System Operations Report

Marcus Smith, Lead Engineer – Operations Uncertainty & Risk

David Kimmel, Sr. Engineer II – Performance Compliance

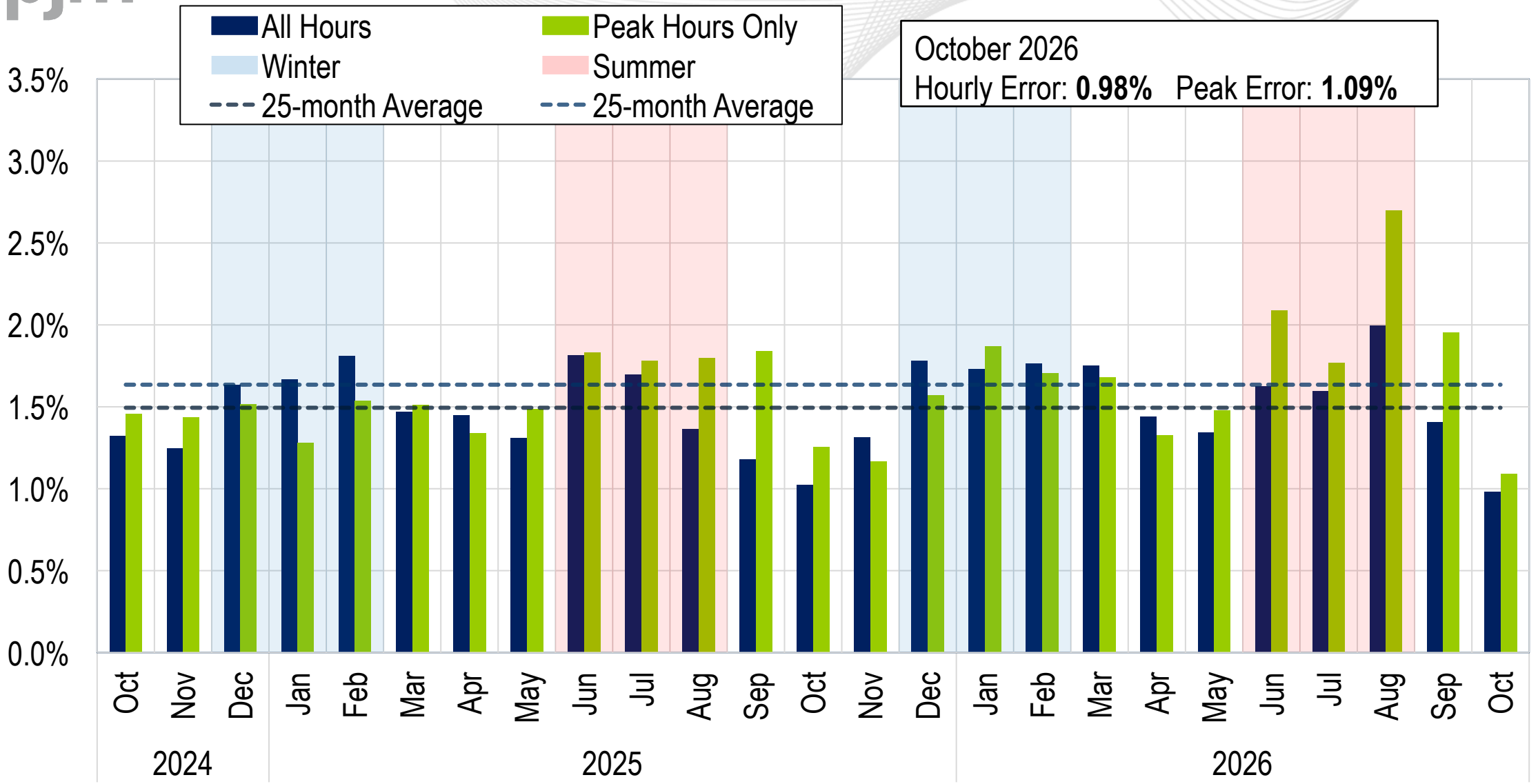
Operating Committee

November 18th, 2026

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

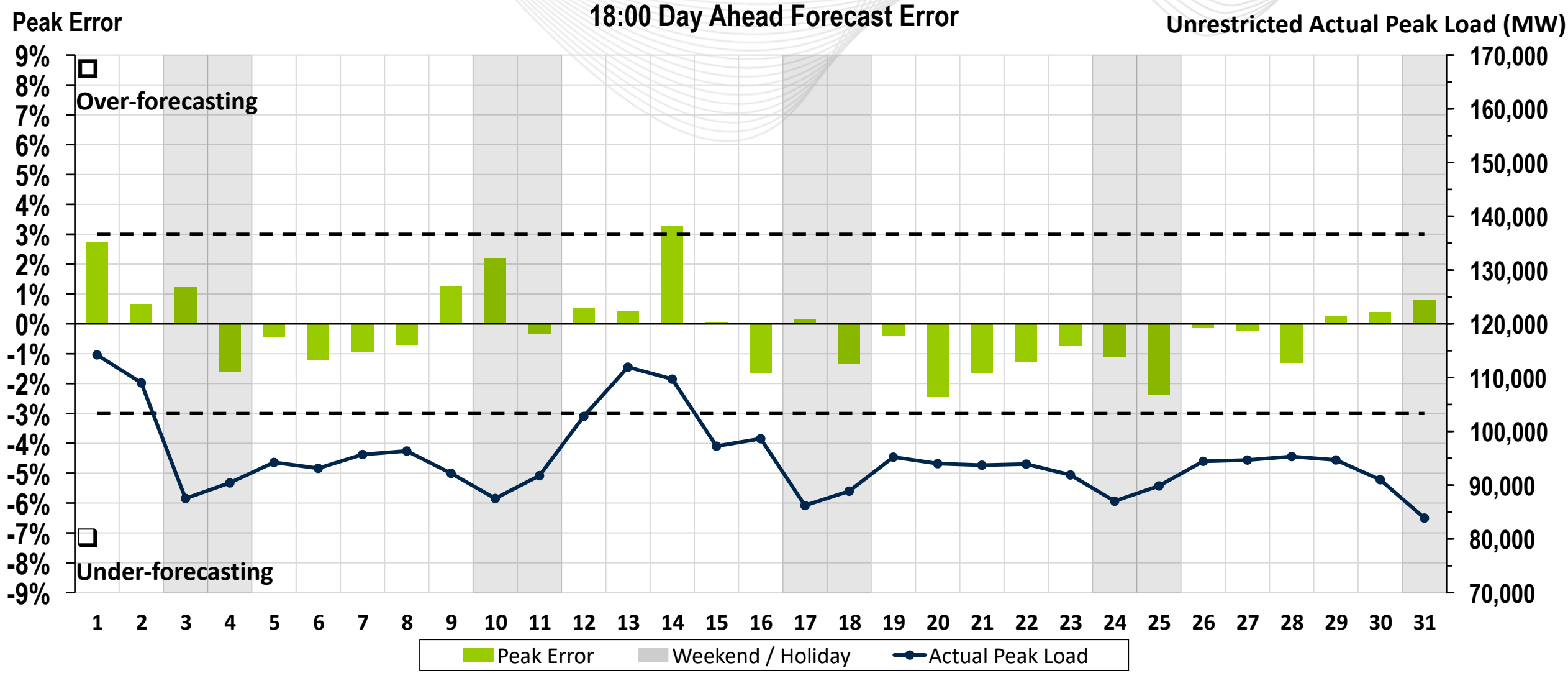
