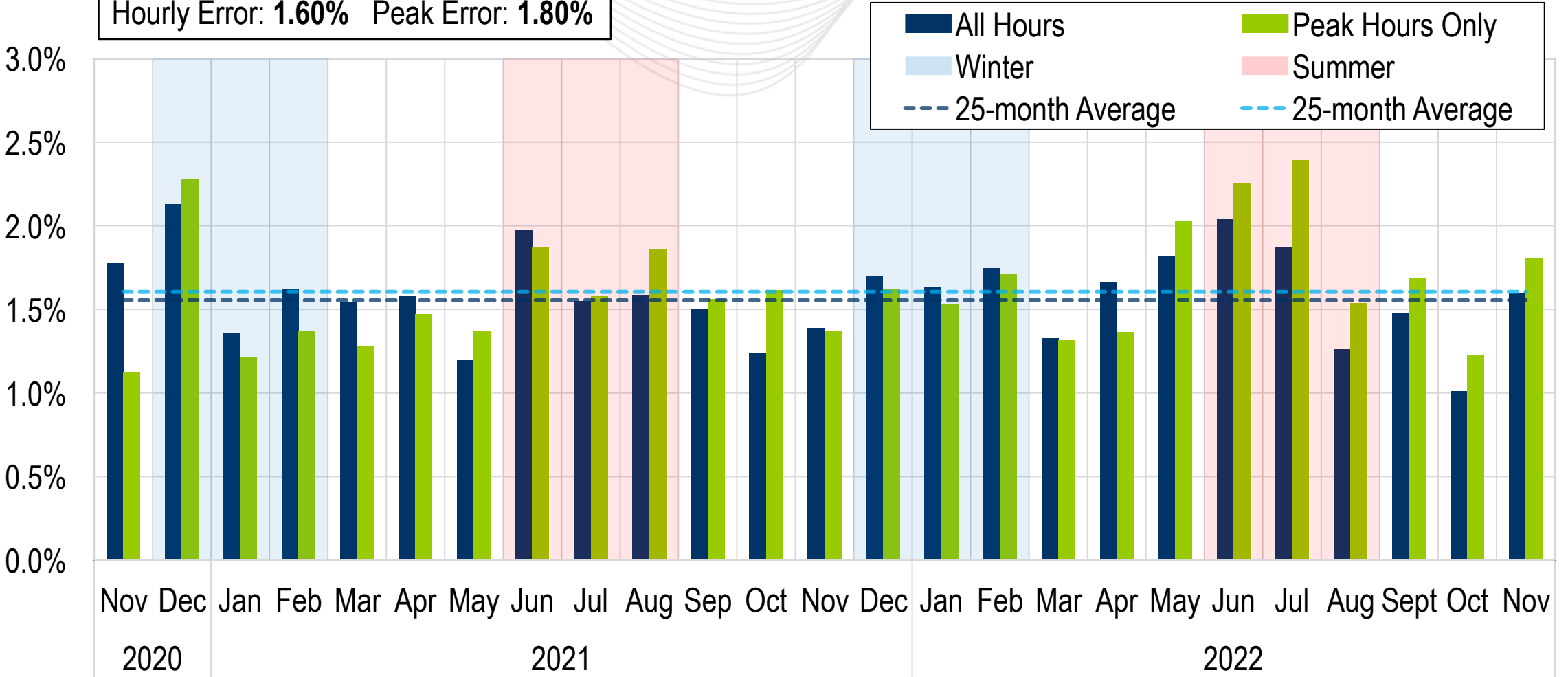




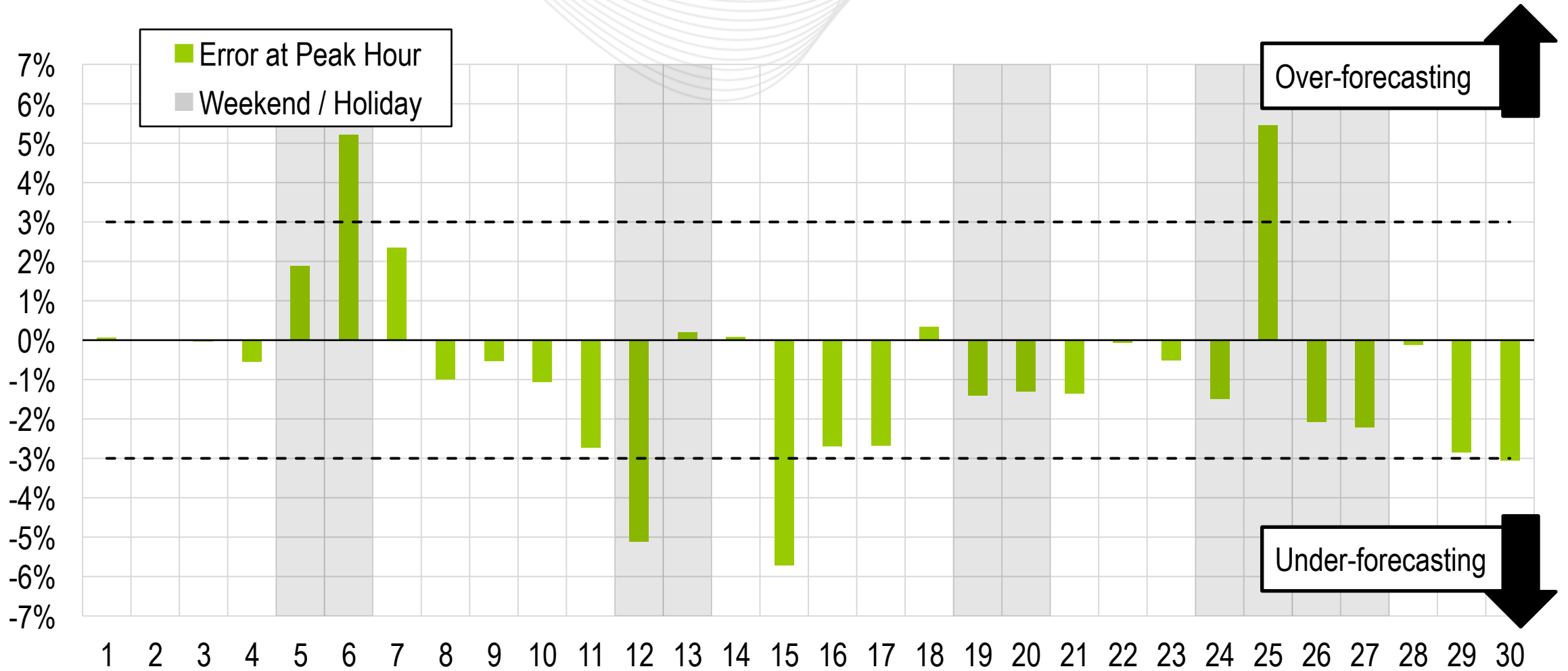
# System Operations Report

