

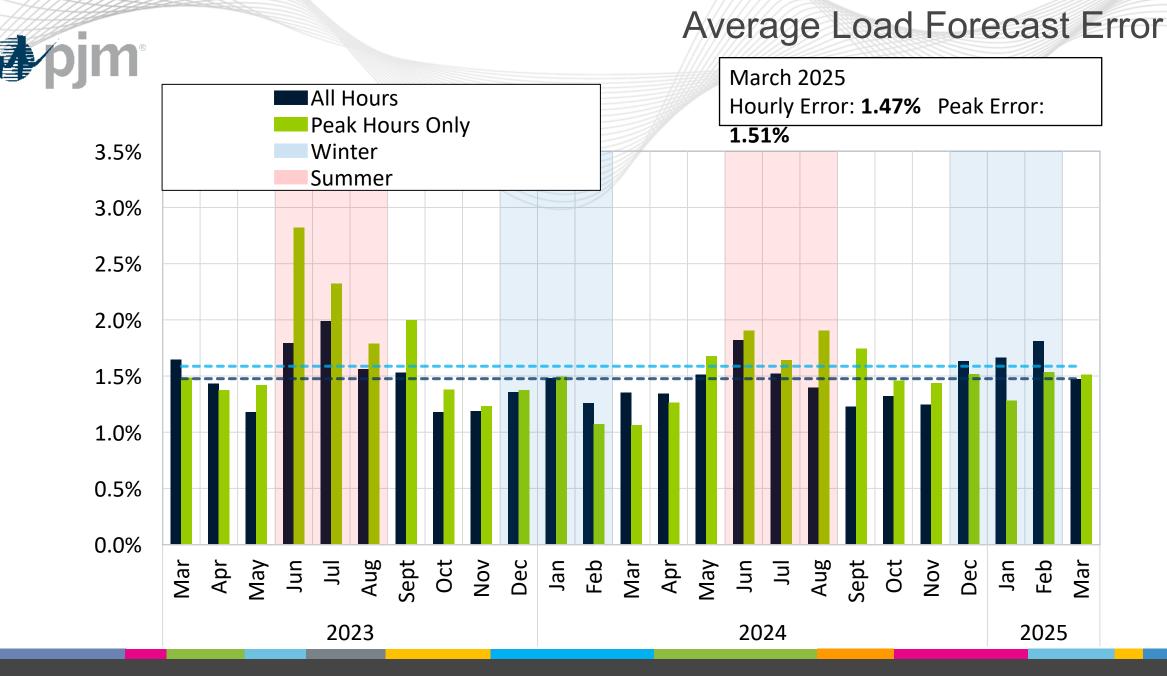
System Operations Report

Marcus Smith, Lead Engineer – Markets Coordination

David Kimmel, Sr. Engineer II – Performance Compliance

Operating Committee

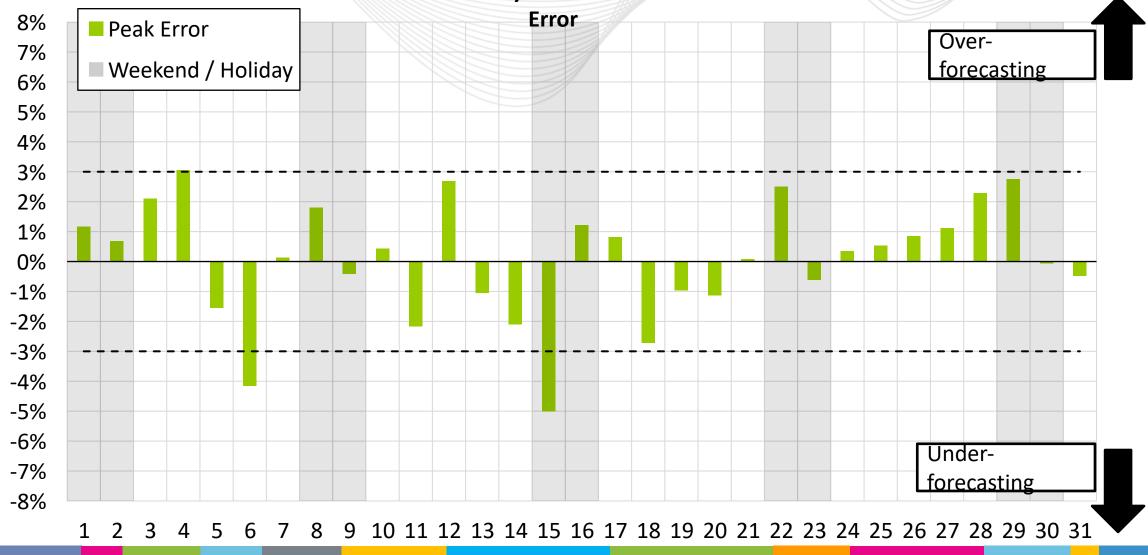
April 3, 2025





Daily Peak Forecast Error (March)

18:00 Day Ahead Forecast



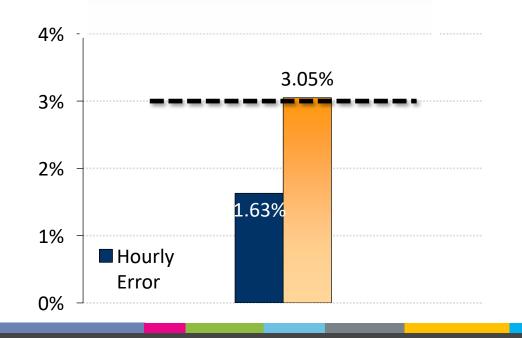


Days Exceeding 3% Forecast Error at Peak Hour

Over-forecasting

Mar. 4

