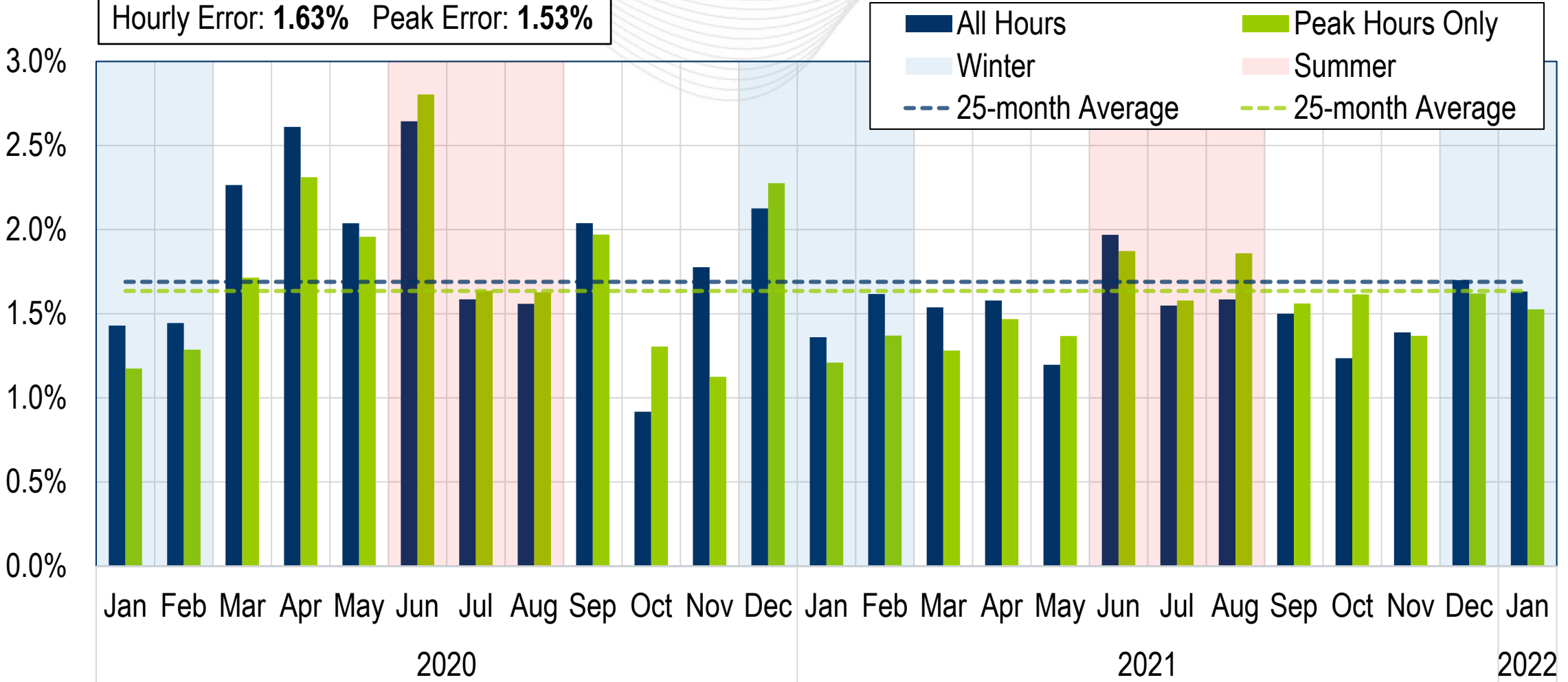




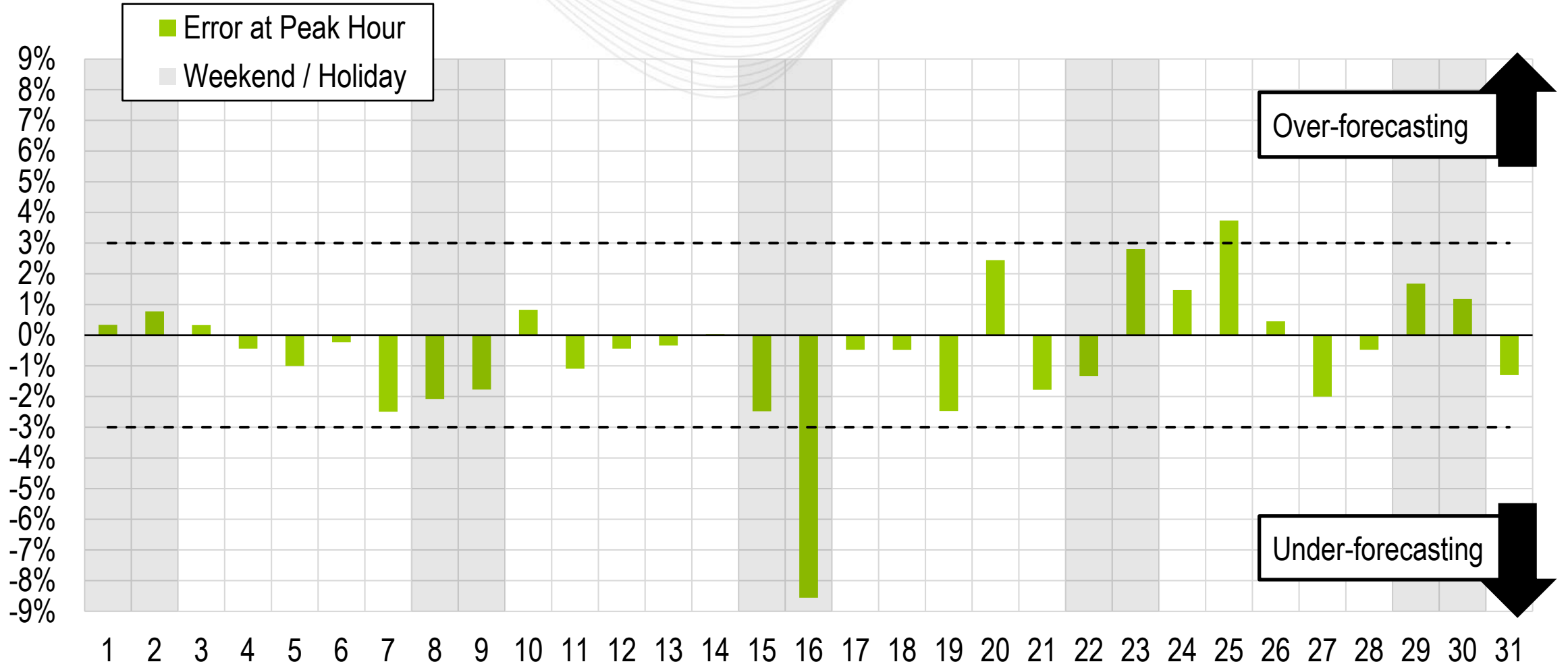
# System Operations Report

