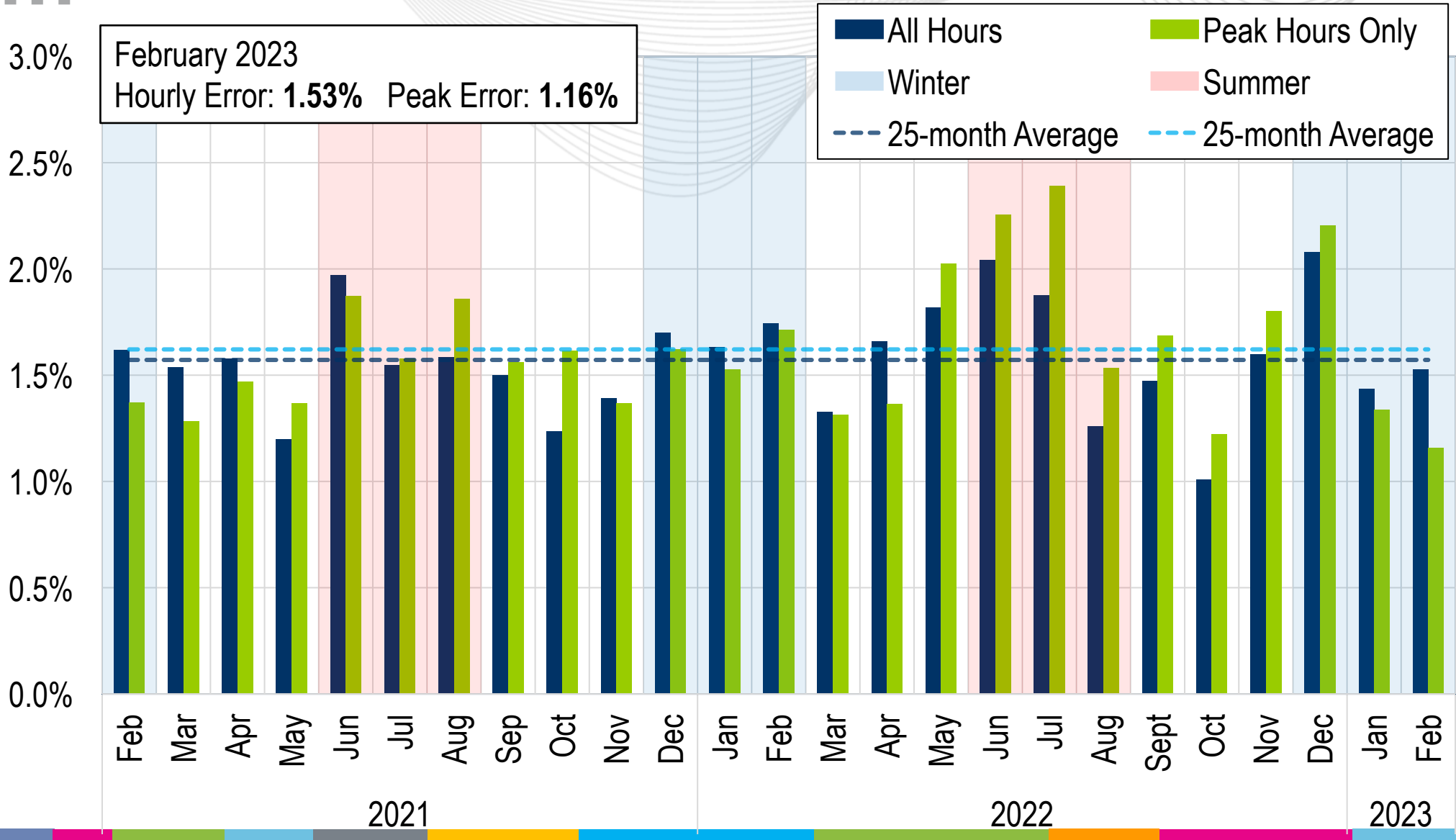




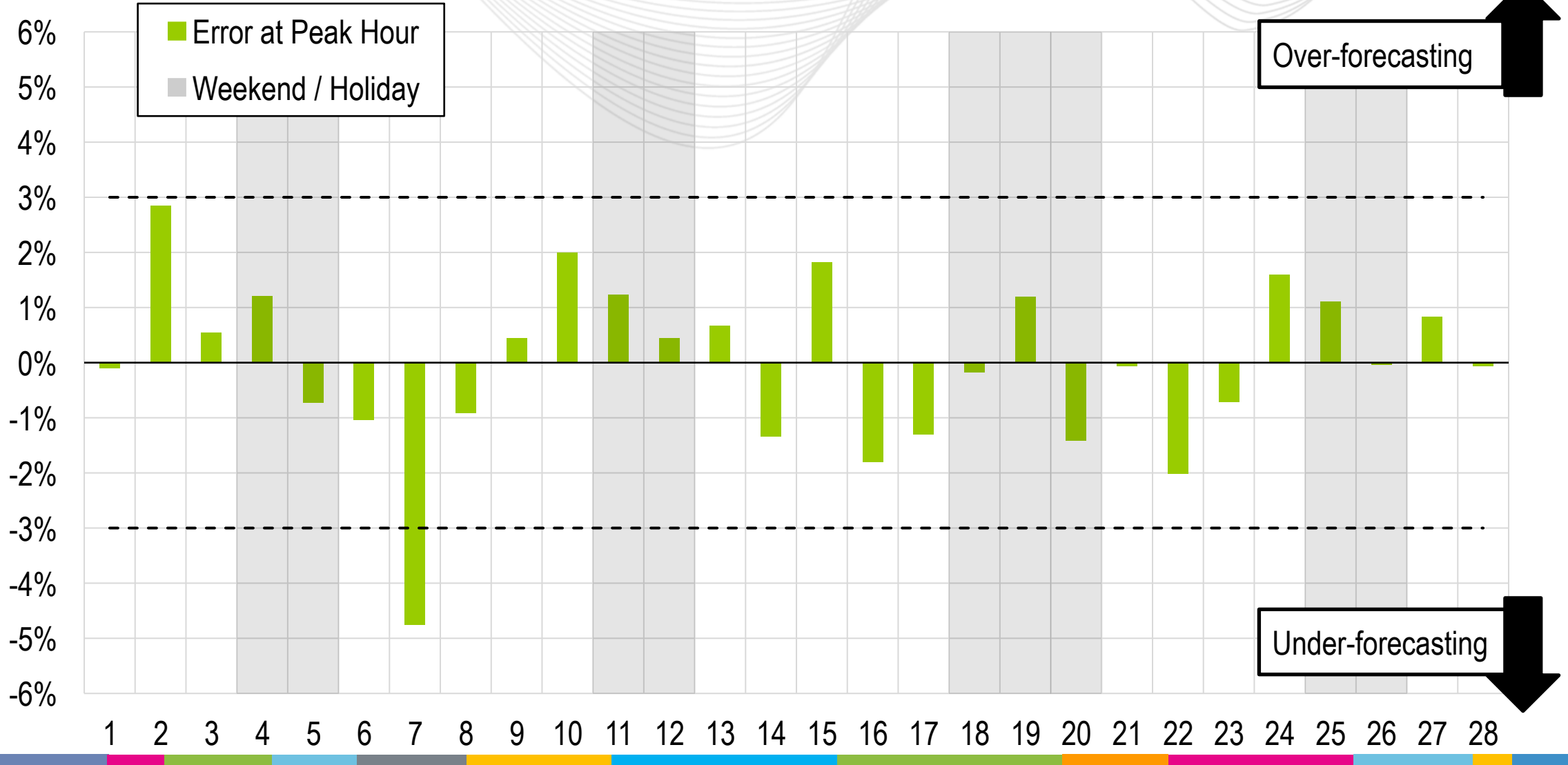
System Operations Report

