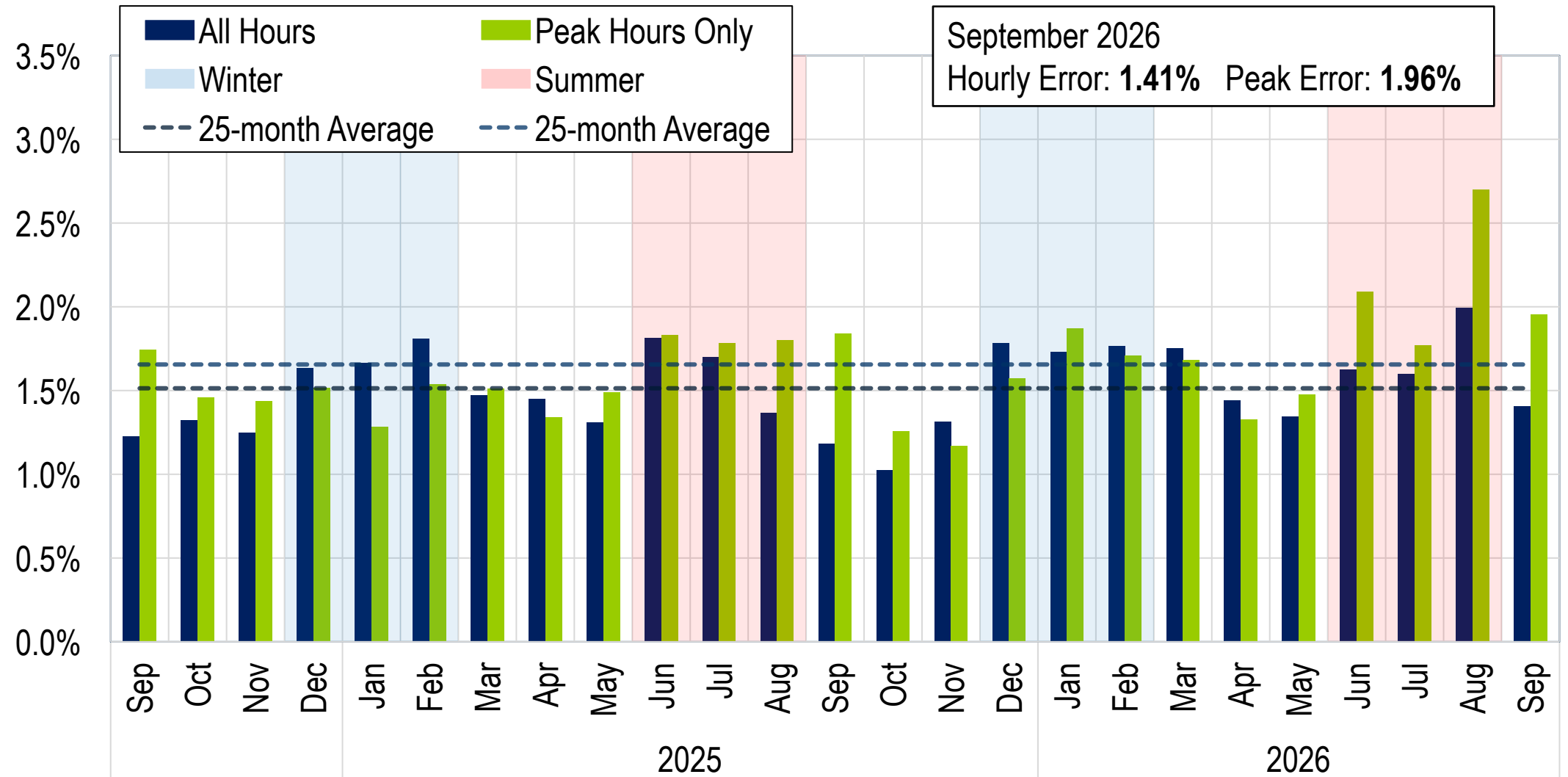


System Operations Report

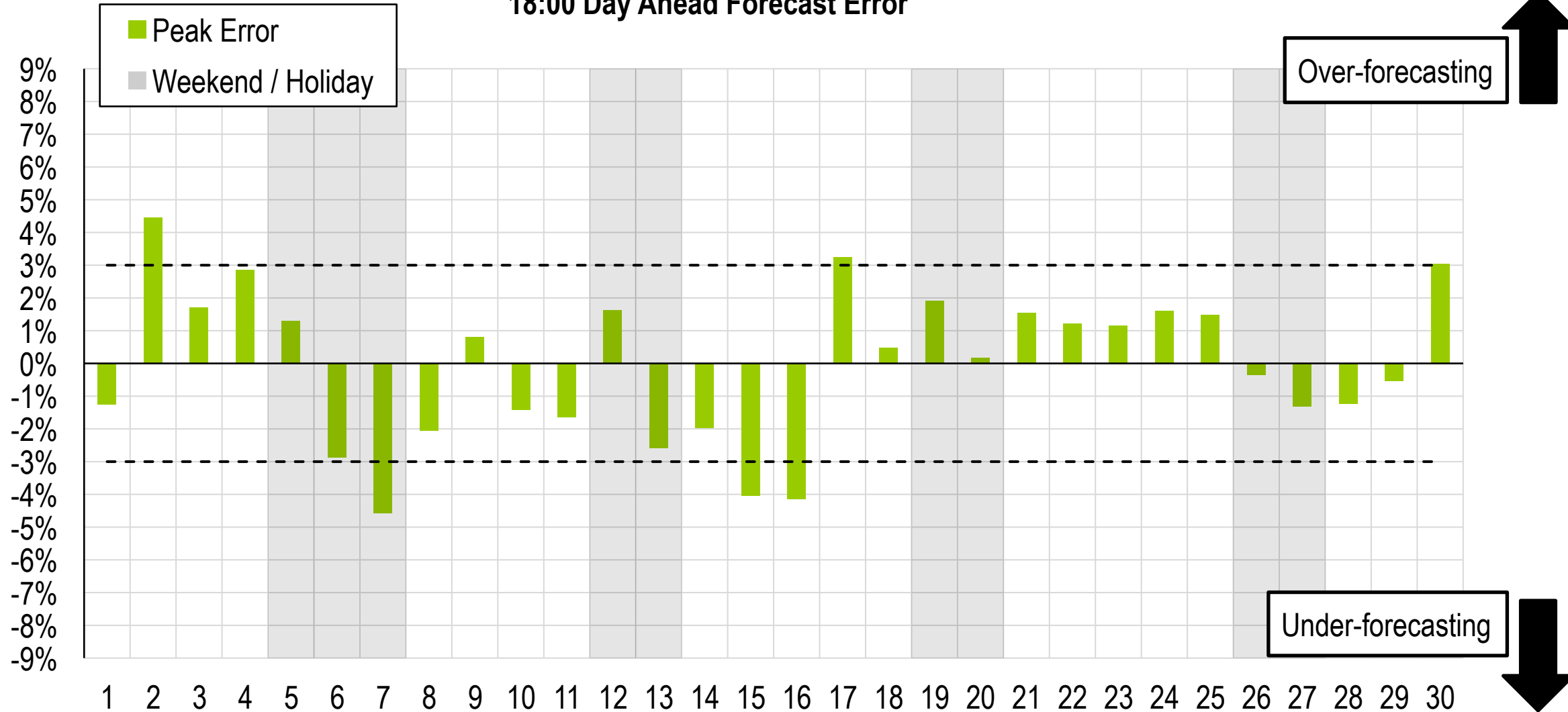
Timothy Smoker, Lead Engineer –
Operations Uncertainty & Risk
David Kimmel, Sr. Engineer II –
Performance Compliance
Operating Committee
October 8th, 2026

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



Daily Peak Forecast Error (September)

18:00 Day Ahead Forecast Error



Days Exceeding 3% Forecast Error at Peak Hour

Over-forecasting

Sep. 2