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Average Load Forecast Error



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Daily Peak Forecast Error (October)



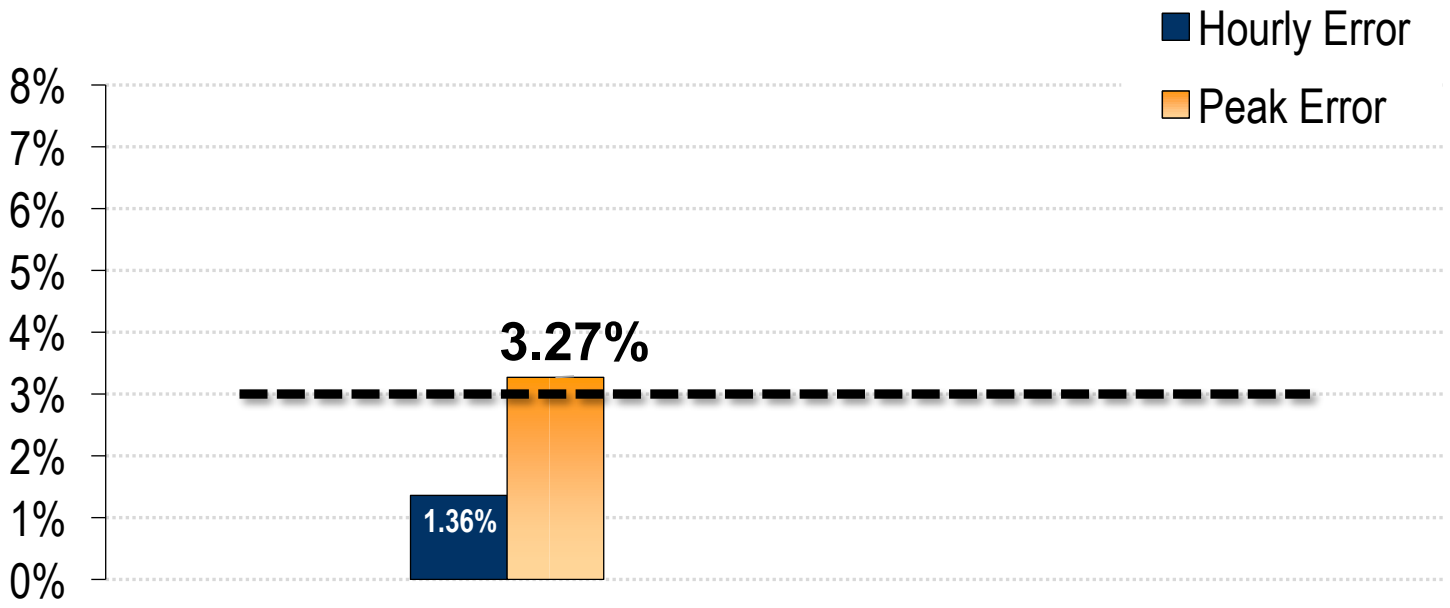
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Days Exceeding 3% Forecast Error at Peak Hour

