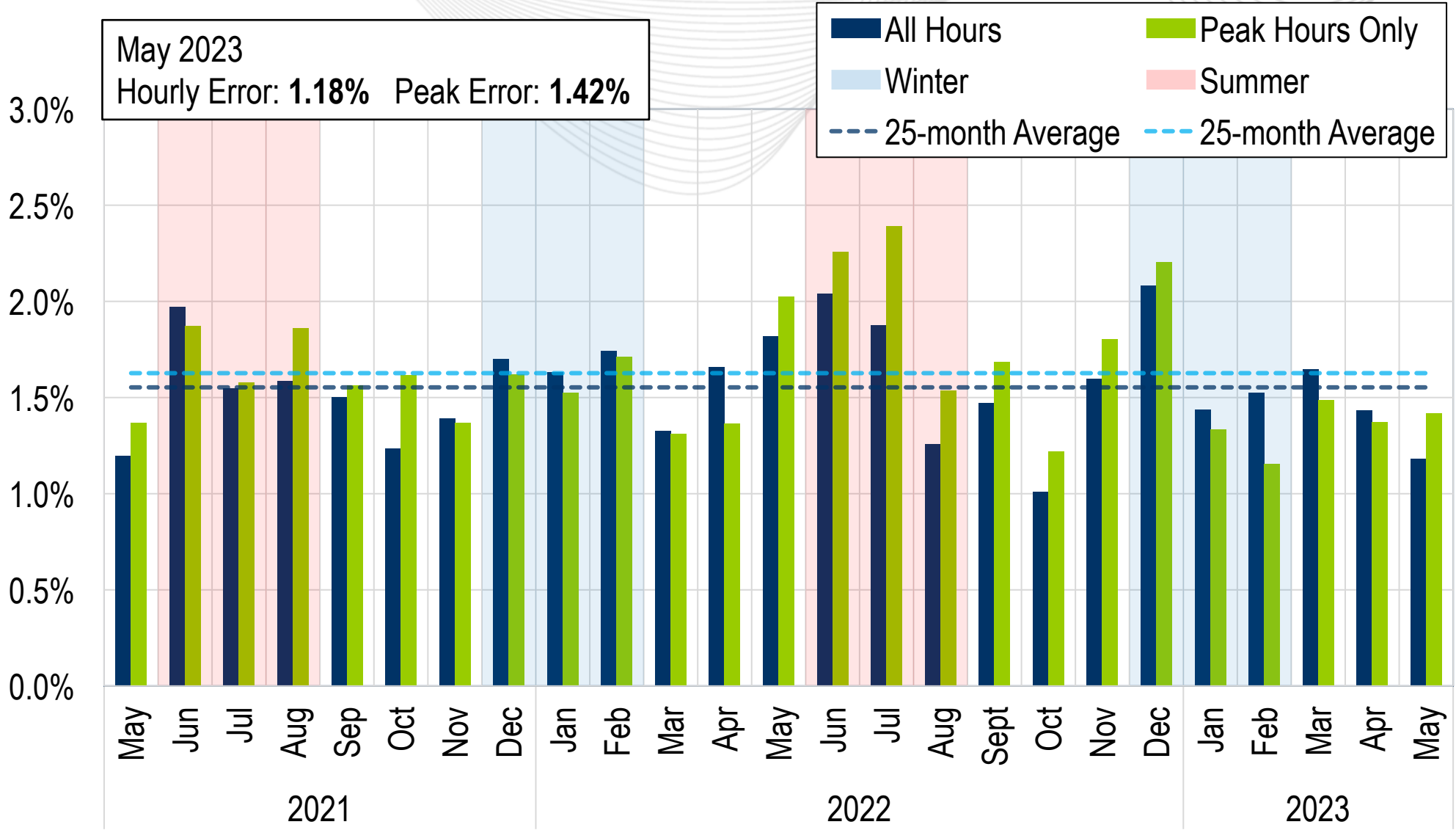




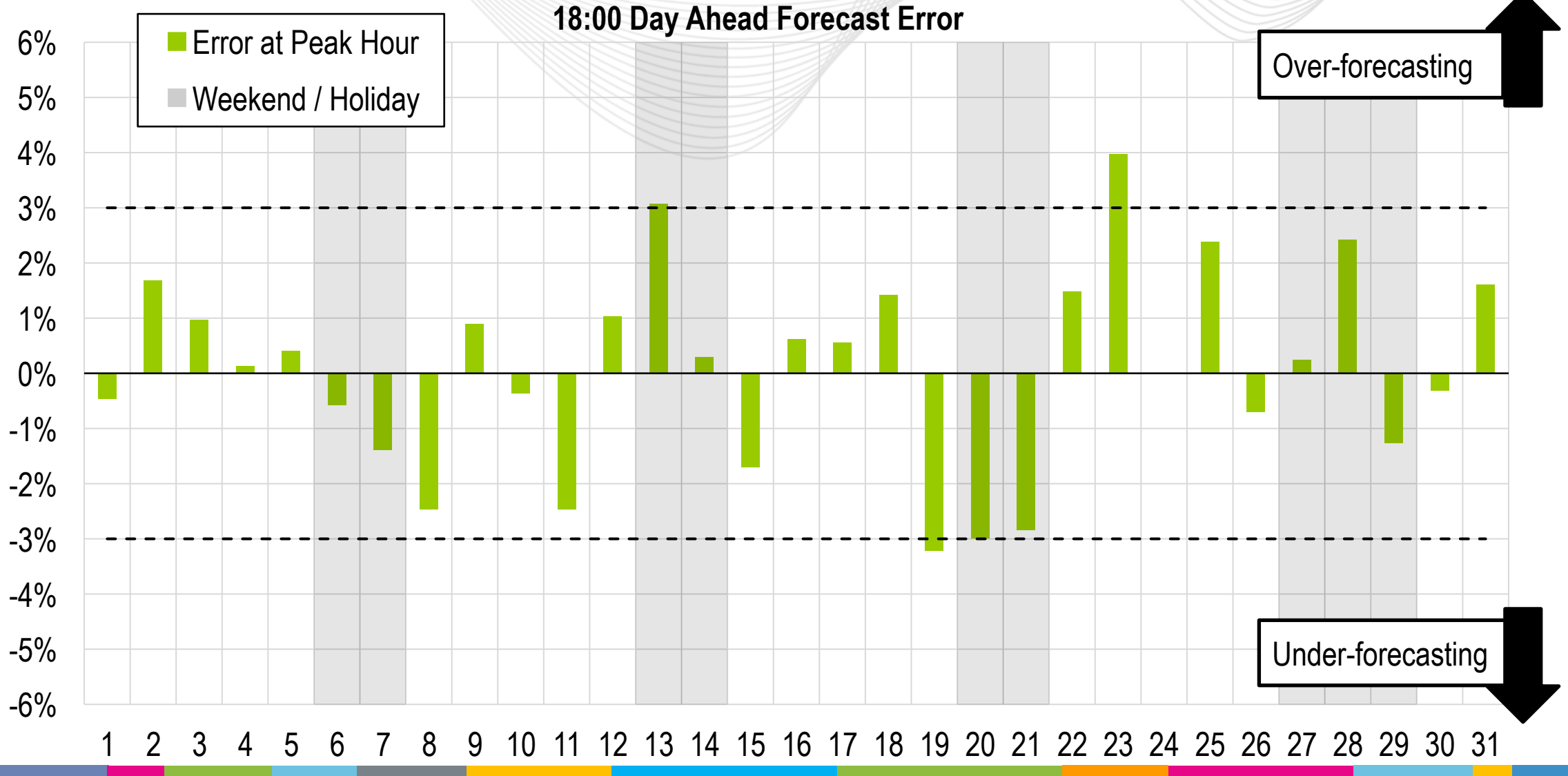