Hong Chen
Principal Engineer, Markets Coordination
MC Webinar
March 20th, 2023

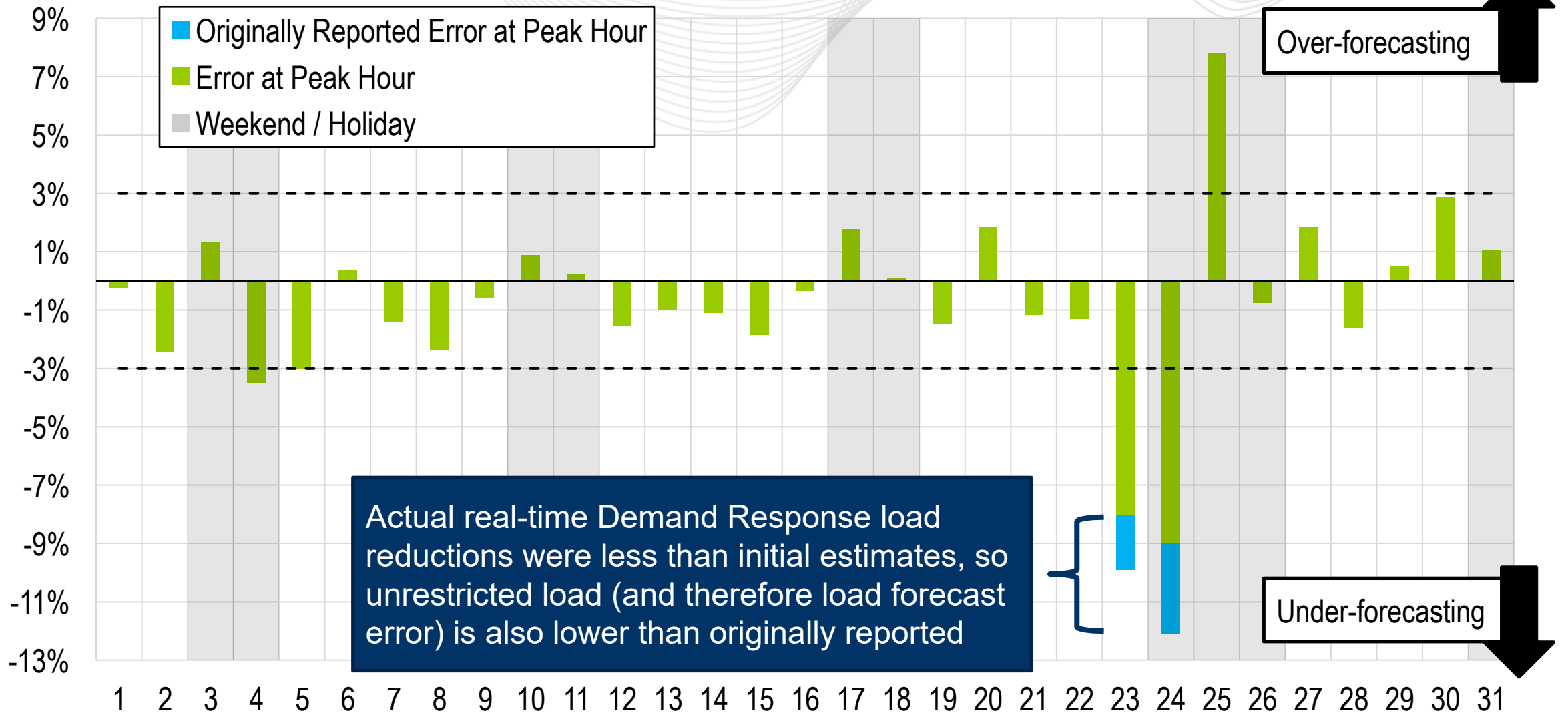
