July Hot Weather Operations
July 14–July 17

Operating Committee
August 6, 2026

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Sr. Manager – Dispatch

Operations Update

1	Key Takeaways
2	Emergency Procedures
3	Weather, Temperature and Load Forecast Accuracy
4	Wind/Solar Forecast and Generation Performance
5	Emission Limited Units Waiver
6	Transmission Performance

Key Takeaways for Operations

Preliminary Hourly Peak Load 159,021 MW – July 15 @ HE18

Successes

- Excellent advanced coordination with internal stakeholders and neighbors
- Consolidated Emergency DOE 202c Order, which covered both Emissions and Emergency Use of Back-up Generators at Large Loads

Challenges

- Impacts of wildfire smoke on load and solar generation forecasts
- Above-average generation outage rate
- Communication of applicability of DOE 202c Order No. 202-26-35 for Exhibit A Resources

Emergency Procedures

Hot Weather – Emergency Procedures	July 13	July 14	July 15	July 16	July 17	July 18
Hot Weather Alert		PJM RTO				
Low Voltage Alert			PJM RTO			
Heavy Load Voltage Schedule Warning			PJM RTO			
Max. Generation Alert/ Load Mgmt. Alert (NERC EEA1)			PJM RTO			
DOE Order No 202-26-35			Effective July 14, 23:59, through July 21, 23:59			

Communications Timeline

Applicability of DOE 202c Order No. 202-26-35 for Exhibit A Resources email

- SOS-T System Conditions Conference Call
- ReliabilityFirst System Conditions Update
- Touchpoint with neighboring RCs

July 13

- PJM requested for DOE 202c Emergency Orders for both Emergency Backup Generation and Emissions
- PJM OERT meeting
- SOS-G/SOS-T System Conditions Conference Call

July 14

- PJM Pardot message sent to SOS/OC/MRC/DISRS
- Touchpoint with neighboring RCs
- ReliabilityFirst System Conditions Update