# System Operations Report

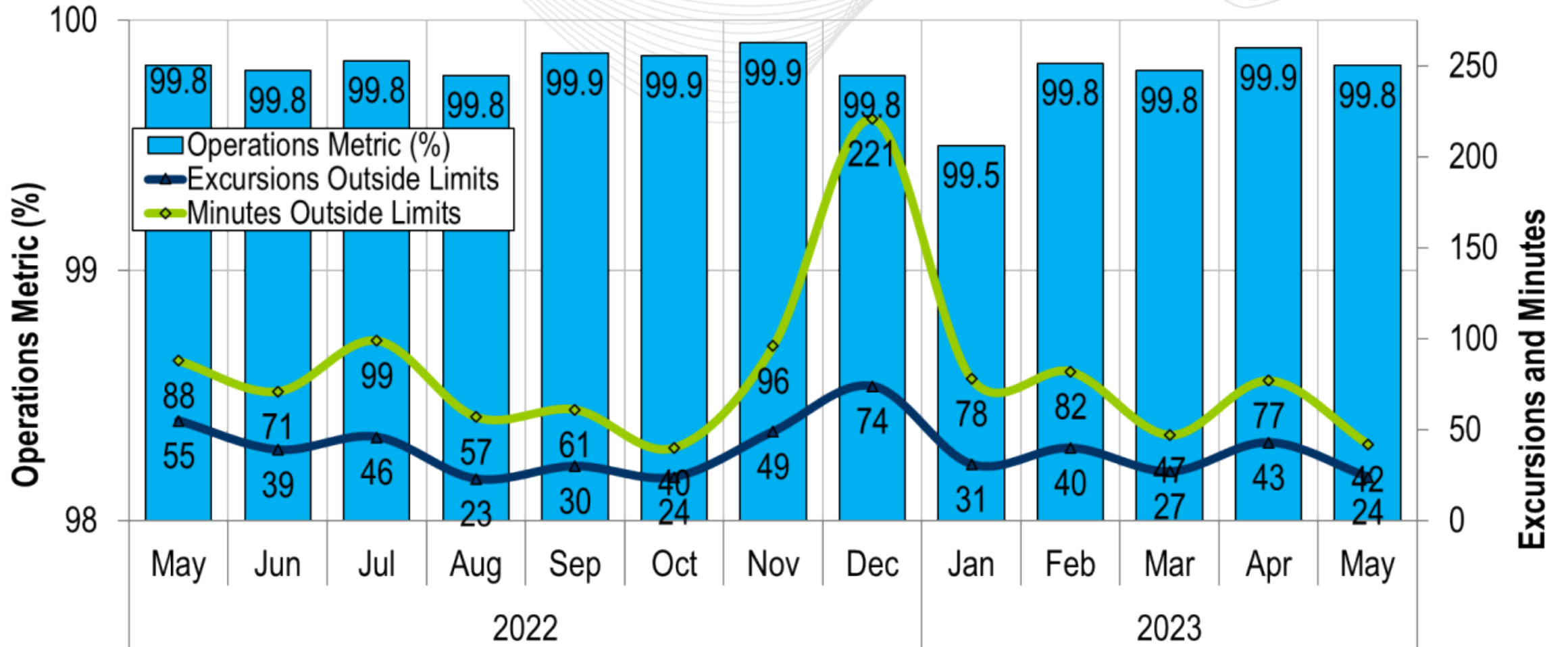
Stephanie Schwarz  
Manager, Markets Coordination  
Operating Committee  
June 8th, 2023