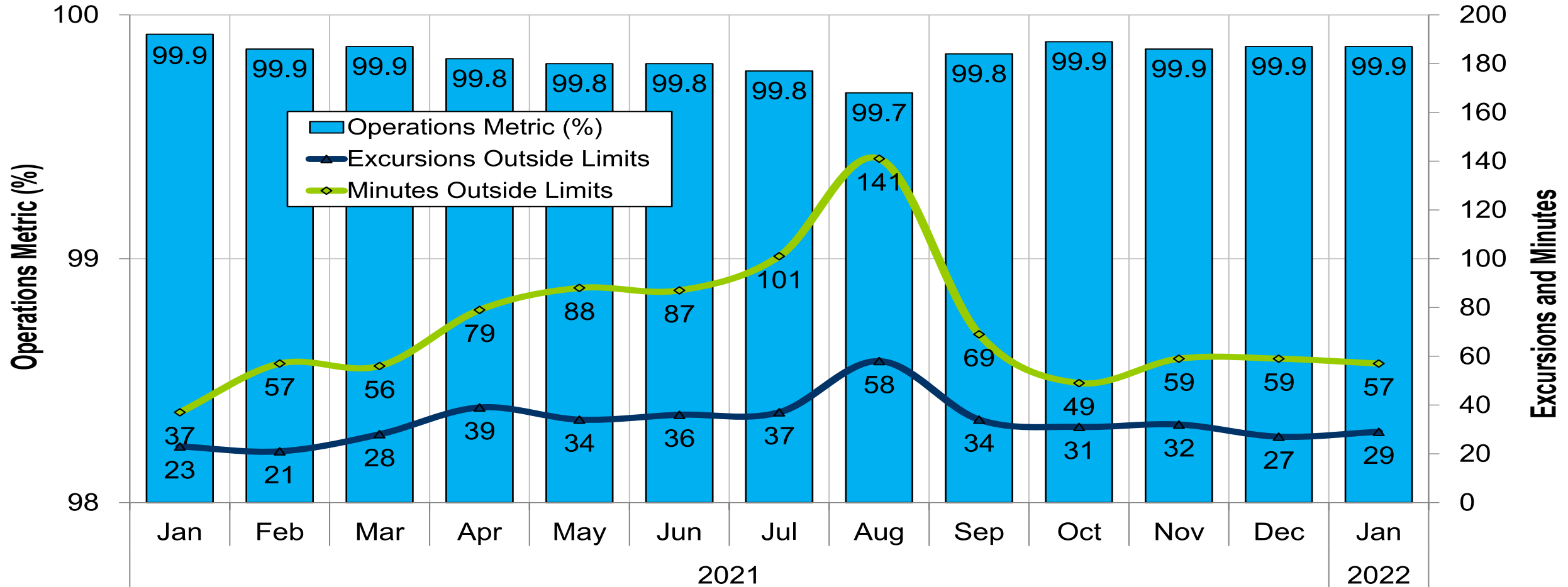
Stephanie Monzon  
Manager, Markets Coordination  
Operating Committee  
February 10, 2022