Temperatures came in 4-7°F warmer than forecast across many regions, leading to lower loads and over-forecasting



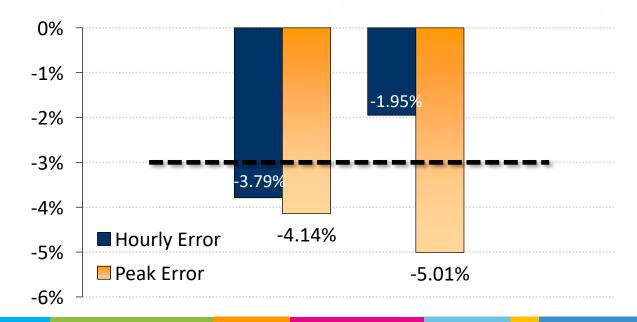
Under-forecasting

Mar. 6

A period of mild temperatures ended with colder conditions, leading to higher load response and under-forecasting.

Mar. 15

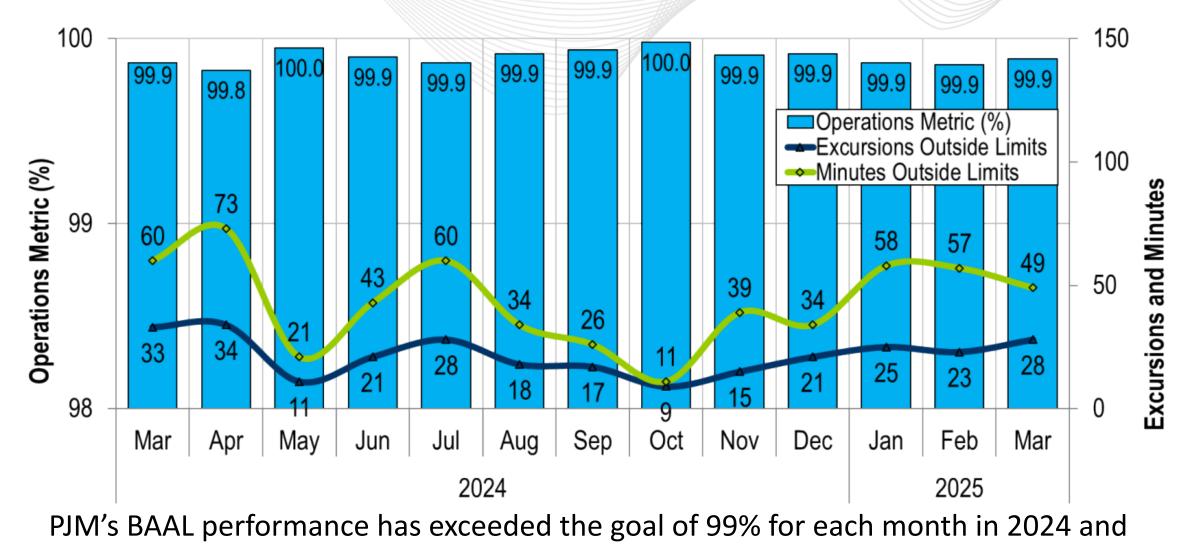
Temperatures in the east came in ~10°F cooler than forecast, leading to higher loads and underforecasting.