Significantly cooler and rainier than forecast in the East, leading to decreased load.

Sep. 17

Cooler temperatures and rain occurring earlier than forecast in the East, leading to lower load.

Sep. 30

Temperatures were cooler than forecast across the footprint, leading to lower load.

Under-forecasting

Sep. 7

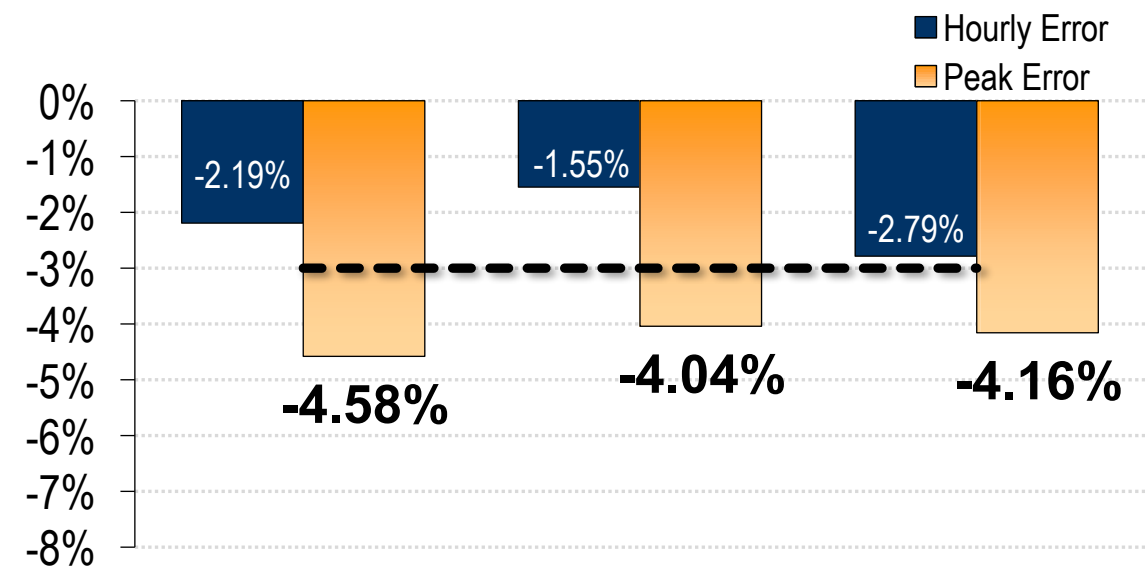
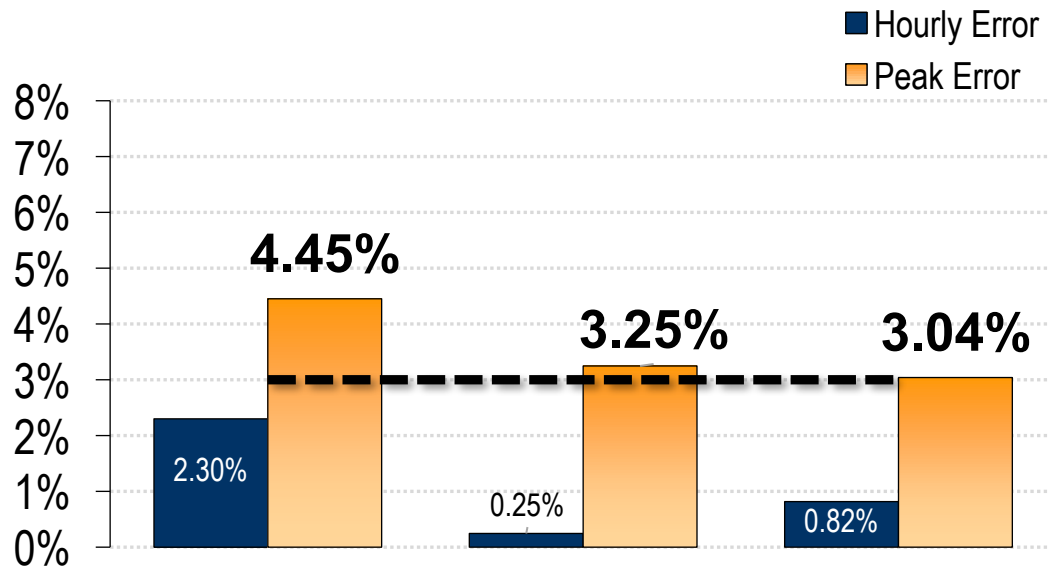
Temperatures were hotter than forecast across the RTO, leading to higher load.