January 2022  
 Hourly Error: **1.63%** Peak Error: **1.53%**



# Daily Peak Forecast Error (January)



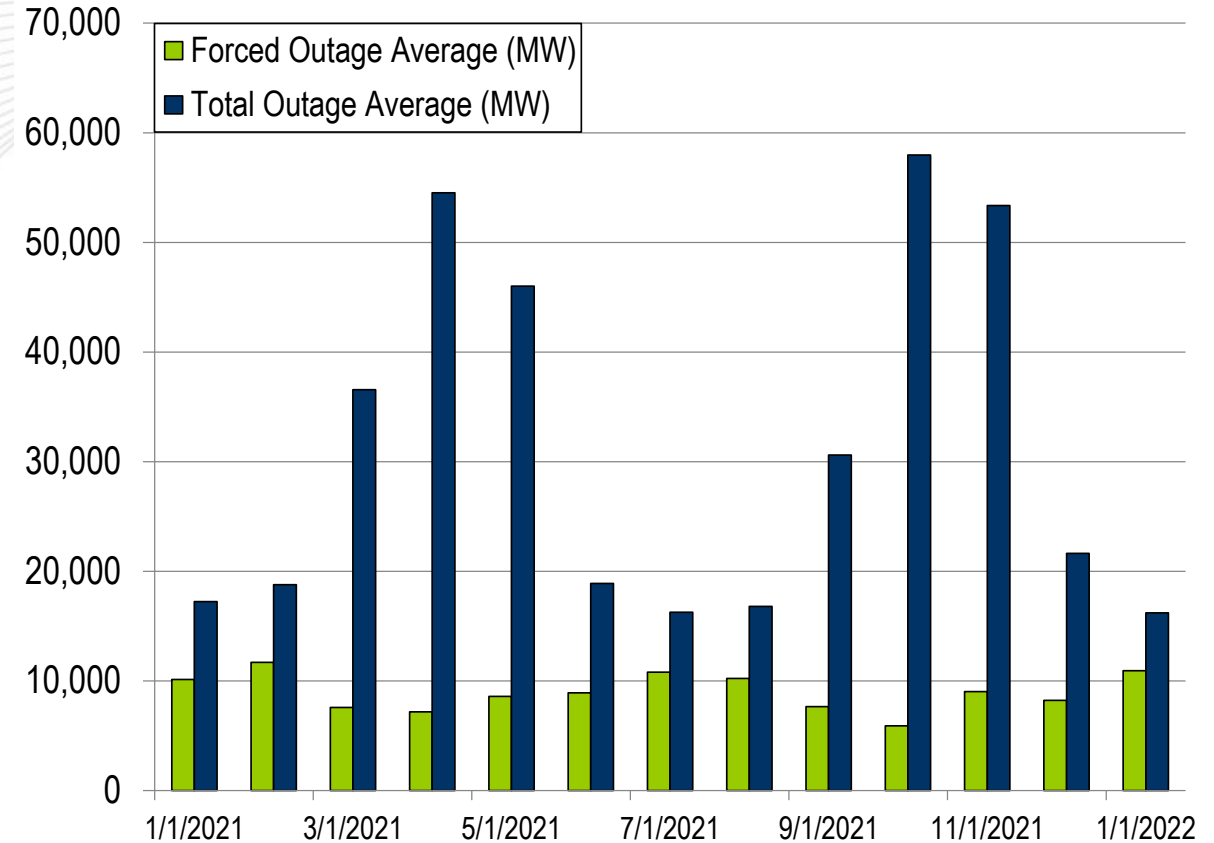
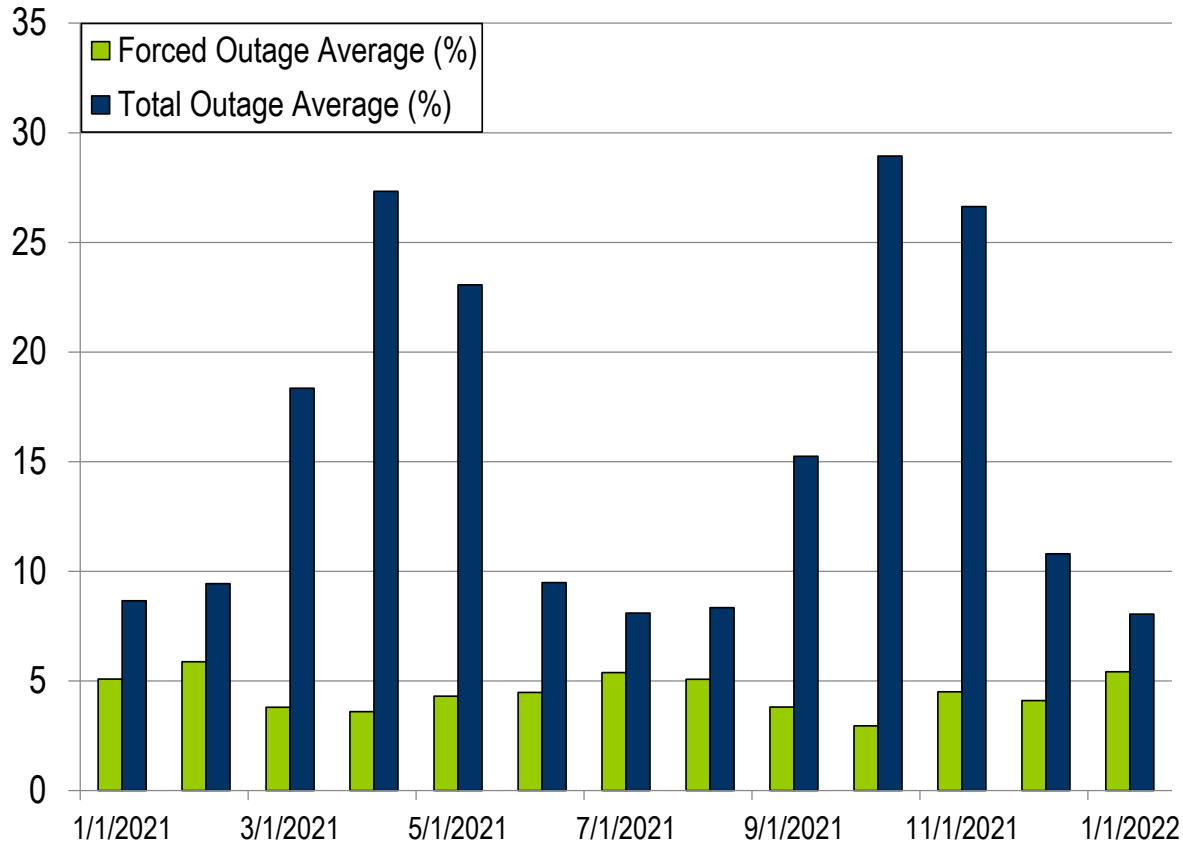


PJM's BAAL performance has exceeded the goal of 99% for each month in 2022.

- One spinning event
- Seven reserve sharing events with the Northeast Power Coordinating Council (NPCC)
- The following Emergency Procedures occurred:
  - 1 Conservative Operations
  - 7 Cold Weather Alerts
  - 44 Post-Contingency Local Load Relief Warnings (PCLLRW)
  - 11 Shortage Cases Approved

- 11 Shortage Cases Approved
- The approved Shortage Cases occurred on:
  - 01/13/22:
    - 1 Shortage Case for 06:30
    - 1 Shortage Case for 06:35
    - Fast load increase, unit tripping, and increased interchange
  - 01/16/22:
    - 1 Shortage Case for 16:40
    - Fast load increase and increased interchange

