

July Hot Weather Operations July 14–July 17

Operating Committee
August 6, 2026

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Sr. Manager – Dispatch

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

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

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

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			

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

July 14

July 15

July 16

July 17

July 18

- 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

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

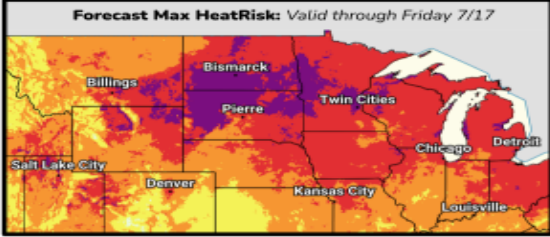


Key Messages for Mid-July Heat Wave

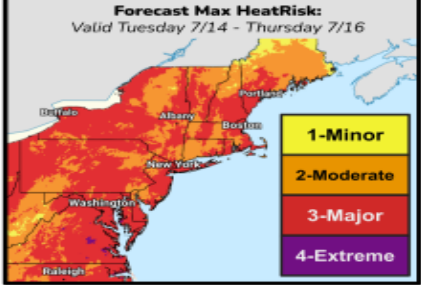
Issued: Mon, Jul 13, 2026
12:05 PM CDT

Dangerous and record-breaking heat spans from the Intermountain West to the Northeast this week

- North-Central U.S. Significant Heat Wave**
 A significant heat wave is underway for the Intermountain West, Northern Plains, and Upper Great Lakes, peaking in intensity through midweek and lingering across parts of the Northern Plains and Midwest until this weekend. Widespread high temperatures of 95–105 degrees are forecast. Even for mid-July, this heat is expected to be exceptionally rare for some locations and produce numerous daily temperature records, while potentially nearing monthly and all-time records.
- Prolonged and Accumulated Heat Stress**
 Consecutive days of extremely hot daytime highs combined with potentially record-warm lows will result in increasing heat stress over the next week due to limited relief, leading to widespread Major to locally Extreme HeatRisk in the Northern Plains and Upper Great Lakes. This heat will quickly become dangerous to anyone without adequate cooling or hydration.
- Record-Breaking Heat in the Northeast U.S.**
 Above average temperatures and dangerous levels of heat are forecast to enter the Northeast on Tuesday before the most intense heat occurs on Wednesday and expands into the Mid-Atlantic. This includes major cities from Richmond to Boston. Highs are forecast to reach into the upper 90s to near 100 degrees and produce numerous daily high temperature records on Wednesday. By the end of the week, cooler temperatures are expected to return to the Northeast.
- Heat Safety Tips**
 Remember to protect yourself by limiting outdoor activity, hydrating, and ensuring access to A/C or cooling centers. Be sure to check in on family, friends and neighbors. Additionally, never leave children or animals unattended in vehicles!



Forecast Max HeatRisk: Valid through Friday 7/17



Forecast Max HeatRisk: Valid Tuesday 7/14 - Thursday 7/16



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

For more information go to:
www.wpc.ncep.noaa.gov and www.weather.gov

Weather Prediction Center
College Park, Maryland

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.