Sep. 15

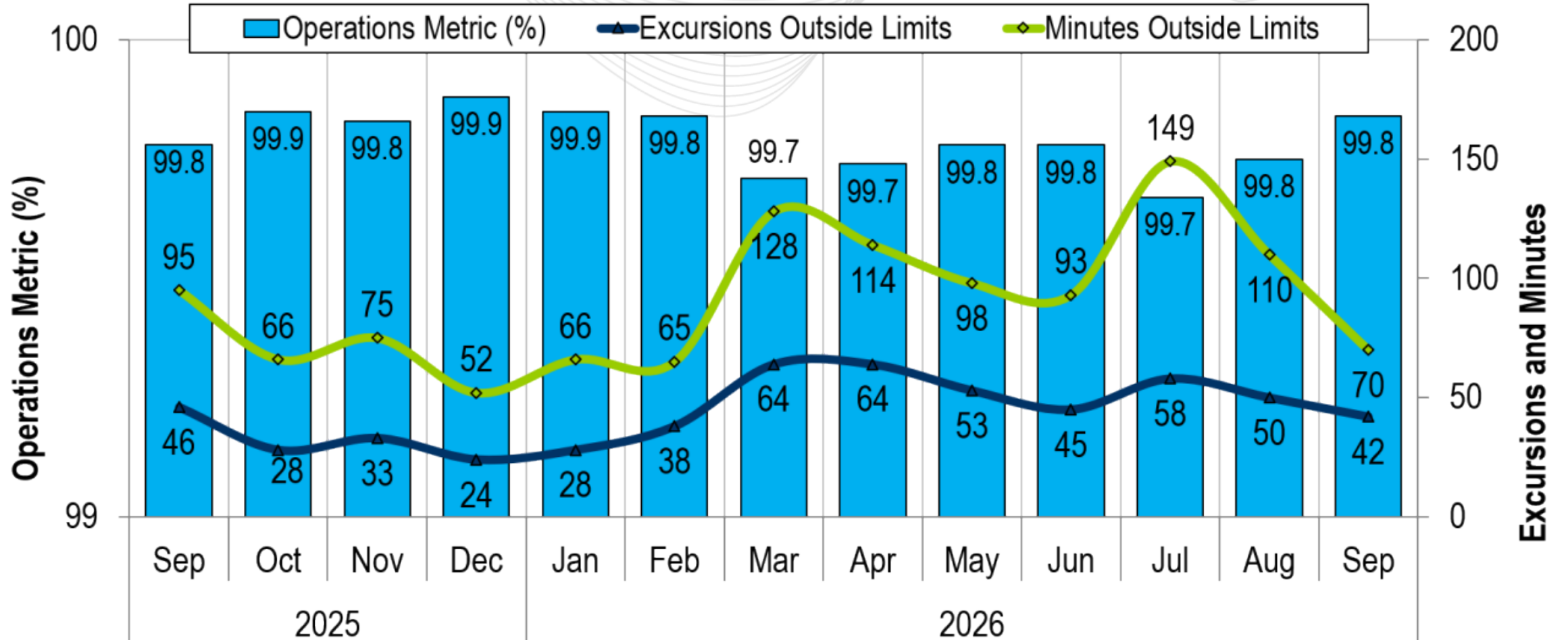
Temperatures were hotter and more humid than forecast across the RTO, leading to higher load.

Sep. 16

Temperatures were hotter and more humid than forecast across the RTO, leading to higher load.



