

System Operations Report

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Operating Committee

January 9, 2025



Average Load Forecast Error



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Daily Peak Forecast Error (December)

18:00 Day Ahead Forecast



Days Exceeding 3% Forecast Error at Peak Hour

Over-forecasting



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Monthly BAAL Performance Score



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

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2024.



Operational Summary (December)

- The following Emergency Procedures occurred:
 - -4 Shared Reserve events
 - -1 Spin Event
 - -1 High System Voltage Action
 - -2 Cold Weather Alerts
 - -16 Post Contingency Local Load Relief Warnings (PCLLRWs)



Shortage Case Approvals

- 1 Shortage Case Approved
- The approved Shortage Cases occurred on:
 - -12/06/2024:
 - -1 shortage case approved for the 17:40 interval
 - Factors: load and Interchange increase



RTO Generation Outage Rate - Monthly



The 13-month average forced outage rate is 4.20% or 8,290 MW.

The 13-month average total outage rate is 14.82% or

8

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29,201 MW.



2023-2024 Planned Emergency, Unplanned, and Total Outages by Ticket (Transmission Only)





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Spin Response

Event	1		
Date	12/11/24		
Start Time	08:21:22		
End Time	08:27:22		
Duration	00:06:00		
Region	RTO		
Resource Type	Gen	DR	Total
Assigned (MW)	1872	643	2515
Estimated Expected Response of Assigned Resources (MW)	1123	386	1509
Actual Response of Assigned Resources (MW)	821	431	1253
Output Increase of Resources without Assignment (MW)	865	0	865
Percent Response To Estimated Expected Response (%)	73%	112%	83%
Penalty (MW)	0	0	0



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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.



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