# Average Load Forecast Error



# Daily Peak Forecast Error (May)

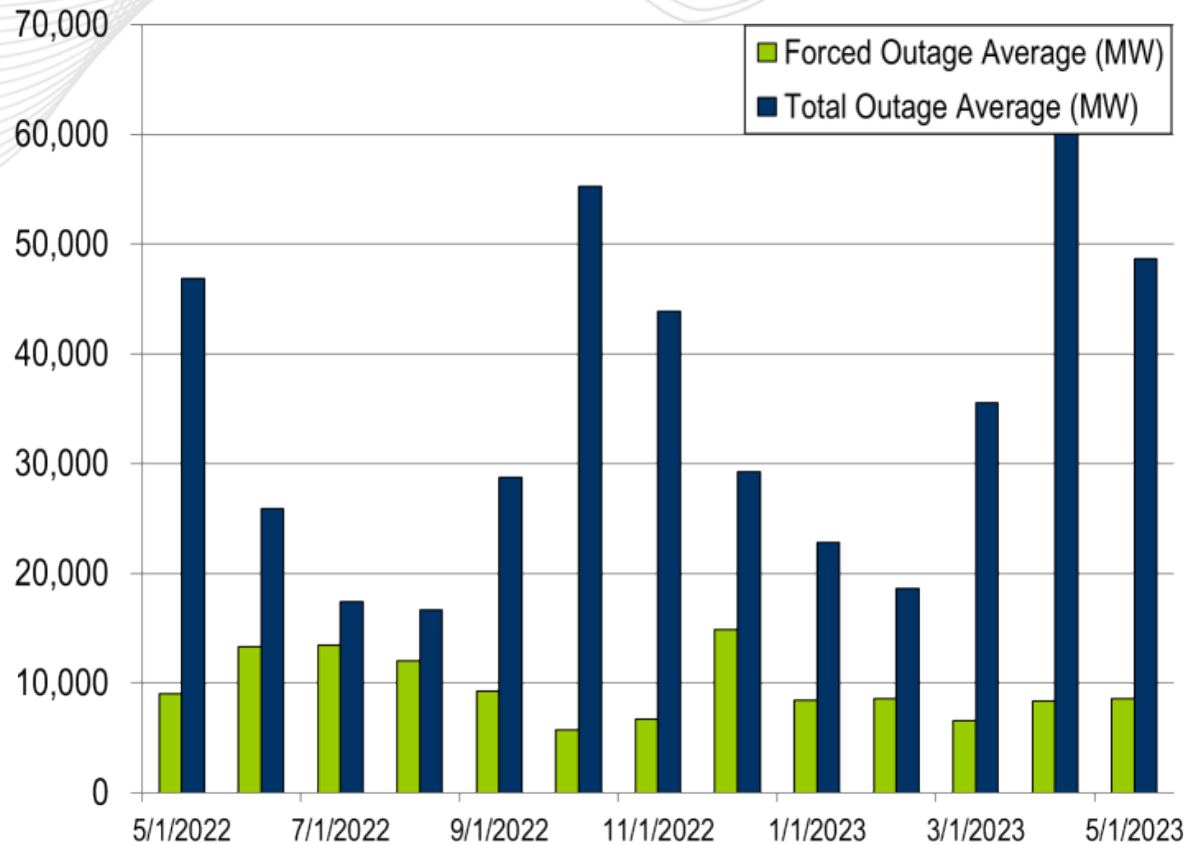
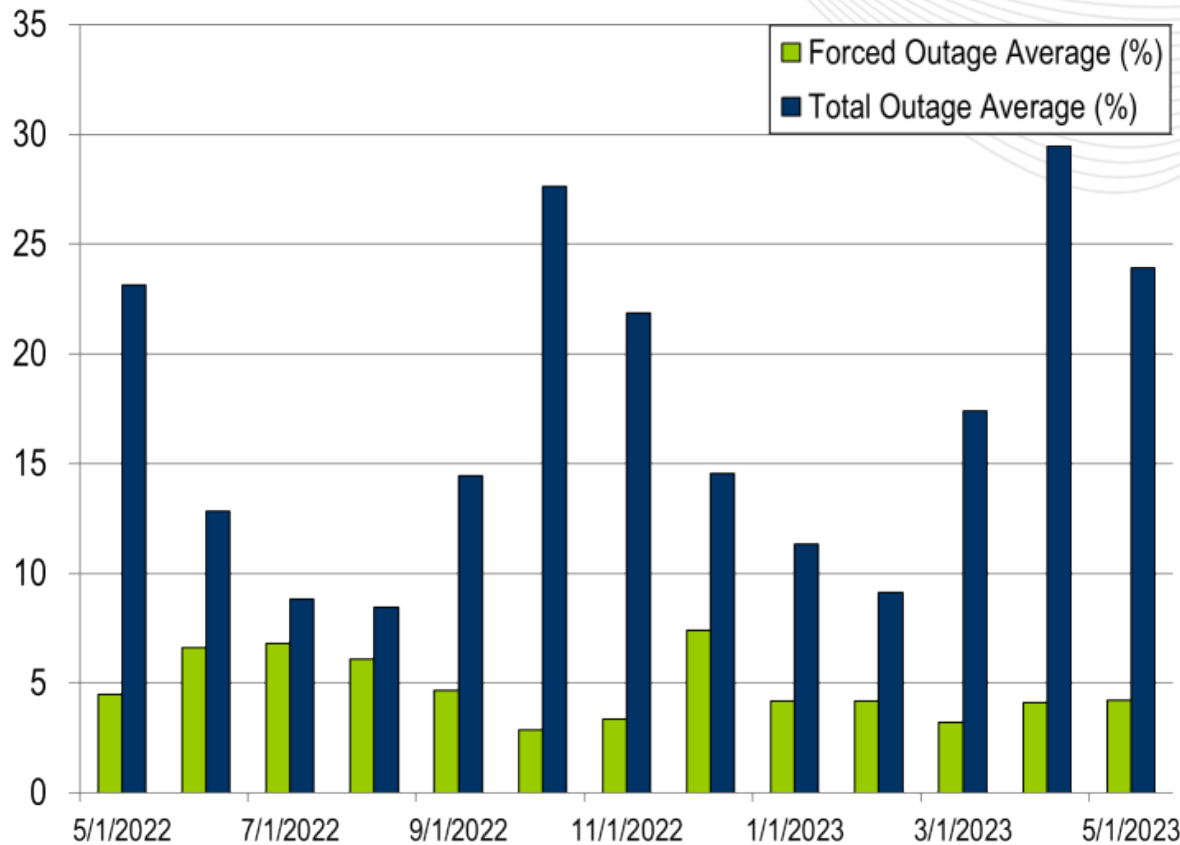




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022 and 2023.