Monthly BAAL Performance Score

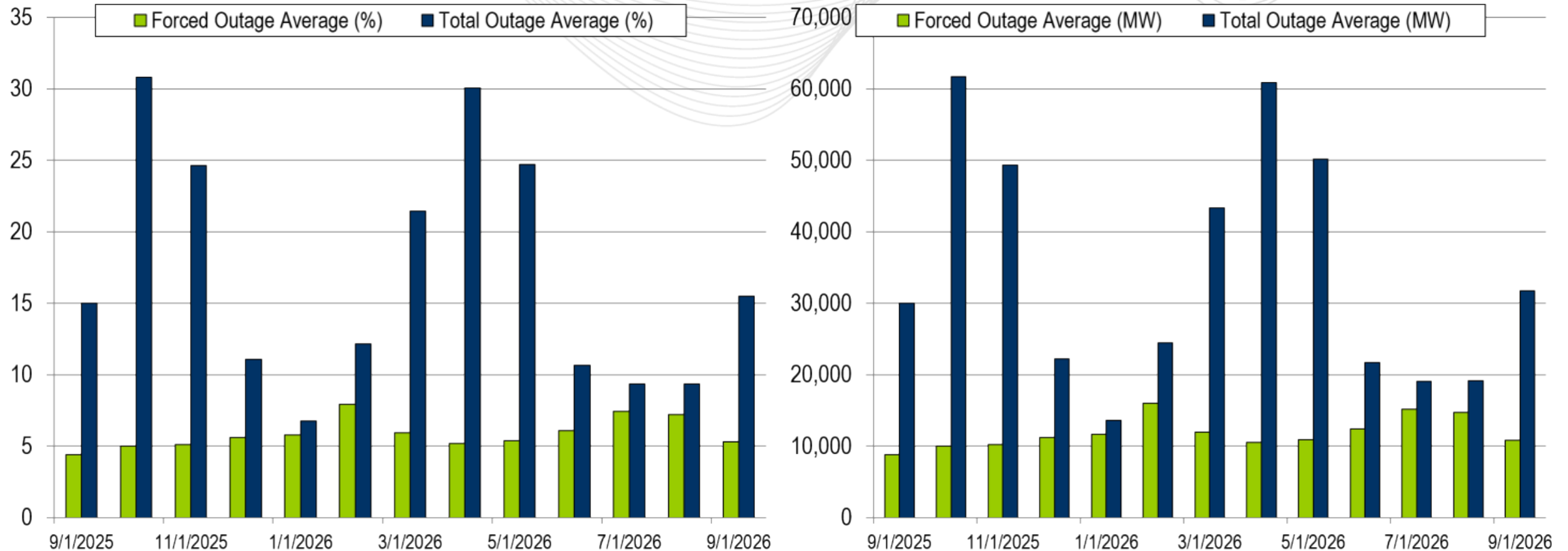


PJM's BAAL performance has exceeded the goal of 99% for each month in 2025 and 2026.

- The following Emergency Procedures occurred:
 - 1 Spin Event
 - 3 Shared Reserve Events
 - 4 Maximum Generation Emergency/Load Management Alert
 - 1 Emergency Load Management Reduction Action
 - 2 Pre-Emergency Load Management Reduction Actions
 - 2 Hot Weather Alerts
 - 5 NERC EEA Level 1s
 - 49 Post Contingency Local Load Relief Warnings

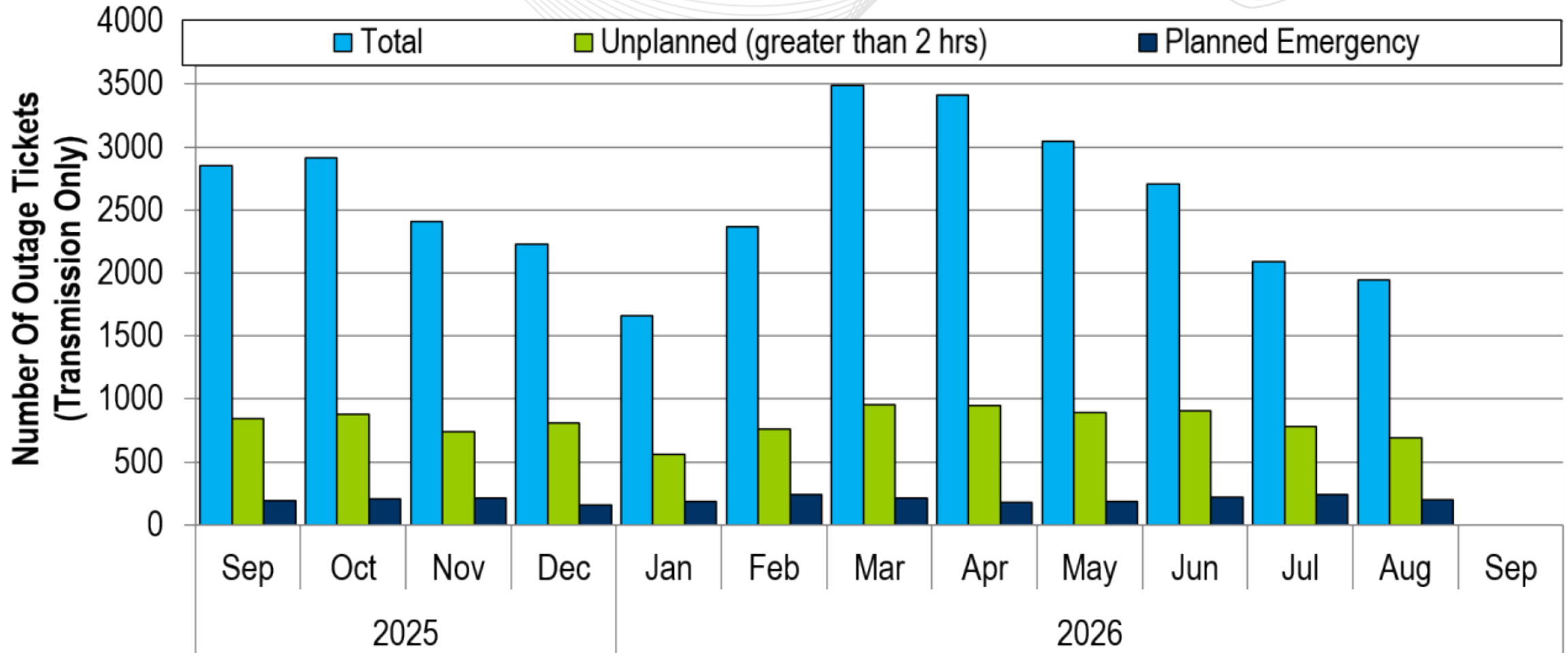
- 36 Shortage Cases Approved
- The approved Shortage Cases occurred on:
 - 09/15/2026:
 - 2 shortage cases approved for the 19:05 and 19:15 intervals
 - Factors: Factors: Peak load coming in above forecast with transmission at the time being the main issue. A TLR 3A was issued for the transmission constraint and exports were curtailed
 - 9/16/2026:
 - 34 shortage case approved for the 17:50 – 18:50 intervals
 - Factors: Multiple constraints holding down generating in the east during net peak load

