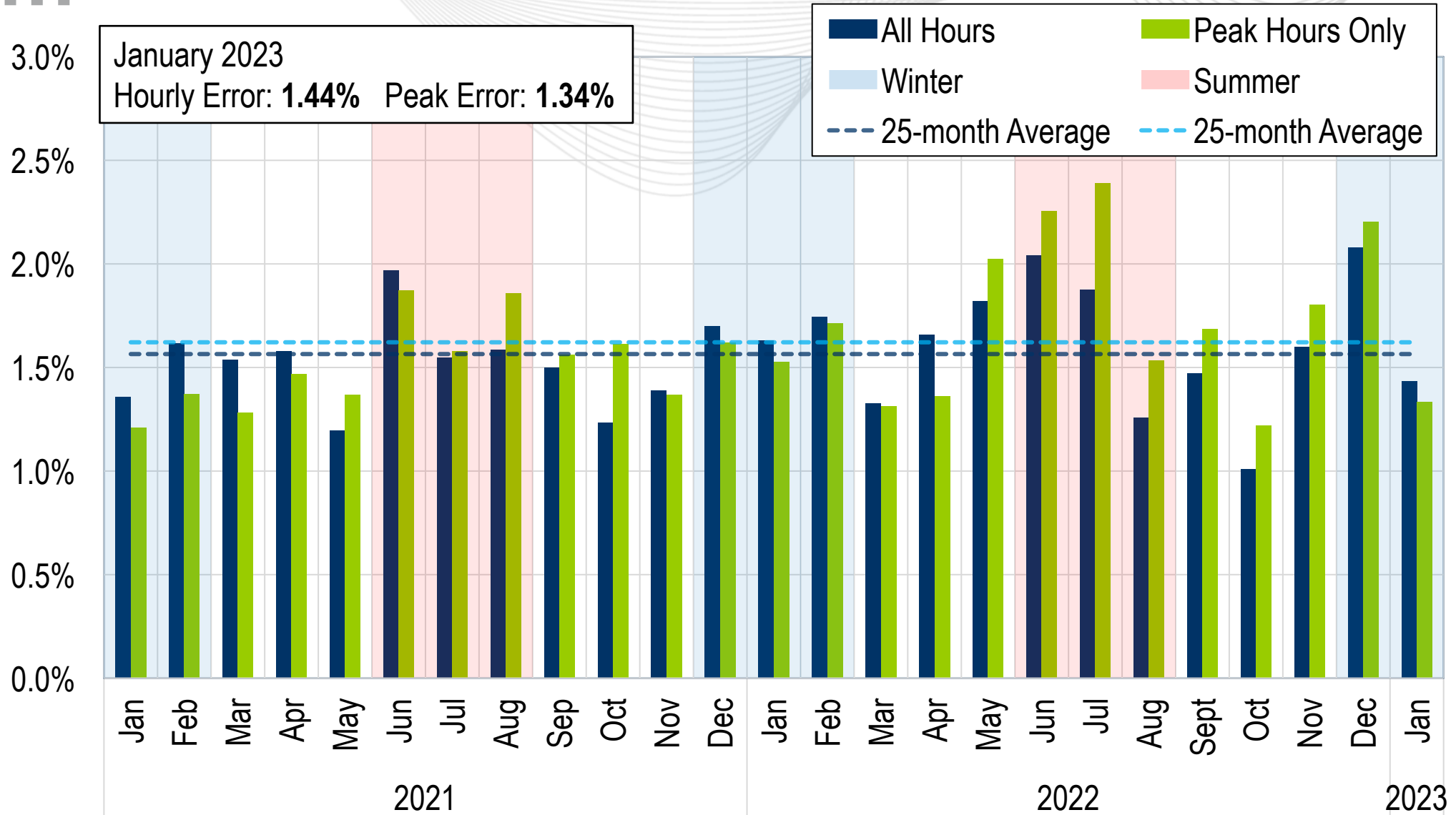




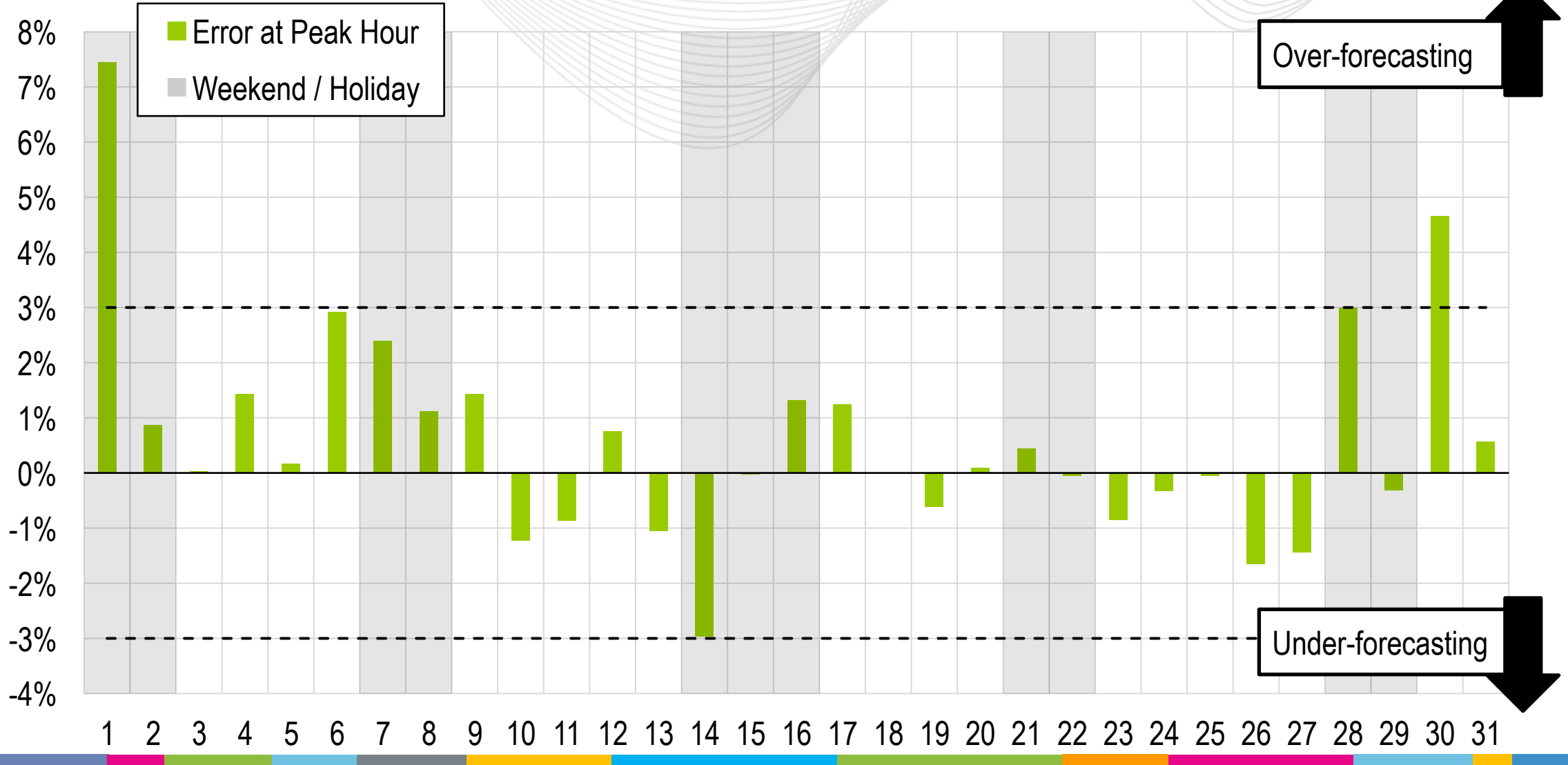
# System Operations Report

