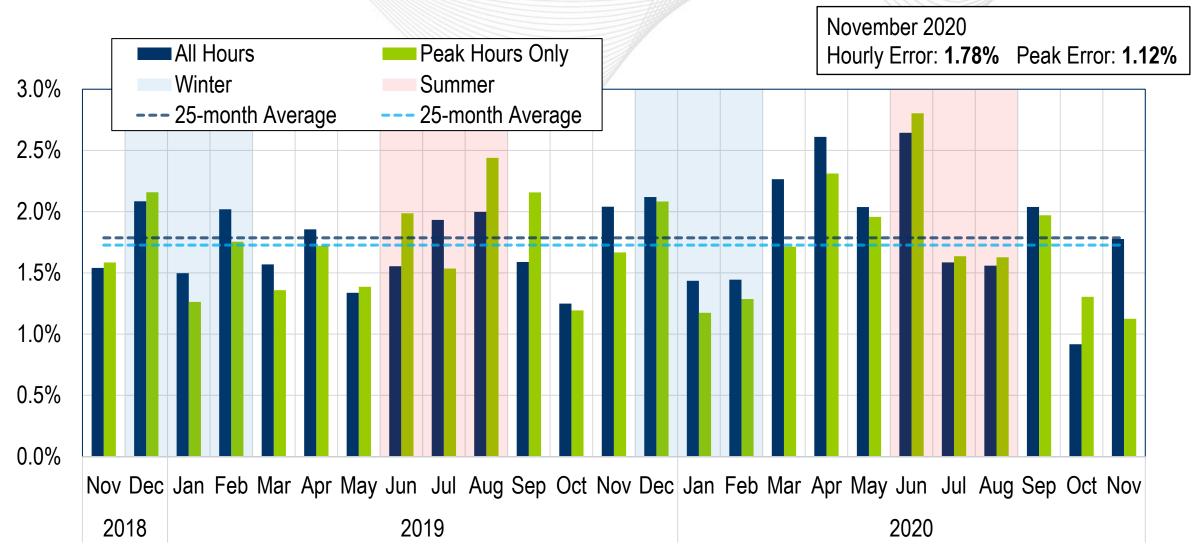


System Operations Report

Stephanie Monzon Manager, Markets Coordination Operating Committee December 3, 2020

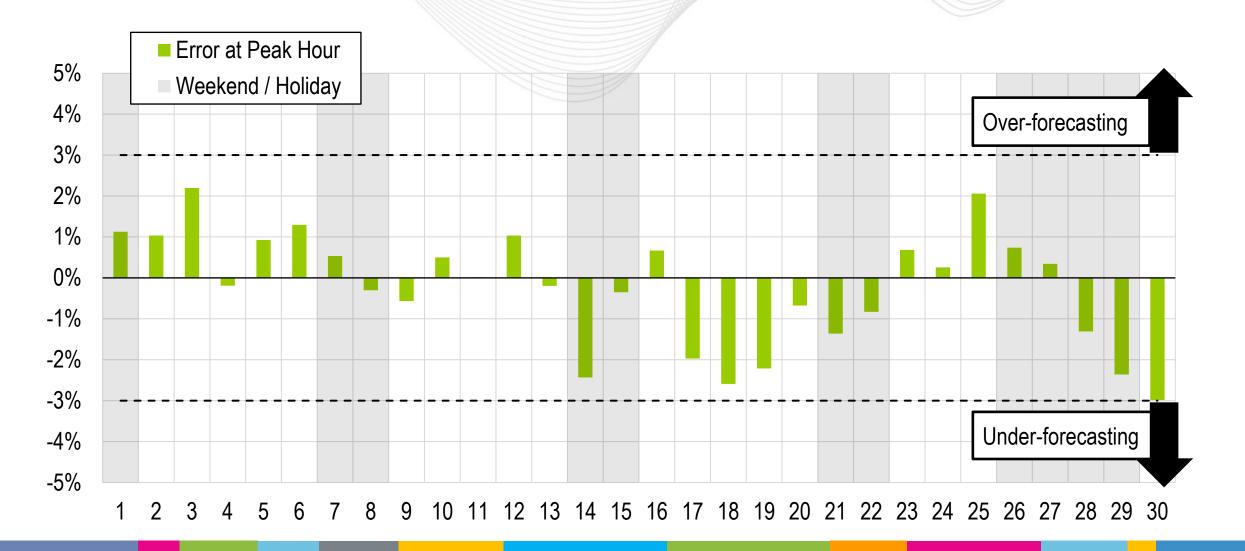


Average Load Forecast Error



"pjm"

Daily Peak Forecast Error (November)