Over-forecasting

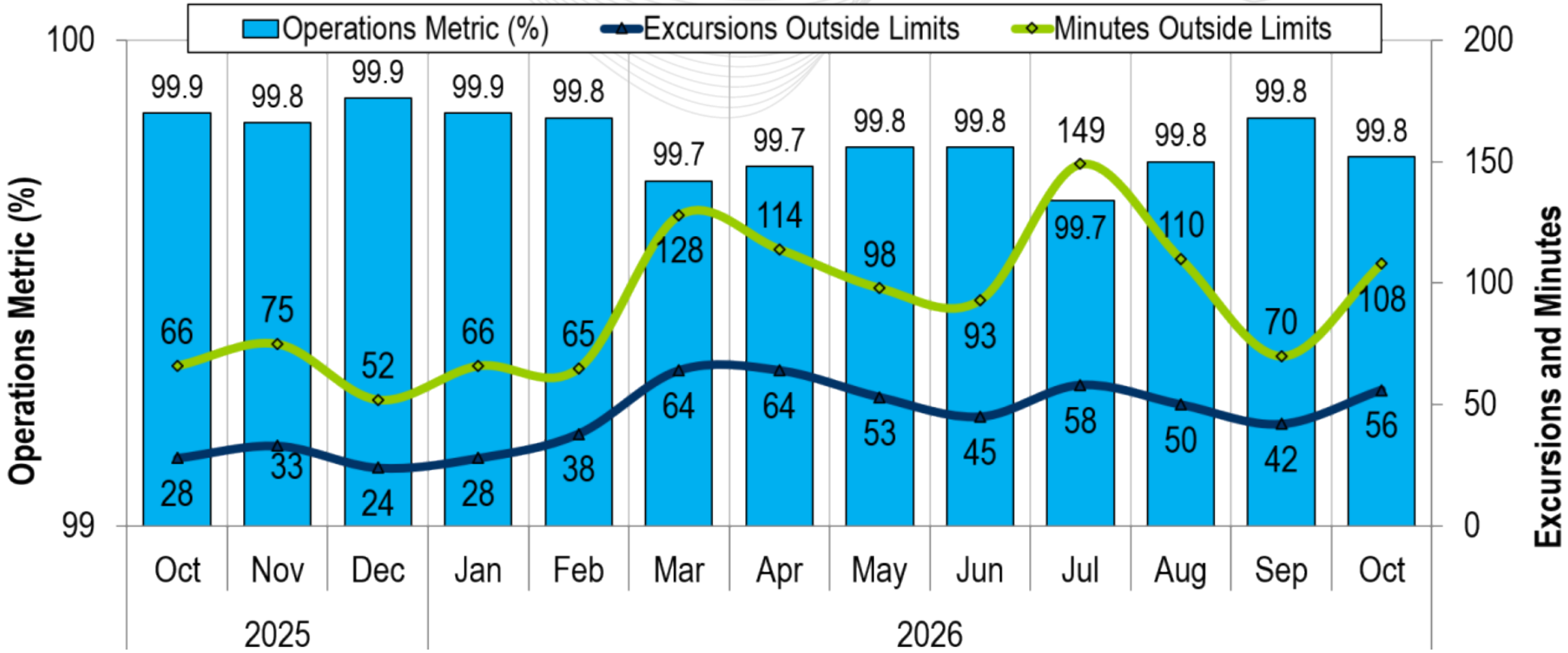
Oct. 14

Rainier and cooler than forecast in the East during the afternoon, leading to decreased load



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Monthly BAAL Performance Score



PJM's BAAL performance has exceeded the goal of 99% for each month in 2025 and 2026.

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Operational Summary

- The following Emergency Procedures occurred:
  - 2 Shared Reserve Events
  - 4 Pre-Emergency Load Management Reduction Actions
  - 2 Maximum Generation/Load Management Alerts
  - 2 NERC EEA Level 1s
  - 1 Geomagnetic Disturbance Warning
  - 15 Post Contingency Local Load Relief Warnings