RTO Generation Outage Rate - Monthly



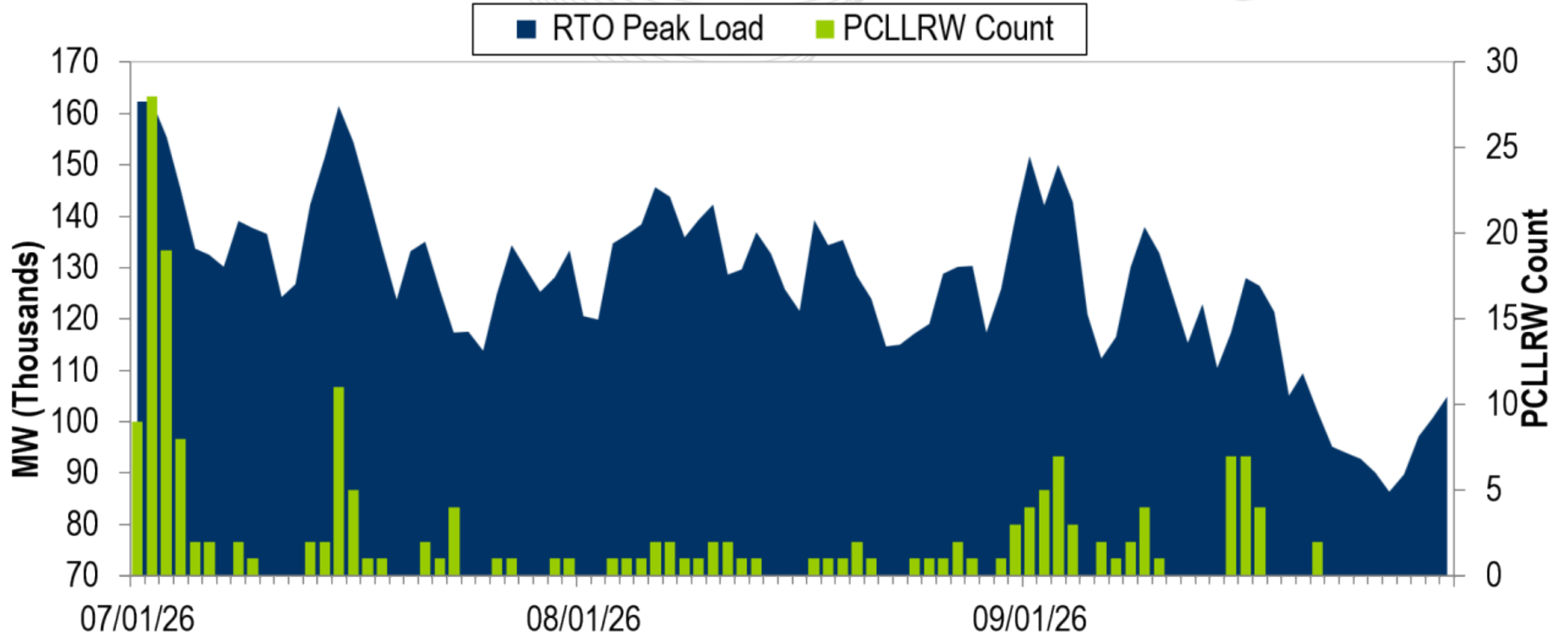
The 13-month average forced outage rate is 5.87% or 11,871 MW.
The 13-month average total outage rate is 17.07% or 34,469 MW.