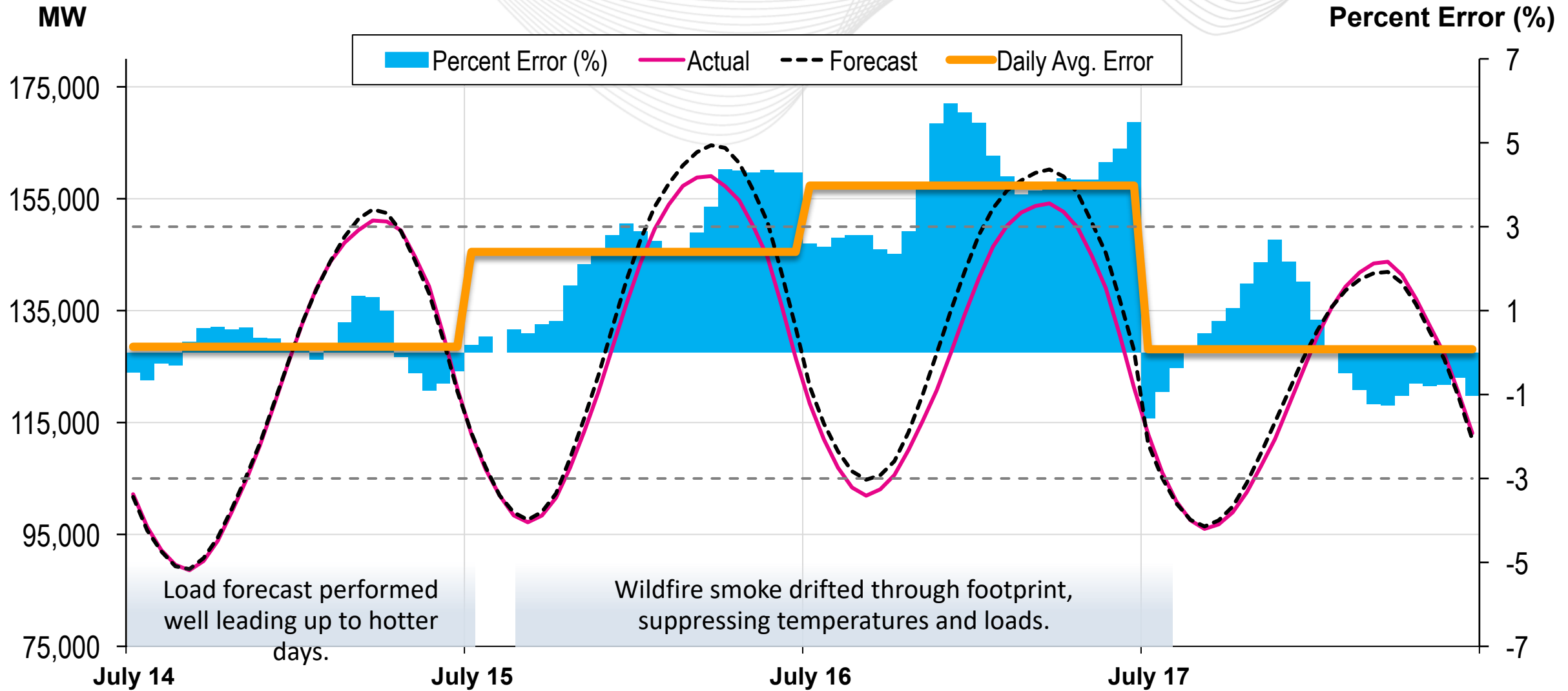


July 16

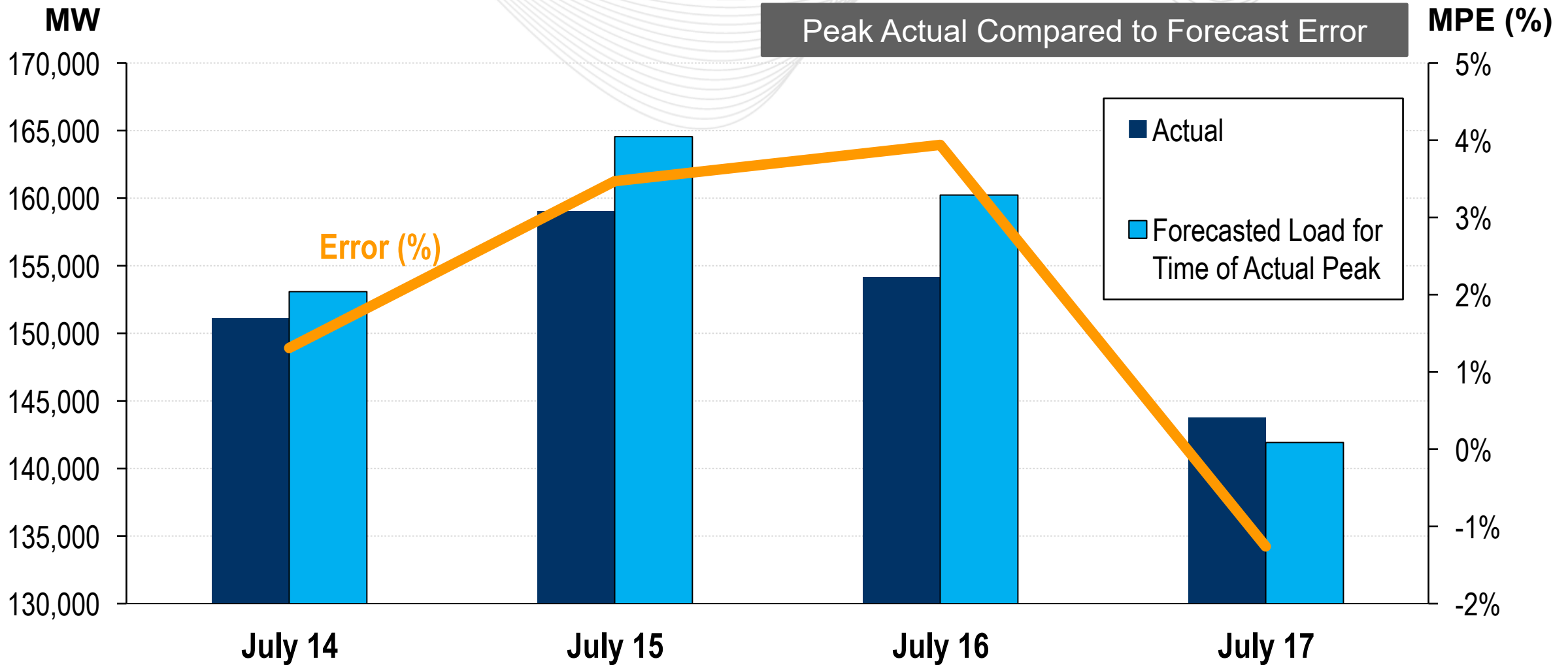


- Smoke from wildfires in Minnesota and Canada settled into RTO July 15–17.
- Visibilities greatly reduced, widespread poor air quality