Average Load Forecast Error

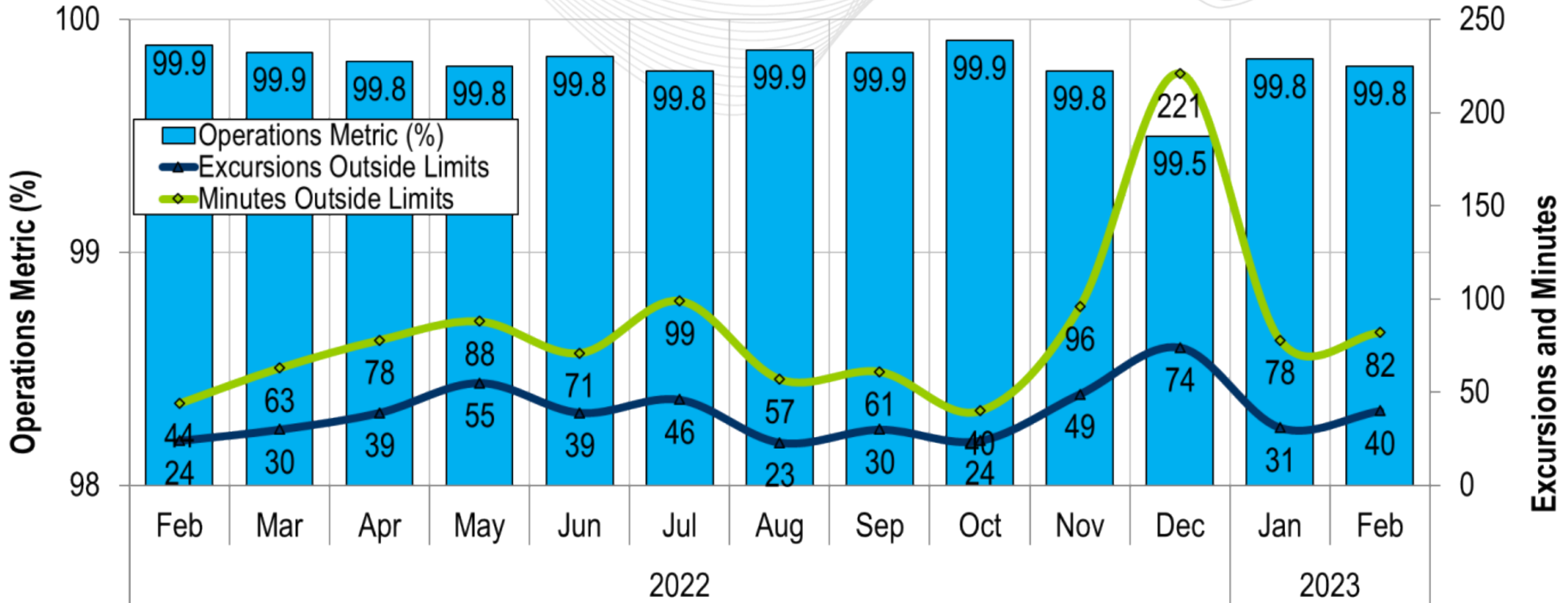


Daily Peak Forecast Error (February)