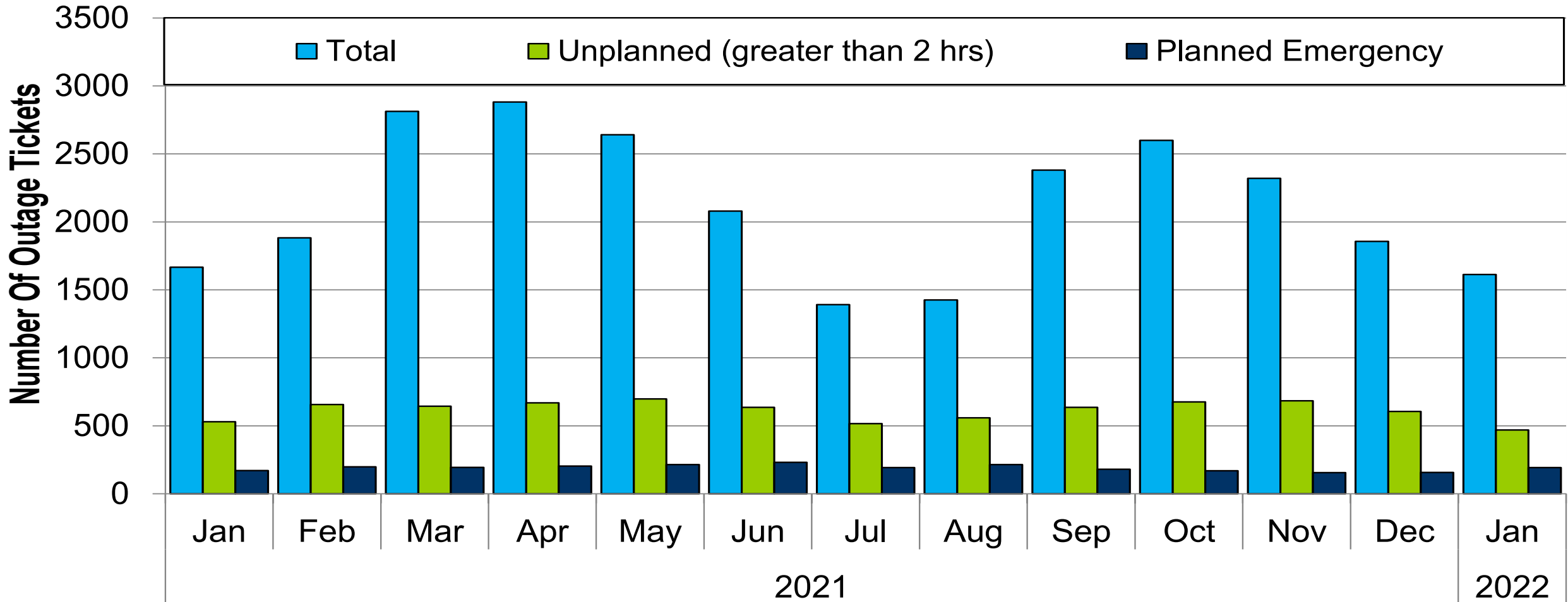
- 01/27/22:
  - 1 Shortage Case for 06:05
  - 1 Shortage Case for 06:15
  - Fast load increase, increased interchange, and transfer interface binding
- 01/30/22:
  - 1 Shortage Case for 01:45
  - 1 Shortage Case for 01:50
  - 1 Shortage Case for 01:55
  - 1 Shortage Case for 01:59
  - Increased interchange and transfer interface binding
- 01/31/22:
  - 1 Shortage Case for 06:40
  - 1 Shortage Case for 06:45
  - Fast load increase



The 13-month average forced outage rate is 4.49% or 8,979 MW.  
 The 13-month average total outage rate is 15.58% or 31,157 MW.

