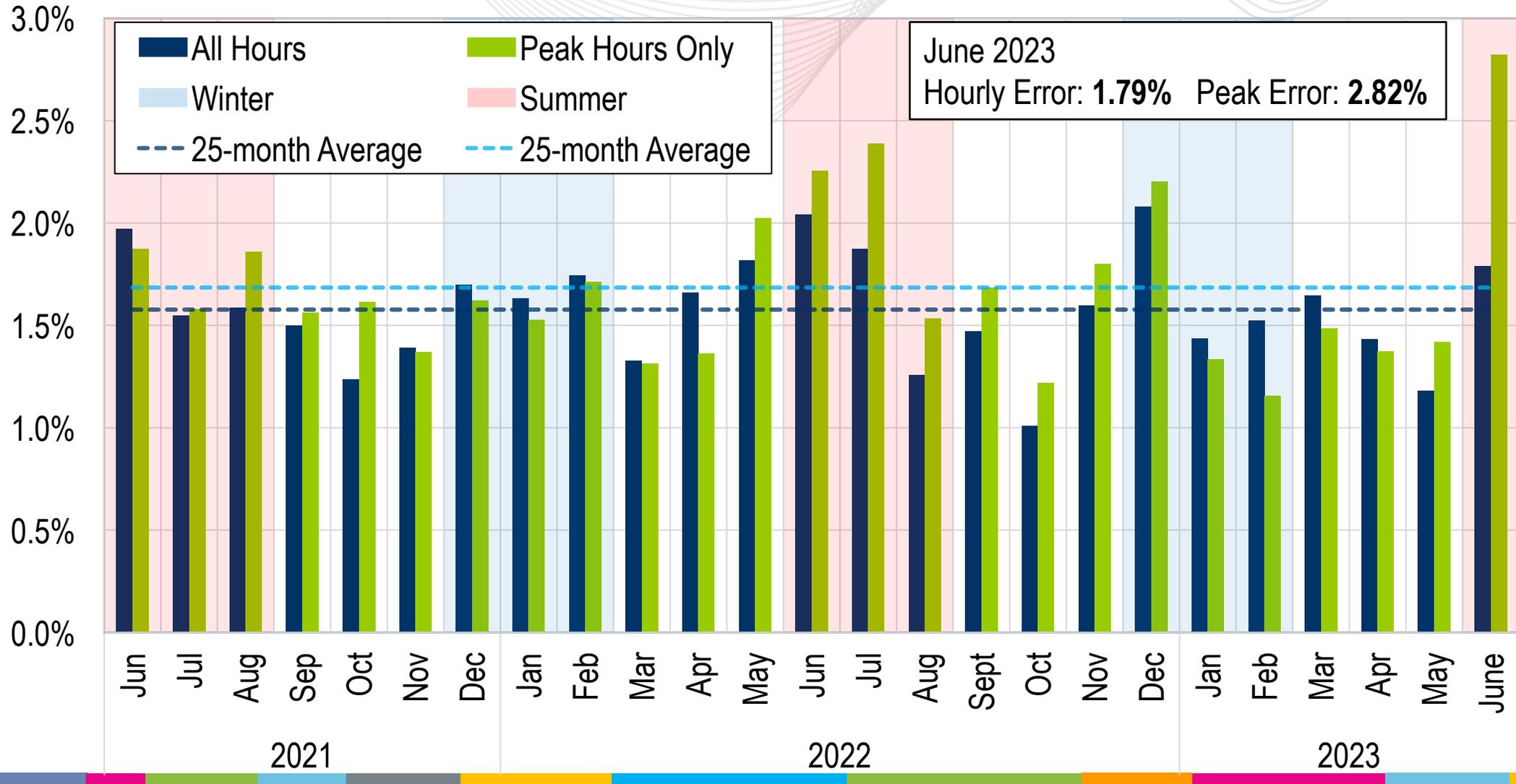




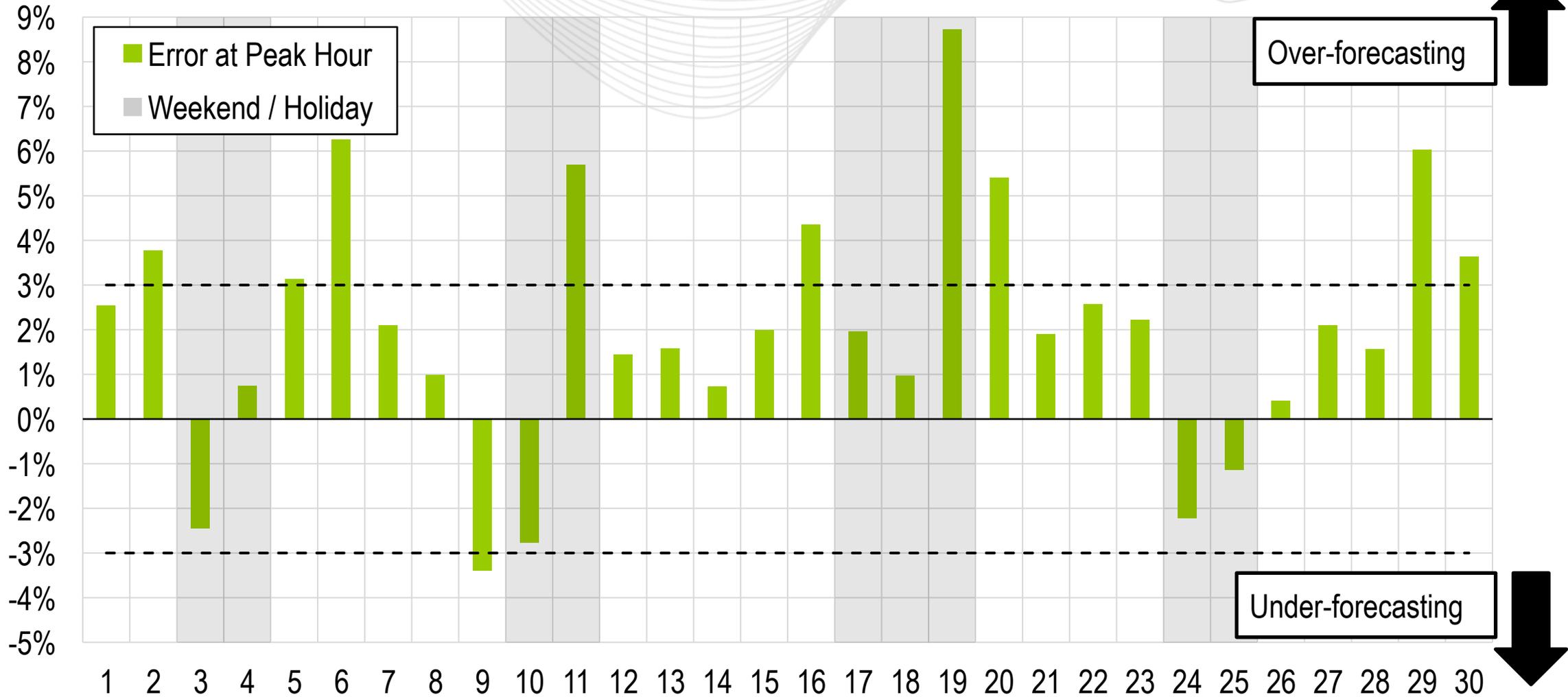
System Operations Report

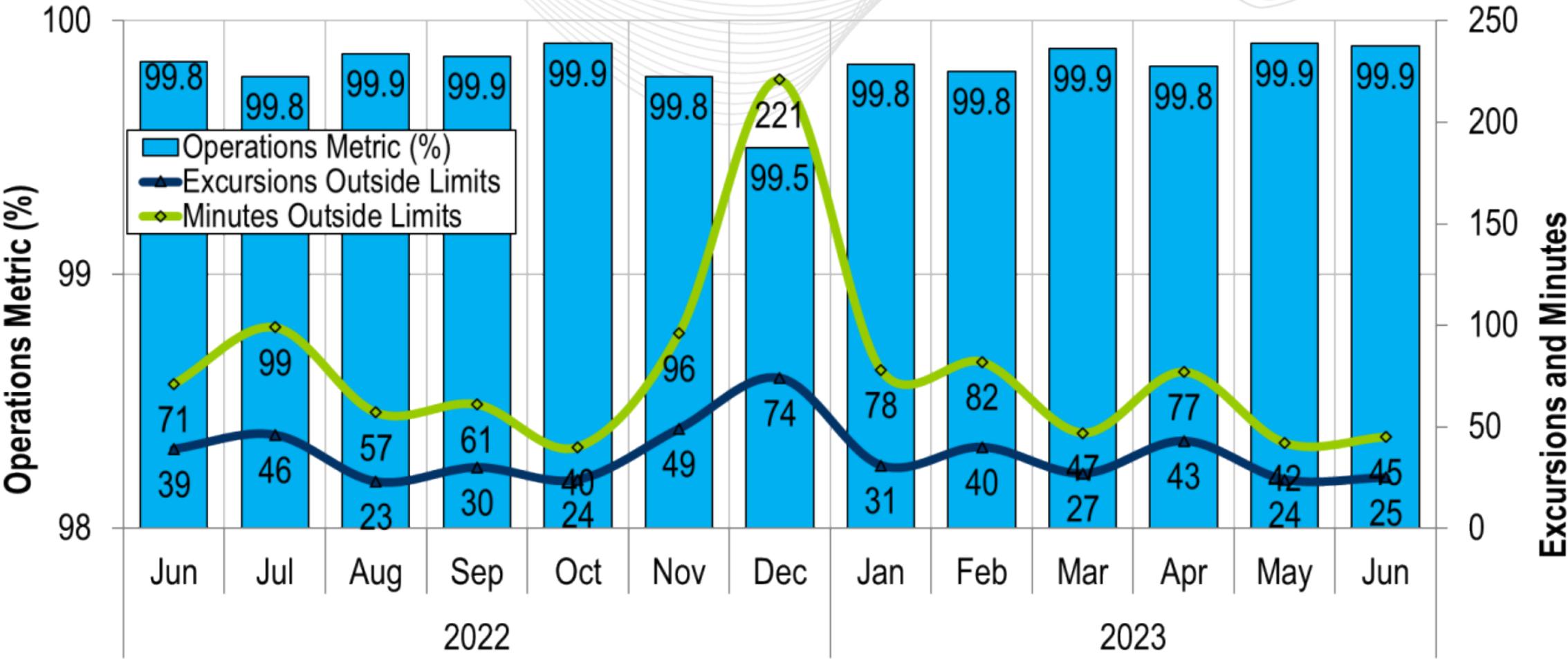
Hong Chen
Principal Engineer, Markets Coordination
MC Webinar
July 24th, 2023



Daily Peak Forecast Error (June)