2025. www.pjm.com | Public



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Operational Summary (March)

- The following Emergency Procedures occurred:
 - -3 Shared Reserve events
 - -1 High System Voltage Action
 - -7 Post Contingency Local Load Relief Warnings

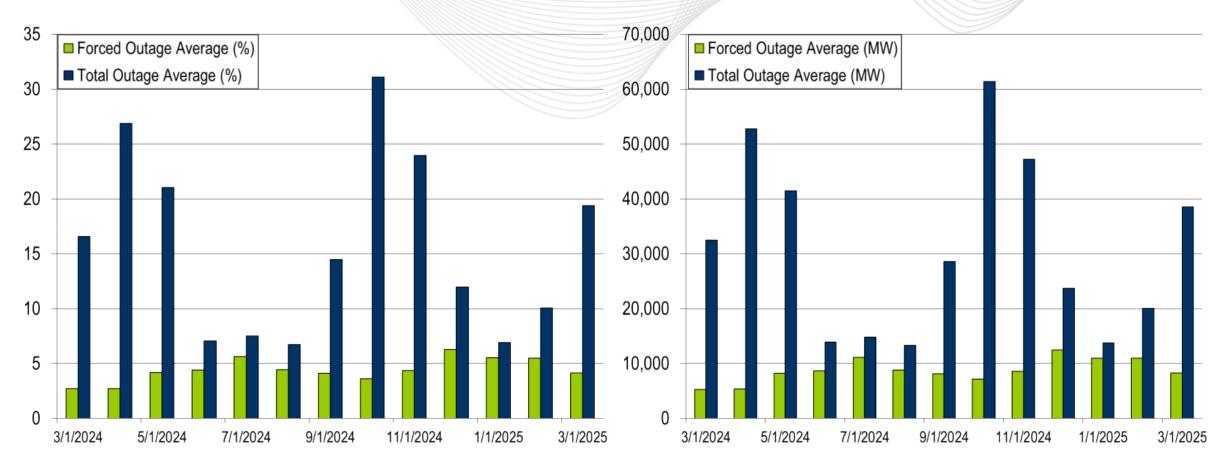


Shortage Case Approvals

- 6 Shortage Cases Approved
- The approved Shortage Cases occurred on:
 - -03/15/2025:
 - -2 shortage cases approved
 - Factors: line tripping
 - -03/19/2025:
 - -4 shortage cases approved
 - Factors: load increase and reduced available reserve



RTO Generation Outage Rate - Monthly



The 13-month average forced outage rate is 4.44% or 8,782 MW.