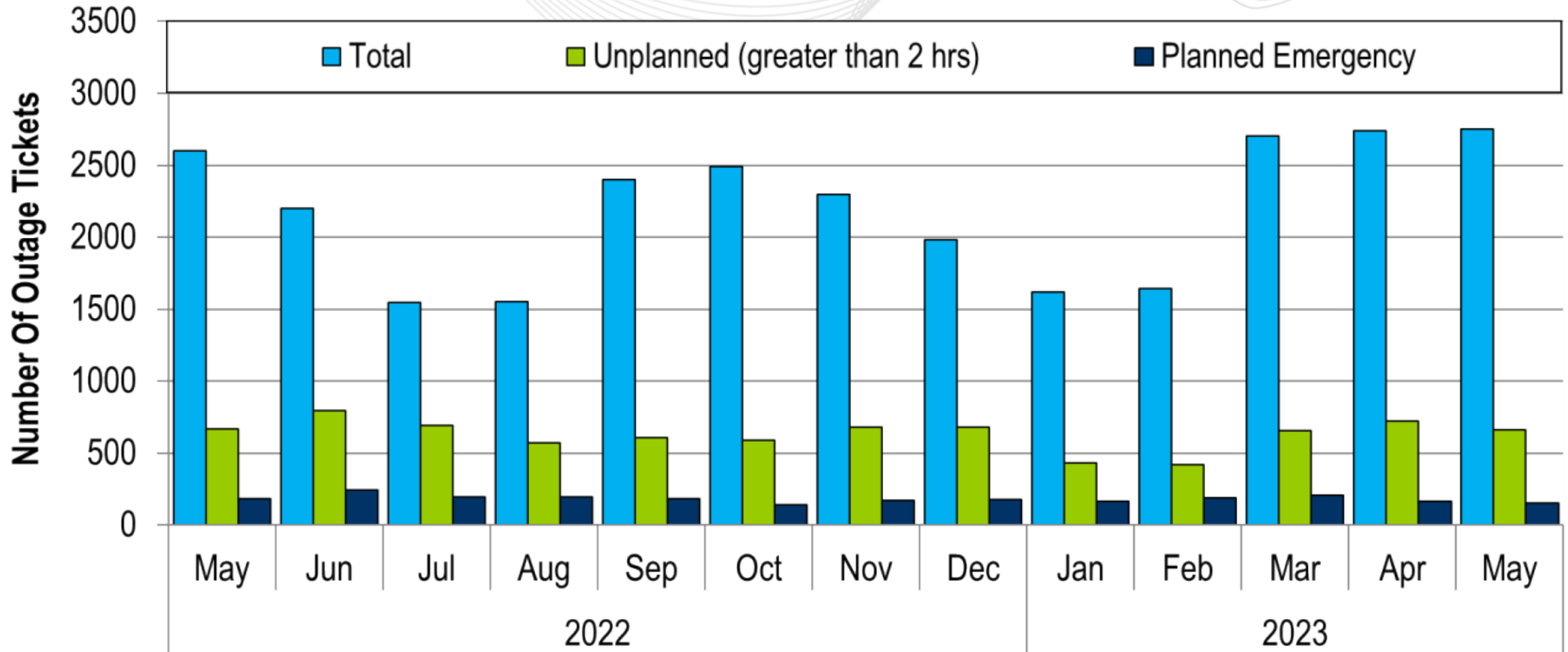
- 1 spinning event
- 5 Shared Reserve events
- The following Emergency Procedures occurred:
  - 7 High System Voltage Actions
  - 1 Hot Weather Alert
  - 8 Post Contingency Local Load Relief Warnings

- 39 Shortage Cases Approved
- The approved Shortage Cases occurred on:
  - 5/12/2023 – 13 Approved Shortage Cases
    - Approved for the 1:59, 2:10-2:50, and 5:35-5:59 intervals
    - Mainly due to increased RTO reserve requirement
  - 5/15/2023 – 21 Approved Shortage Cases
    - Approved for the 00:25-00:55, 1:25-1:59, 17:50-17:55, and 18:10 intervals
    - Mainly due to increased RTO reserve requirement
  - 5/26/2023 – 5 Approved Shortage Cases
    - Approved for the 22:10-22:25 intervals
    - Mainly due to increased RTO reserve requirement



The 13-month average forced outage rate is 4.79% or 9,629 MW.  
 The 13-month average total outage rate is 17.19% or 34,681 MW.

