

June Hot Weather Operations

June 29 – July 5

Members Committee - Webinar
July 27, 2026

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Sr. Manager, Dispatch

Operations Update

- 1** Key Takeaways
- 2** Peak Loads and Emergency Procedures
- 3** Weather, Temperature and Load Forecast Accuracy
- 4** Wind/Solar Forecast and Generation Performance
- 5** Emission Limited Units Waiver
- 6** Scheduled Interchange
- 7** Load Management Availability
- 8** Transmission Performance

Preliminary Instantaneous Peak Load 162,713 MW – July 2nd @ 17:55

Preliminary Unrestricted Peak Load 168,158 MW – July 2nd – All-time Peak

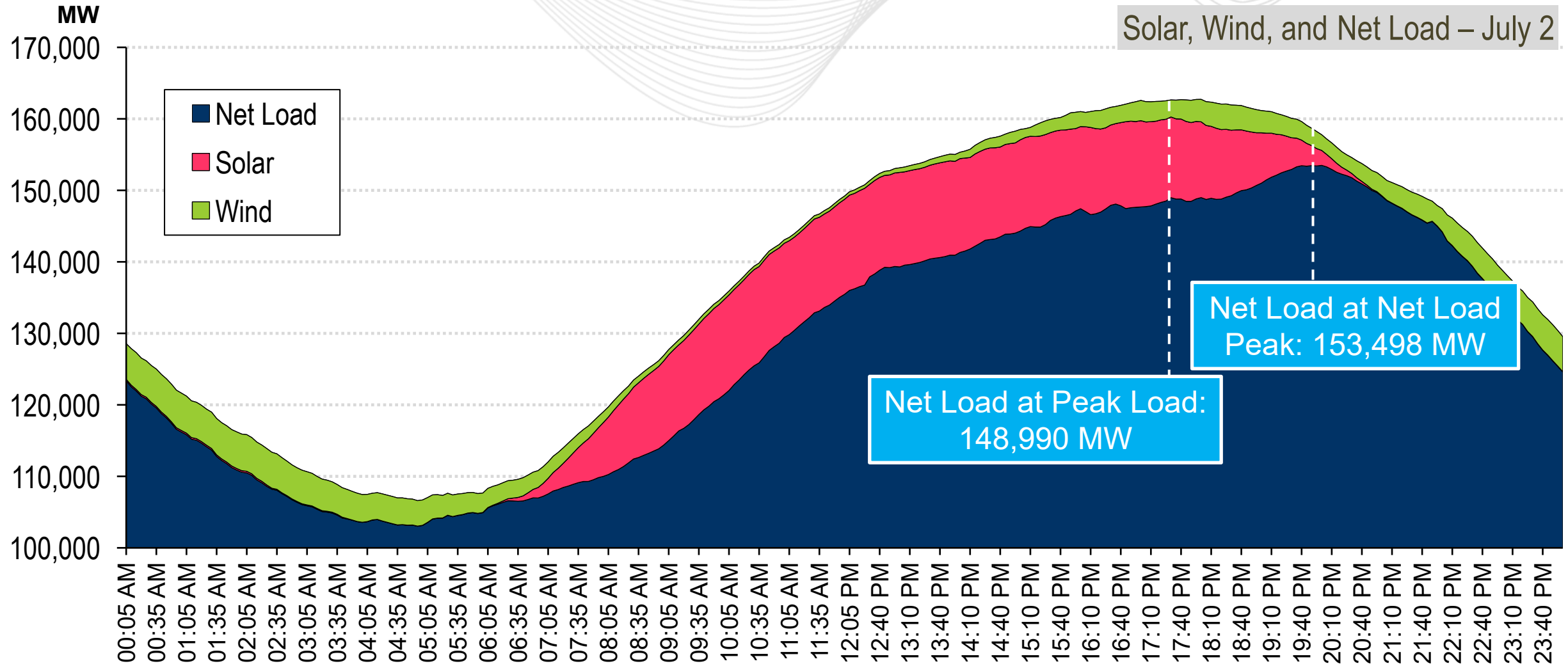
Successes

- Record peak load served reliably during unprecedented heatwave.
- Excellent advanced coordination with internal stakeholders and neighbors.
- Emergency DOE 202c Orders for Emissions and Back-up Generation granted.
- Forecast performed well for record peak event.

