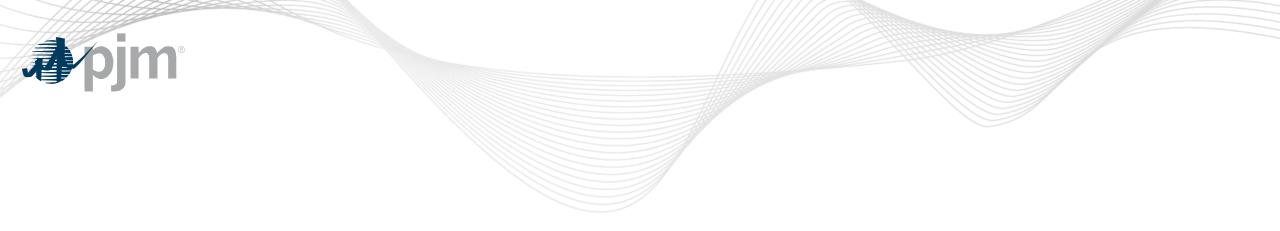


System Operations Report

Paul McGlynn Executive Director, System Operations Members Committee May 3, 2021

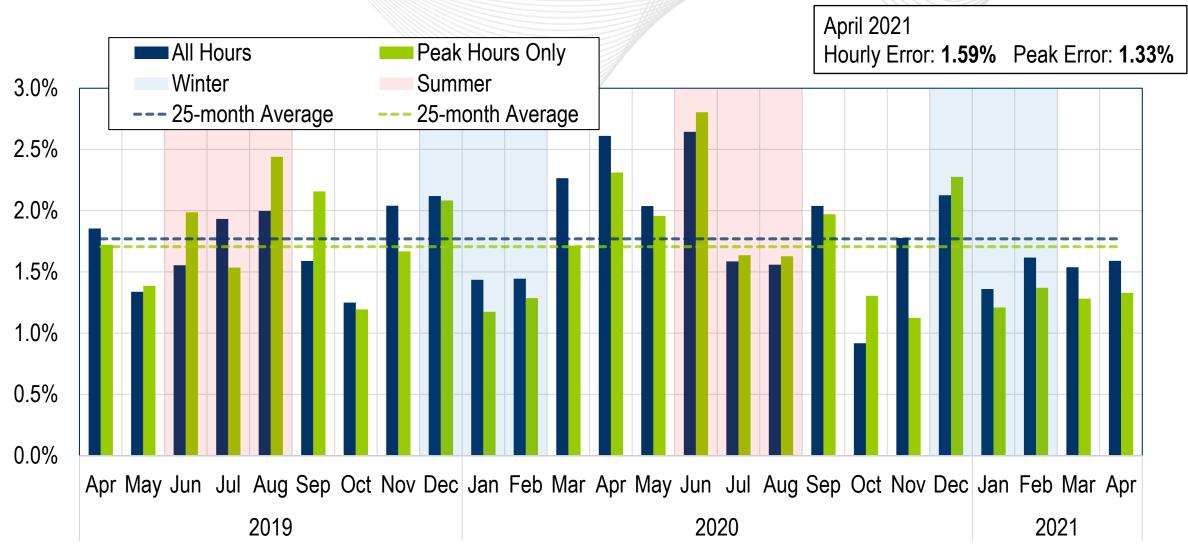


The following slides summarize system operations for April through the 22nd

The slides will be updated with data for the whole month and presented to the Operating Committee on May 15th