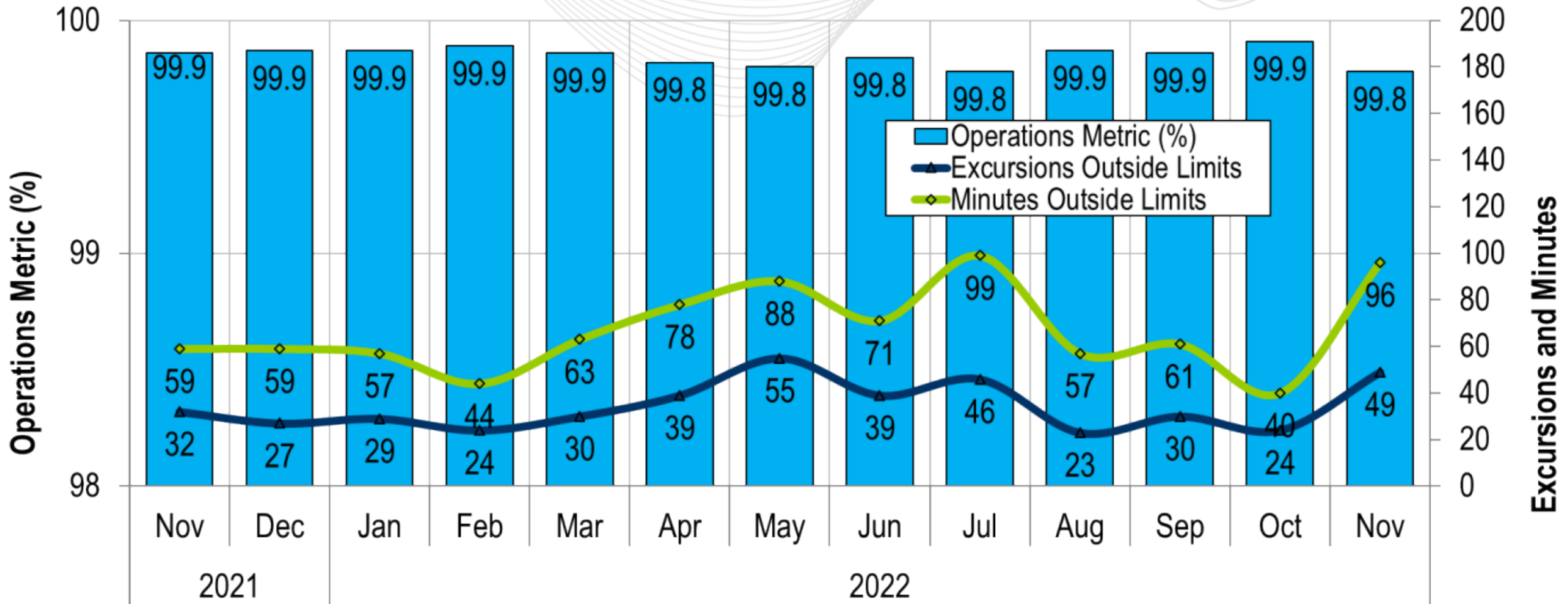
Stephanie Schwarz  
Manager, Markets Coordination  
Operating Committee  
December 8th, 2022