The 13-month average total outage rate is 15.70% or

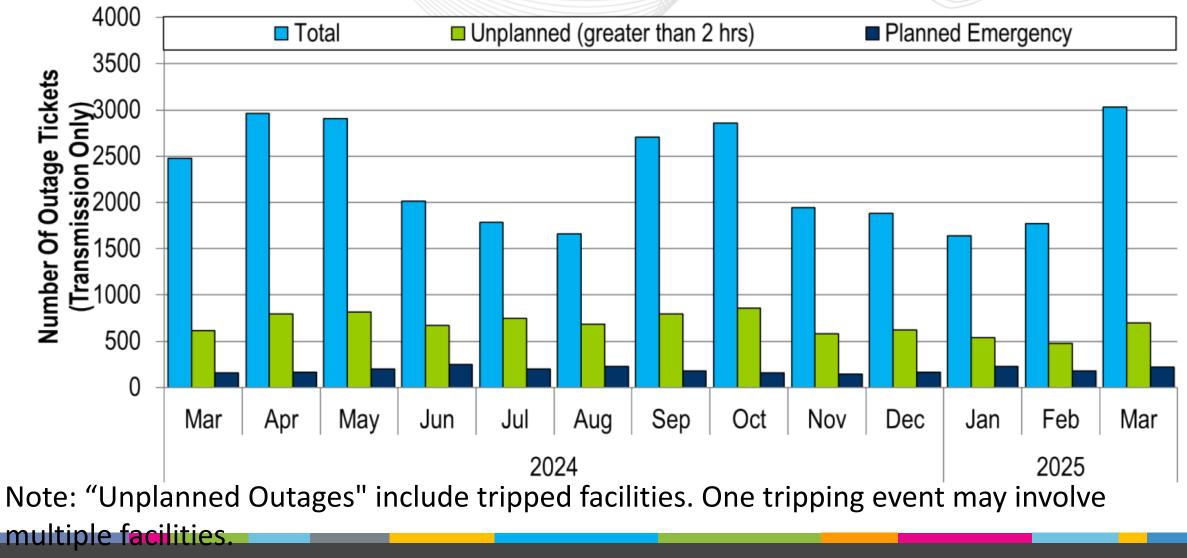
8

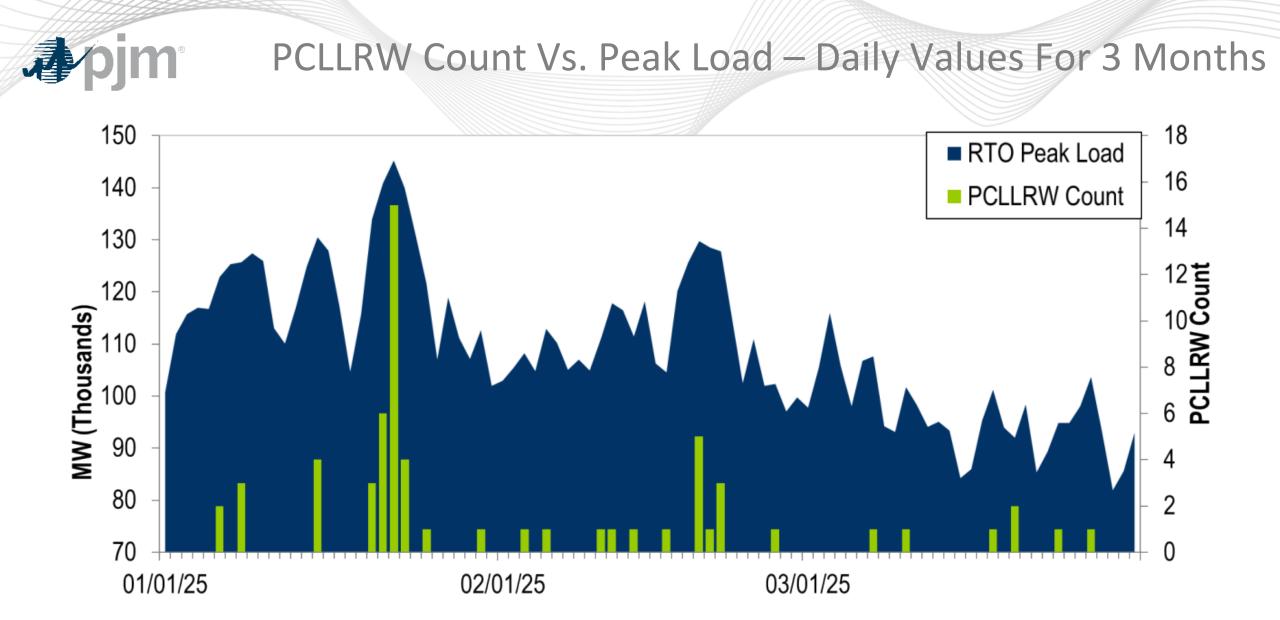
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30,978 MW.