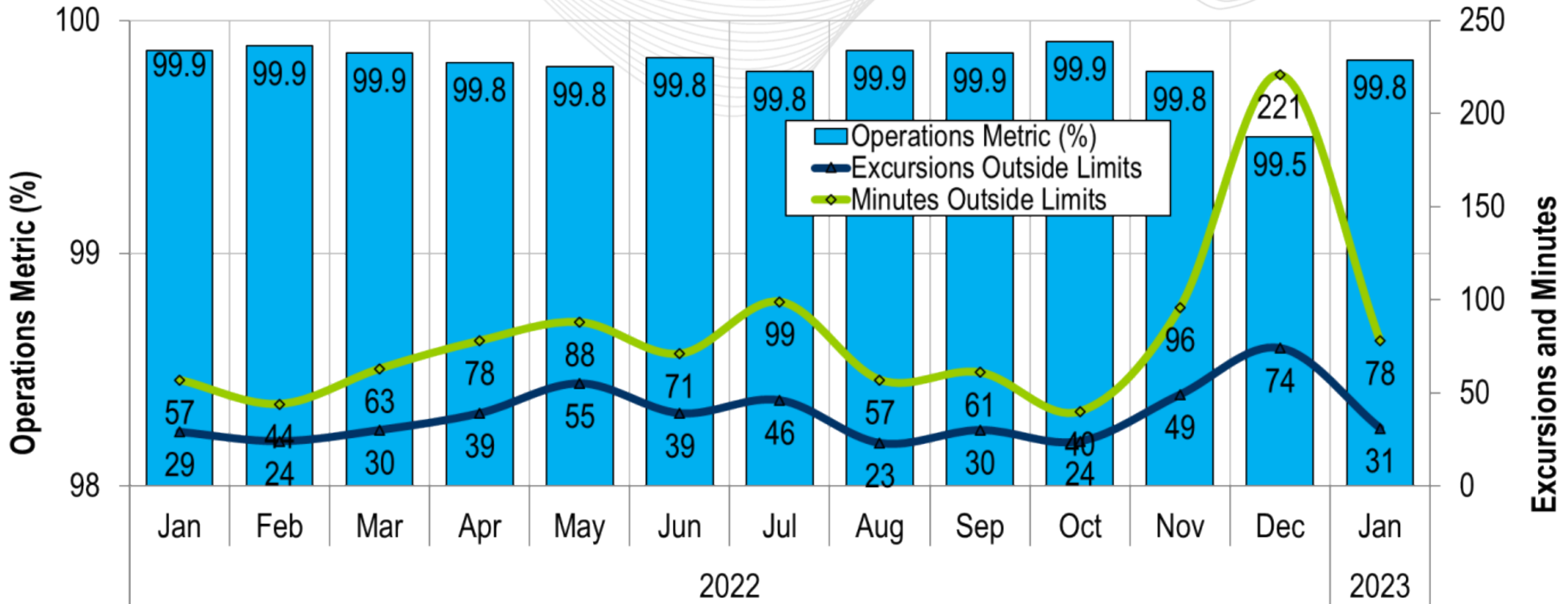
Stephanie Schwarz  
Manager, Markets Coordination  
Operating Committee  
February 9th, 2023