Challenges

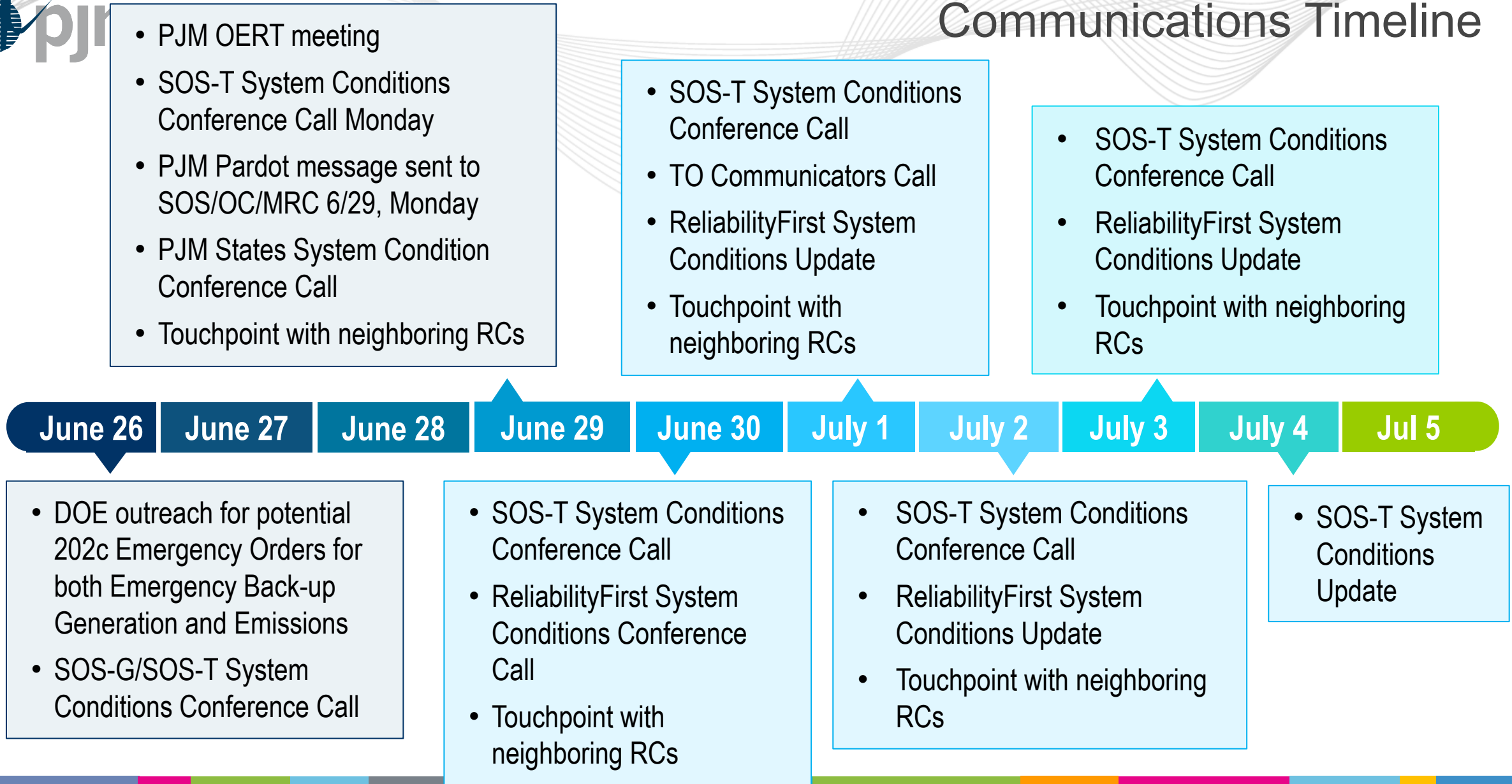
- Load forecasting (modeling) considering holiday and possible saturation.
- Above average generation outage rate.
- Net load peak creates capacity and generation deliverability concerns.
- Emission limitations of generators and notification to PJM.