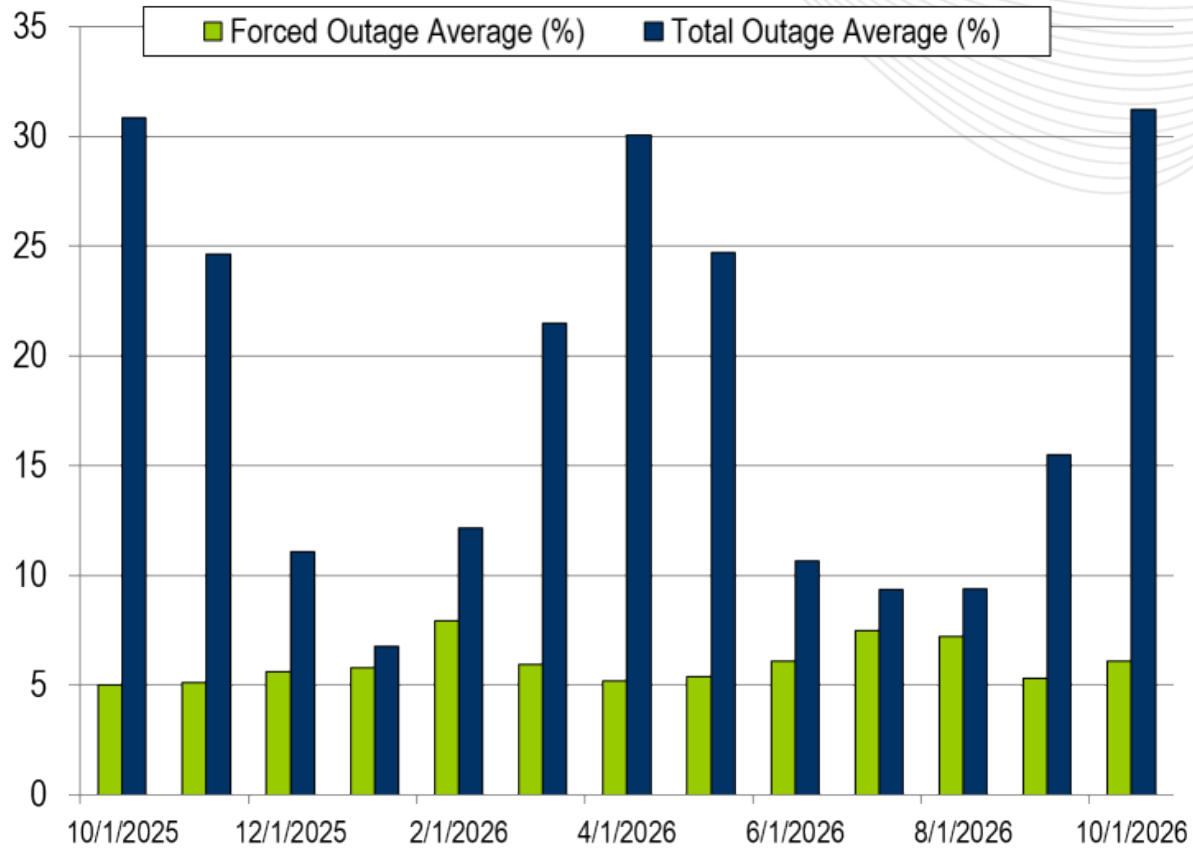
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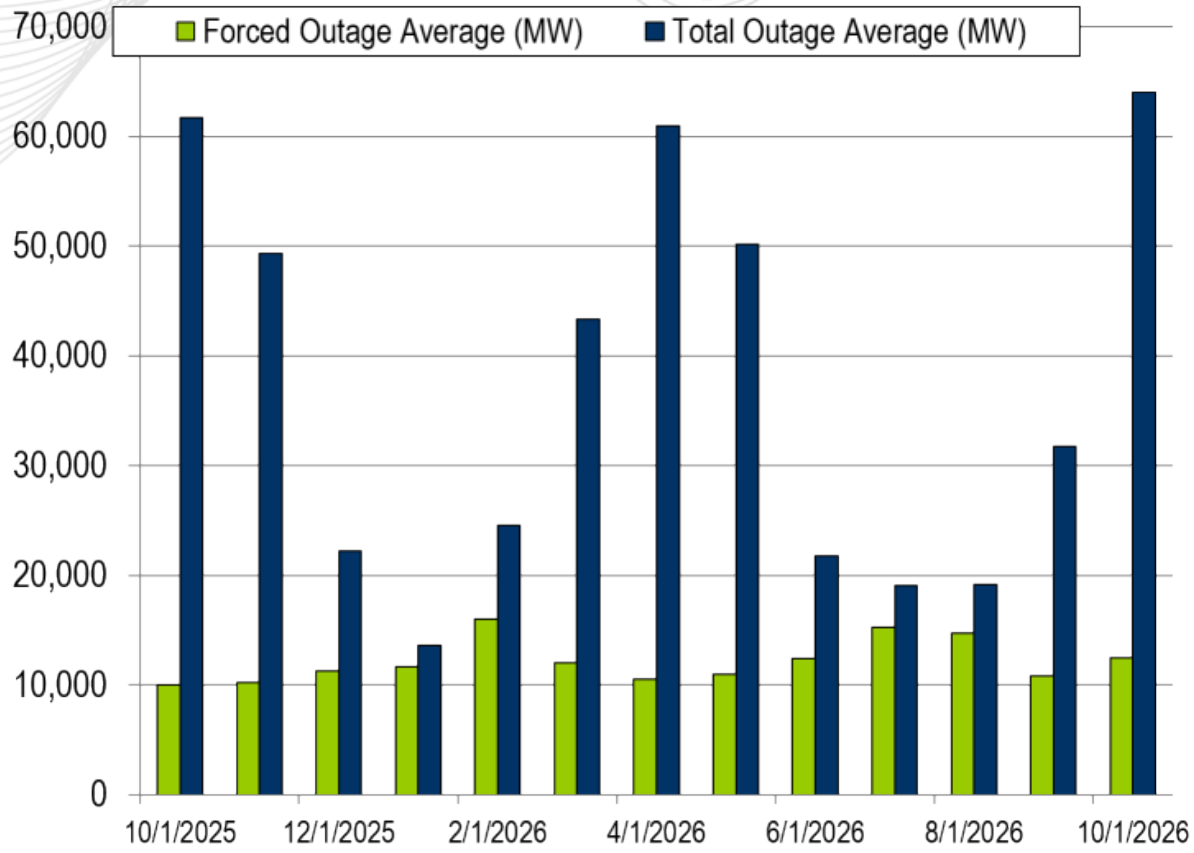
Shortage Case Approvals

- 13 Shortage Cases Approved
- The approved Shortage Cases occurred on:
  - 10/07/2026:
    - 6 shortage cases approved for the 21:50, 21:55, and 21:59 intervals
    - Factors: Ramp Limited Conditions
  - 10/27/2026:
    - 7 shortage case approved for the 22:05, 22:10, and 22:15 intervals
    - Factors: Constraints Binding Generation