Daily Peak Forecast Error (December)

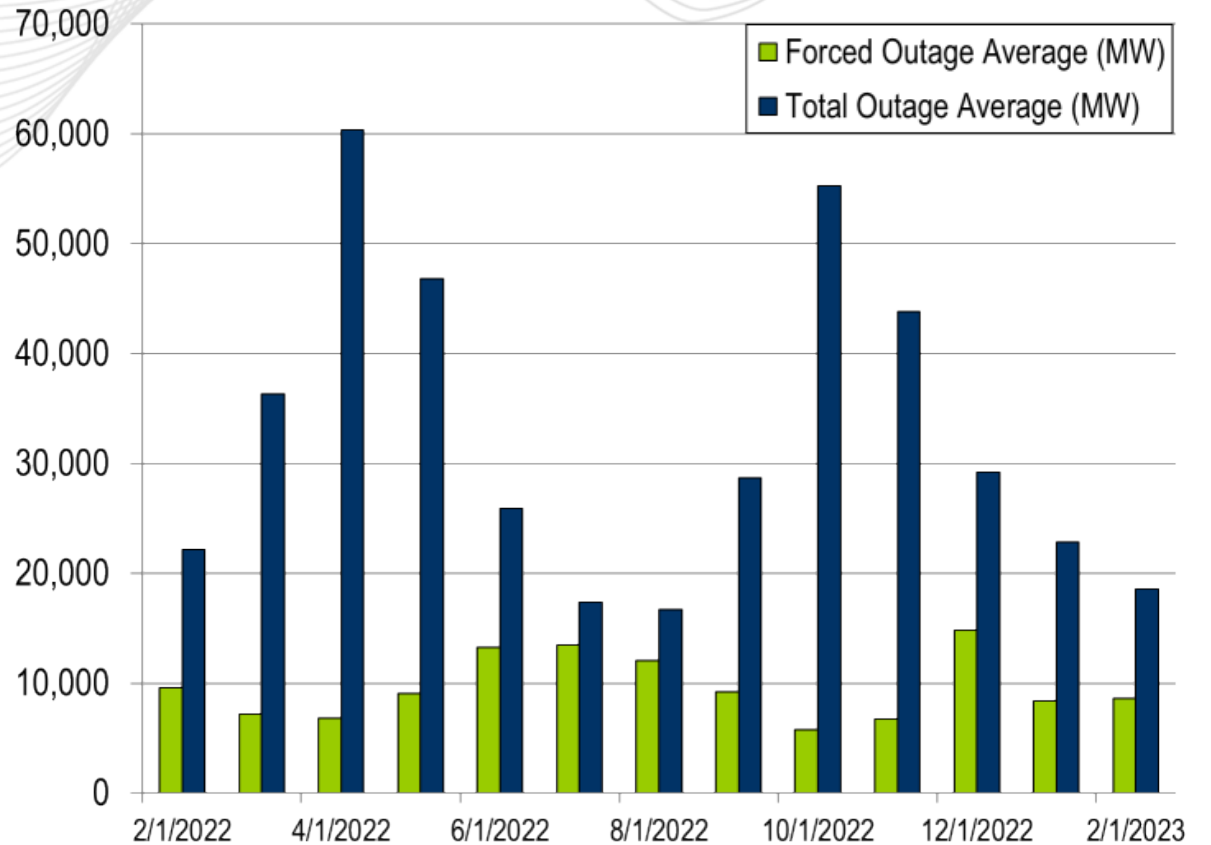
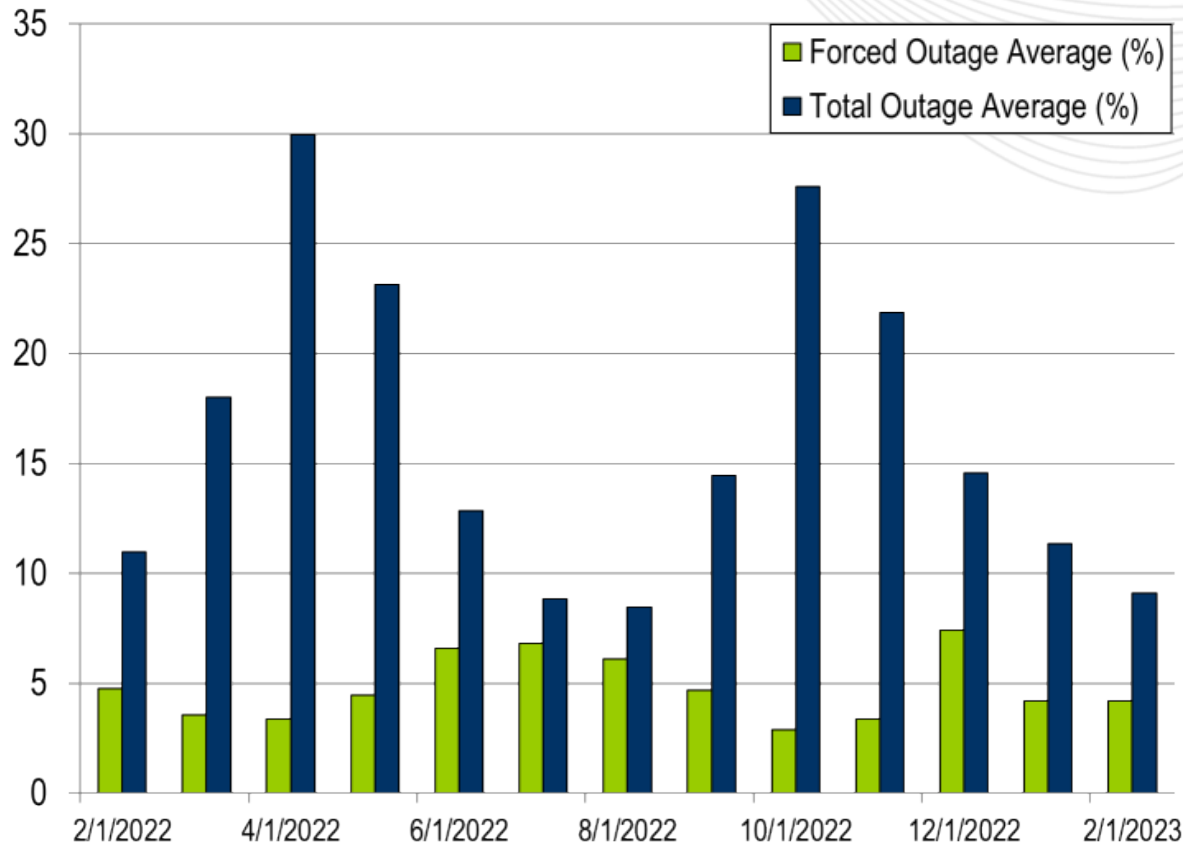