# Average Load Forecast Error



# Daily Peak Forecast Error (January)

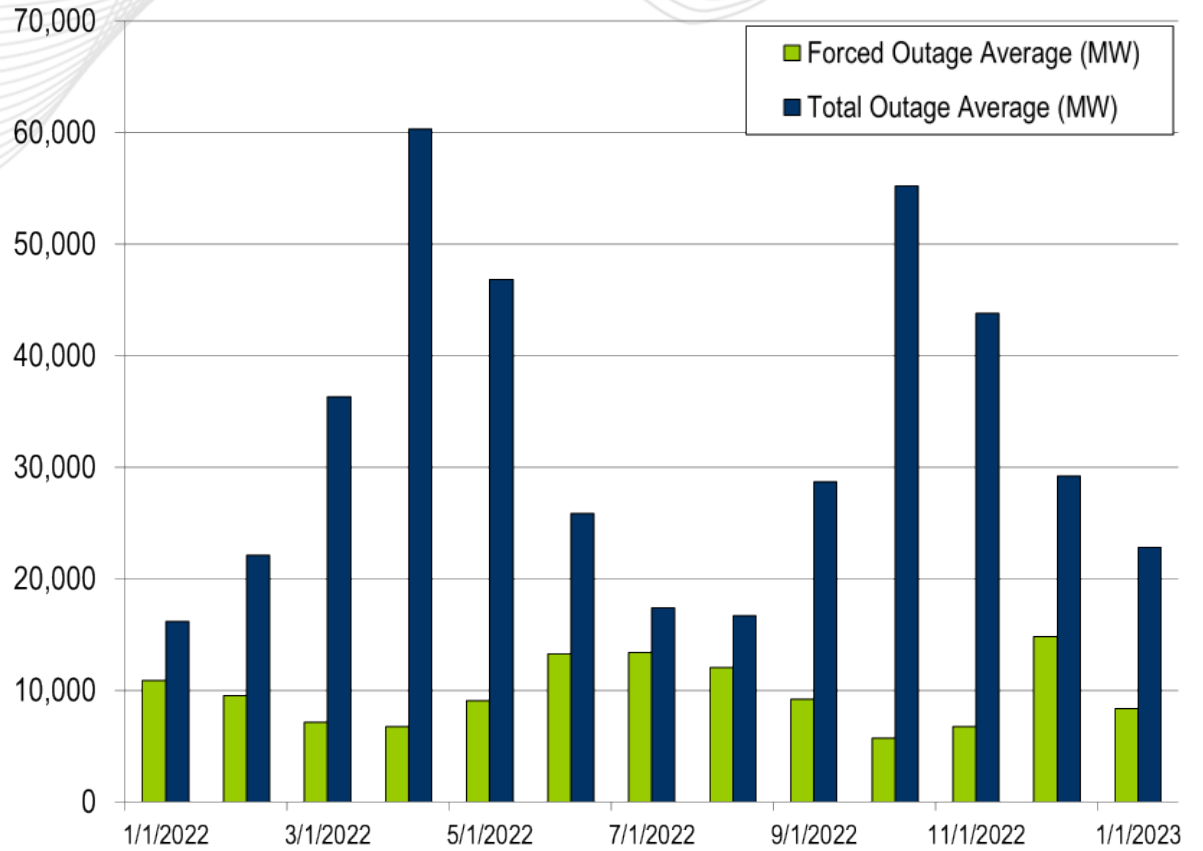