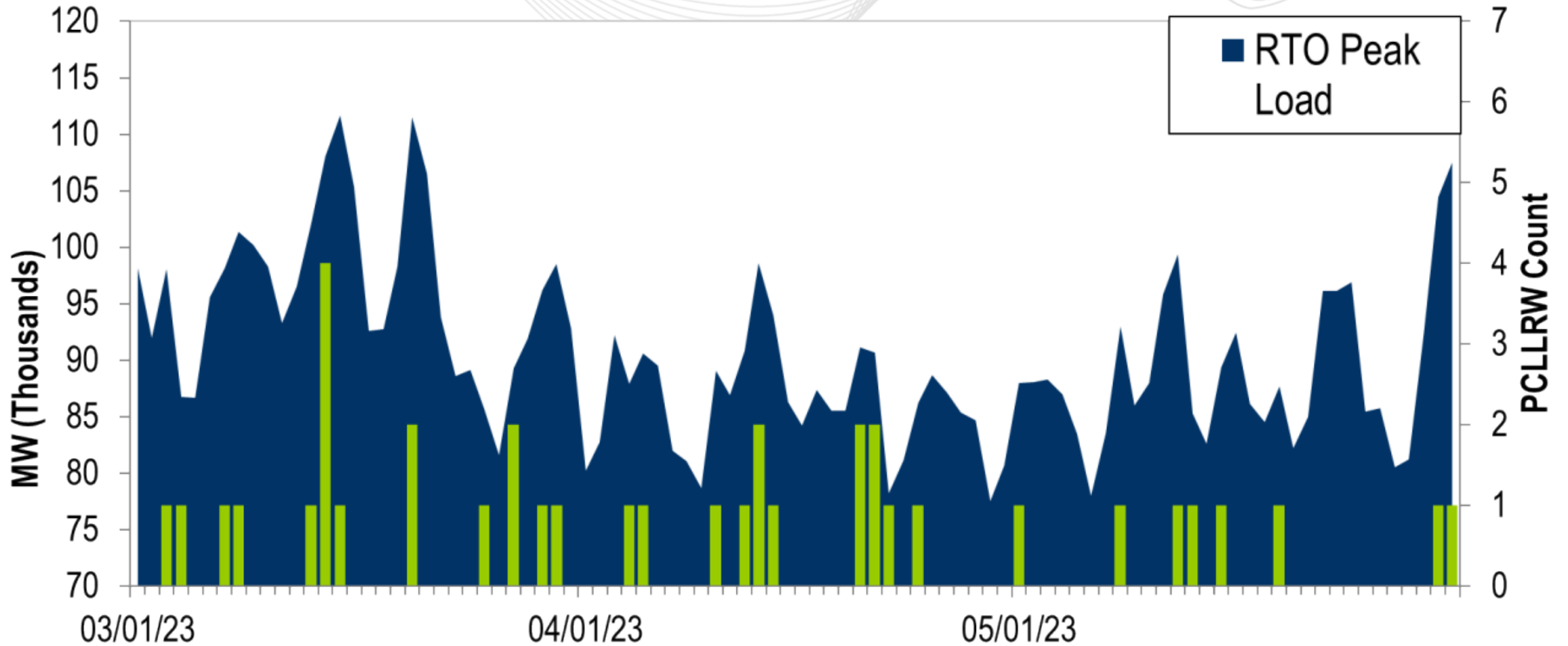
# 2021-2022 Planned Emergency, Unplanned, and Total Outages by Ticket



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



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



Event	Date	Start Time	End Time	Duration	Region	Assigned (MW)	Response (MW)	Penalty (MW)
1	05/28/23	20:09:28	20:16:50	00:07:22	RTO	2437.1	2437.1	0.0

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

Presenter:  
Stephanie Schwarz,  
[Stephanie.Schwarz@pjm.com](mailto:Stephanie.Schwarz@pjm.com)