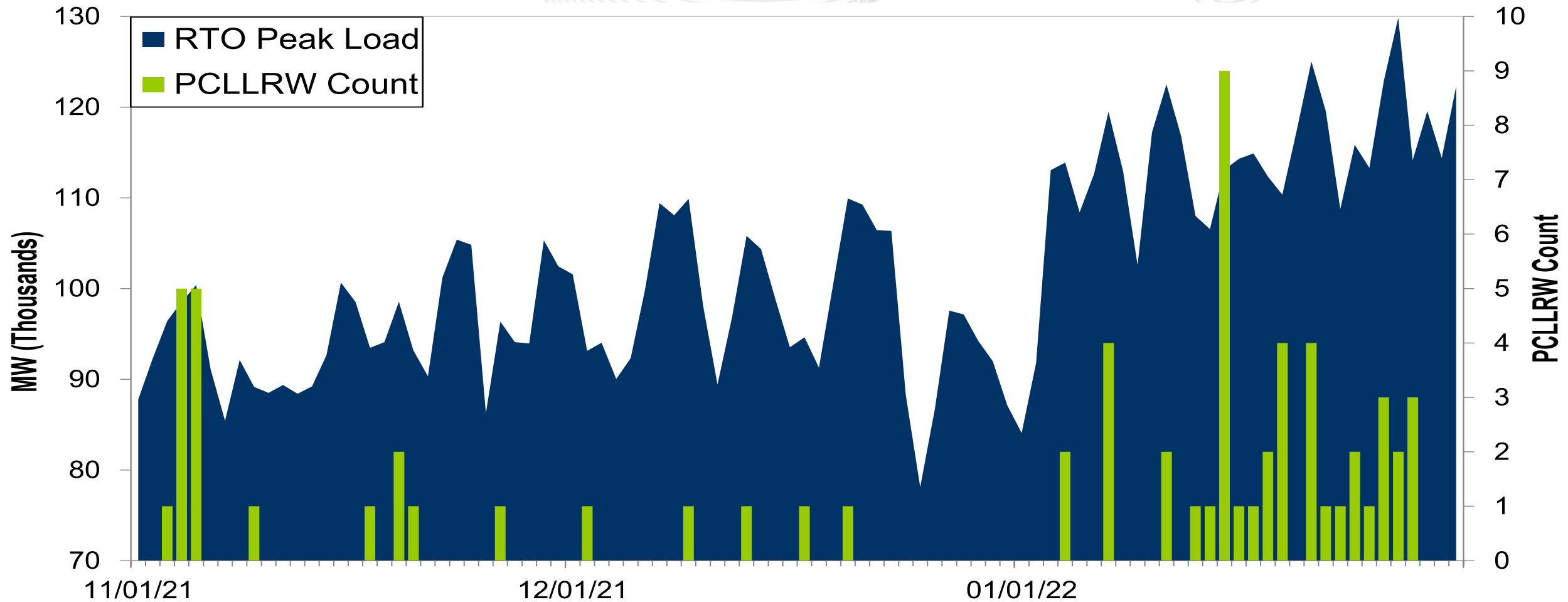


# 2021-2022 Planned Emergency, Unplanned, and Total Outages by Ticket



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	Tier 1 Estimate (MW)	Tier 1 Response (MW)
1	01/03/22	12:27:31	12:36:27	00:08:56	RTO	516.8	377.6

Event	Date	Start Time	End Time	Duration	Region	Tier 2 Assigned (MW)	Tier 2 Response (MW)	Tier 2 Penalty (MW)
1	01/03/22	12:27:31	12:36:27	00:08:56	RTO	1344.2	1344.2	0.0

\*Tier 2 Response is equal to Tier 2 Assigned for events with duration less than ten minutes

Presenter:  
Stephanie Monzon,  
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SME:  
David Kimmel,  
[David.Kimmel@pjm.com](mailto:David.Kimmel@pjm.com)