- Temperatures were 2 to 7 degrees cooler than day-ahead forecast due in large part to thick smoke.

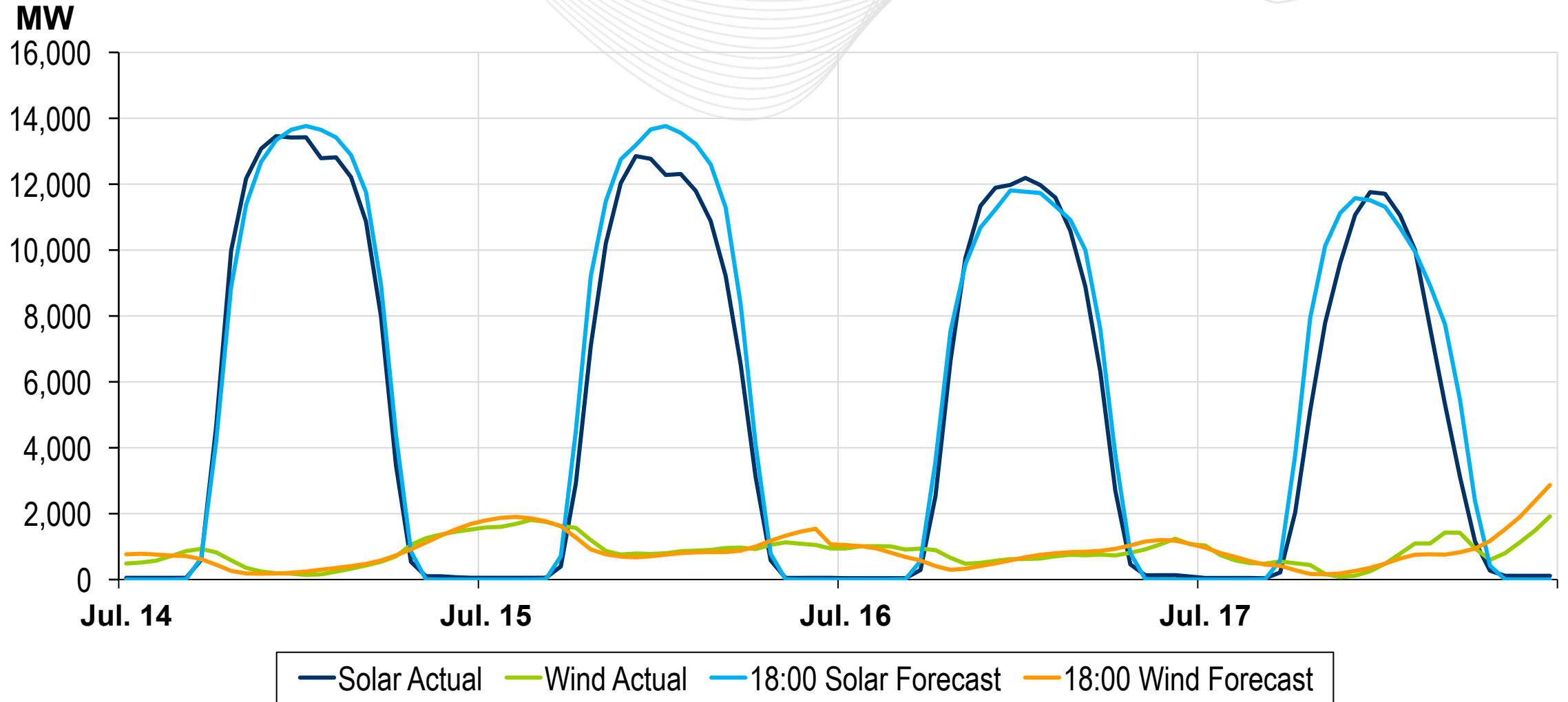
Forecast Performance During July 2026 Heat Wave