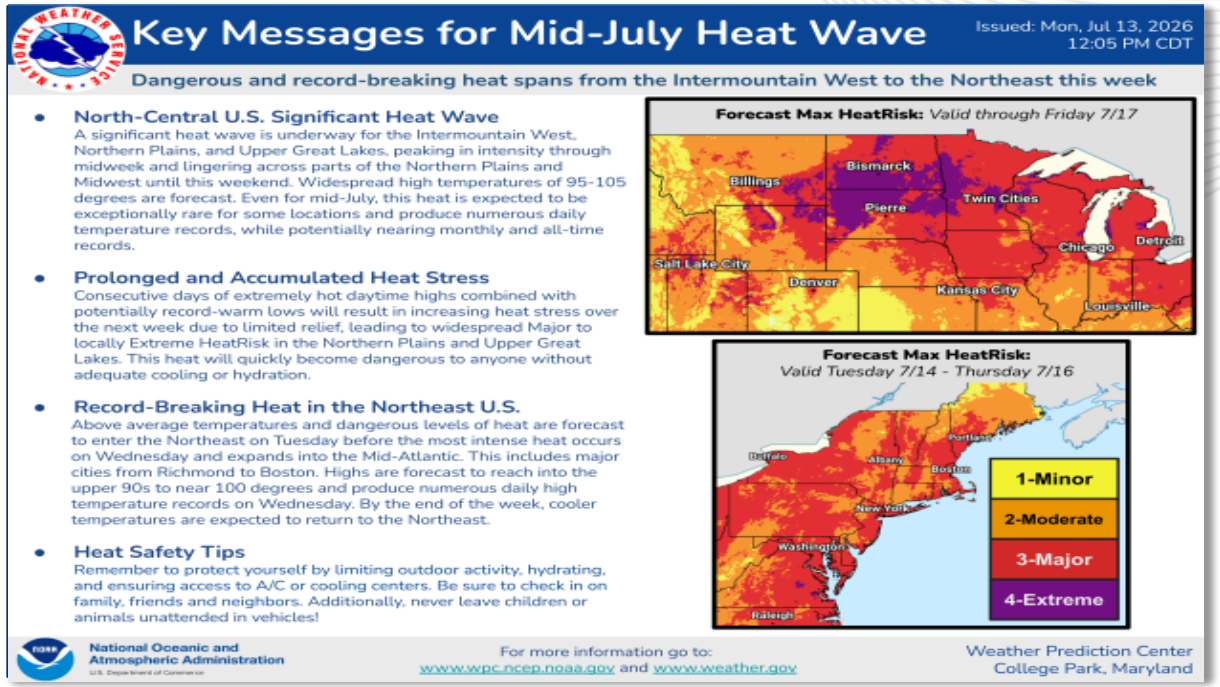
July 15

July 16

July 17

July 18

Weather – July 14–17, 2026, Hot Weather



July 14-17, 2026, Hot Weather			
Cities	Hottest Air Temperature	Highest Heat Index	Warmest Low Temperature
Chicago	96°F	102°F	76°F
Columbus	94°F	102°F	74°F
Louisville	91°F	99°F	77°F
Philadelphia	97°F	109°F	79°F
Richmond	93°F	105°F	77°F
RTO Ld.-Wtd. Avg	93°F	100°F	75°F

July 13–14: Temperatures heating up from west to east into the upper 80s to low 90s

July 15: Peak of heat in RTO with load weighted temperatures in low 90s, THI values in low 80s. Hottest in Mid-Atlantic with temperatures in upper 90s

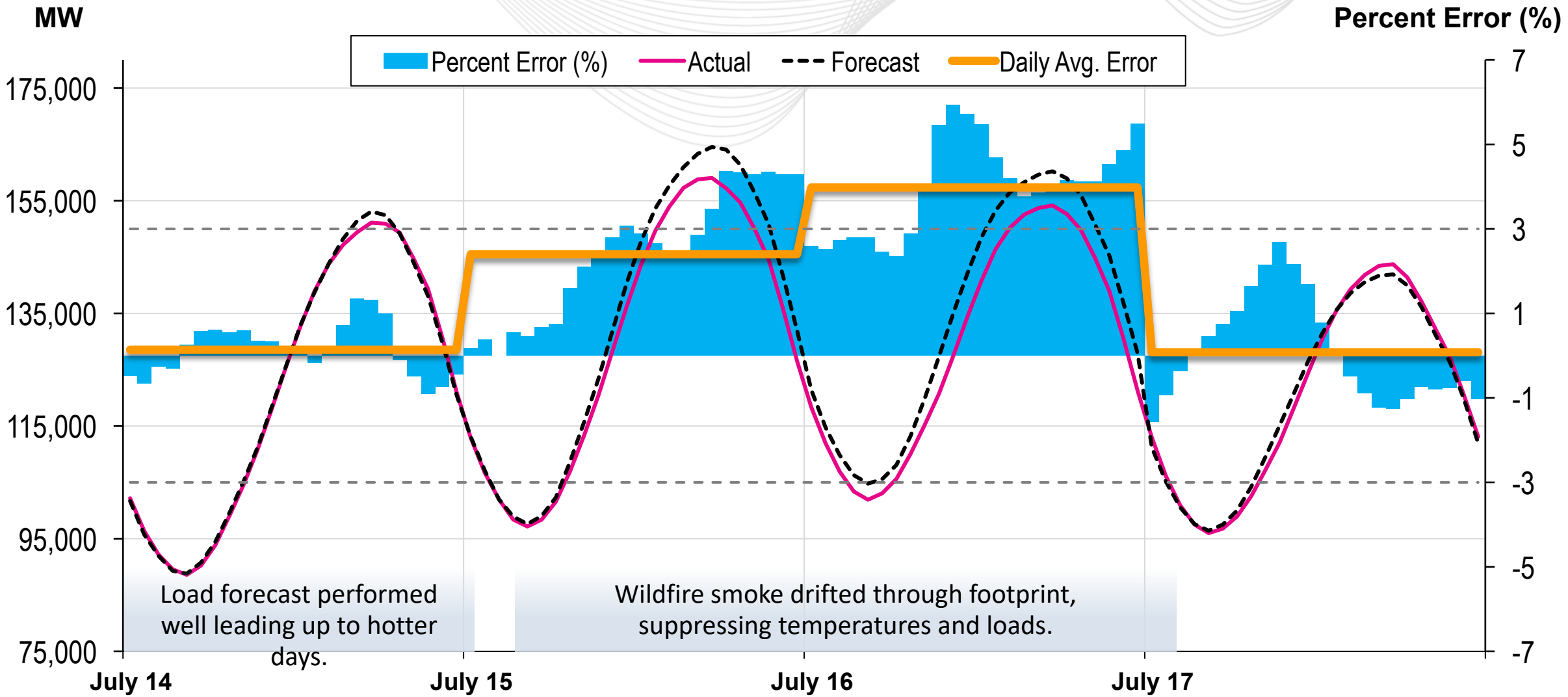
July 15–17: Wildfire smoke seeped in from north to south leading to lower temperatures.