2024-2025 Planned Emergency, Unplanned, and Total Outages by Ticket (Transmission Only)



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

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



Event	1		
Date	09/03/26		
Start Time	05:33:09		
End Time	05:37:33		
Duration	00:04:24		
Region	RTO		
Resource Type	Gen	DR	Total
Assigned (MW)	3885	132	4017
Estimated Expected Response of Assigned Resources (MW)	1709	58	1767
Actual Response of Assigned Resources (MW)	1513	95	1609
Output Increase of Resources without Assignment (MW)	1499	0	1499
Percent Response To Assignment (%)	39%	72%	40%
Percent Response To Estimated Expected Response (%)	89%	164%	91%
Penalty (MW)	0	0	0

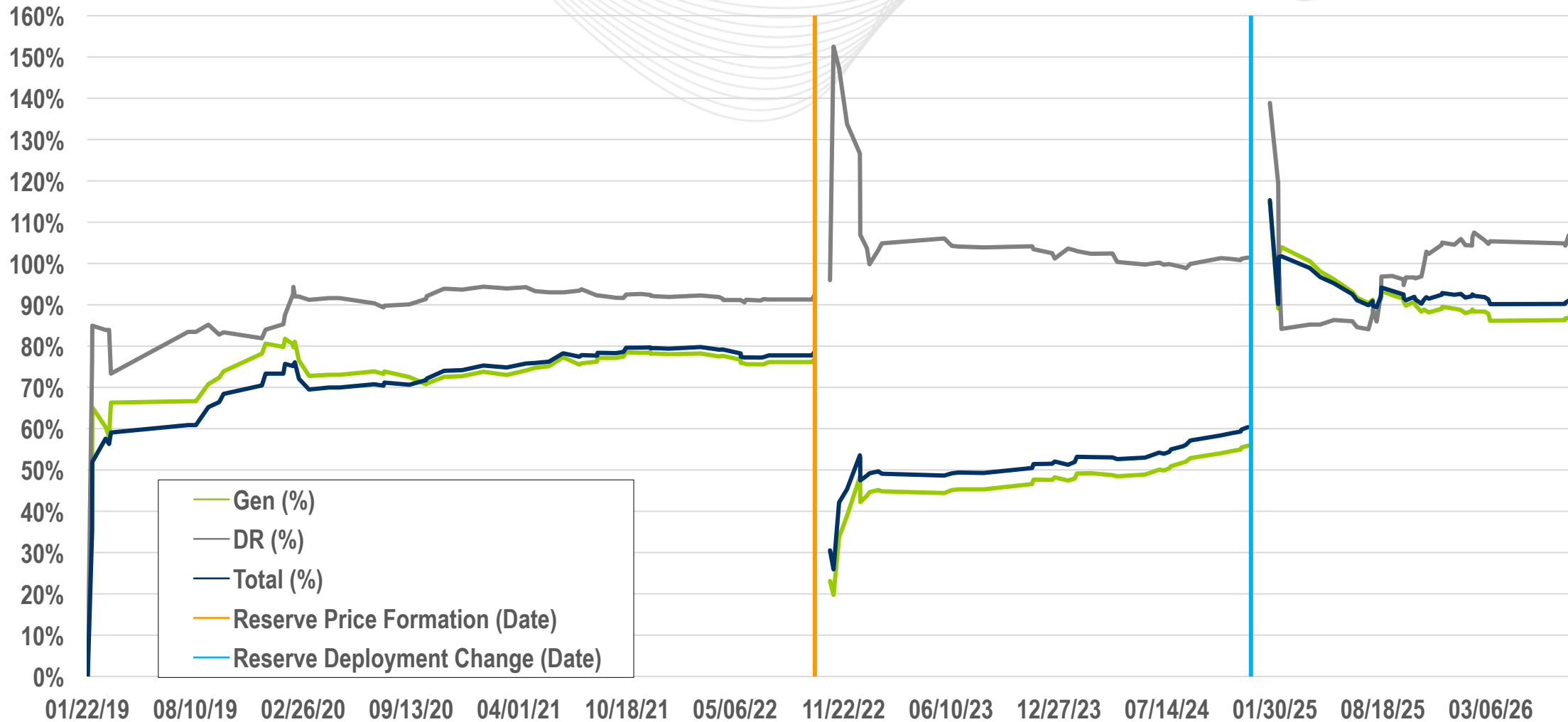
Event Counted Toward Qualifying Events	Qualifying Reason	Individual Percent Response To Assignment (%)	Average Percent Response To Assignment (%)
03/01/26 19:29:03	≥10 Minutes	71.0%	71.0%