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RTO Generation Outage Rate - Monthly

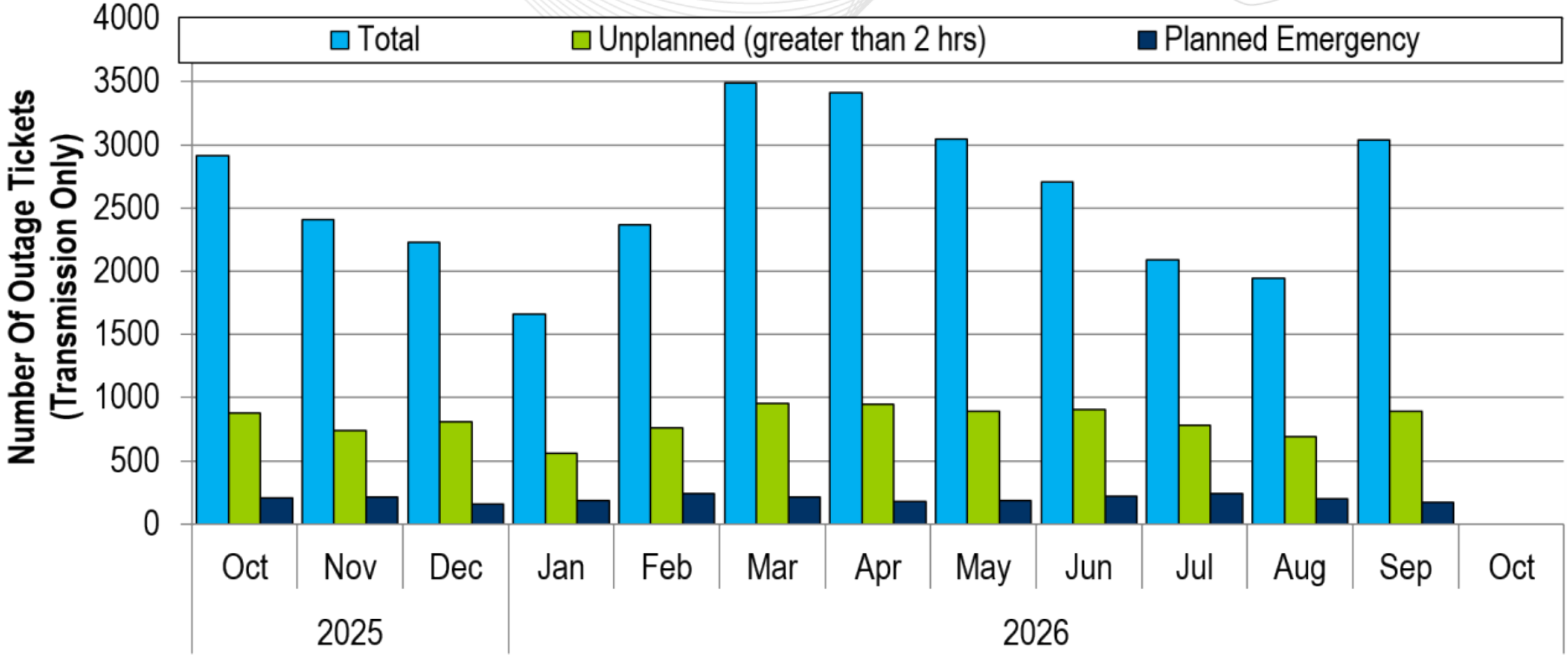




The 13-month average forced outage rate is 6.00% or 12,148 MW.
The 13-month average total outage rate is 18.30% or 37,055 MW.

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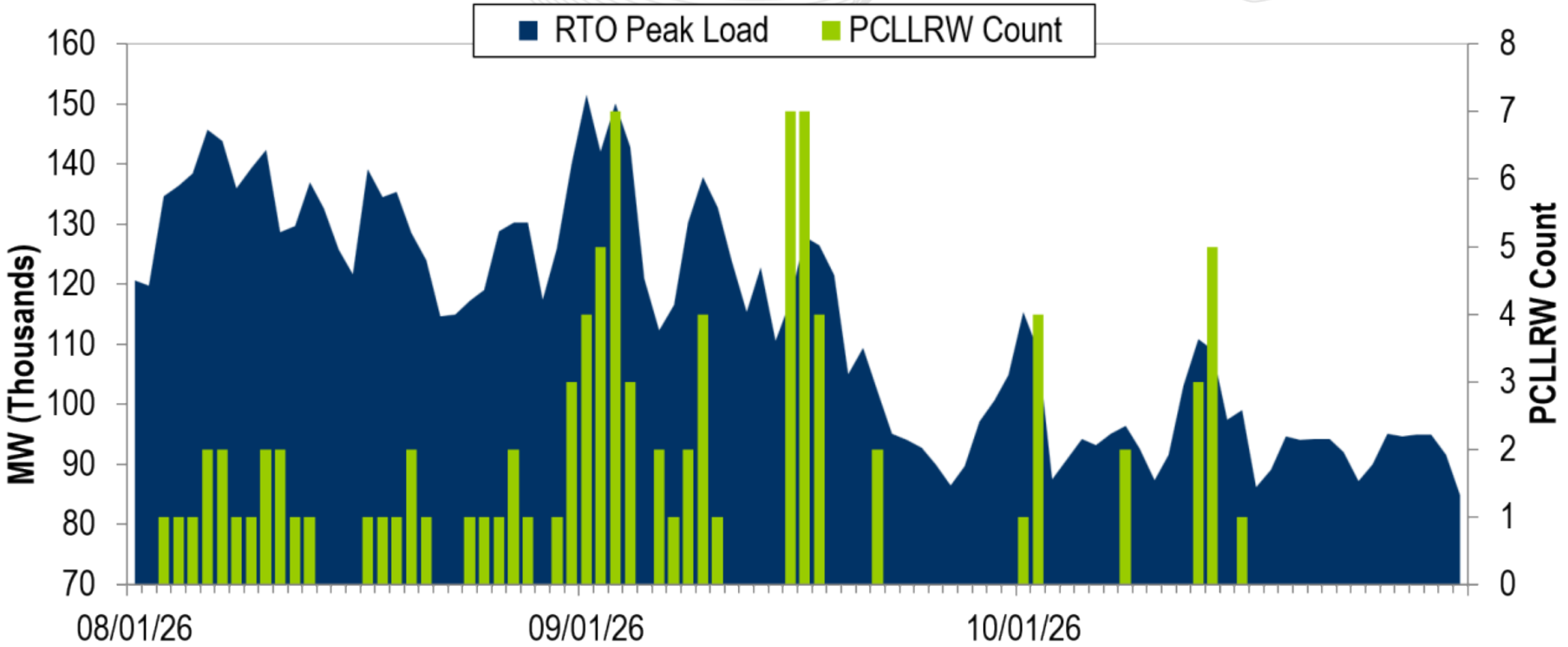
2025-2026 Planned Emergency, Unplanned, and Total Outages by Ticket (Transmission Only)