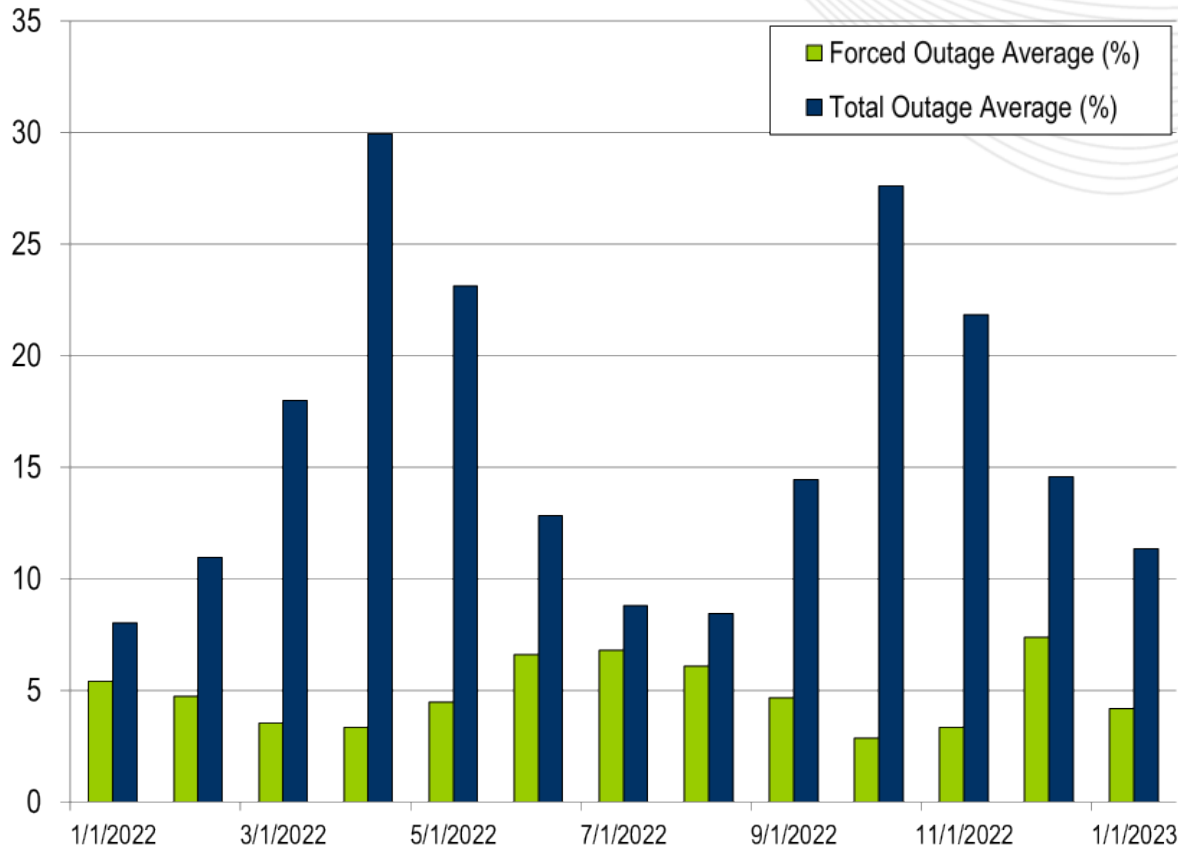




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022.

