



System Operations Report

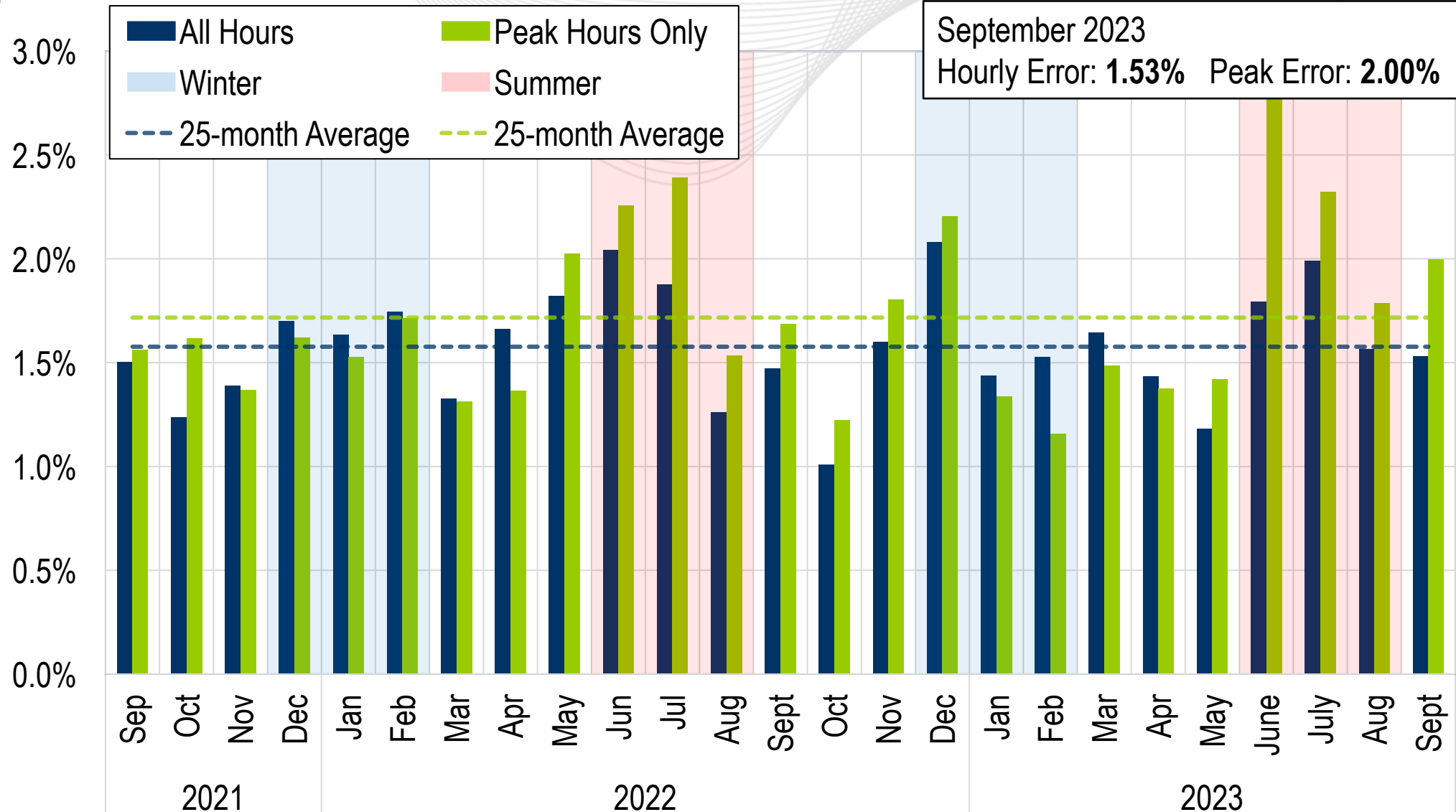
Brian Oakes

Sr. Lead Engineer, Markets Coordination

MC Webinar