System Operations Report



### Member Hotline

(610) 666 – 8980

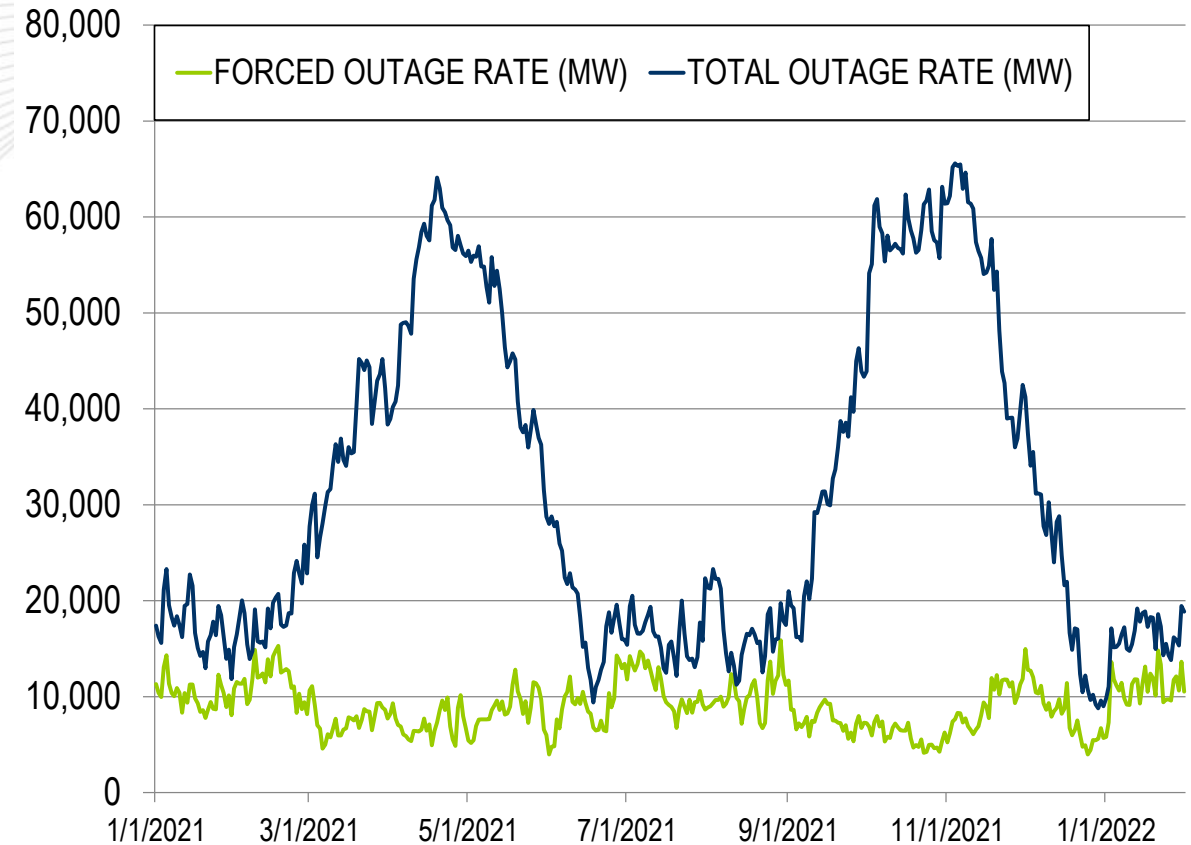
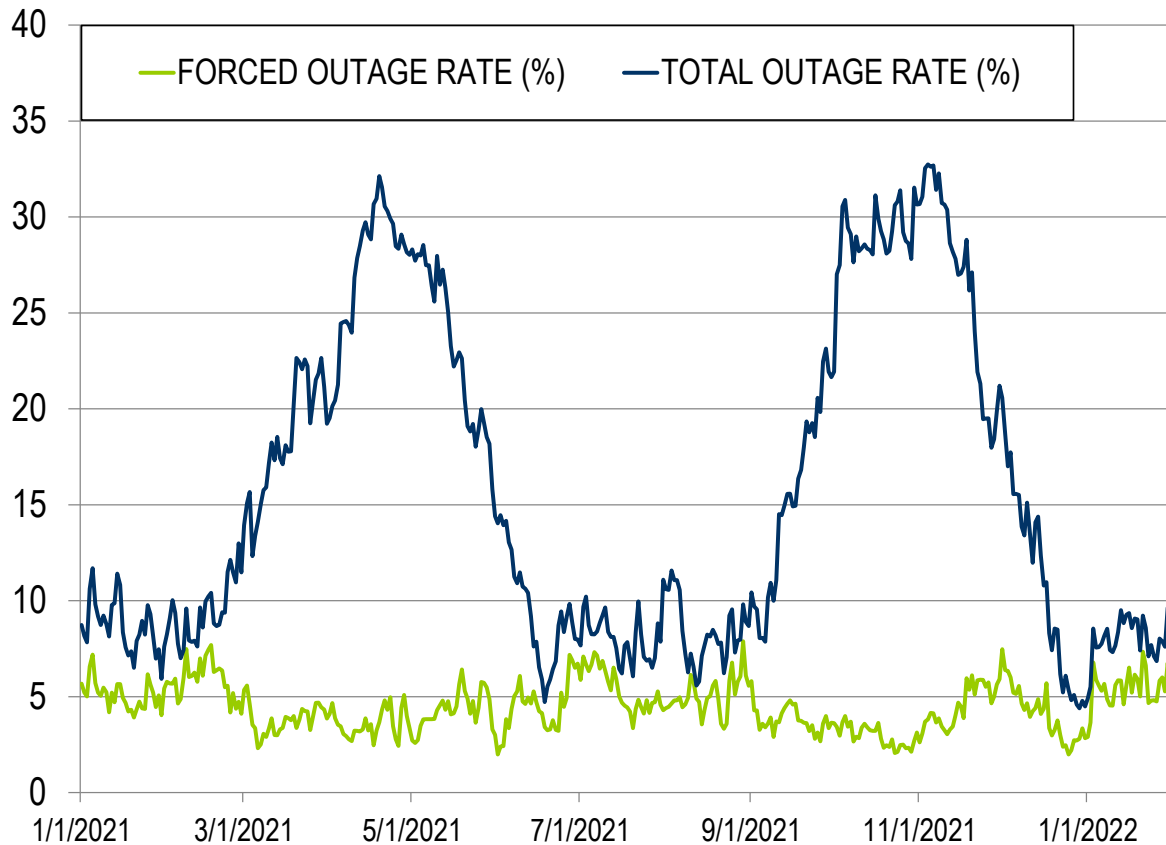
(866) 400 – 8980