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022 and 2023.

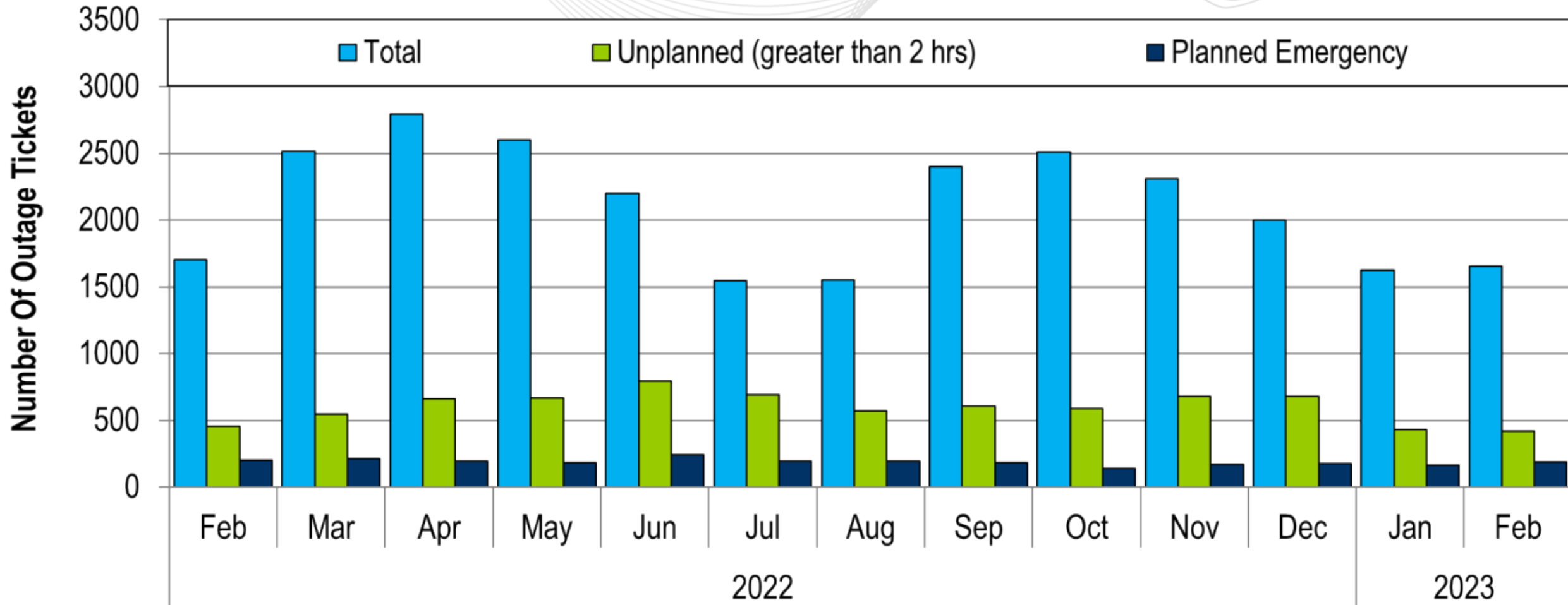
- 1 Spinning Event
- 4 Shared Reserve Events
- The following Emergency Procedures occurred:
 - 1 Cold Weather Alert
 - 1 Conservative Operations Alert
 - 3 Geomagnetic Disturbance Warnings
 - 2 Post Contingency Local Load Relief Warnings