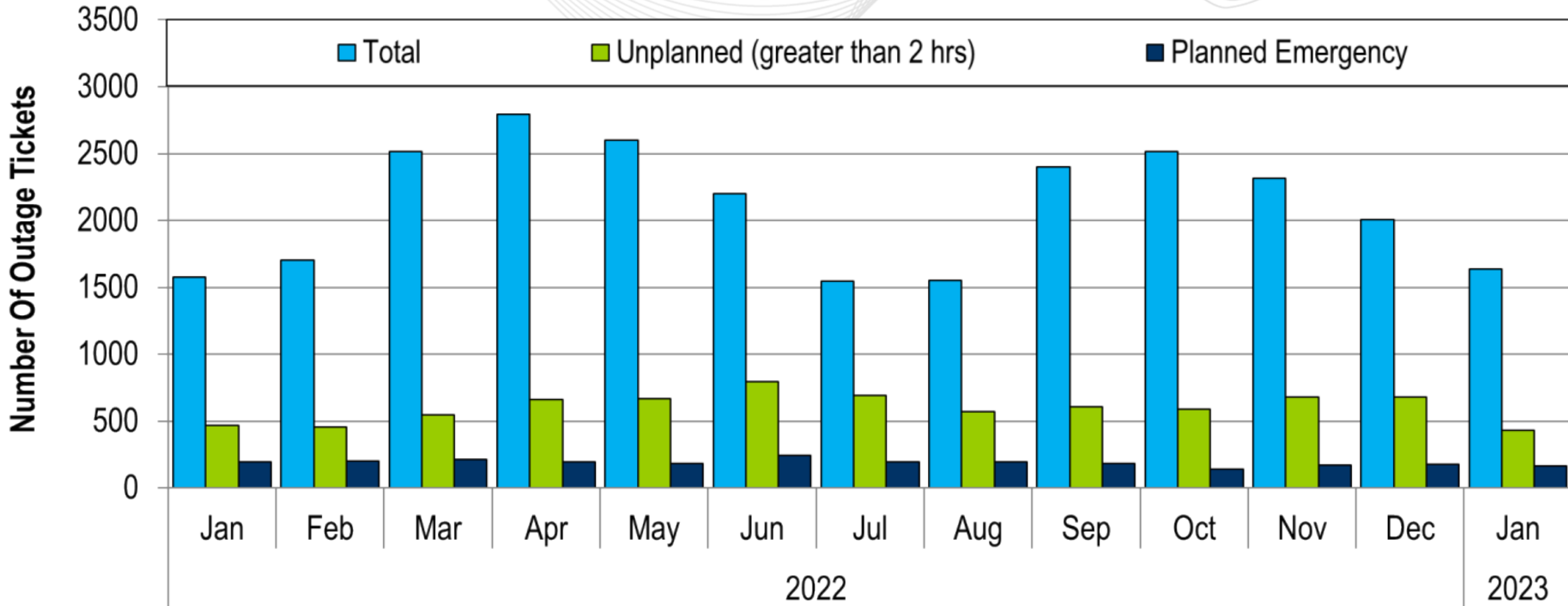
- 3 Spinning Events
- 3 Shared Reserve Events
- The following Emergency Procedures occurred:
  - 1 Cold Weather Alert
  - 5 Post Contingency Local Load Relief Warnings

- 3 Shortage Cases Approved
- The approved Shortage Cases occurred on:
  - 01/10/2023
    - Approved for the 7:15, 7:20, and 7:25 intervals
    - Factors: Load forecast error, slow CT response, and interchange ramping out



The 13-month average forced outage rate is 4.90% or 9,811 MW.  
 The 13-month average total outage rate is 16.17% or 32,458 MW.