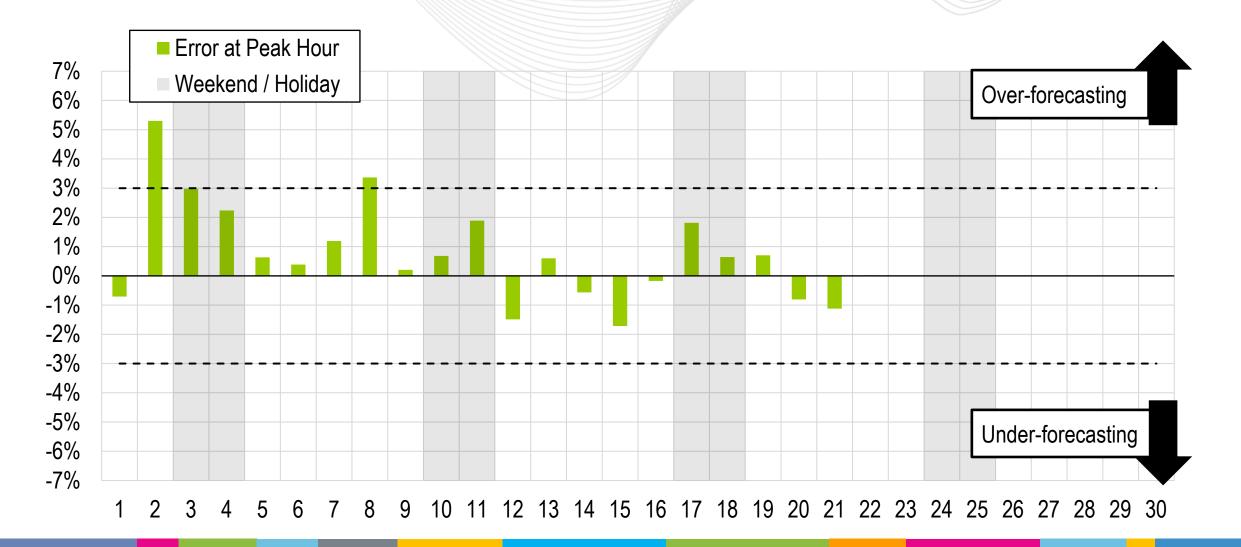


Average Load Forecast Error

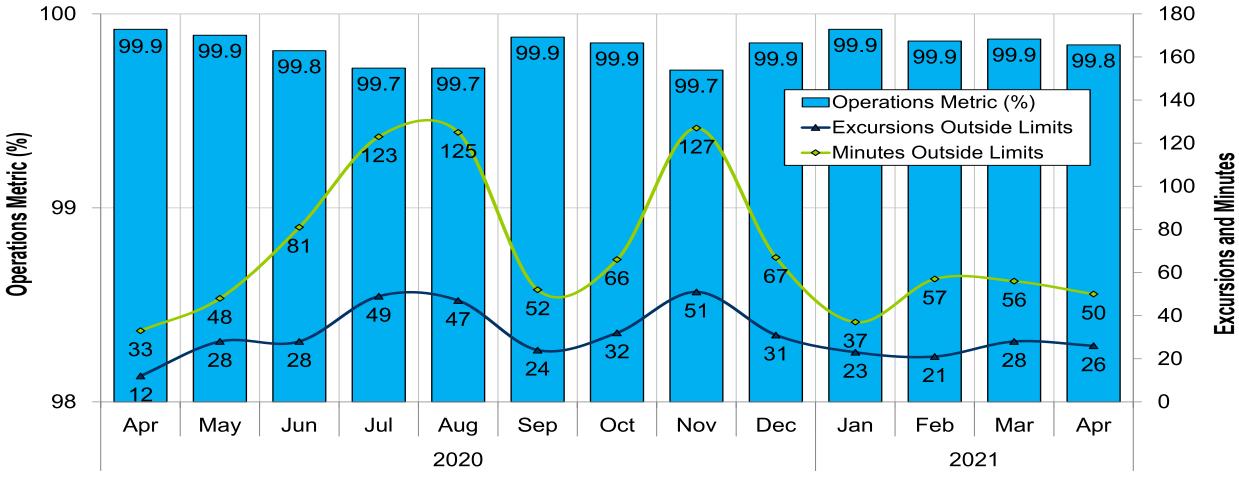




Daily Peak Forecast Error (April)



Monthly BAAL Performance Score



PJM's BAAL performance has exceeded the goal of 99% for each month in 2021.

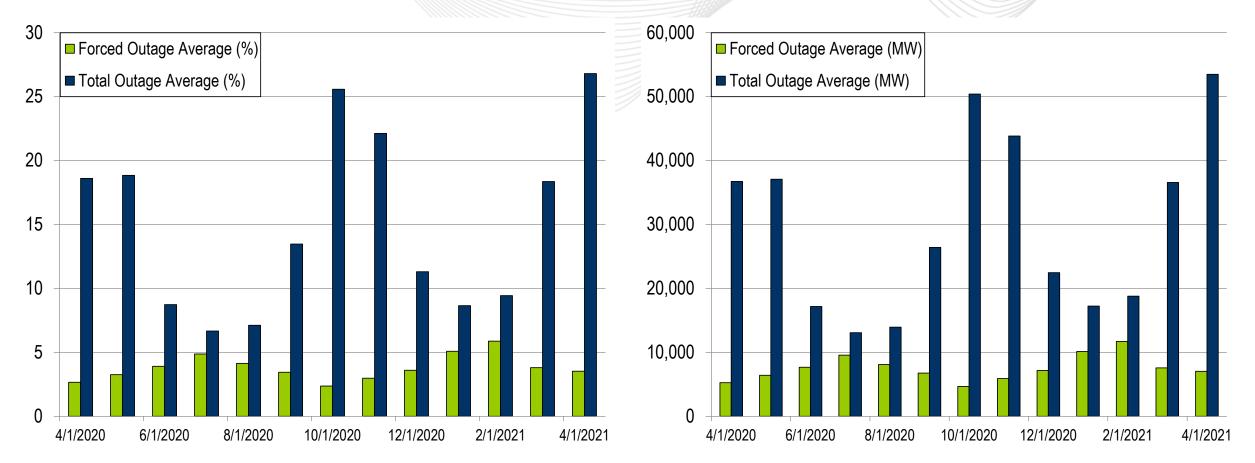


Operational Summary

- One spinning event in the month of April
- One reserve sharing event with the Northeast Power Coordinating Council (NPCC)
- The following Emergency Procedures occurred in April:
 - 12 Post-Contingency Local Load Relief Warnings (PCLLRW)
 - -4 High System Voltages