- There were no shortage cases approved for the month of February 2023



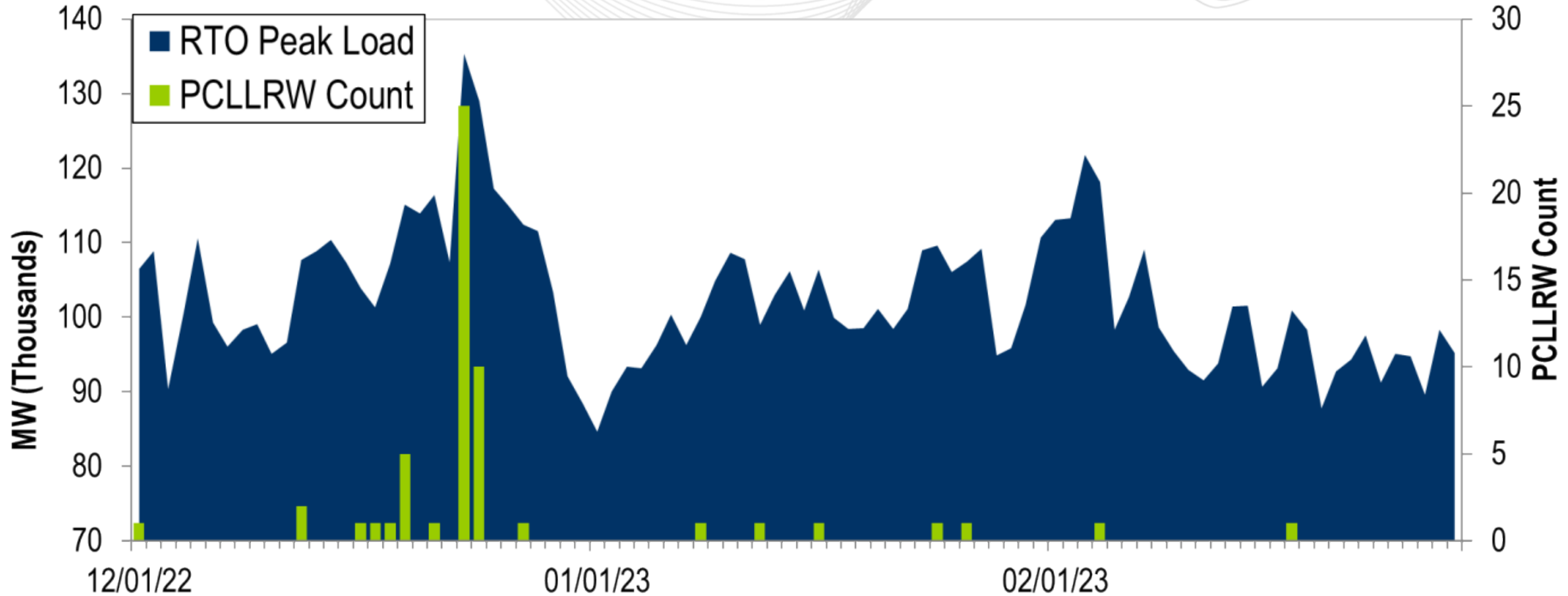
The 13-month average forced outage rate is 4.81% or 9,635 MW.
 The 13-month average total outage rate is 16.30% or 32,753 MW.