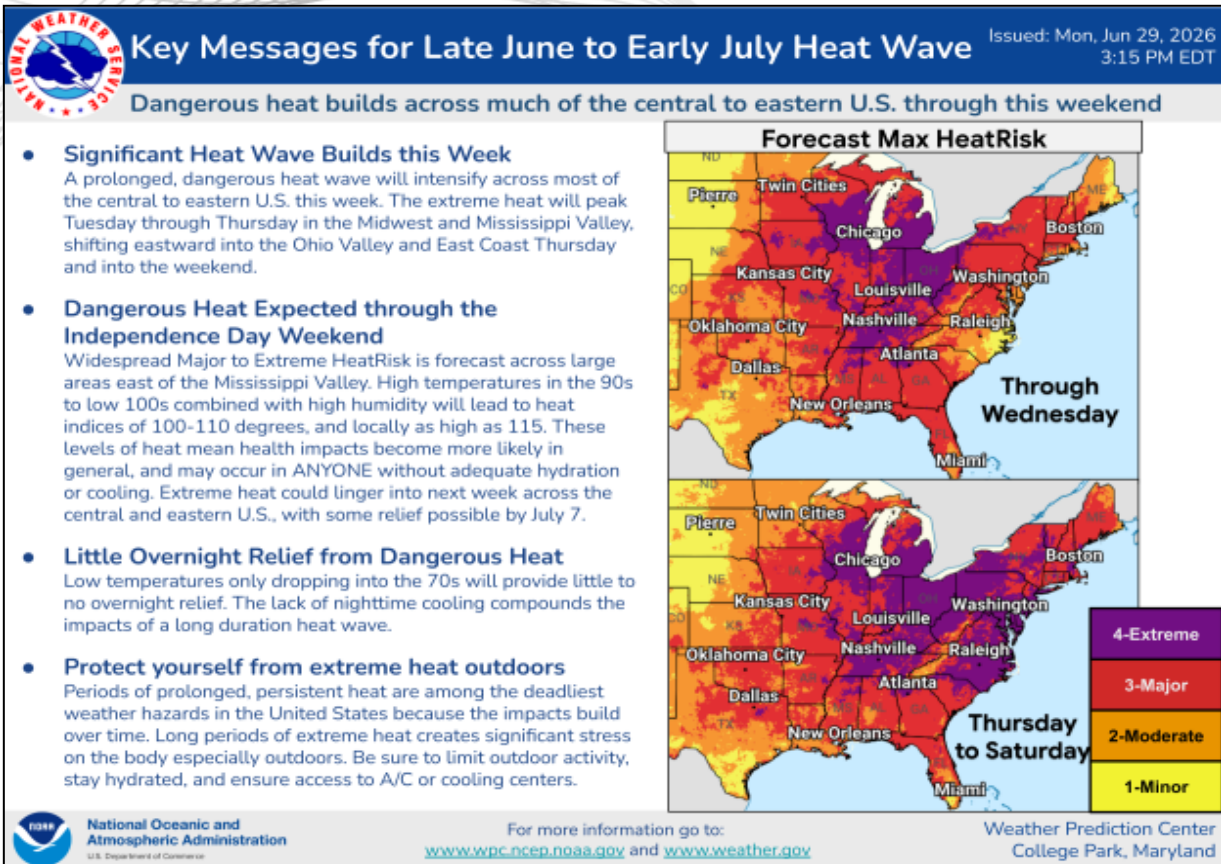
Solar, Wind, and Net Load – July 2



Hot Weather – Emergency Procedures	June 29	June 30	July 1	July 2	July 3	July 4	July 5
Hot Weather Alert	Western Zone			PJM RTO			Mid-Atlantic, Dominion
Max. Generation Alert/ Load Mgmt. Alert (NERC EEA1)				PJM RTO			
Pre-Emergency Load Mgmt. Reduction Action				PJM RTO (Long, Short, Quick)			
Emergency Load Mgmt. Reduction Action (NERC EEA2)				PJM RTO (Long, Short, Quick)			
Max. Gen Emergency Action – Capacity Emergency				Mid-Atlantic, Dominion			
Transmission Security – Local Max. Gen. Action					BGE, Pepco, Dominion		
Transmission Security - Emergency Use of Back-Up Generator Warning				Mid-Atlantic, Dominion	Dominion		
Transmission Security – Deploy All Resources				BGE, Pepco, Dominion			
Transmission Security – Load Mgmt. Alert						BGE, Pepco, Dominion	
TLR				5A – AP South	3A/5A – AP South		
Issued:	Maintenance Outage Recall						
	Low Voltage Alert						
	Heavy Load Voltage Schedule Warning						