Weather – July 14–17, 2026, Hot Weather

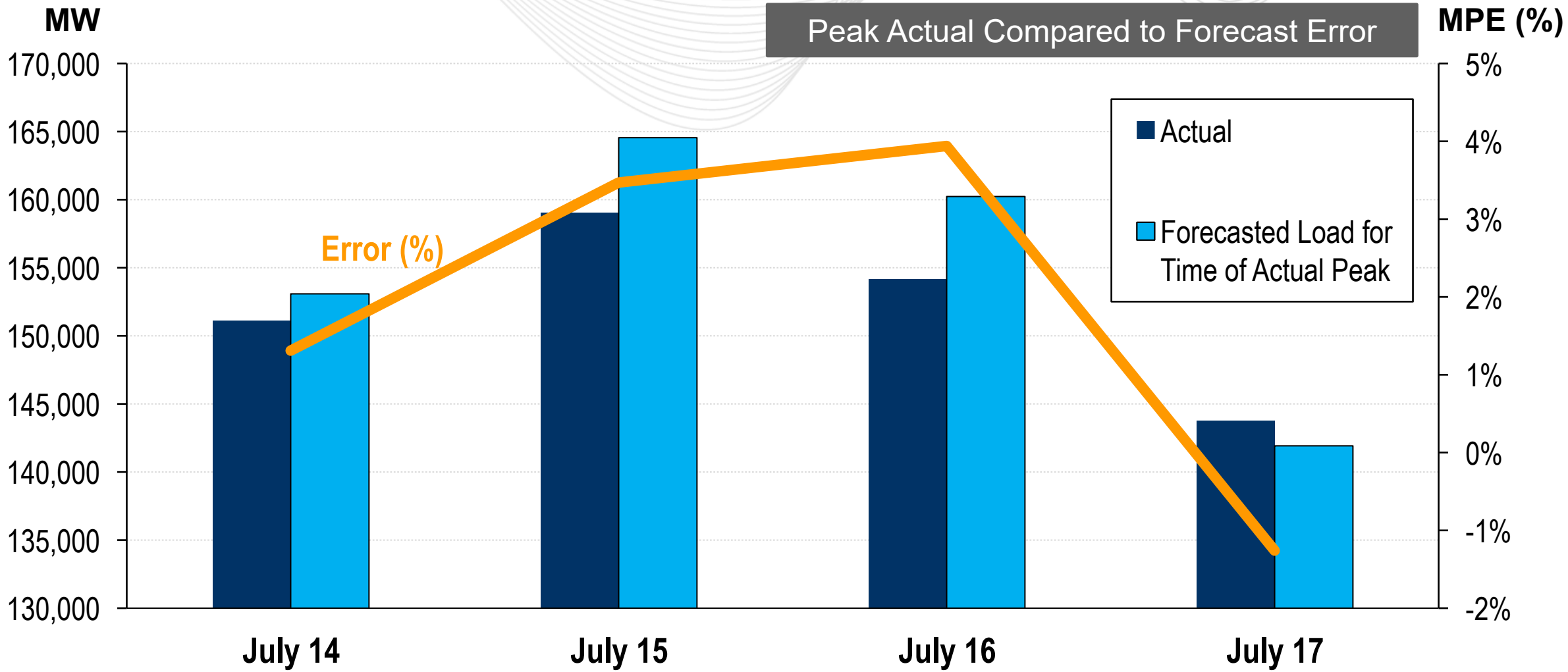
July 16

- Smoke from wildfires in Minnesota and Canada settled into RTO July 15–17.
- Visibilities greatly reduced, widespread poor air quality
- Temperatures were 2 to 7 degrees cooler than day-ahead forecast due in large part to thick smoke.