November 2022  
 Hourly Error: **1.60%** Peak Error: **1.80%**



# Daily Peak Forecast Error (November)

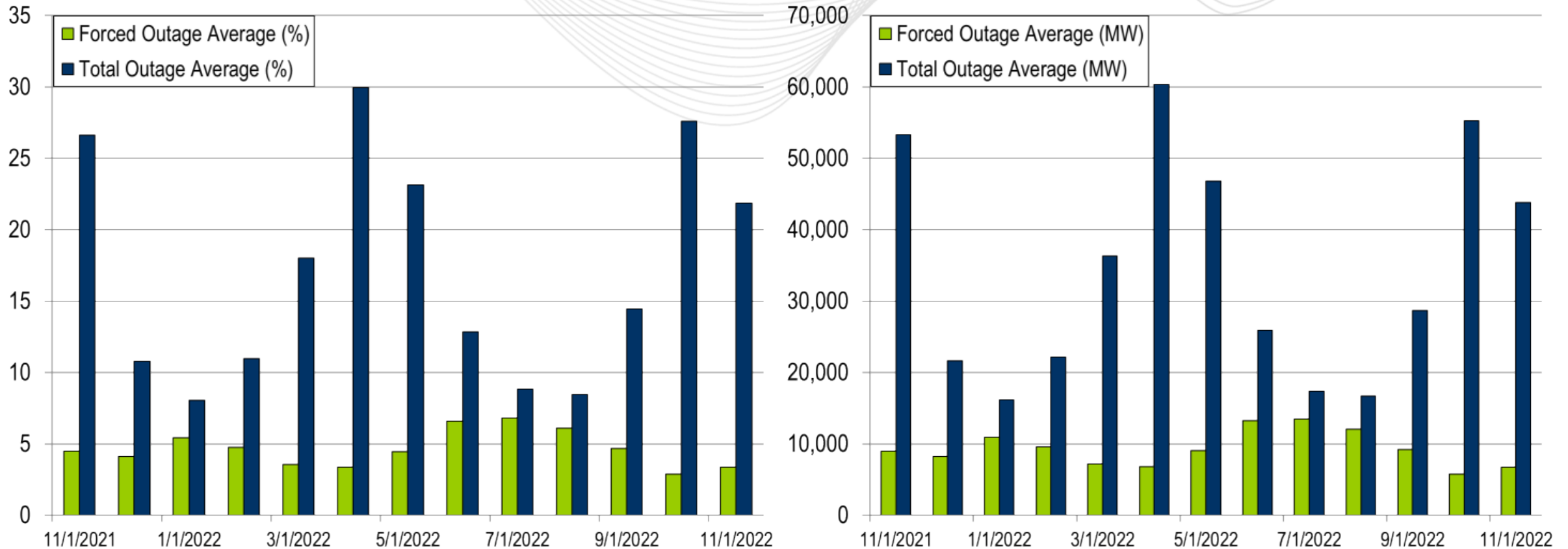




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022.