18:00 Day Ahead Forecast Error

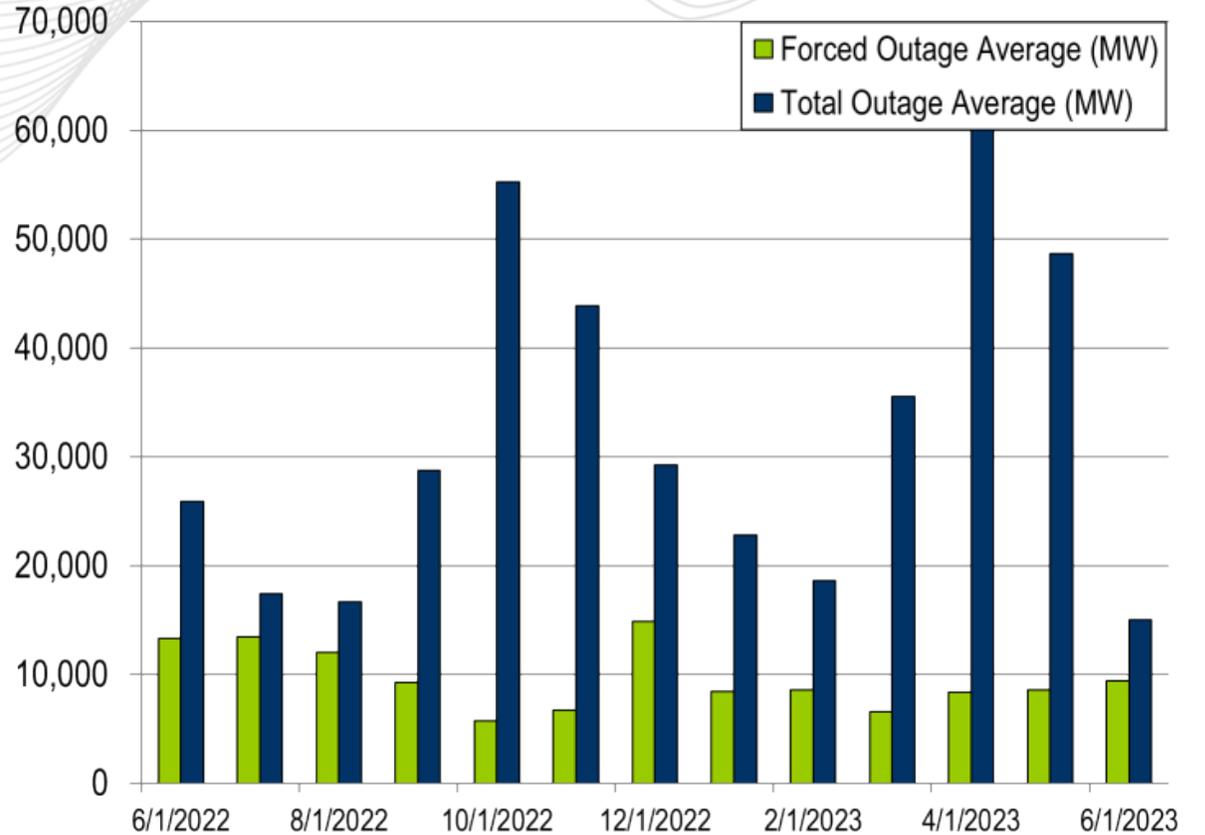
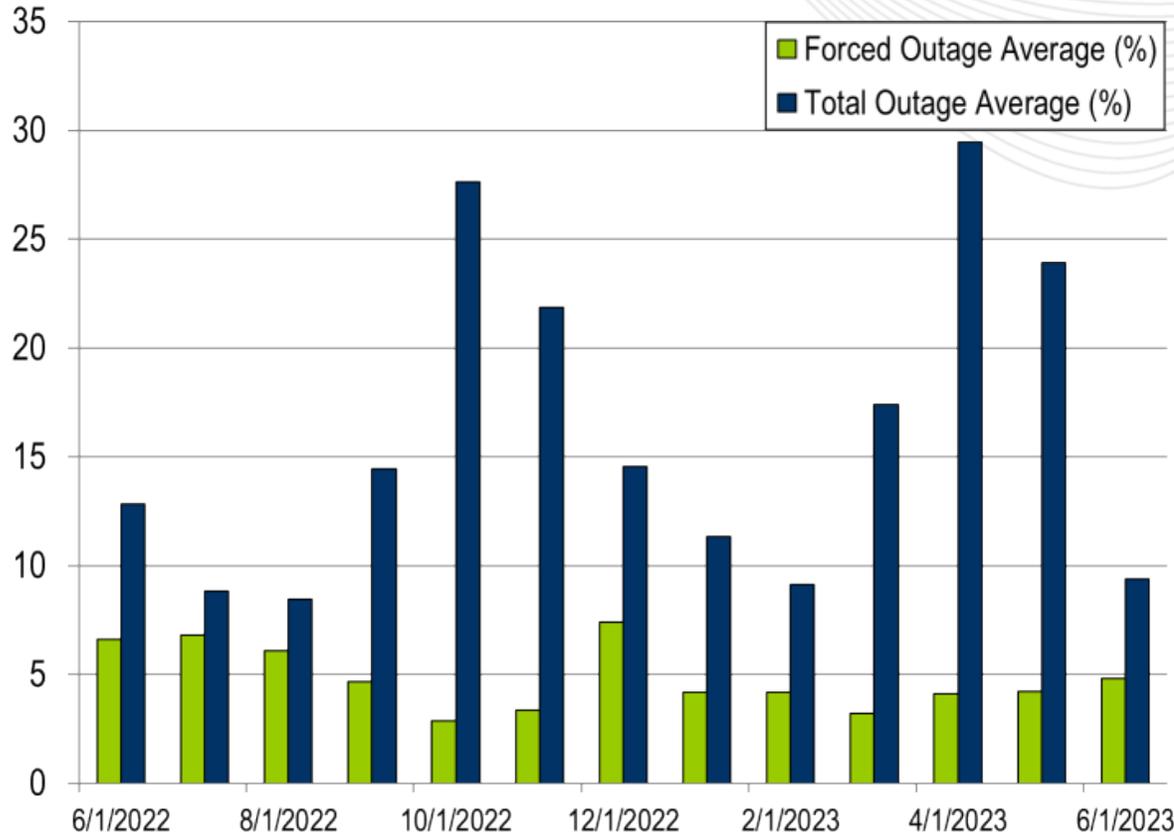




PJM's BAAL performance has exceeded the goal of 99% for each month in 2022 and 2023.