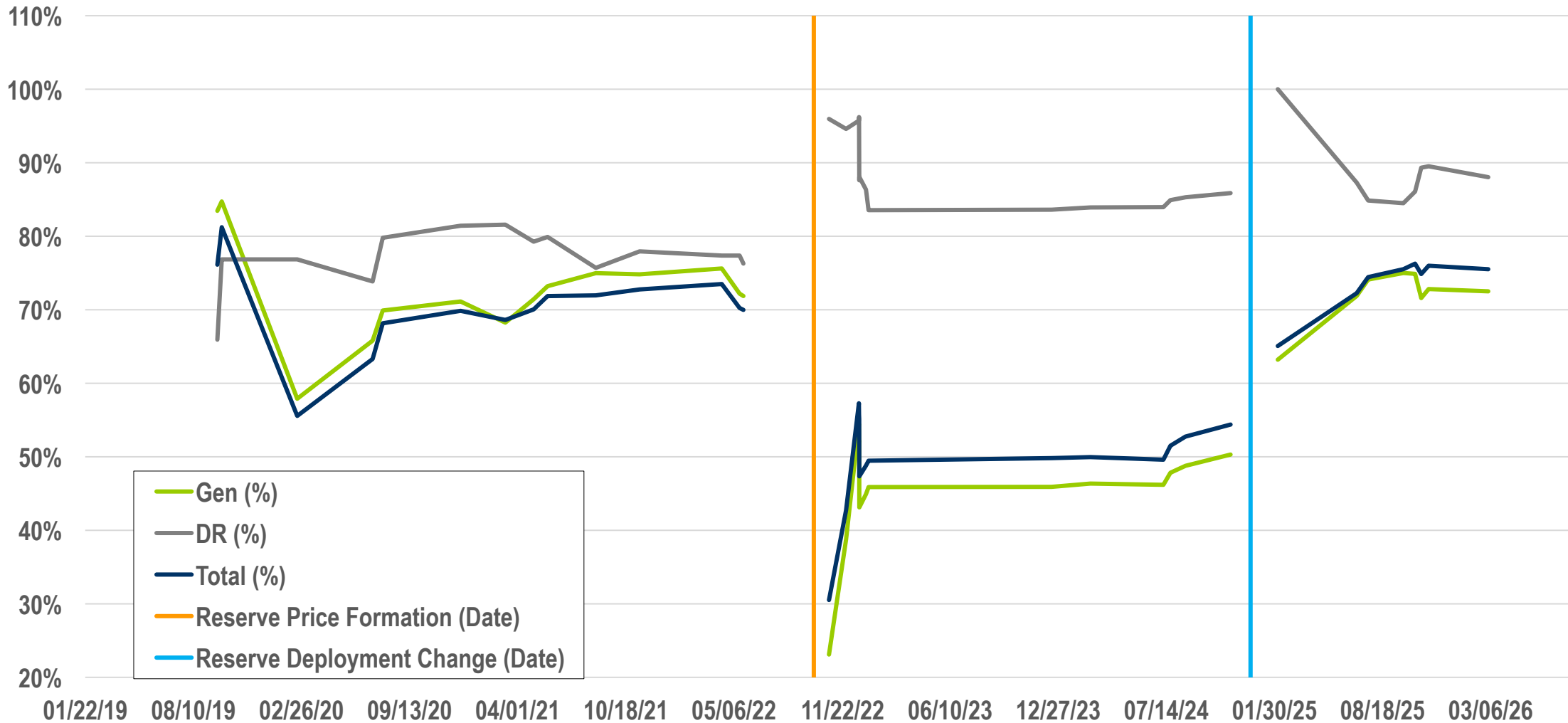
Synchronized Reserve Historical Changes

- 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

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



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



Load Forecast Report

Presenter/SME:

Timothy Smoker,
Timothy.Smoker@pjm.com

System Operations Report

Presenter:

David Kimmel,
David.Kimmel@pjm.com

SME:

Ross Kelly,
Ross.Kelly@pjm.com

A green speech bubble containing a white question mark, positioned above a blue speech bubble with three horizontal lines, indicating a question or contact point.

?

Member Hotline

(610) 666 – 8980

(866) 400 – 8980

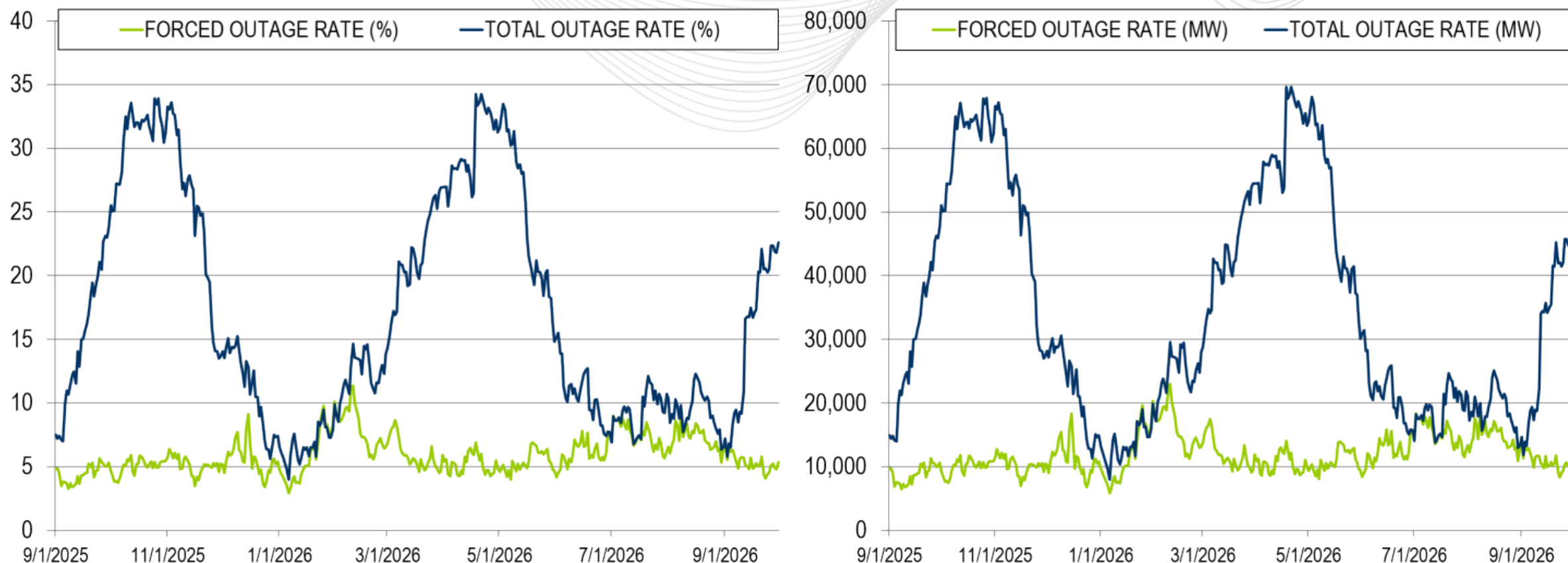
custsvc@pjm.com

Appendix

Goal Measurement: Balancing Authority ACE Limit (BAAL)