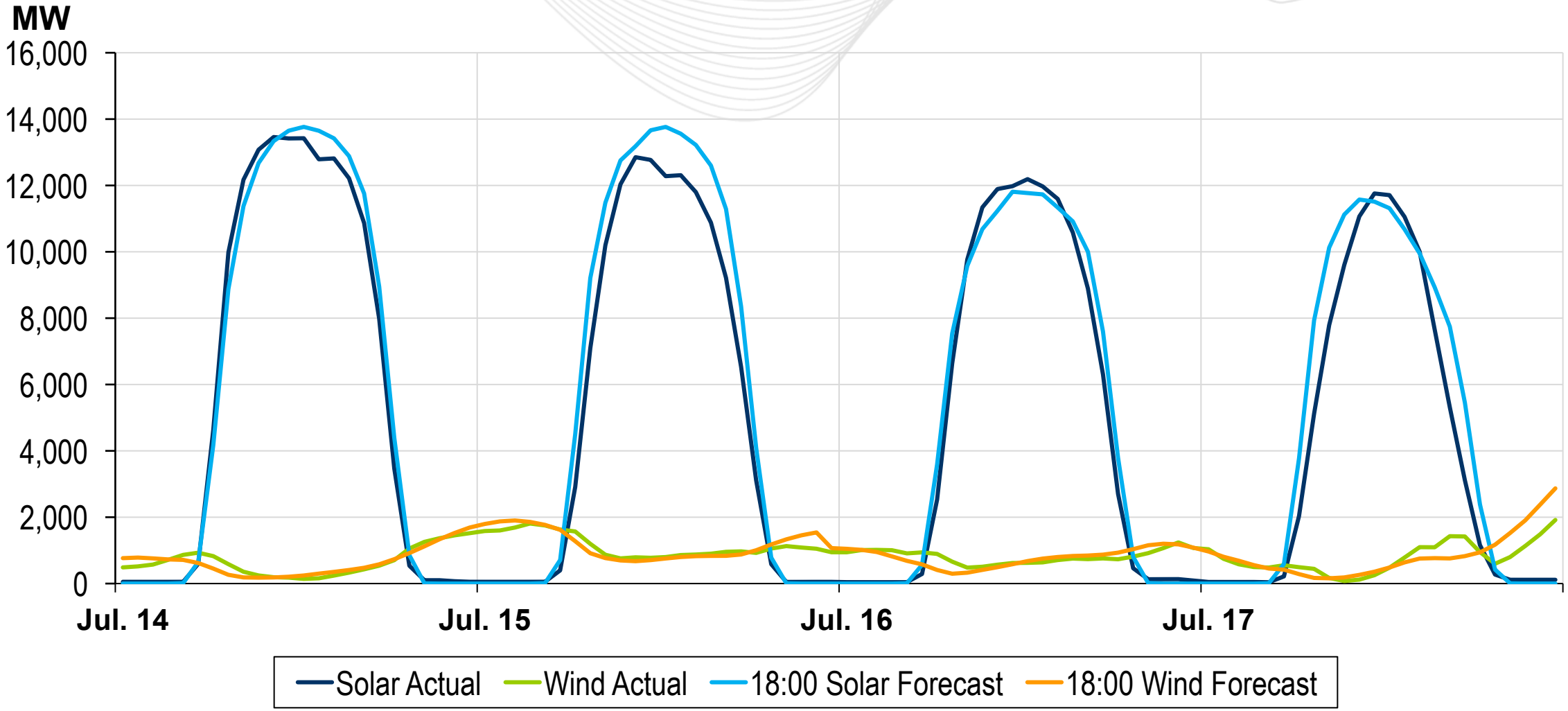
Forecast Performance During July 2026 Heat Wave