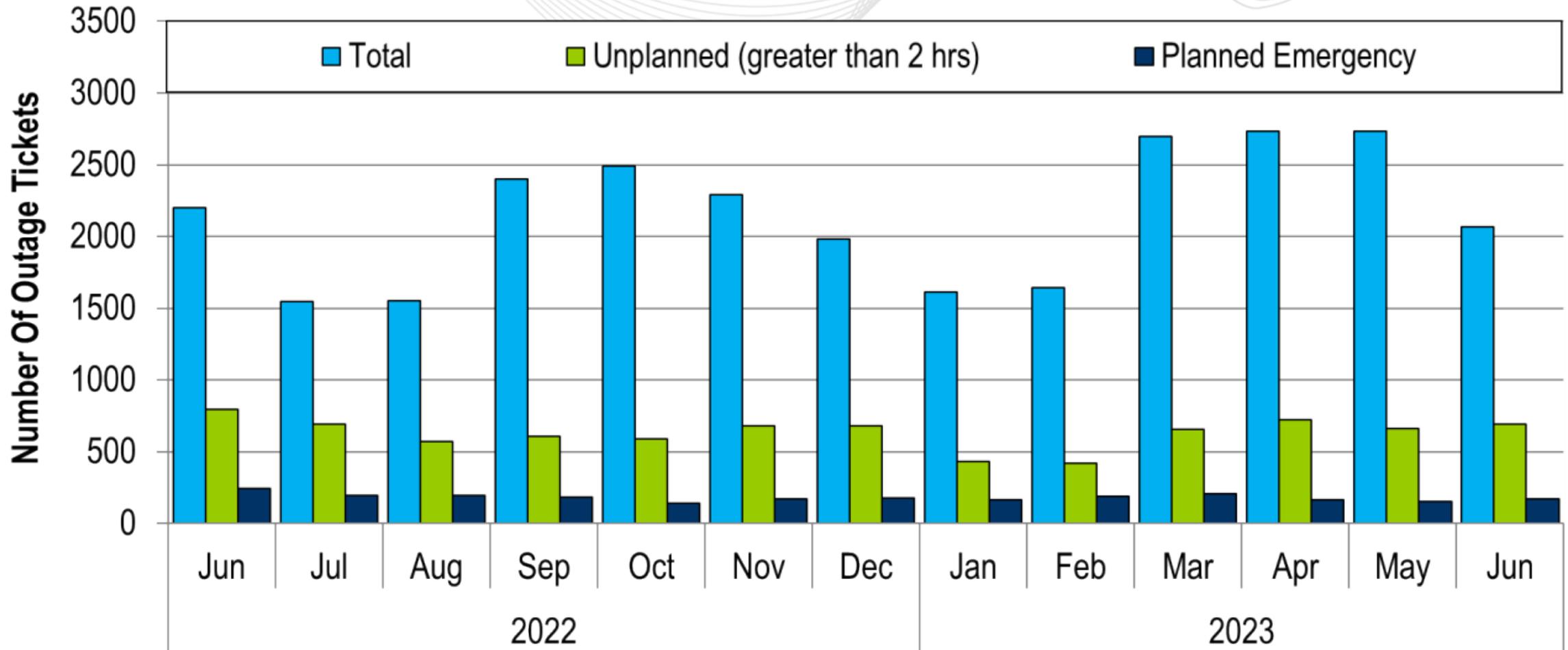
- 2 spinning events
- 2 Shared Reserve events
- The following Emergency Procedures occurred:
 - 1 Hot Weather Alert
 - 5 Post Contingency Local Load Relief Warnings