Note: “Unplanned Outages" include tripped facilities. One tripping event may involve multiple facilities.

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PCLLRW Count Vs. Peak Load – Daily Values For 3 Months



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Spin Response

There were no Spin Reserve Events in October 2026

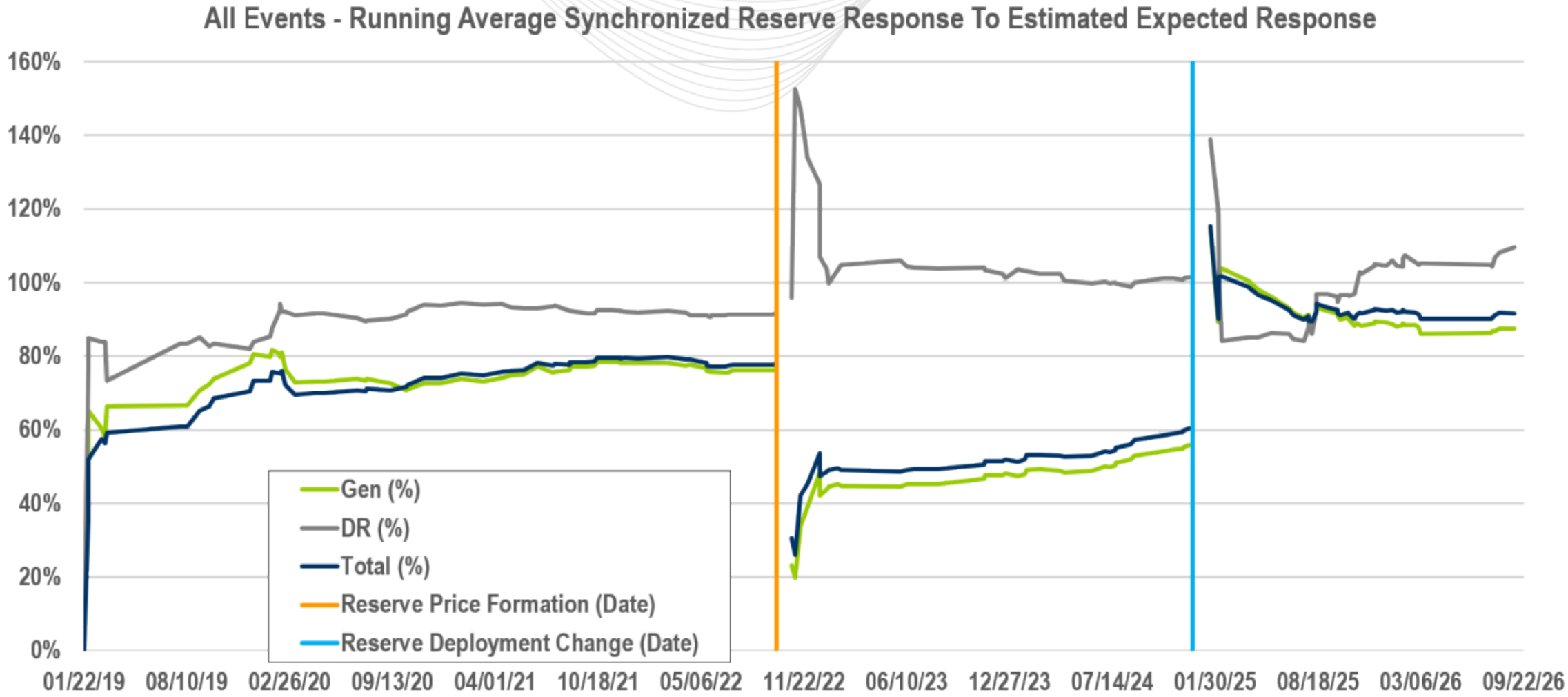
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Synchronized Reserve Historical Changes