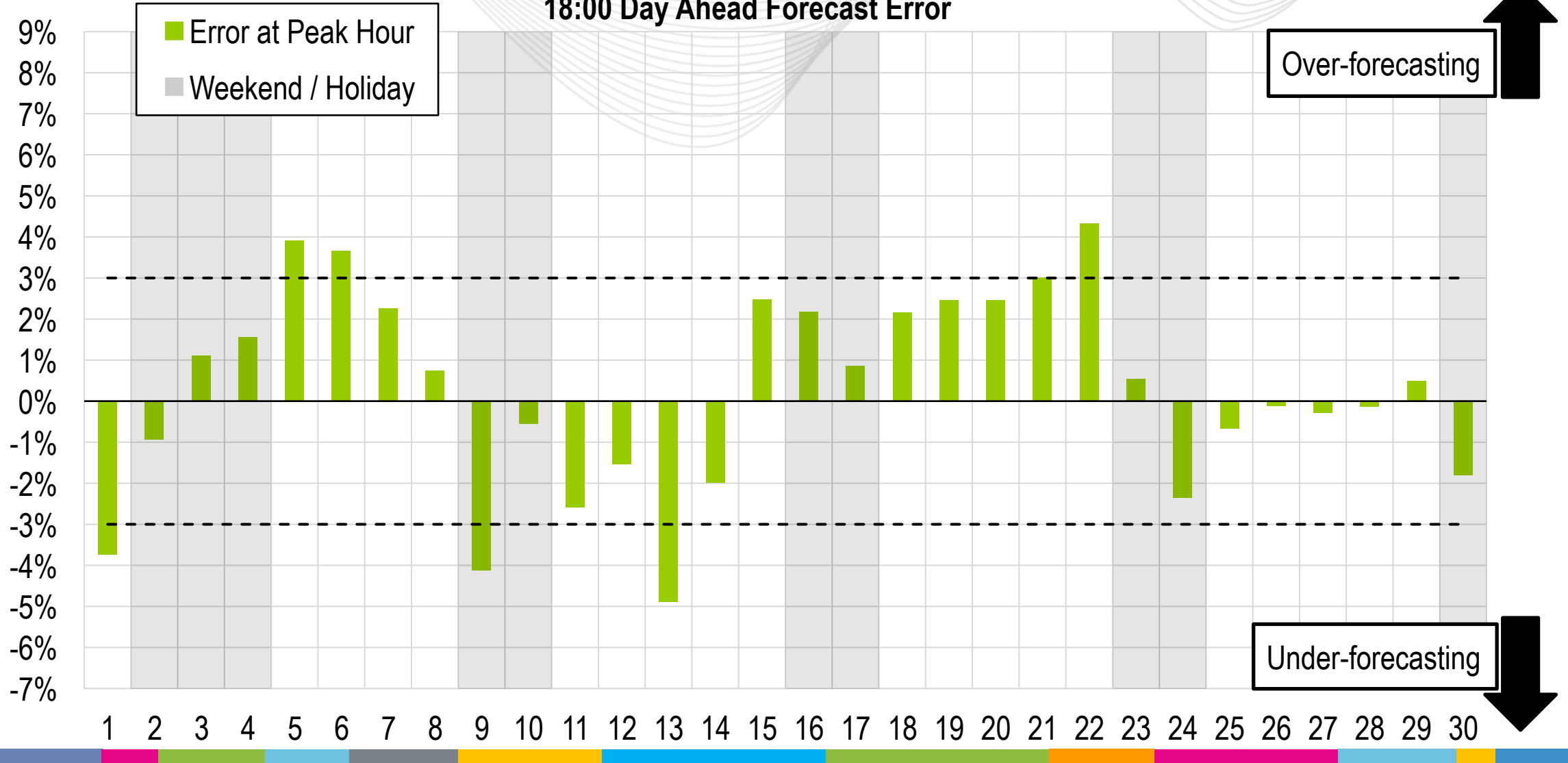
October 23, 2023

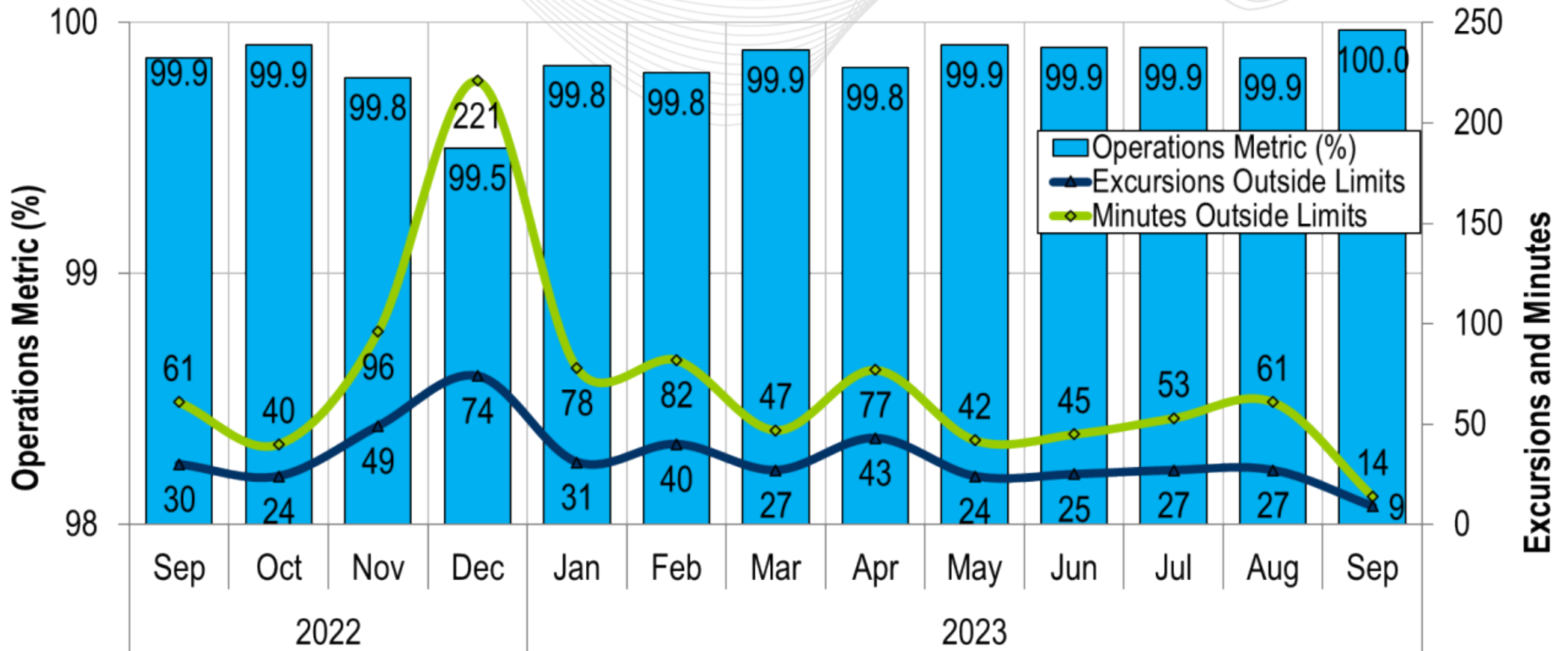
Average Load Forecast Error



Daily Peak Forecast Error (September)