Monthly BAAL Performance Score



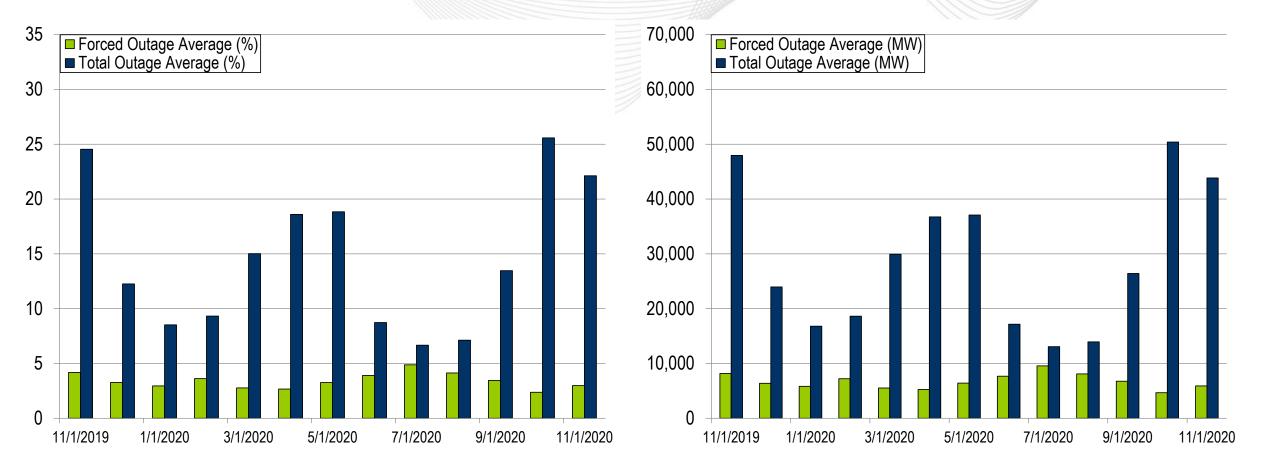


Operational Summary

- One spinning event in the month of November
- Two reserve sharing events with the Northeast Power Coordinating Council (NPCC)
- The following Emergency Procedures occurred in November:
 - 10 Post-Contingency Local Load Relief Warnings (PCLLRW)
 - 3 High System Voltages
 - -3 Shortage Cases Approved