- Reserve Price Formation (RPF)
    - Implemented on October 1, 2022
    - Consolidated Synchronized Reserve Tier 1 and Tier 2
- Increase of Synchronized Reserve Requirement to 130%
    - Implemented on May 2023
    - In response to Synchronized Reserve performance following RPF and Winter Storm Elliott
- Reserve Deployment Changes
    - Implemented on December 17, 2024
    - Automatically added the Synchronized Reserve assignment to the unit's basepoint
    - PJM dispatch can deploy less than 100%
- Procedure/rules created for changing the Synchronized Reserve Requirement
    - Implemented on April 1, 2025
    - Retroactive starting on January 1, 2025

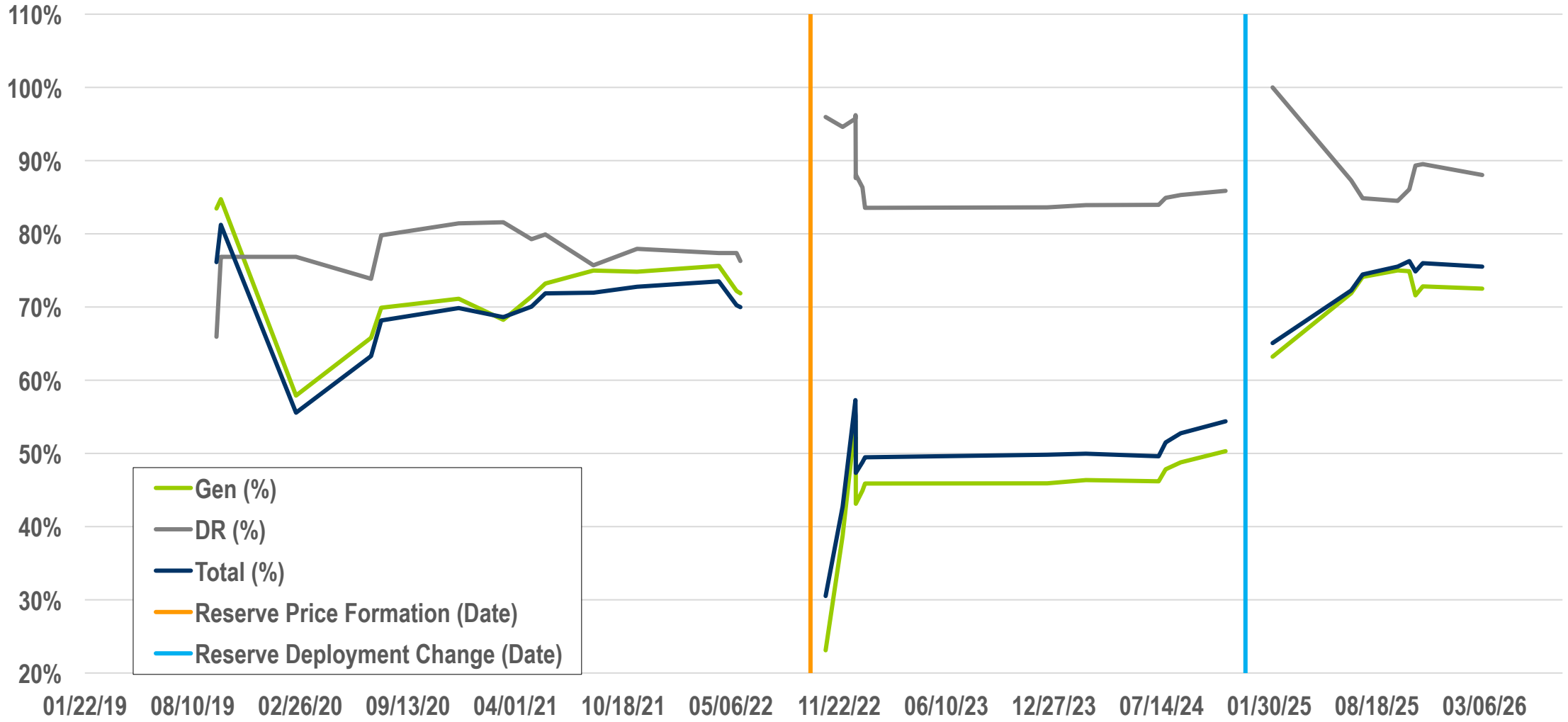
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All Events: Running Average Synchronized Reserve Response To Estimated Expected Response



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10+ Minute Events: Running Average Synchronized Reserve Response To Assignment



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Contact

Load Forecast Report

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System Operations Report

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Appendix

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Balancing Authority ACE Limit - Performance Measure