18:00 Day Ahead Forecast Error

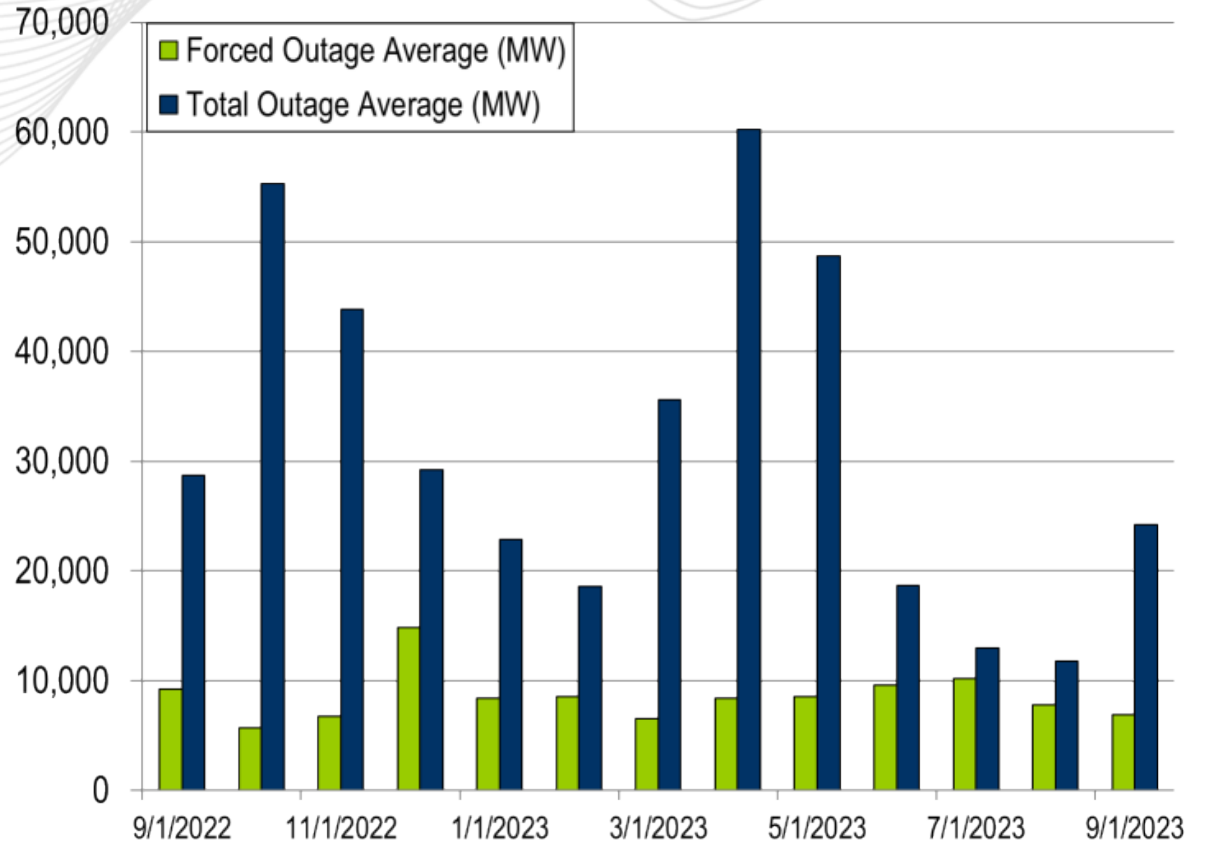