	Heavy Load Voltage Action						
www.pjm.com Public				Emergency DOE 202c Orders for Emissions and Back-up Generators granted			

Communications Timeline





Weather – June 29-July 5, 2026 Heat Wave

June 29-July 5, 2026 Heat Wave

Cities	Hottest Air Temperature	Highest Heat Index	Warmest Low Temperature
Chicago	95°F	106°F	80°F
Columbus	97°F	106°F	77°F
Louisville	96°F	107°F	79°F
Philadelphia	102°F	111°F	83°F
Richmond	99°F	114°F	78°F
RTO Ld.-Wtd. Avg	97°F*	105°F*	78°F

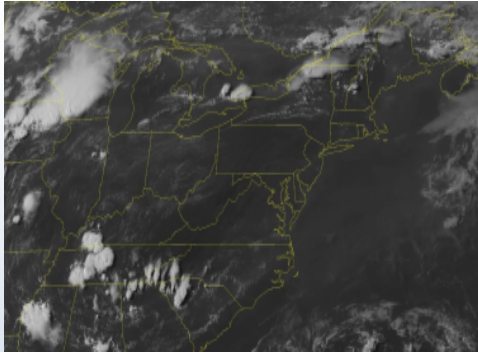
June 29-30: Heat dome builds in with temperatures rising into the 90s in Western Region

July 1-3: Peak of heat in RTO with record setting load weighted temperatures in mid 90s, THI values in mid 80s on July 2. Temperatures reached the 100s in Mid-Atlantic

July 4-5: Thunderstorms increased with heat wave winding down with RTO load weighted temperatures peaking in upper 80s by July 5

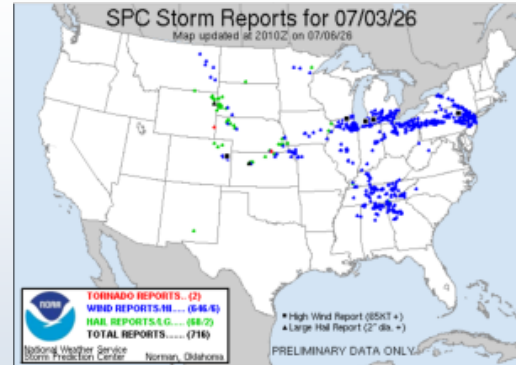
Weather – June 29-July 5, 2026 Heat Wave