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	02/02/23	06:06:08	06:14:10	00:08:02	RTO	1938.0	1938.0	0.0

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

Presenter:
Hong Chen,
Hong.Chen@pjm.com

SME:
Ross Kelly,
Ross.Kelly@pjm.com

System Operations Report



Member Hotline

(610) 666 – 8980

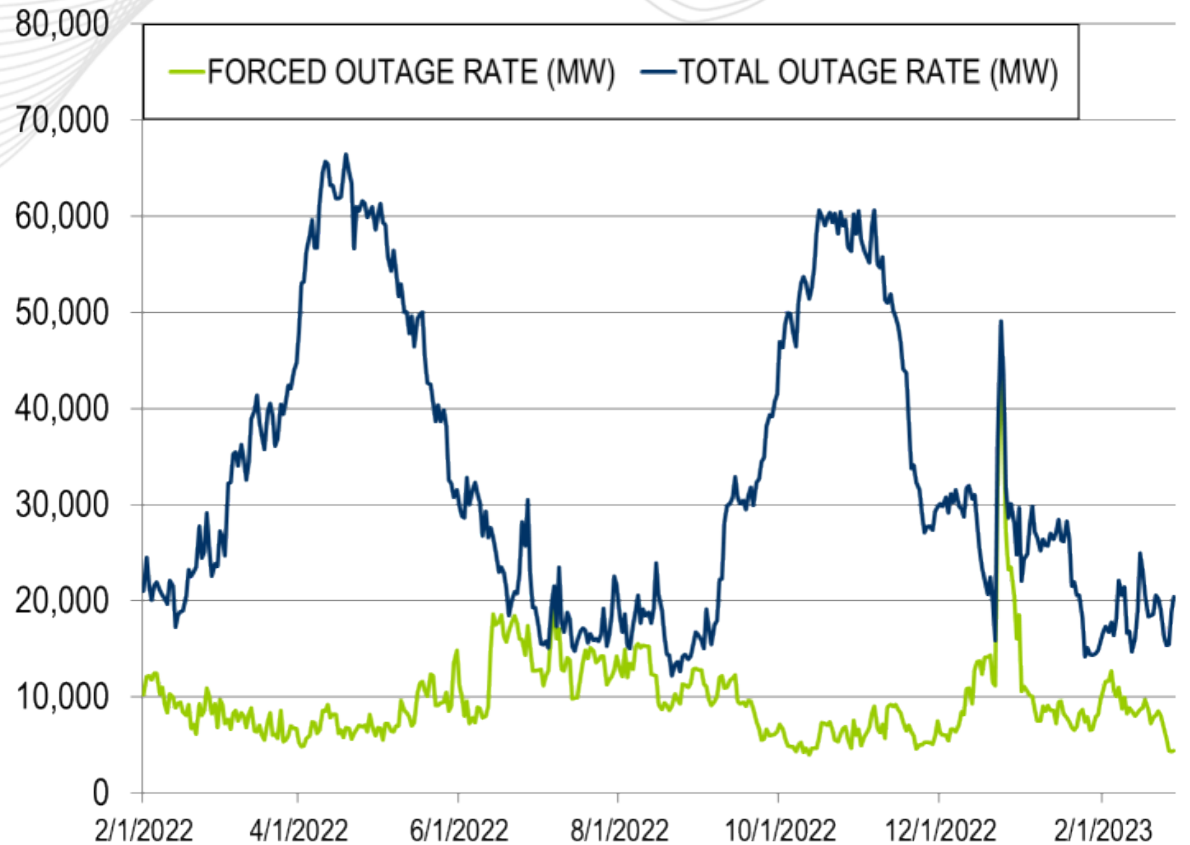
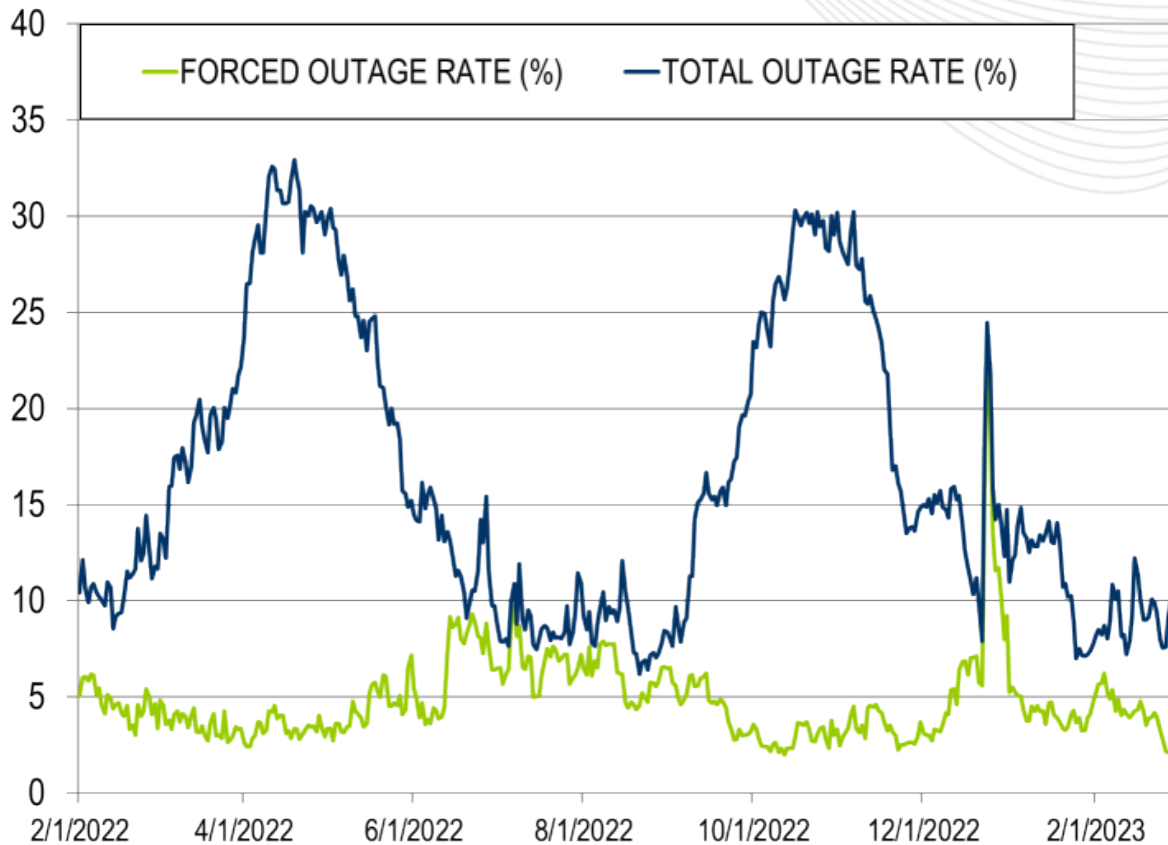
(866) 400 – 8980