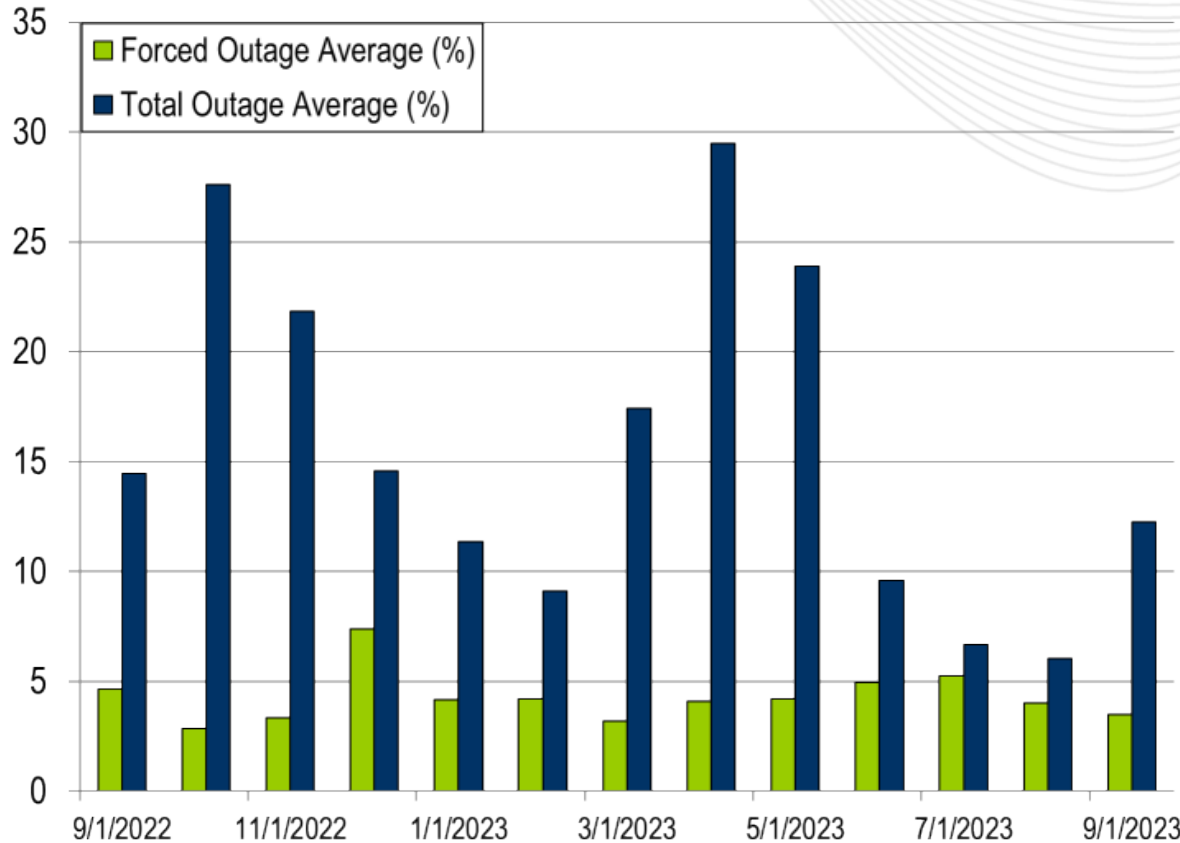




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022 and 2023.