July 2

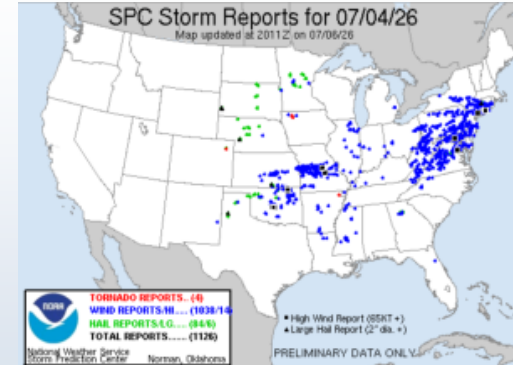


Mostly sunny late afternoon
in RTO on hottest day

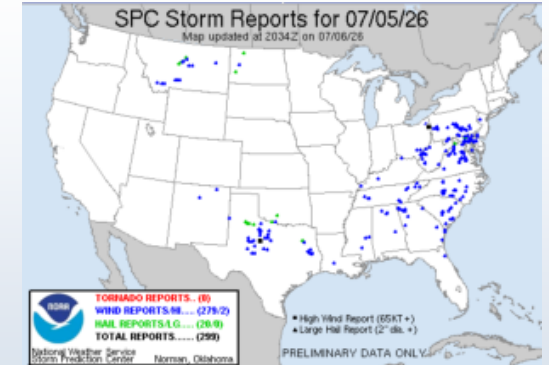
July 3



July 4



July 5



Clusters of strong-severe thunderstorms with damaging winds and
flooding, leading to cooler temperatures over holiday weekend

Temperature-Humidity Index (THI):