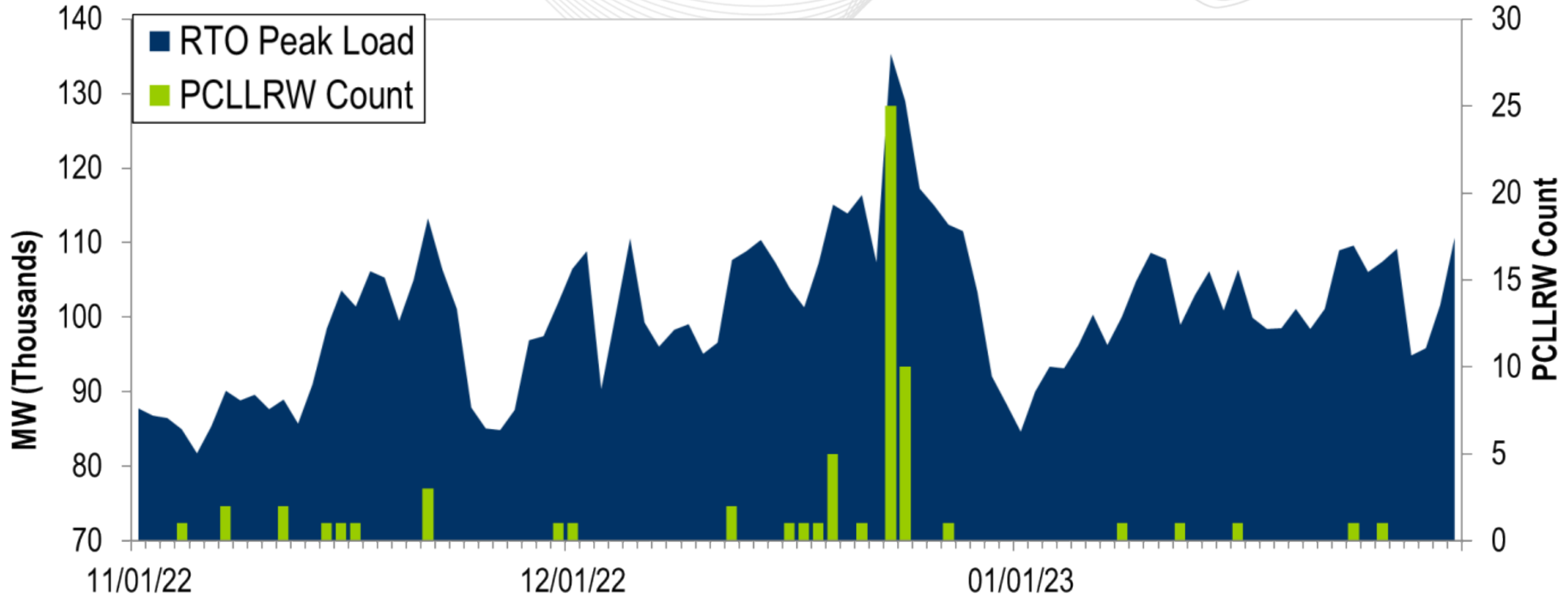
# 2021-2022 Planned Emergency, Unplanned, and Total Outages by Ticket



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	01/05/23	12:43:40	12:55:13	00:11:33	RTO	1713.6	1010.7	702.9
2	01/10/23	07:06:27	07:23:59	00:17:32	RTO	2368.1	1289.7	1078.4
3	01/26/23	14:52:42	14:59:38	00:06:56	MAD	1809.1	1809.1	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