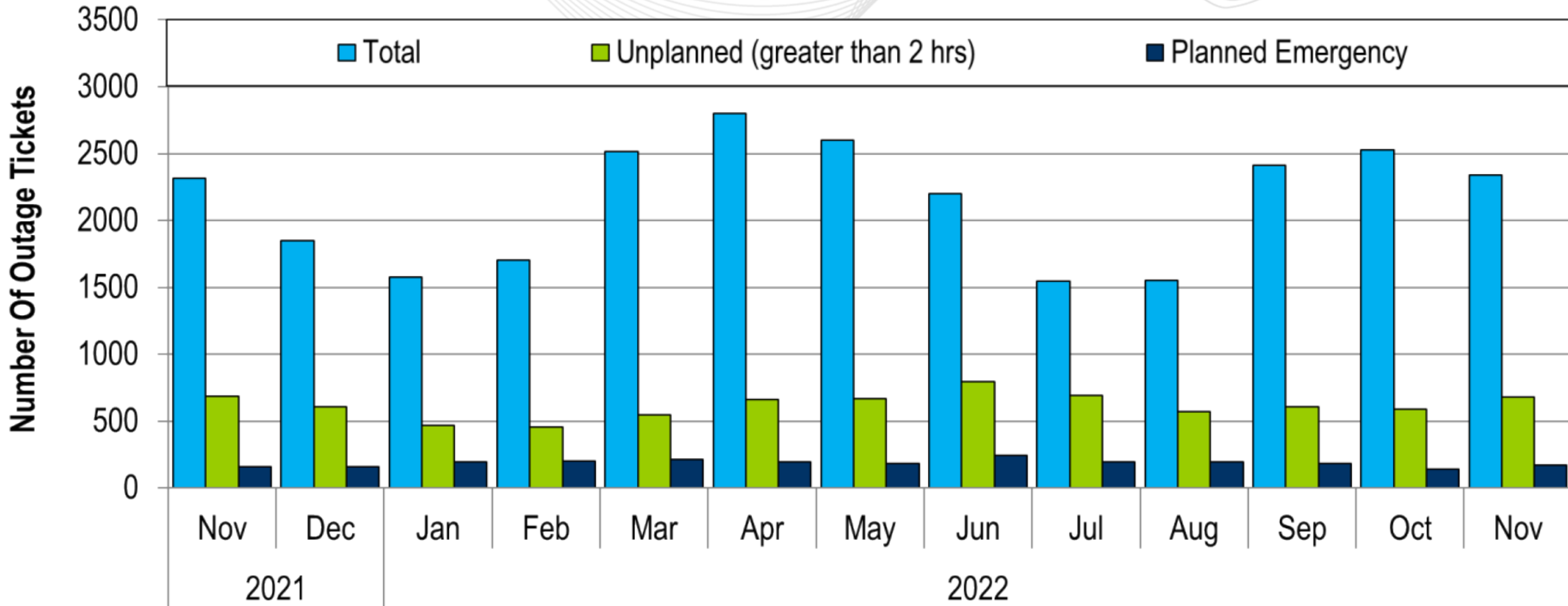
- Three Spinning Event
- Three Shared Reserve Event
- The following Emergency Procedures occurred:
  - 12 Post-Contingency Local Load Relief Warnings (PCLLRW)

- There have been no shortage case approvals in the month of November.



The 13-month average forced outage rate is 4.67% or 9,339 MW.  
 The 13-month average total outage rate is 17.04% or 34,203 MW.

