System Operations Report

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MC Webinar
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Average Load Forecast Error

June 2020
Hourly Error: 2.64%  Peak Error: 2.80%

All Hours
Winter
Peek Hours Only
Summer
25-month Average
25-month Average
Daily Peak Forecast Error (June)

Error at Peak Hour
Weekend / Holiday

Over-forecasting
Under-forecasting
PJM’s BAAL performance has exceeded the goal of 99% for each month in 2020.
• Zero spinning events in the month of June
• Eight reserve sharing events with the Northeast Power Coordinating Council (NPCC)
• The following Emergency Procedures occurred in June:
  – 20 Post-Contingency Local Load Relief Warnings (PCLLRW)
  – 3 Hot Weather Alerts
  – 1 High System Voltage
The 13-month average forced outage rate is 3.87% or 7,641 MW.
The 13-month average total outage rate is 14.33% or 28,258 MW.
2019-2020 Planned Emergency, Unplanned, and Total Outages by Ticket

Note: “Unplanned Outages" include tripped facilities. One tripping event may involve multiple facilities.
PCLLRW Count Vs. Peak Load – Daily Values For 3 Months

- **RTO Peak Load**
- **PCLLRW Count**

MW (Thousands)

04/01/20 05/01/20 06/01/20
PJM experienced no spinning events during the month of June 2020.
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.
The 13-month average forced outage rate is 3.87% or 7,641 MW.
The 13-month average total outage rate is 14.33% or 28,258 MW.
PCLLRW Count Vs. Peak Load – Daily Values For 13 Months