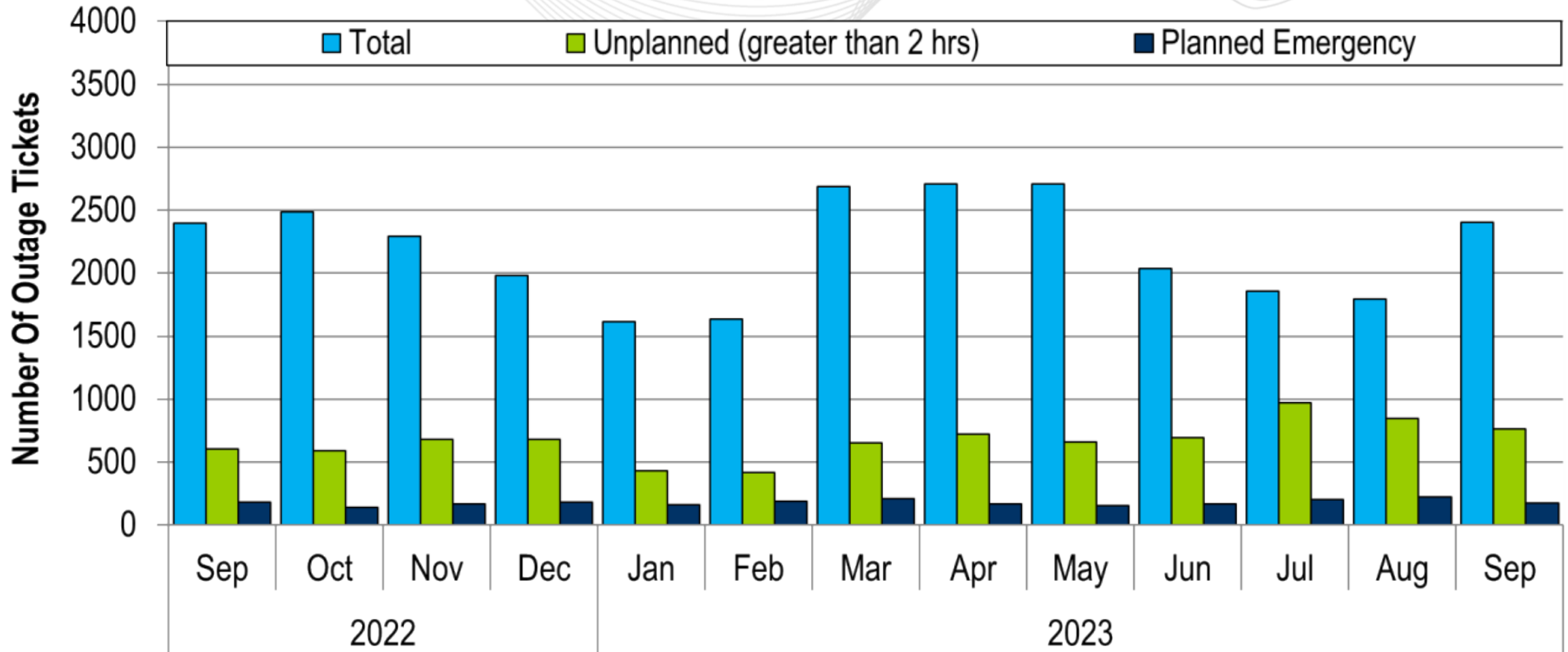
- 5 Shared Reserve events
- The following Emergency Procedures occurred:
 - 1 High System Voltage Action
 - 1 Geomagnetic Disturbance Warning
 - 3 Hot Weather Alert
 - 17 Post Contingency Local Load Relief Warnings

- 2 Shortage Cases Approved
- The approved Shortage Cases occurred on:
 - 09/11/2023:
 - 2 Shortage Cases for intervals 17:50 and 17:55
 - Factors: Load came in higher than expected, solar ramping down, CTs called not online yet, multiple constraints binding hard