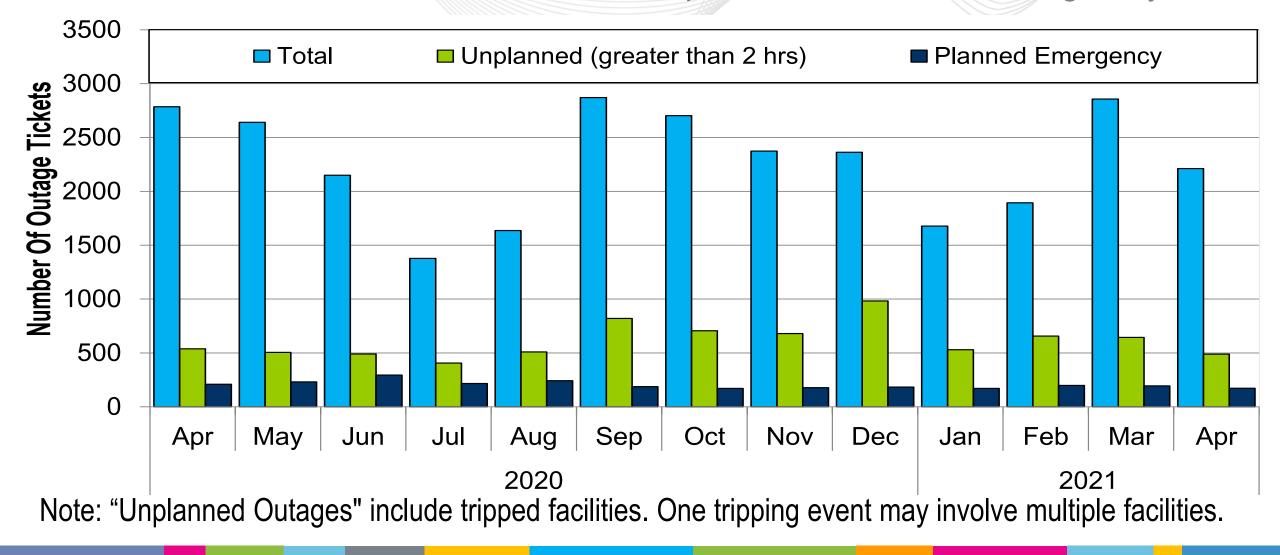


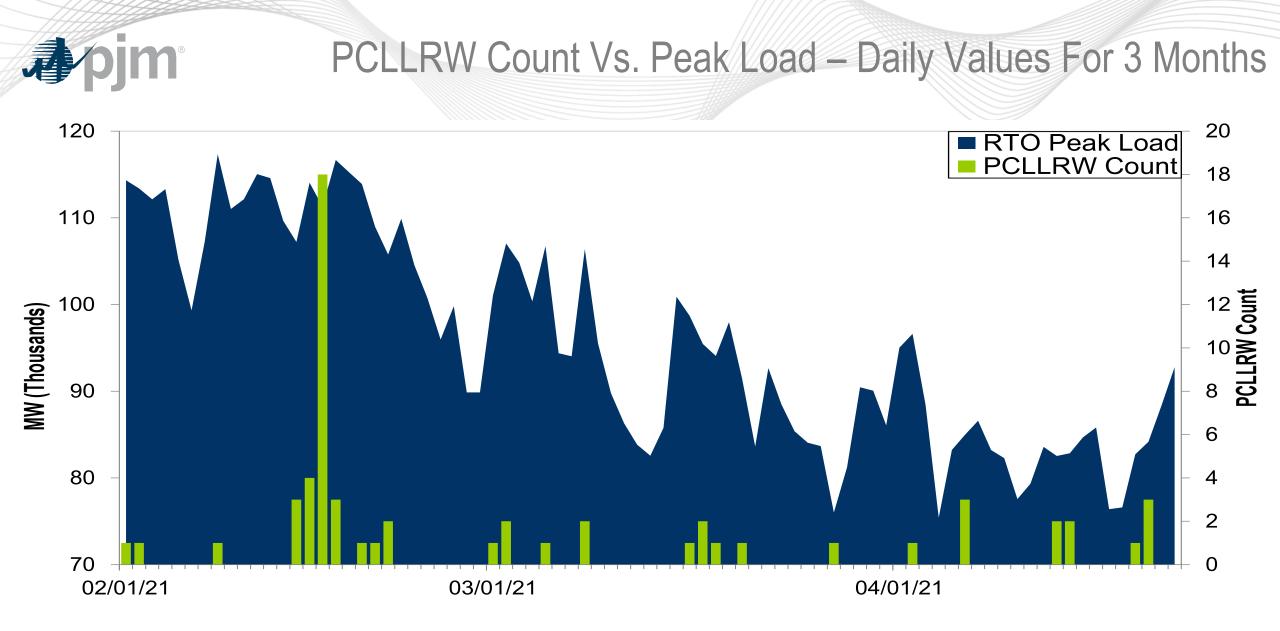
RTO Generation Outage Rate - Monthly



The 13-month average forced outage rate is 3.81% or 7,528 MW. The 13-month average total outage rate is 14.82% or 29,307 MW.

2020-2021 Planned Emergency, Unplanned, and Total Outages by Ticket



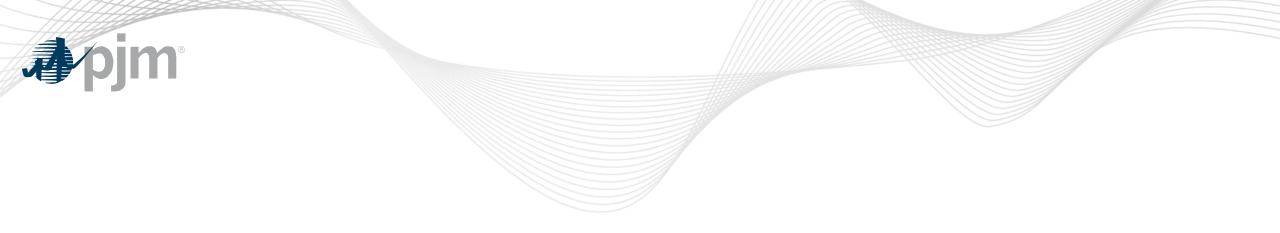






Event	Date	Start Time	End Time	Duration	Region	Tier 1 Estimate (MW)	Tier 1 Response (MW)
1	04/13/21	16:05:53	16:14:44	00:08:51	RTO	2093.4	975.6