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

System Operations Report



### Member Hotline

(610) 666 – 8980

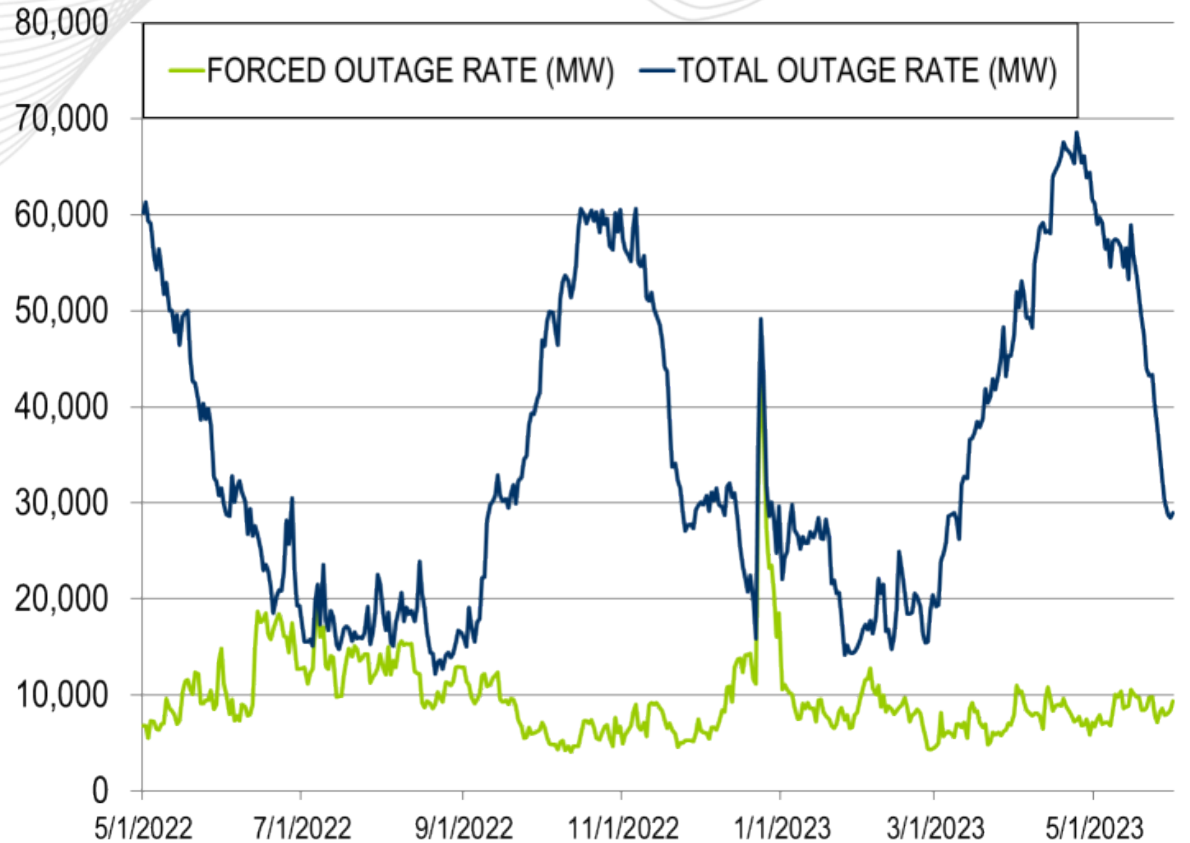
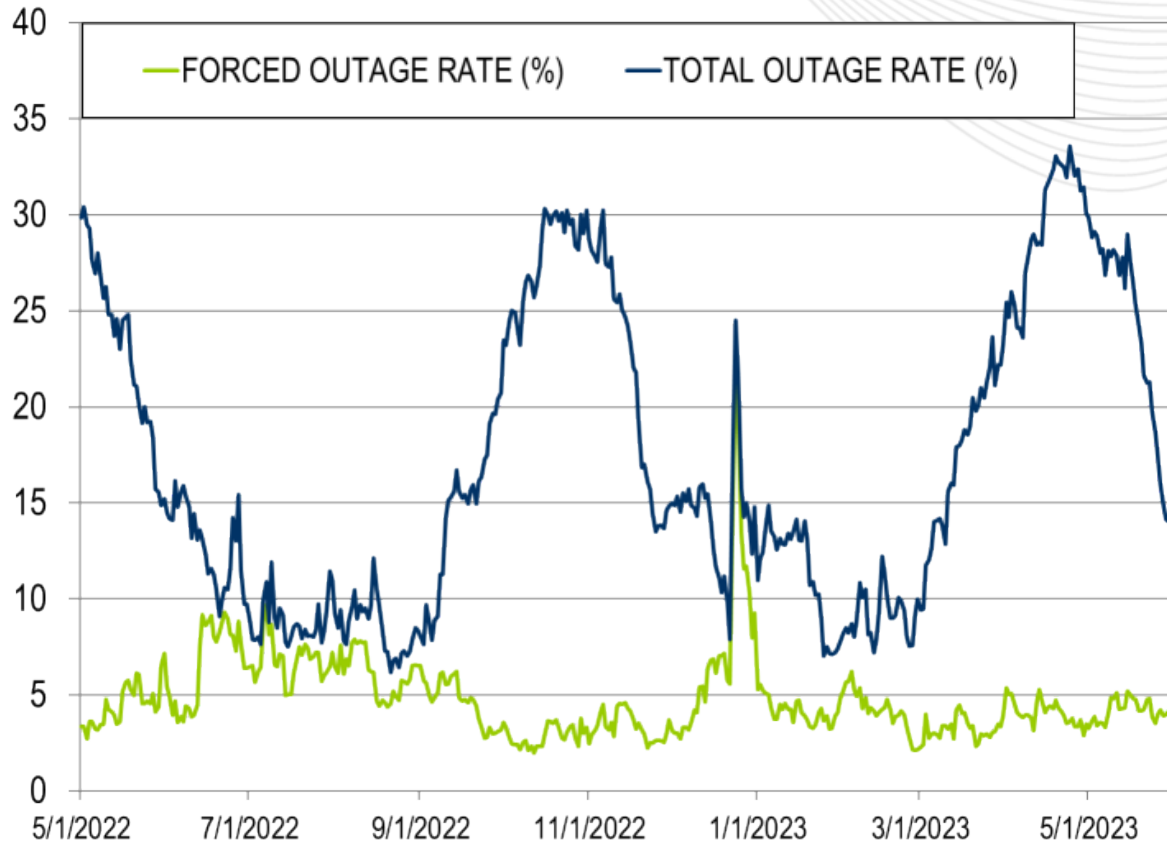
(866) 400 – 8980