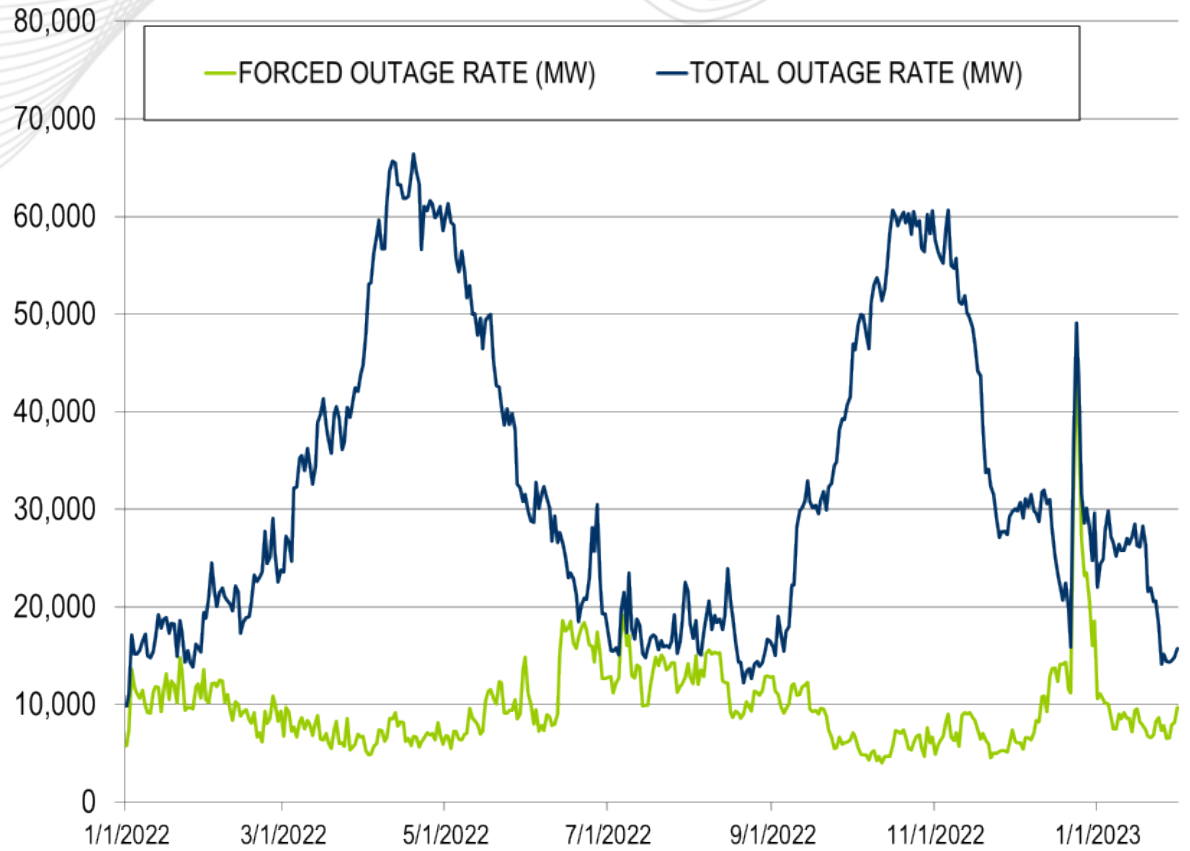
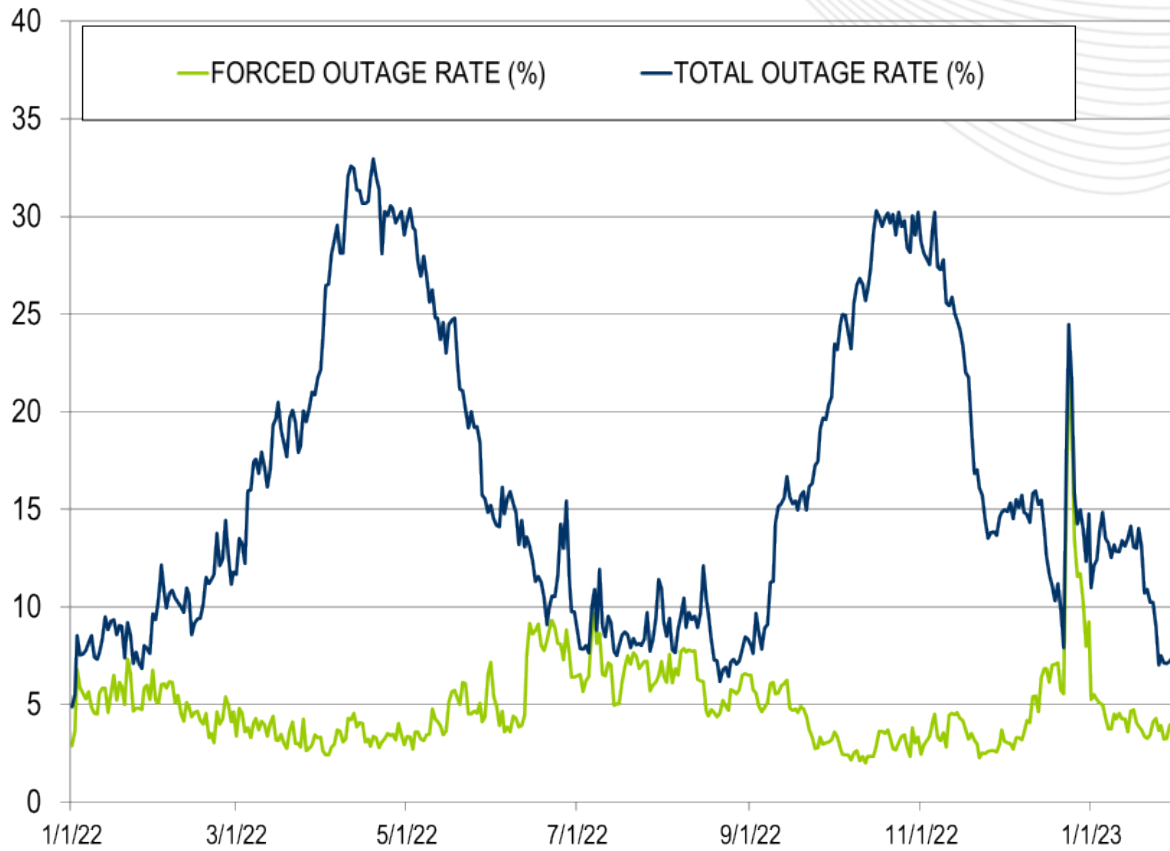
(866) 400 – 8980