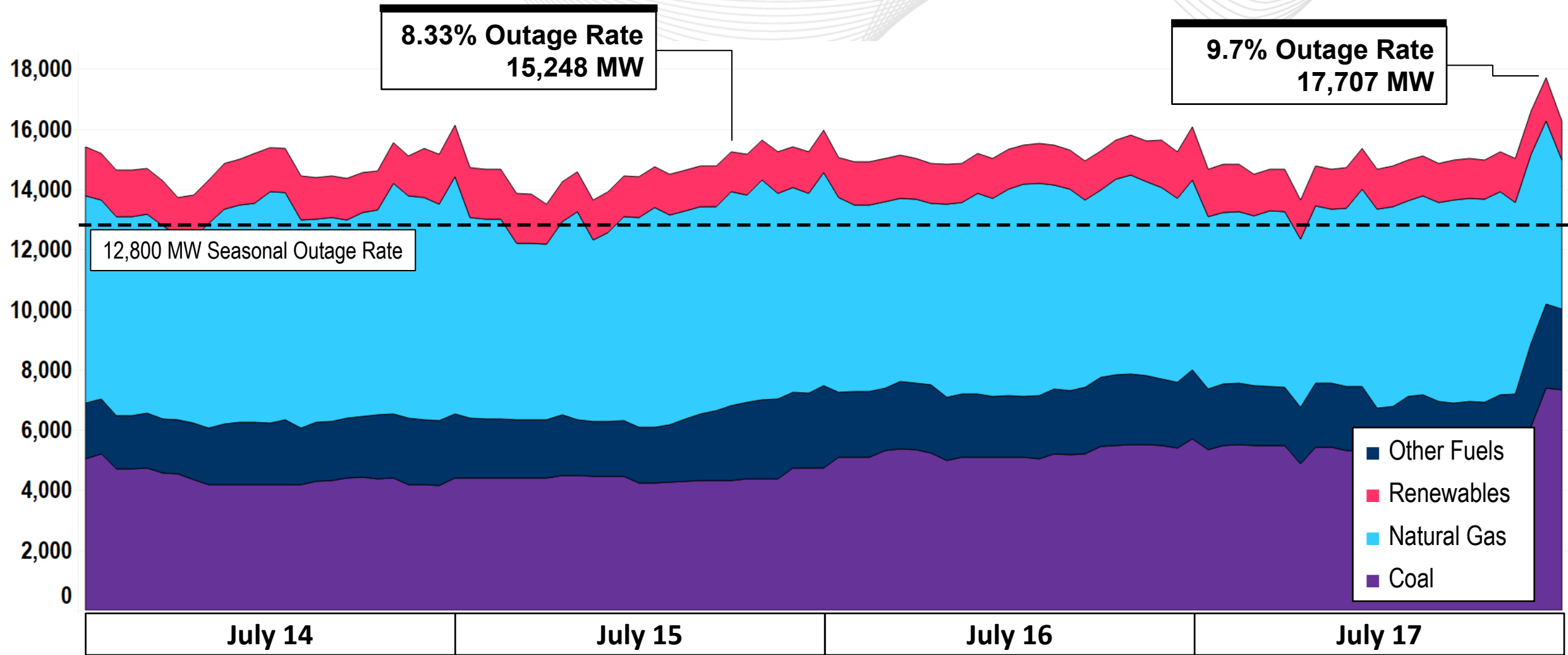


Forecast Error Trend for June 29–July 5, 2026

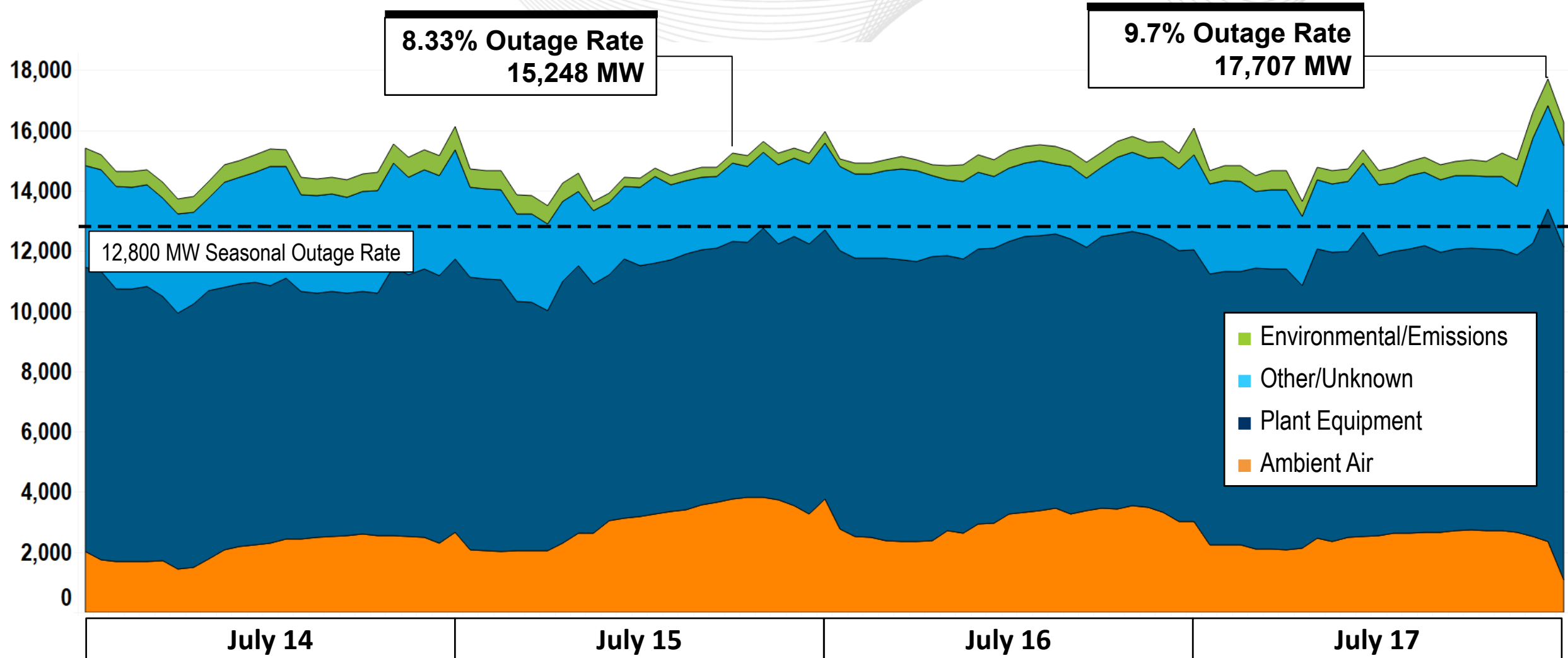


Day-Ahead Solar and Wind Forecast Performance





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



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- 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 58	Units 609	ICAP ~25.3 GW

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

** Data provided to PJM by unit owners*

Transmission Outage Coordination