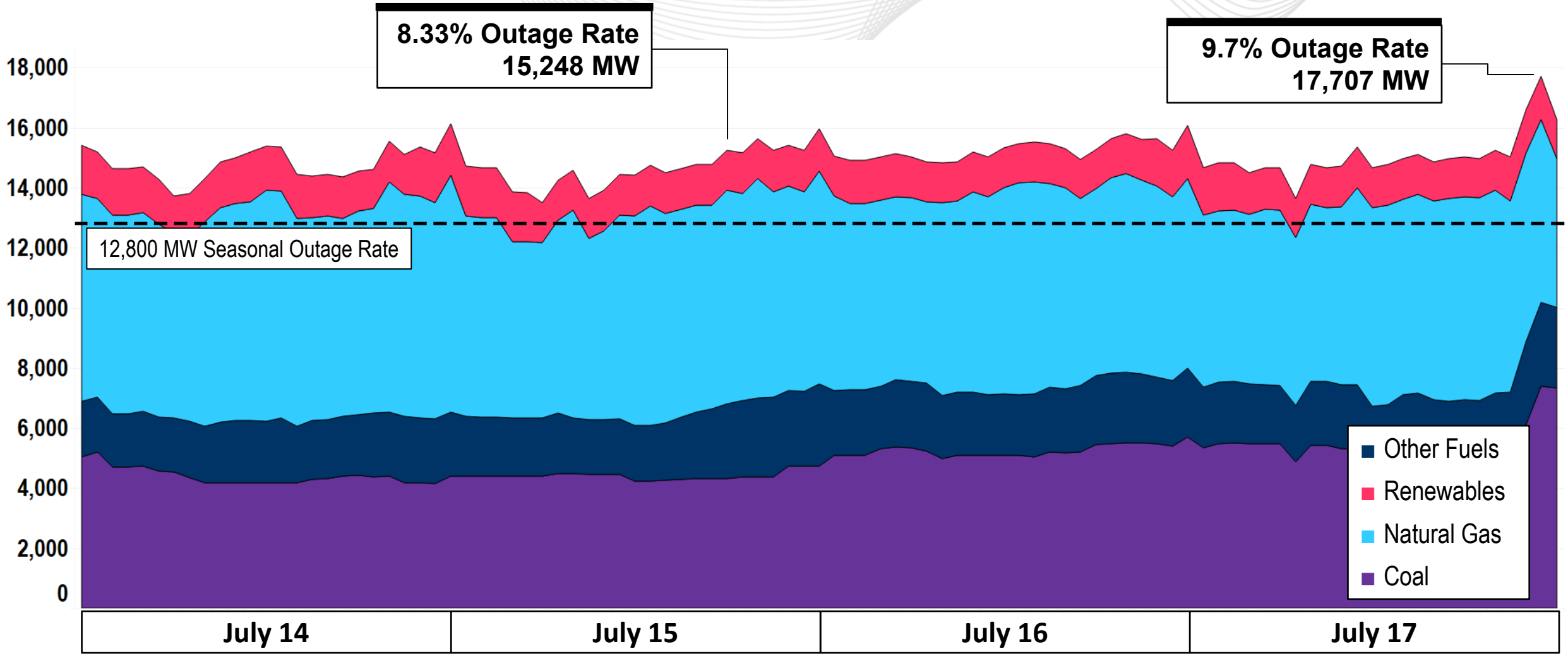
Forecast Error Trend for June 29–July 5, 2026