Combination of temperature and
humidity to assess heat stress

Average 2015-2025
Summer
Max Daily THI

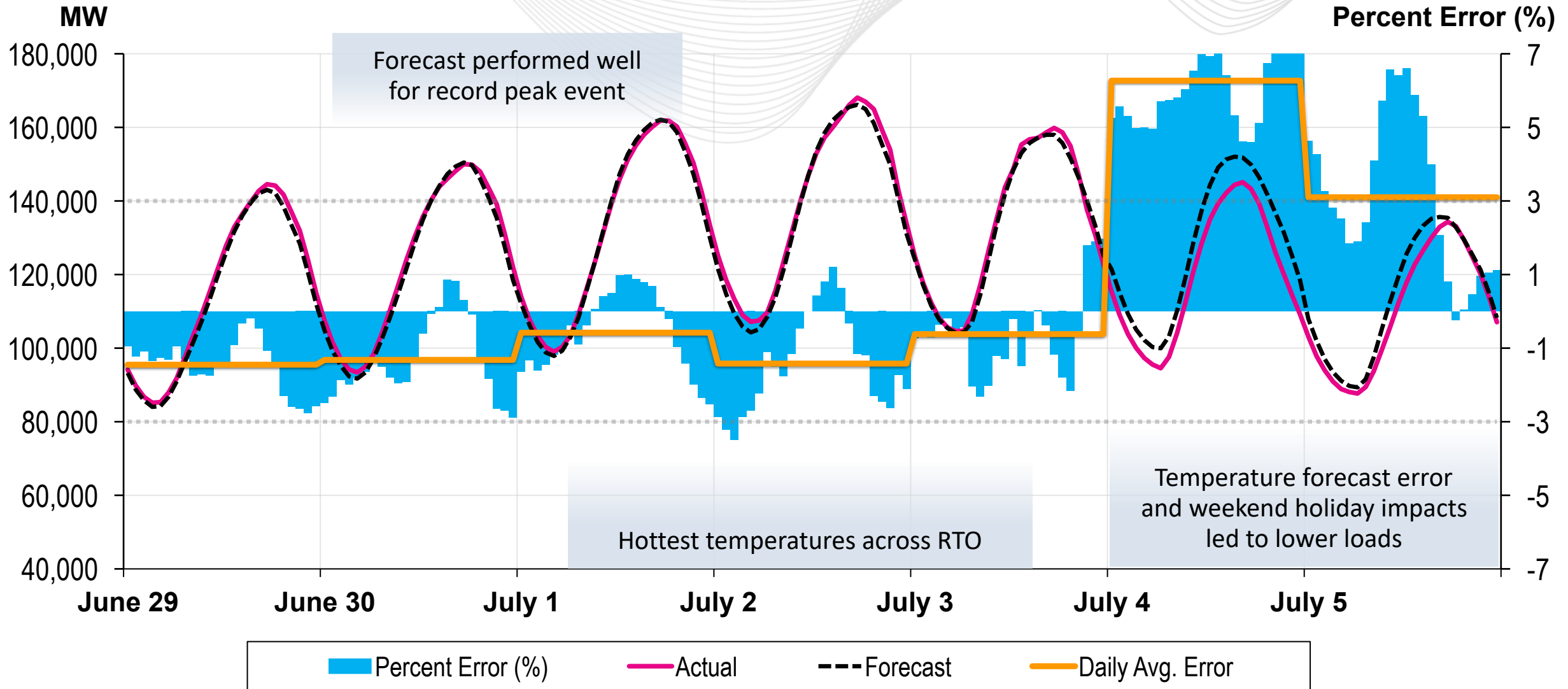
76°

June 29-July 5, 2026
Max Daily
Load-Weighted THI