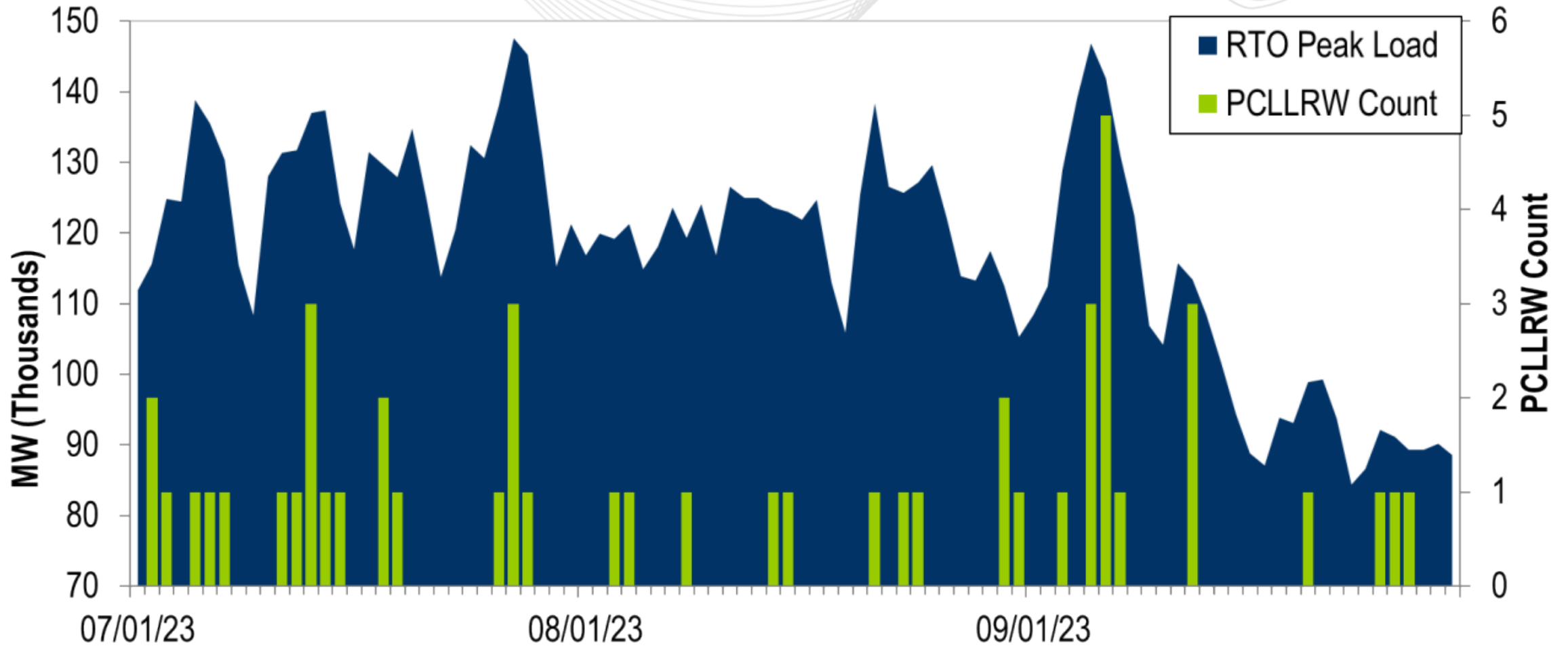
The 13-month average forced outage rate is 4.31% or 8,603 MW.
 The 13-month average total outage rate is 15.75% or 31,653 MW.

2022-2023 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 have been no spin events for the month of September 2023