- There are no approved shortage cases for the month of June 2023



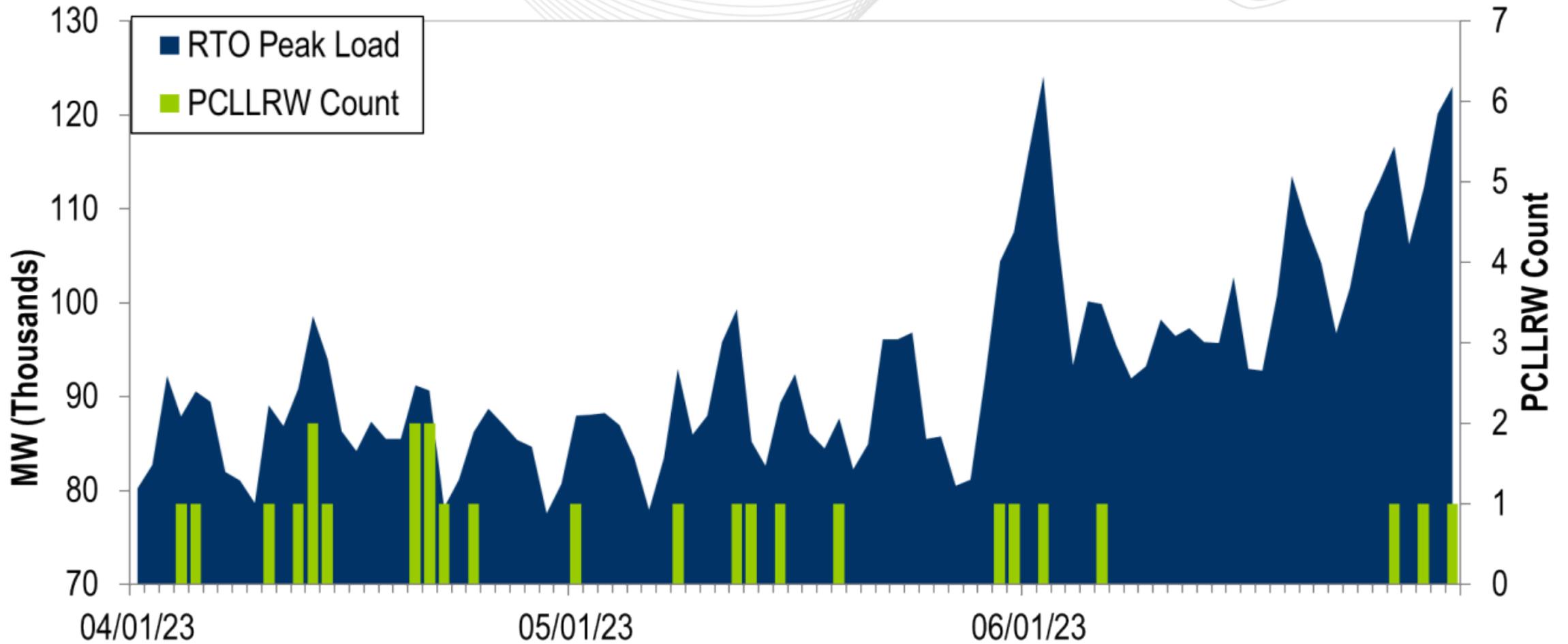
The 13-month average forced outage rate is 4.82% or 9,657 MW.
 The 13-month average total outage rate is 16.13% or 32,231 MW.

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	06/11/23	16:11:47	16:20:31	00:08:44	RTO	2962.2	2962.2	0.0
2	06/23/23	19:05:57	19:12:58	00:07:01	RTO	2998.2	2998.2	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