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

# Appendix

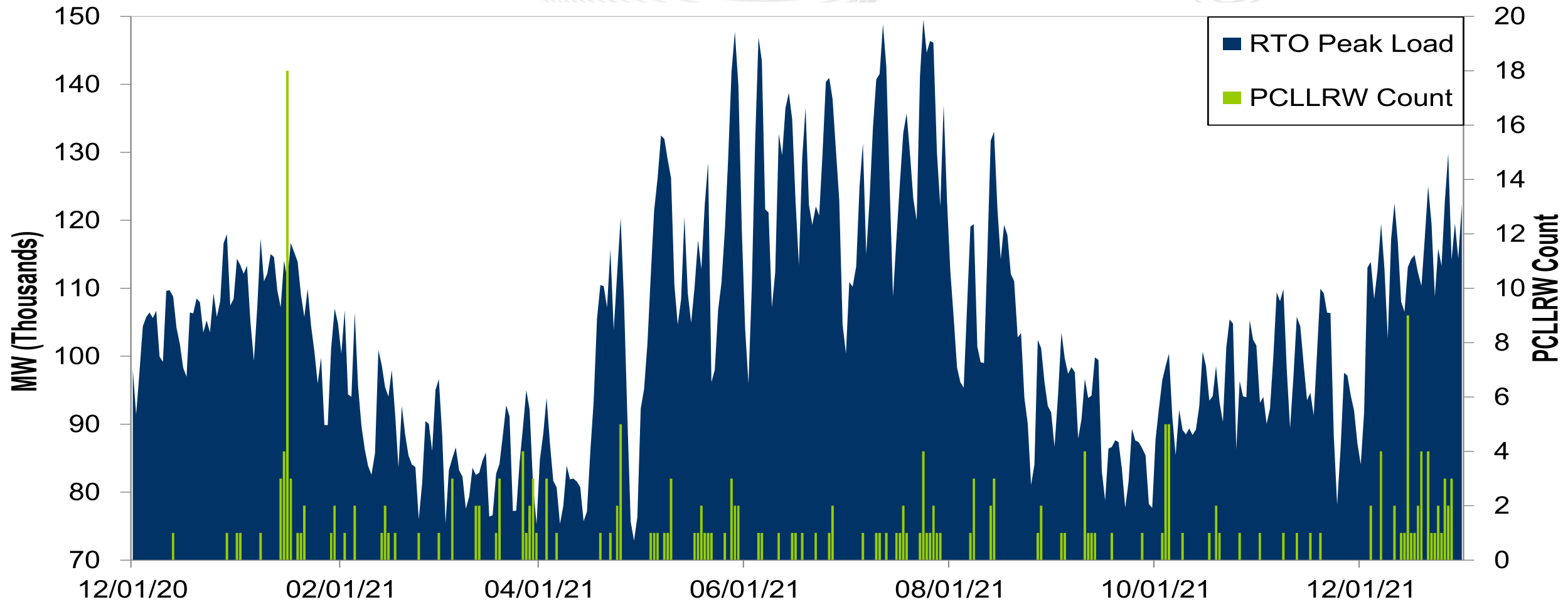
## Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.49% or 8,979 MW.  
 The 13-month average total outage rate is 15.58% or 31,157 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)