custsvc@pjm.com

Appendix

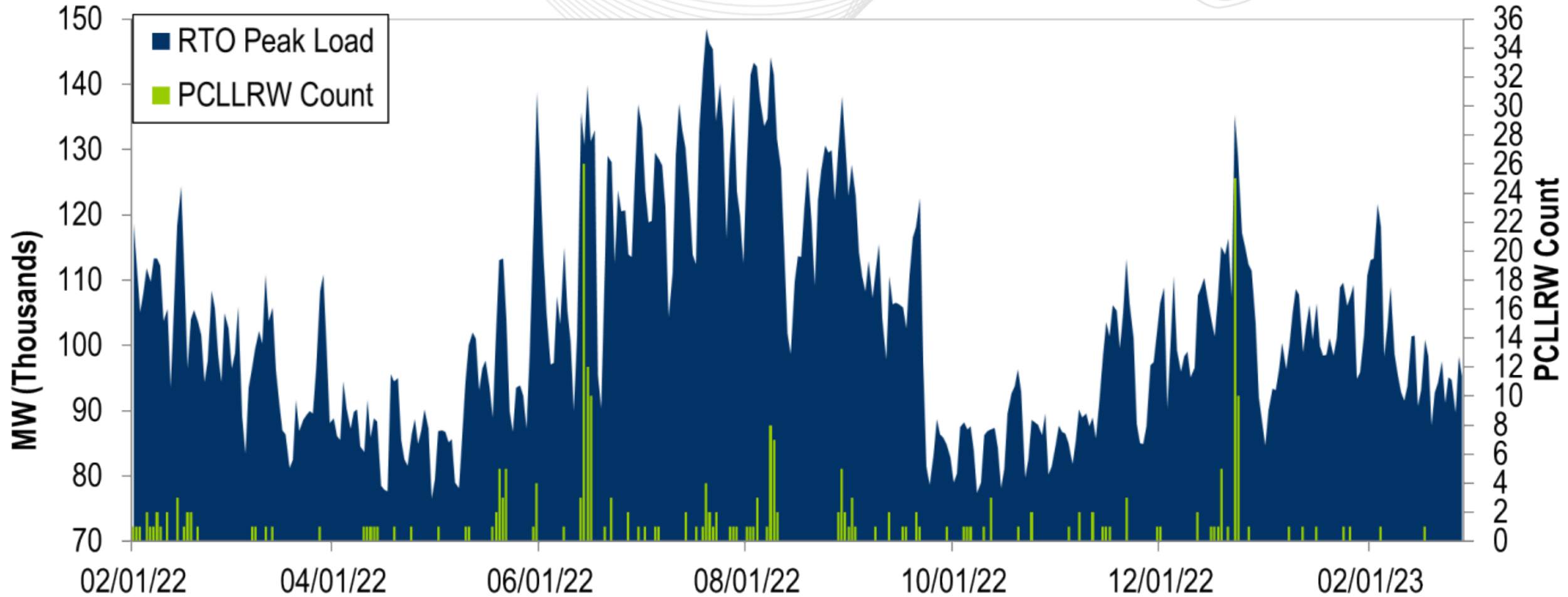
Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.81% or 9,635 MW.
 The 13-month average total outage rate is 16.30% or 32,753 MW.

PCLLRW Count Vs. Peak Load – Daily Values For 13 Months



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