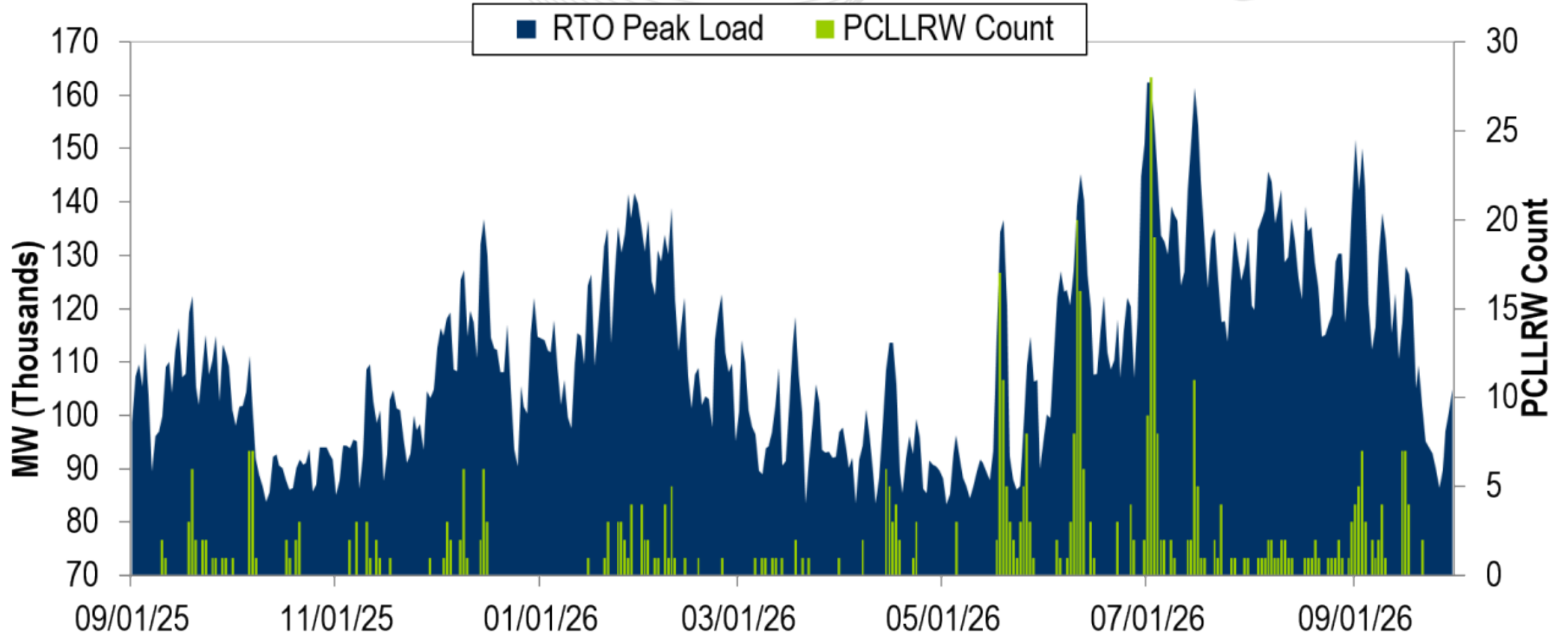
- The purpose of the new BAAL standard is to maintain interconnection frequency within a predefined frequency profile under all conditions (normal and abnormal), to prevent frequency-related instability, unplanned tripping of load or generation, or uncontrolled separation or cascading outages that adversely 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.

RTO Generation Outage Rate - Daily



The 13-month average forced outage rate is 5.87% or 11,871 MW.
The 13-month average total outage rate is 17.07% or 34,469 MW.

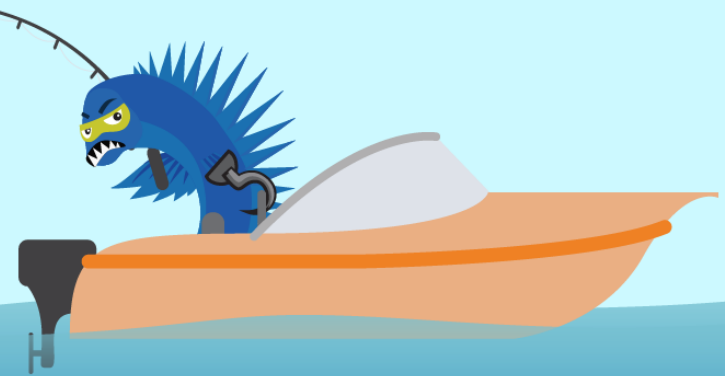
PCLLRW Count Vs. Peak Load – Daily Values For 13 Months



**PROTECT THE
POWER GRID**
**THINK BEFORE
YOU CLICK!**



**BE ALERT TO
MALICIOUS PHISHING
EMAILS**



Report suspicious email activity to PJM.
Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com