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

# Appendix

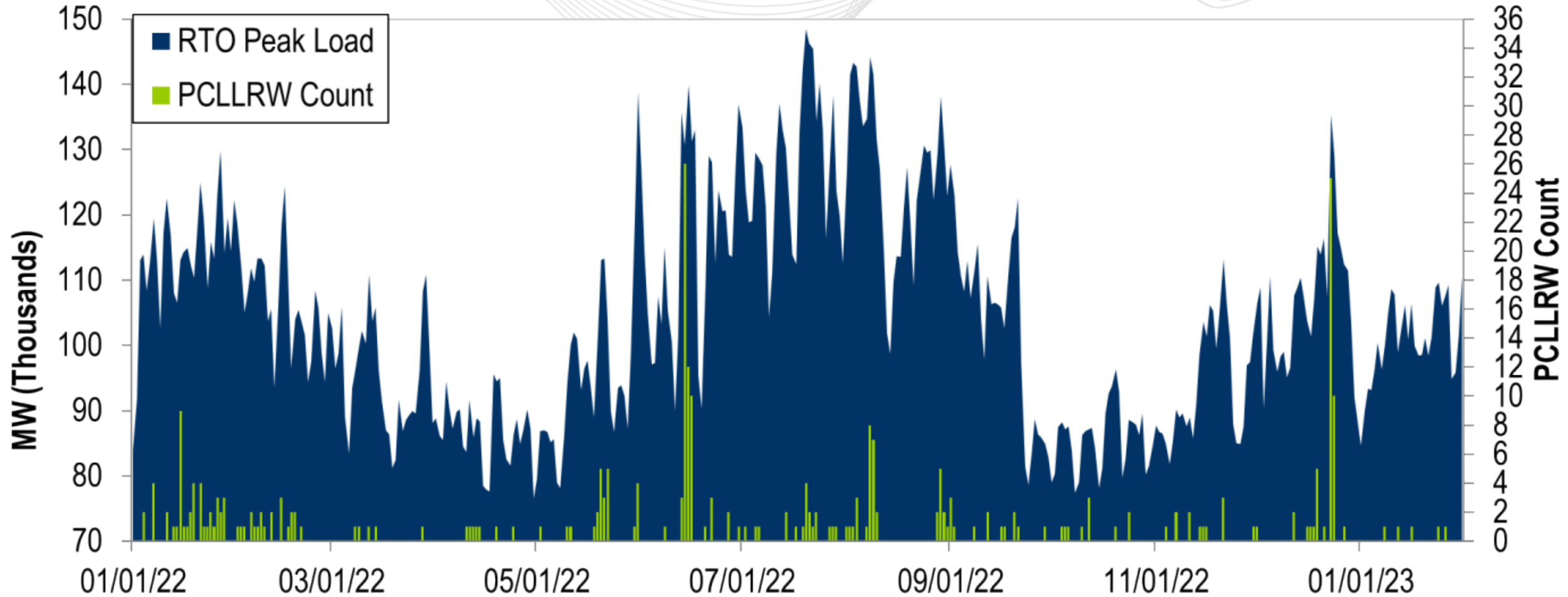
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.90% or 9,811 MW.  
 The 13-month average total outage rate is 16.17% or 32,458 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)