E١	vent	Date	Start Time	End Time	Duration	Region	Tier 2 Assigned (MW)	Tier 2 Response (MW)	Tier 2 Penalty (MW)
	1	04/13/21	16:05:53	16:14:44	00:08:51	RTO	345.3	345.3	0.0



Appendix



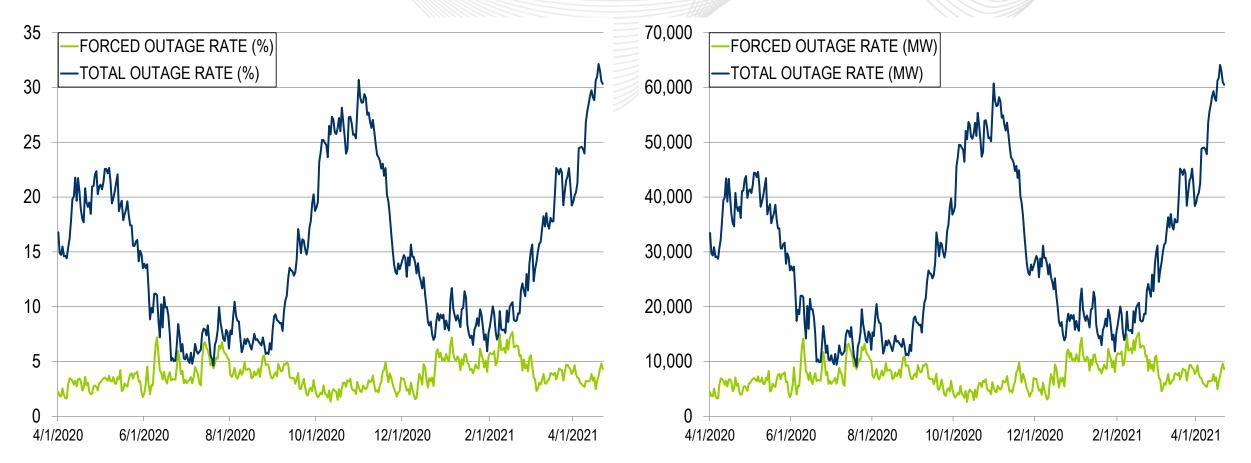
Goal Measurement: Balancing Authority ACE Limit (BAAL)

- 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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RTO Generation Outage Rate - Daily



The 13-month average forced outage rate is 3.81% or 7,528 MW. The 13-month average total outage rate is 14.82% or 29,307 MW.

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