Day-Ahead Solar and Wind Forecast Performance

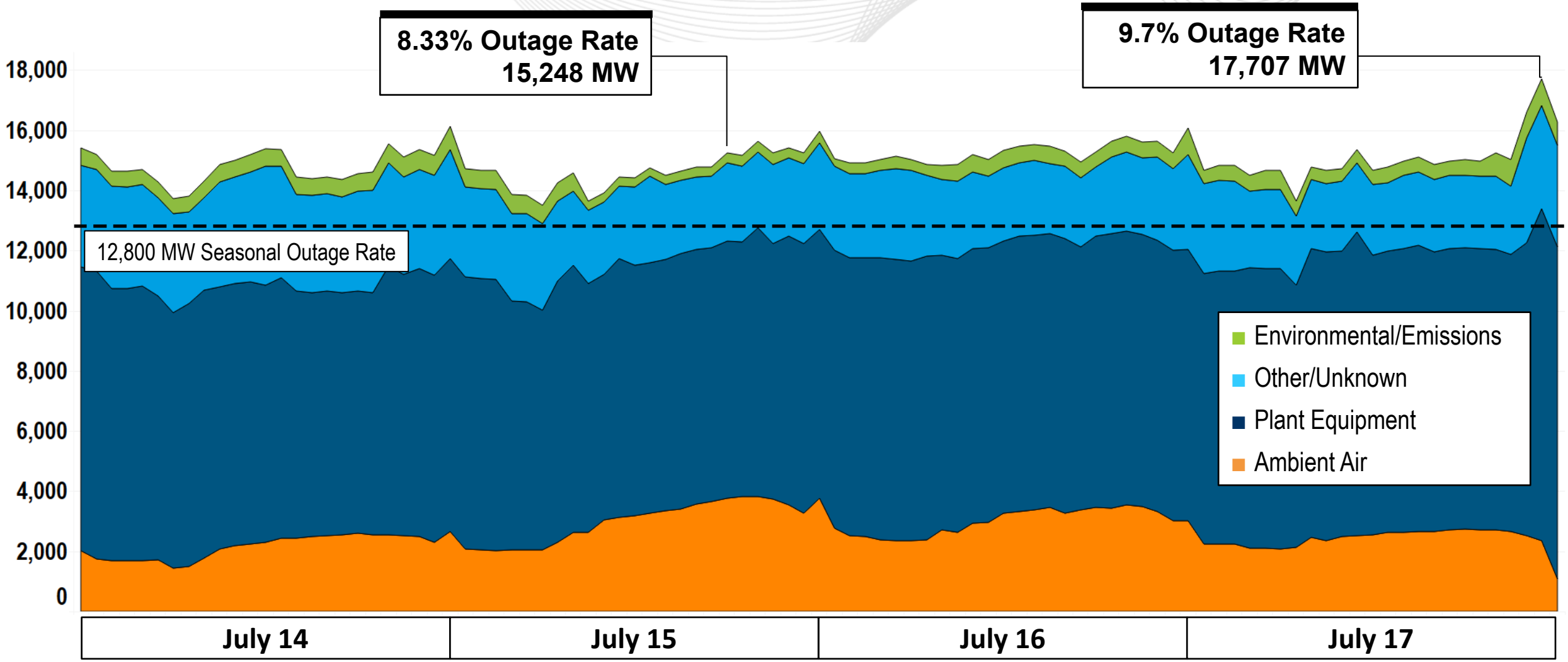


Generation Performance



Note: Outage data shown is collected from eDART and considered preliminary.

Generation Performance



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DOE Order No. 202-26-35

- PJM was granted DOE 202c waiver (Order No. 202-26-35) for generators with permit limit concerns to allow units to continue to operate for reliability.
- Generators operating under the 202c waiver with run hours above permit limits were reported to DOE daily.
- Pardot notification sent to Generation and Transmission Owners/Dispatchers identifying reliability need for 7/15 through 7/17.

Generators Covered by DOE 202c		
Plants	Units	ICAP
58	**609**	**~25.3 GW**

Generators Operated Above Permit Limit Under DOE 202c			
Plants	Units	ICAP	Total Hours
20	**23**	**~5.47 GW**	**692 ***

** Data provided to PJM by unit owners*

Outage Coordination and Transmission Performance

Transmission Outage Coordination

- PJM held SOS-G/T calls to discuss projected conditions.
- PJM and Transmission Owners coordinated to reschedule or recall transmission outages to maximize generation deliverability.
- Transmission Owners proactively rescheduled outages of lesser impact to minimize risk.

Transmission Performance

- Issued 19 PCLLRWs
  - Thermal and voltage

Contact

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THINK BEFORE YOU CLICK!

pjm

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Report suspicious email activity to PJM.

Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com