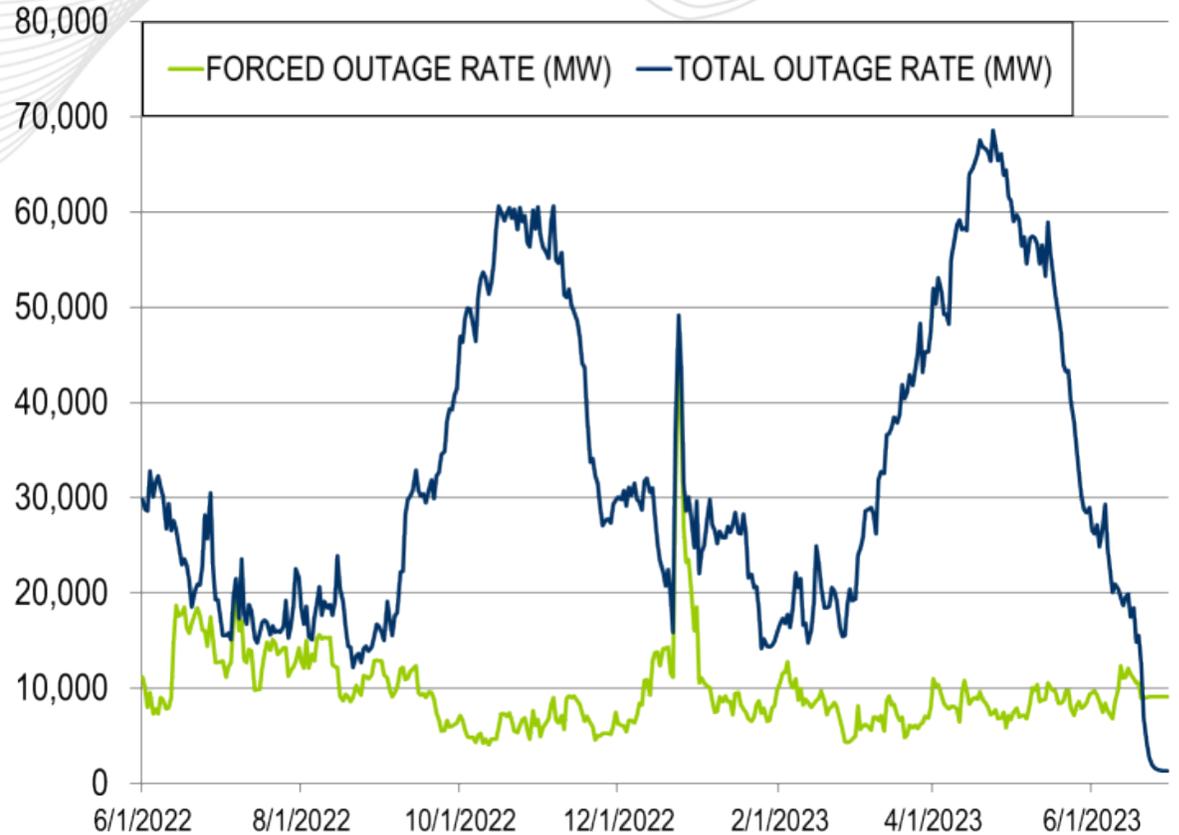
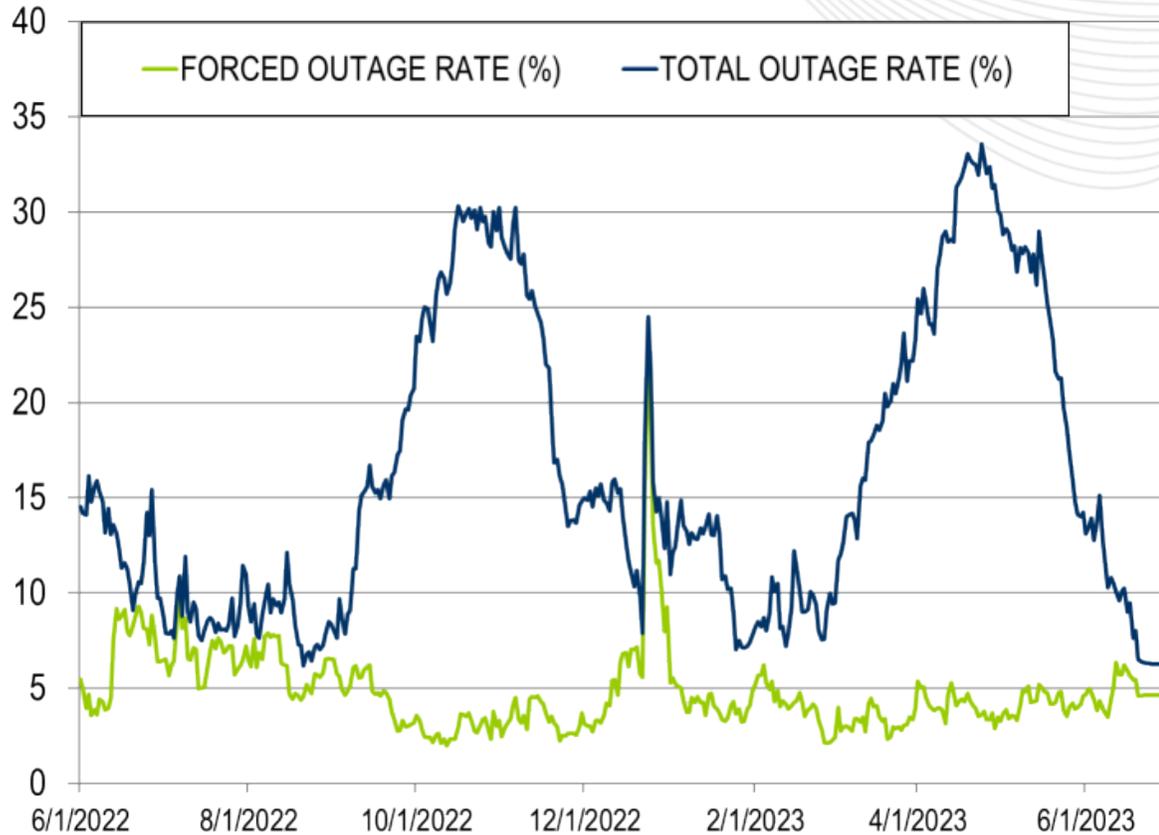
(866) 400 – 8980