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

# Appendix

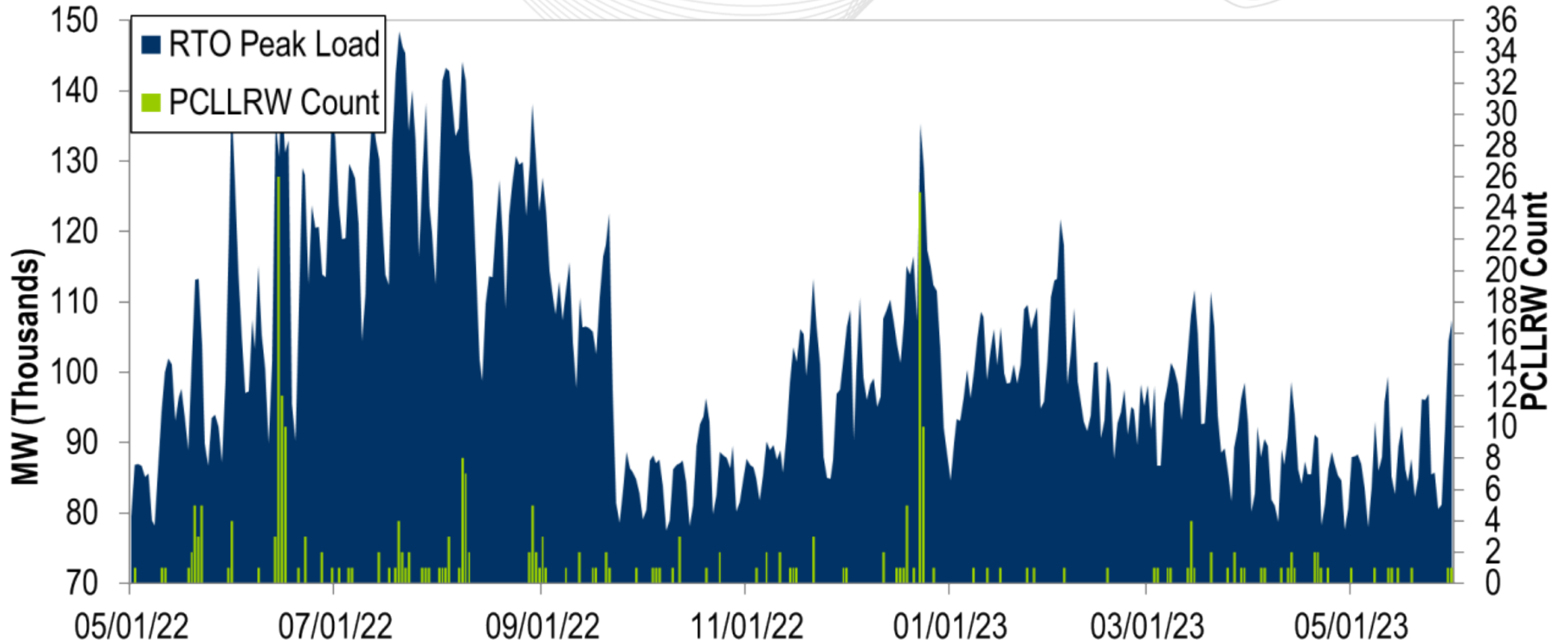
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.79% or 9,629 MW.  
 The 13-month average total outage rate is 17.19% or 34,681 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)