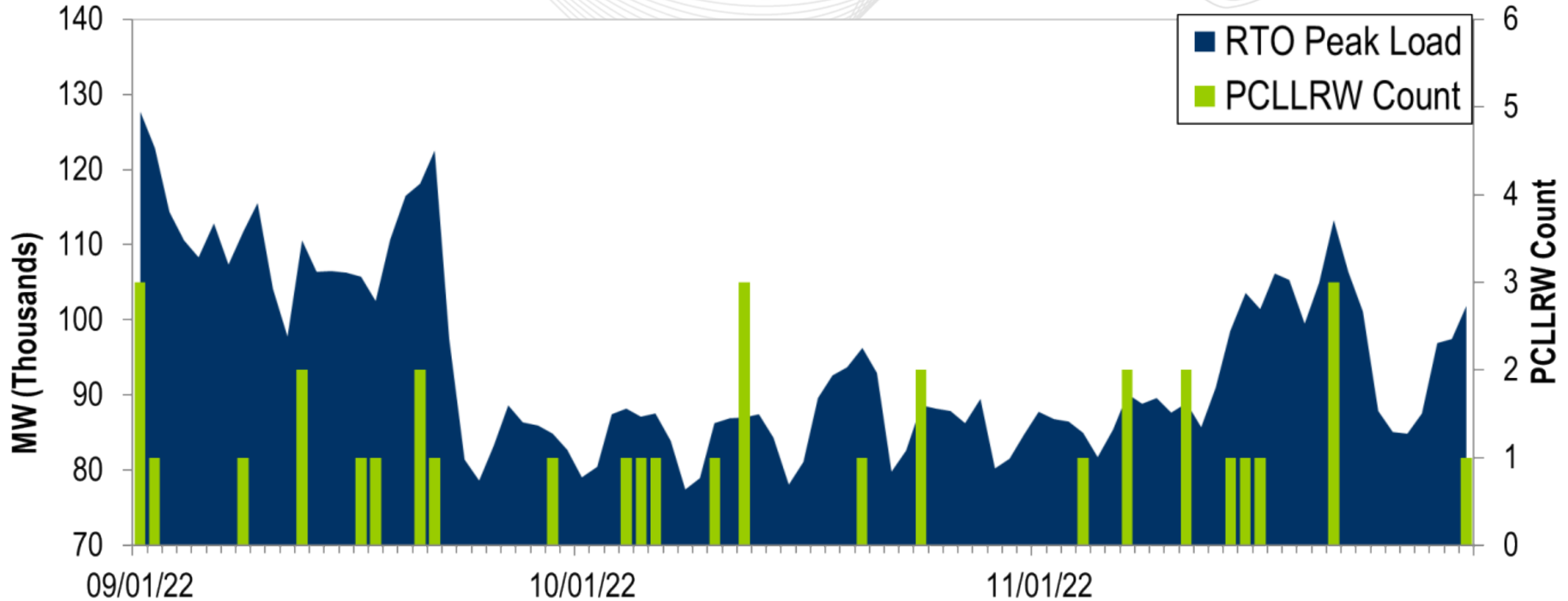
# 2021-2022 Planned Emergency, Unplanned, and Total Outages by Ticket



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	11/04/22	15:03:00	15:07:25	00:04:25	RTO	1686.7	1686.7	0.0
2	11/14/22	22:01:14	22:07:58	00:06:44	RTO	1829.8	1829.8	0.0
3	11/29/22	16:30:42	16:47:27	00:16:45	RTO	1785.3	949.0	836.3