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System Operations Report



Member Hotline

(610) 666 – 8980

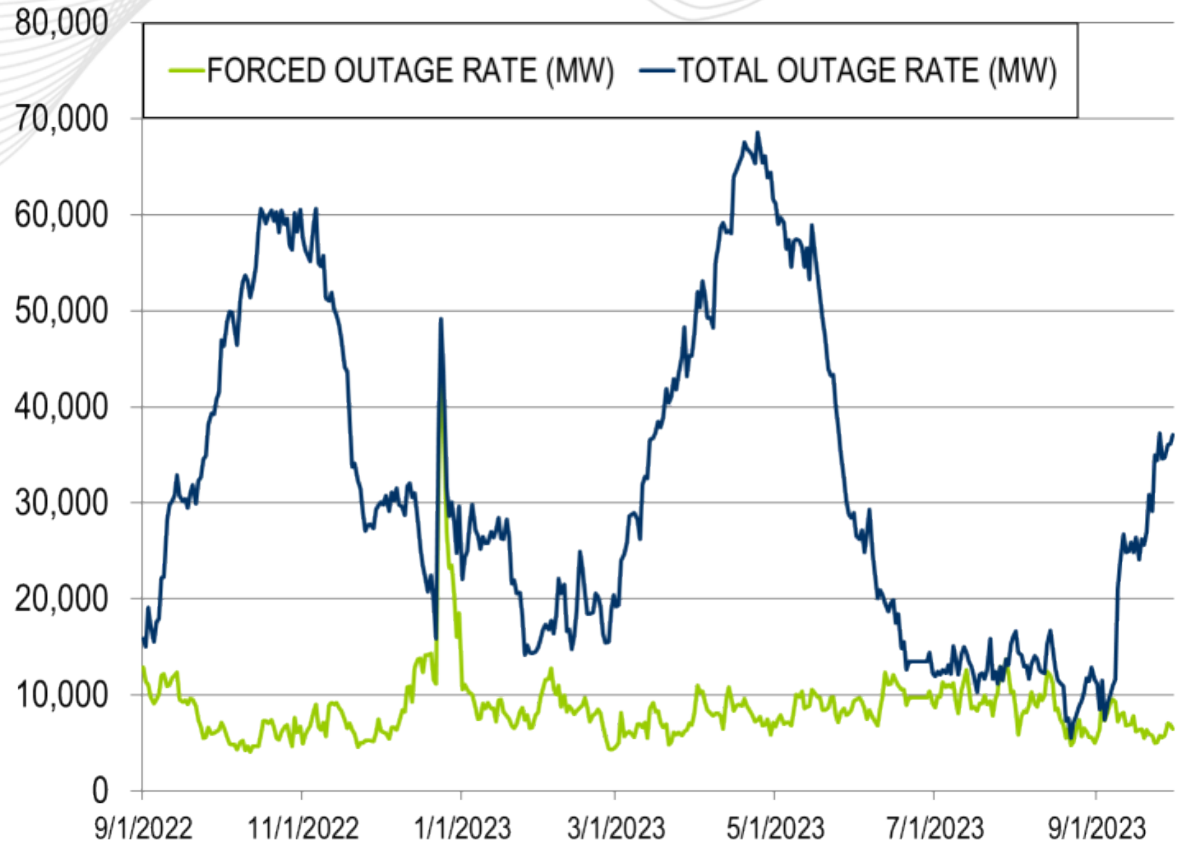
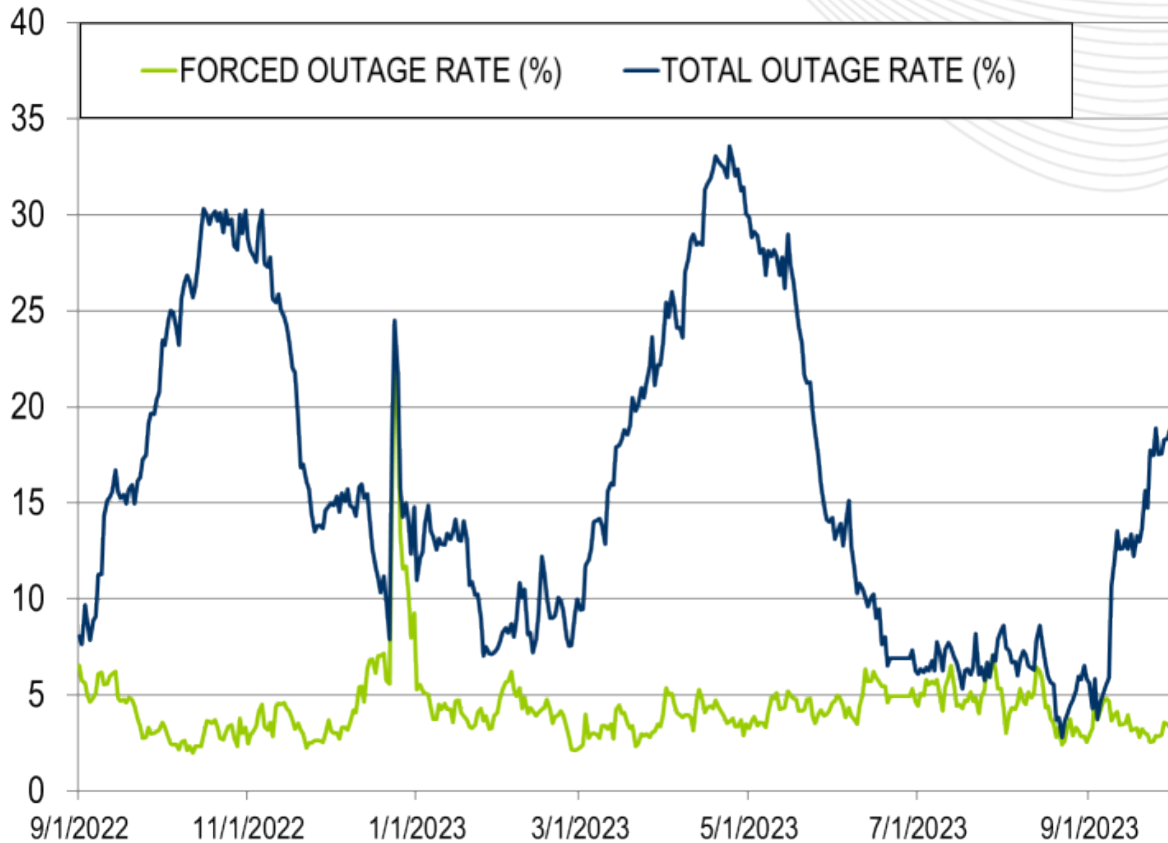
(866) 400 – 8980