Transmission Performance

- 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.
- Issued 19 PCLLRWs
 - Thermal and voltage

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Member Hotline

(610) 666-8980

(866) 400-8980

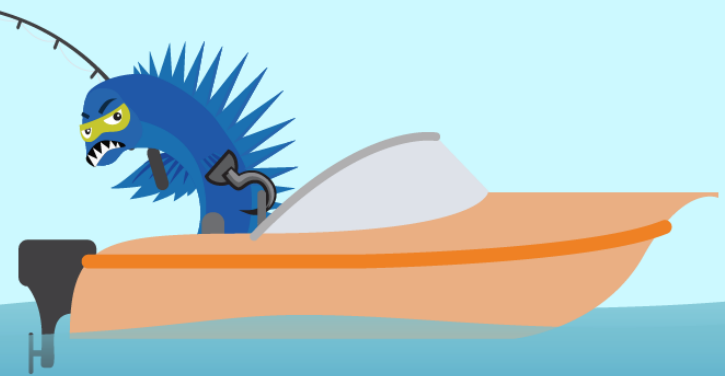
custsvc@pjm.com

**PROTECT THE
POWER GRID**

**THINK BEFORE
YOU CLICK!**



**BE ALERT TO
MALICIOUS PHISHING
EMAILS**



Report suspicious email activity to PJM.
Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com