\*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

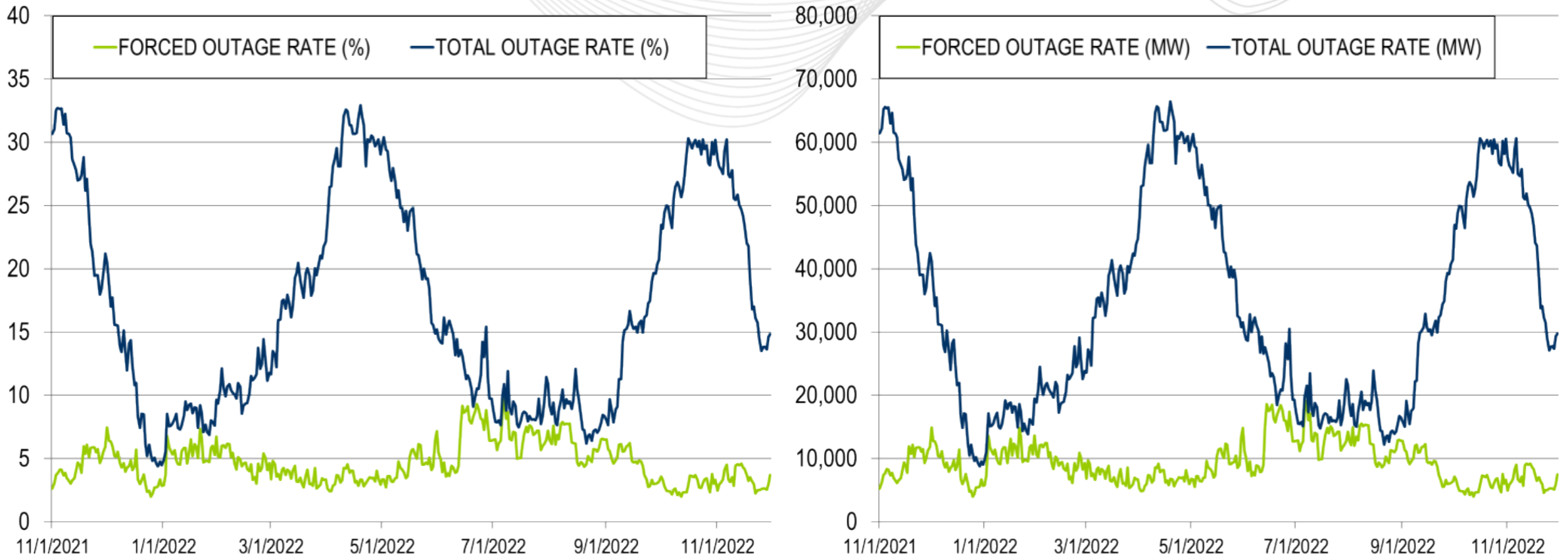
(866) 400 – 8980

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

# Appendix

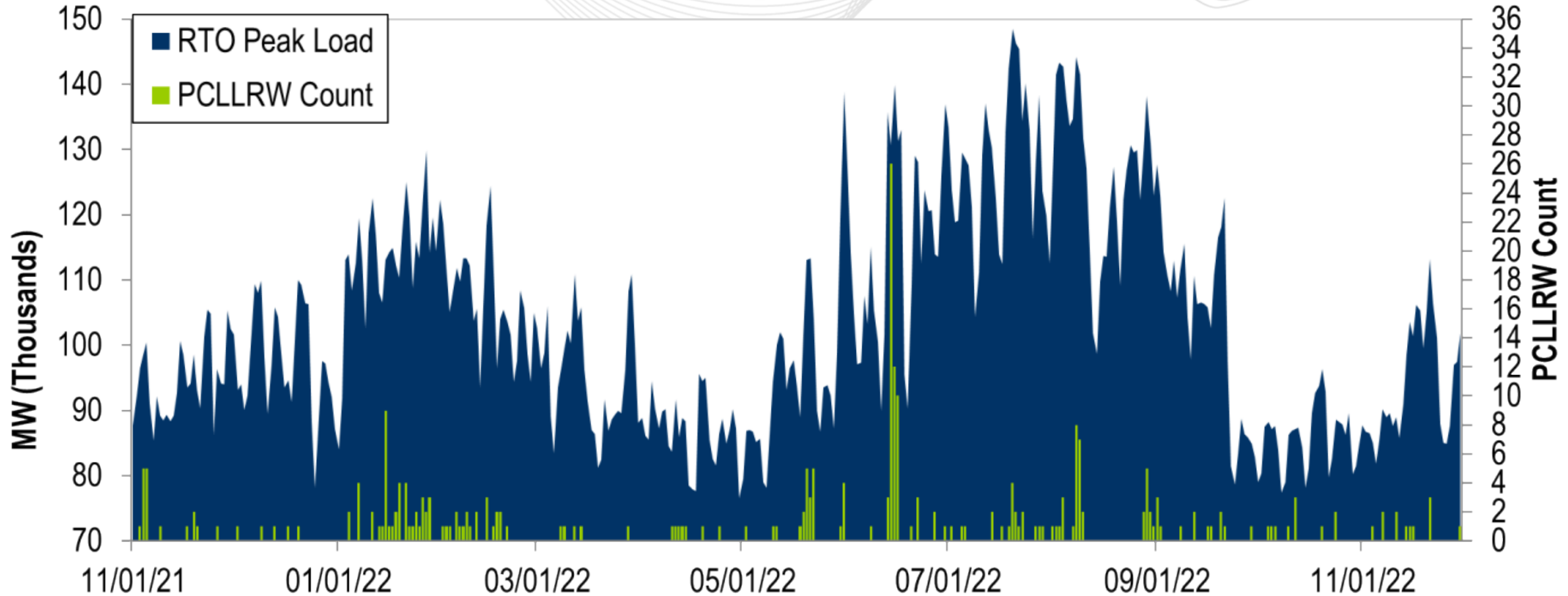
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.67% or 9,339 MW.  
 The 13-month average total outage rate is 17.04% or 34,203 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)