custsvc@pjm.com

Appendix

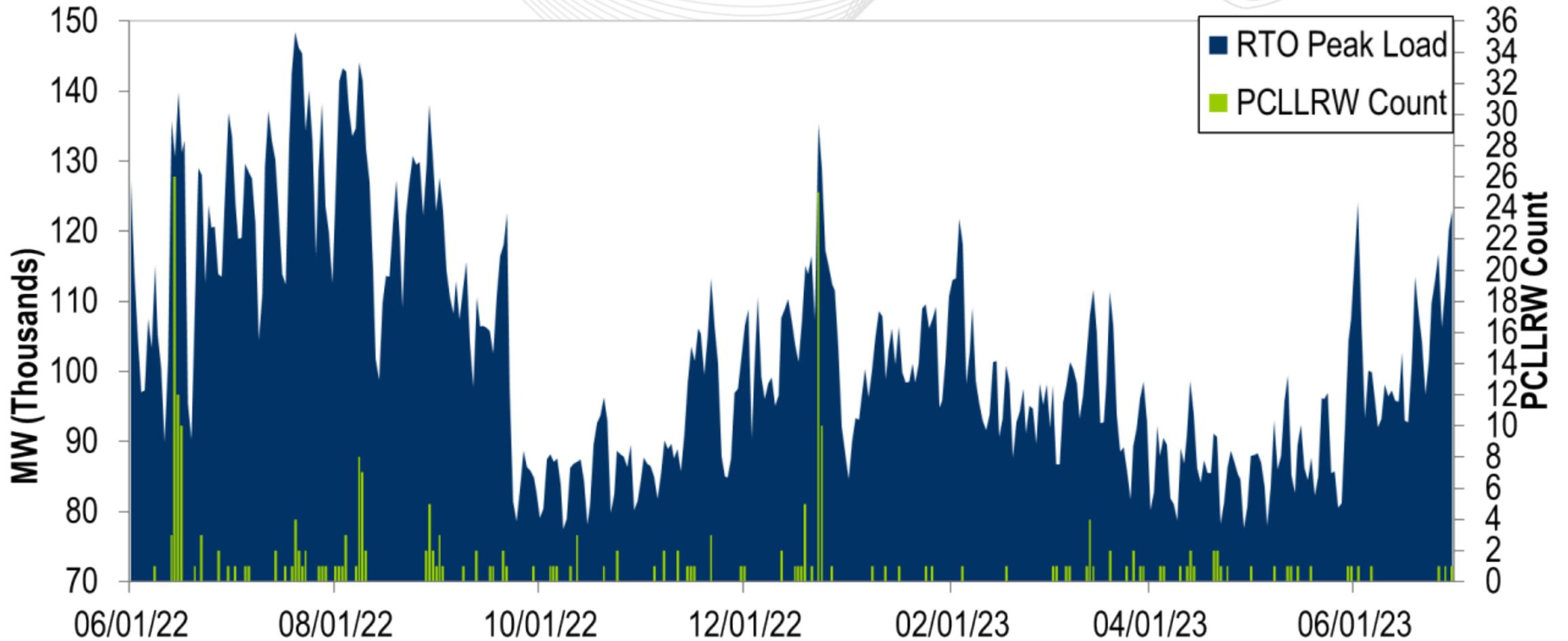
Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.82% or 9,657 MW.
 The 13-month average total outage rate is 16.13% or 32,231 MW.

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



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