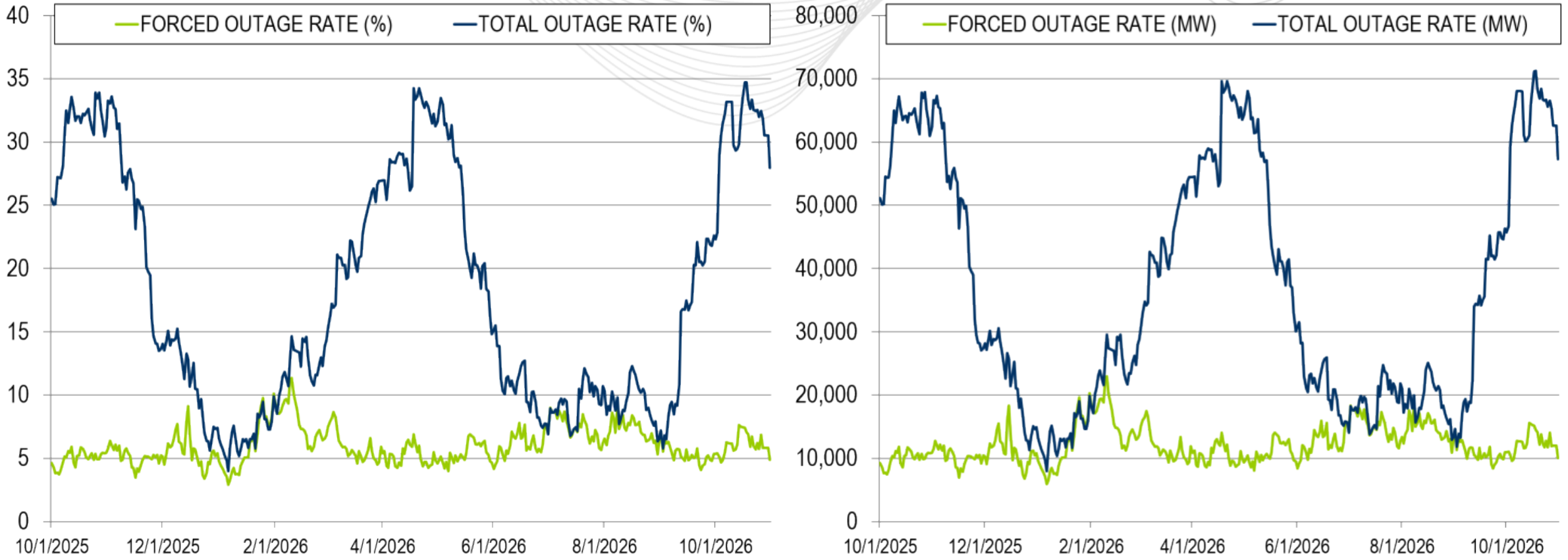
Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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.

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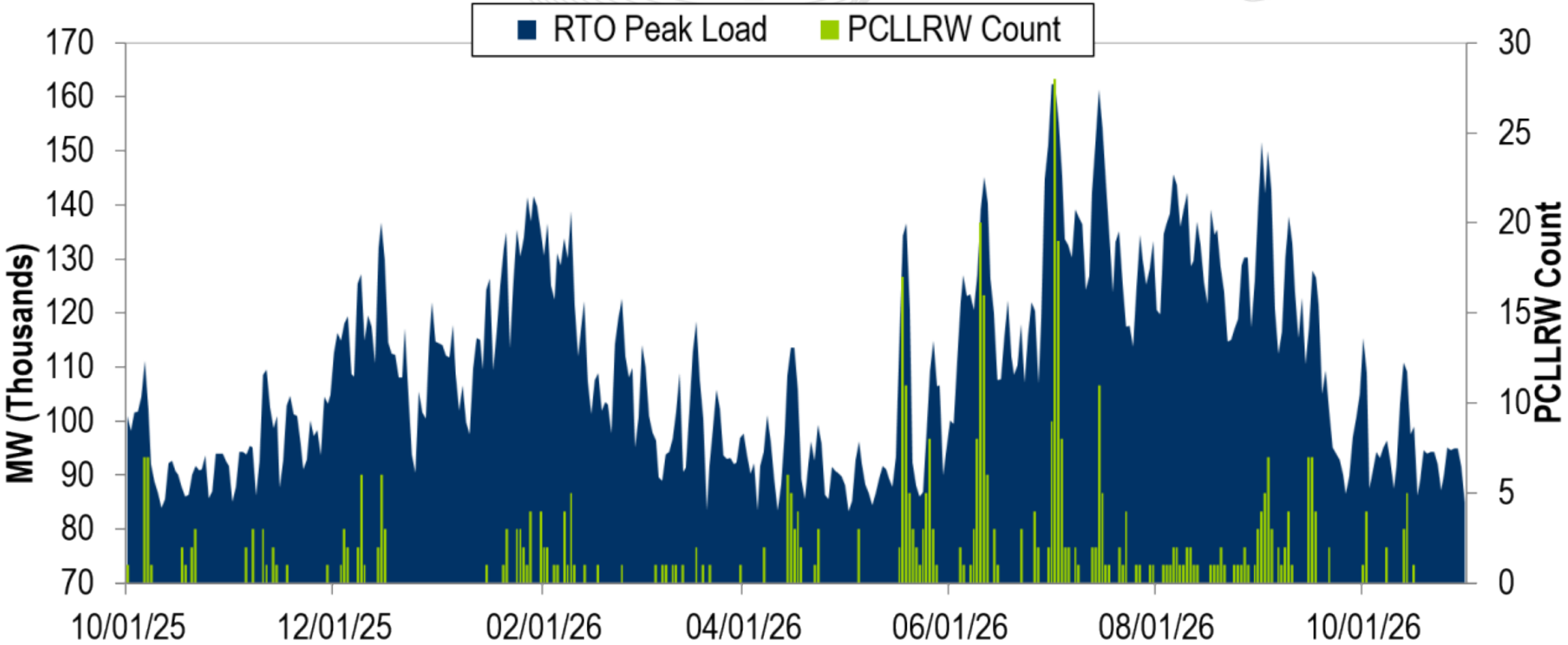
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PCLLRW Count Vs. Peak Load – Daily Values For 13 Months



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