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Appendix

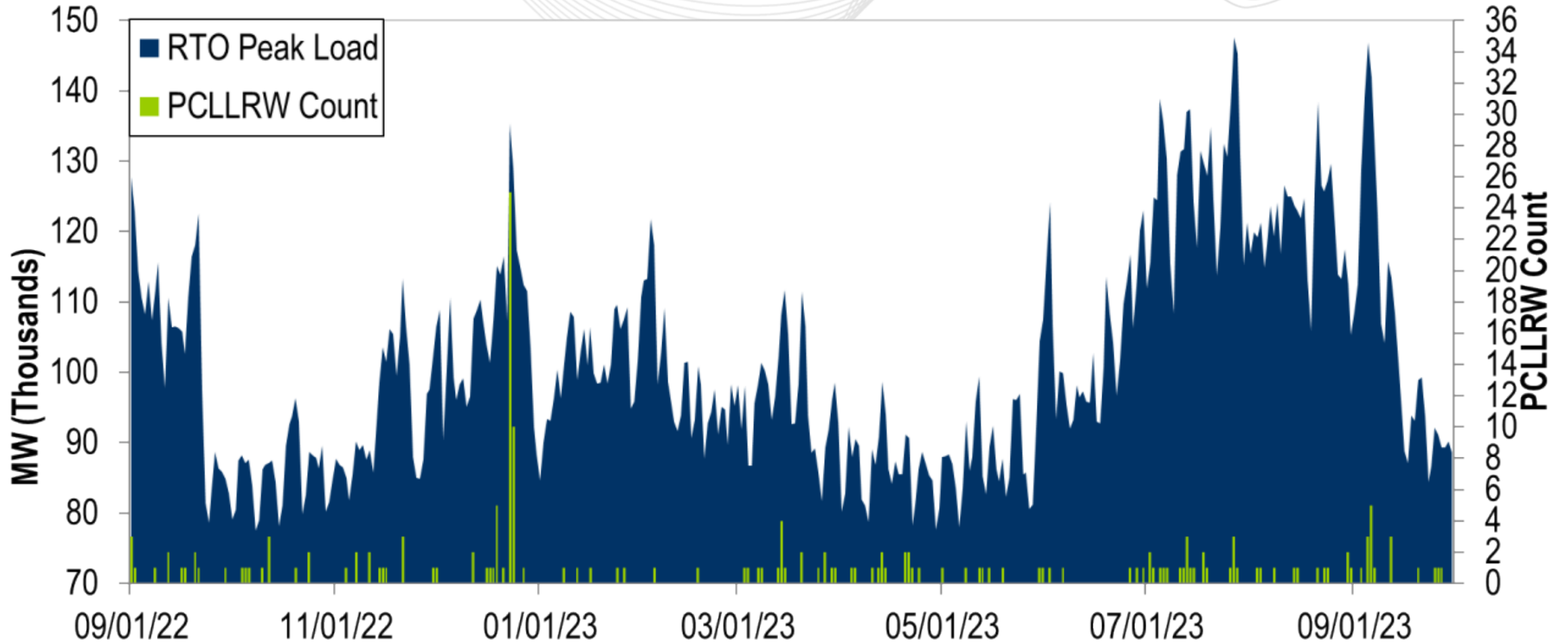
Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.31% or 8,603 MW.
 The 13-month average total outage rate is 15.75% or 31,653 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.
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