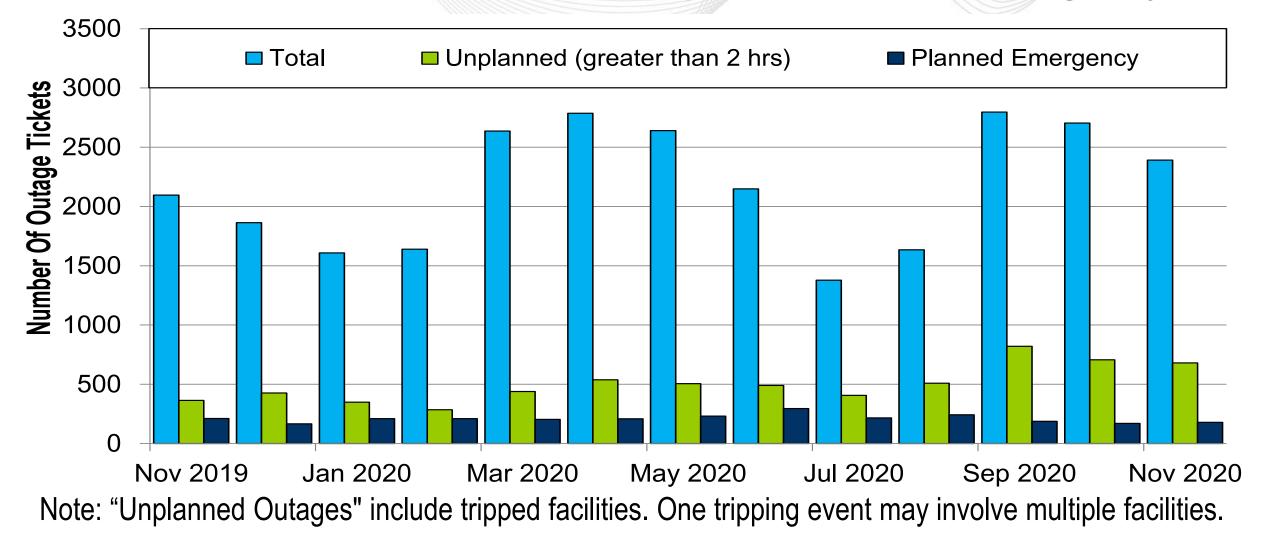


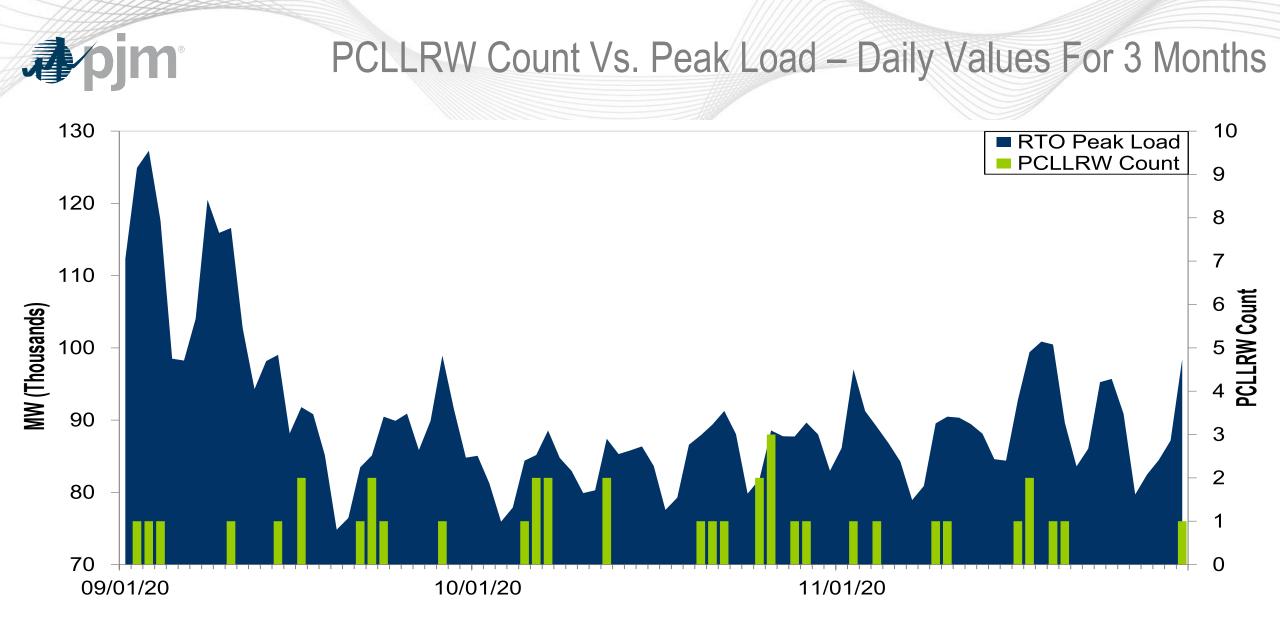
RTO Generation Outage Rate - Monthly



The 13-month average forced outage rate is 3.42% or 6,730MW. The 13-month average total outage rate is 14.68% or 28,925 MW.

2019-2020 Planned Emergency, Unplanned, and Total Outages by Ticket









Event	Date	Start Time	End Time	Duration	Region	Tier 1 Estimate (MW)	Tier 1 Response (MW)
1	11/13/20	02:46:10	02:52:02	00:05:52	RTO	1687.9	882.4

Event	Date	Start Time	End Time	Duration	Region	Tier 2 Assigned (MW)	Tier 2 Response (MW)	Tier 2 Penalty (MW)
1	11/13/20	02:46:10	02:52:02	00:05:52	RTO	603.9	603.9	0.0

*Tier 2 Response is equal to Tier 2 Assigned for events with duration less than ten minutes



Appendix

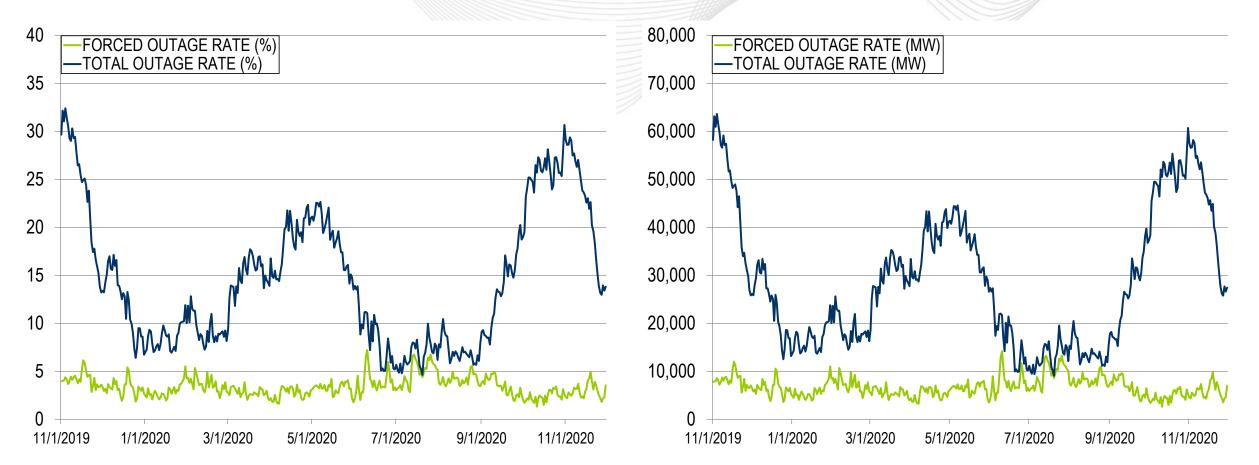


Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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 3.42% or 6,730MW. The 13-month average total outage rate is 14.68% or 28,925 MW. **J**pjm

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