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









• There have been no spin events for the month of March 2025



Load Forecast Report Presenter/SME: Marcus Smith, Marcus.Smith@pjm.com System Operations Report

Presenter: David Kimmel, David.Kimmel@pjm.com SME: Ross Kelly, Ross.Kelly@pjm.com Member Hotline (610) 666 – 8980 (866) 400 – 8980 custsvc@pjm.com



Appendix

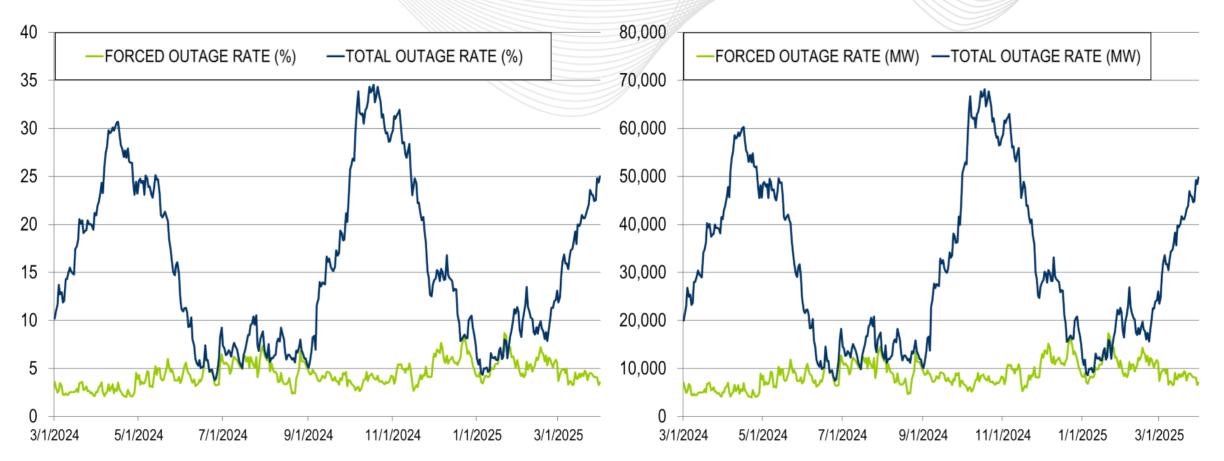


Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 4.44% or 8,782 MW.

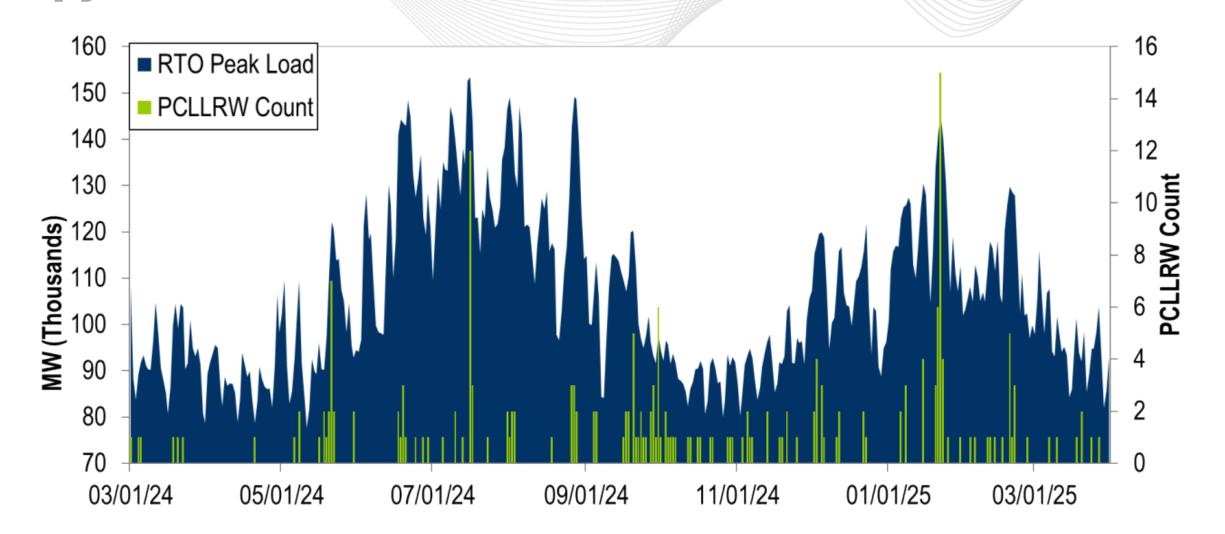
The 13-month average total outage rate is 15.70% or

15

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30,978 MW.

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



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