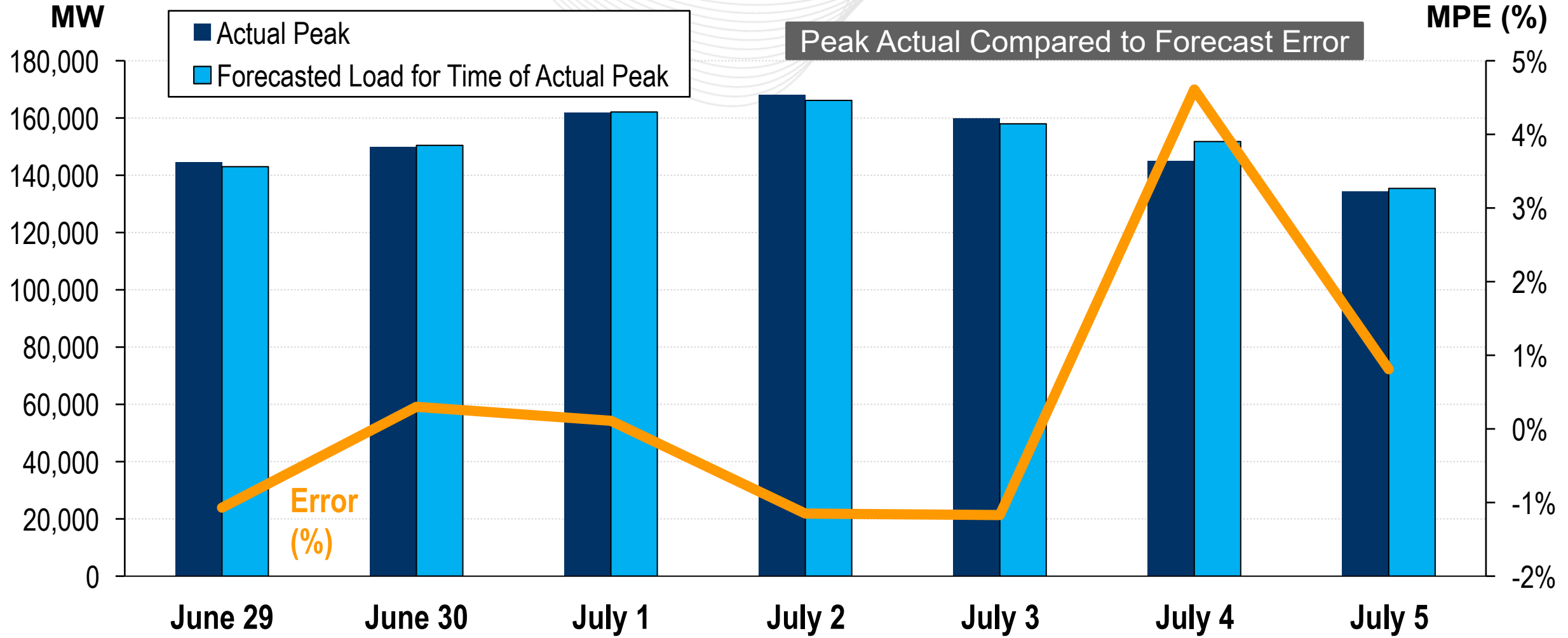
85°

All-time record

Forecast Performance During July 2026 Heat Wave



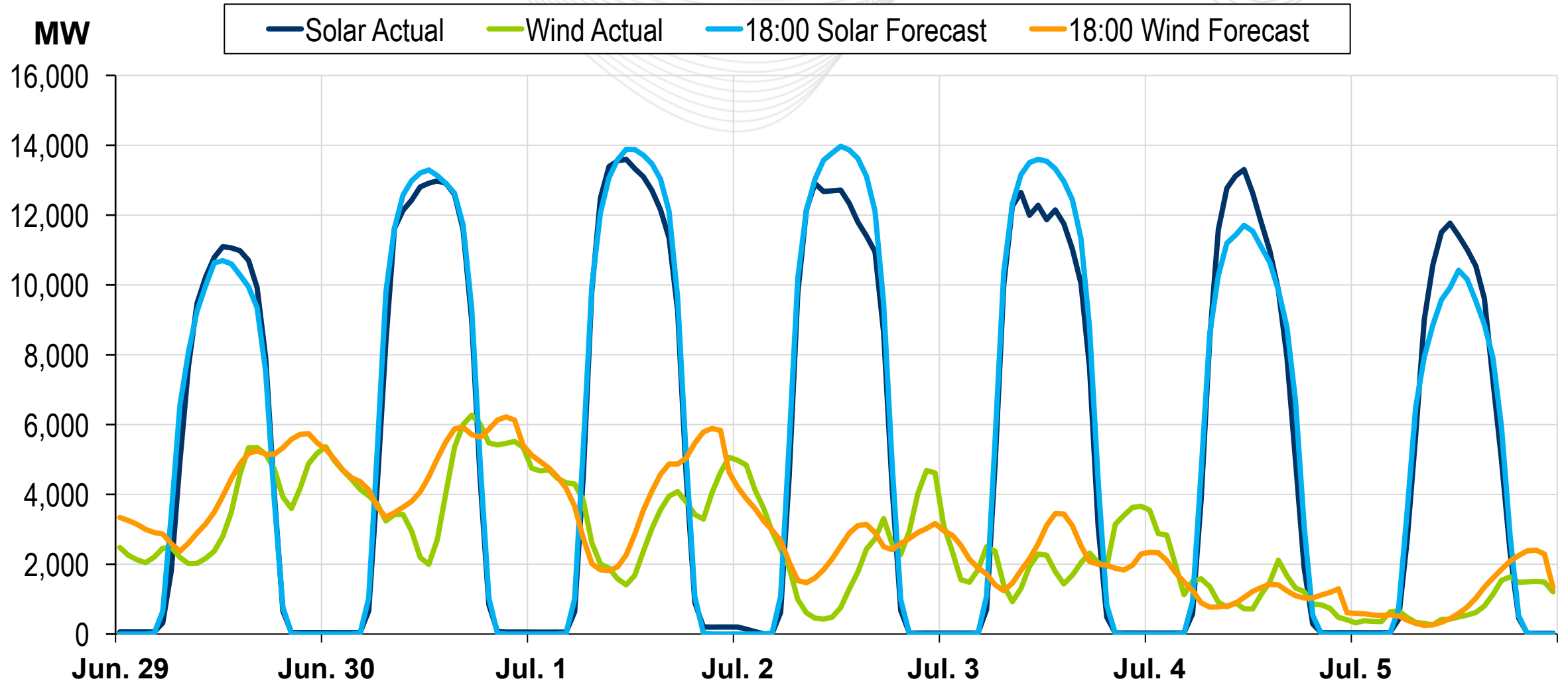
Forecast Error Trend for Jun. 29–Jul 5, 2026

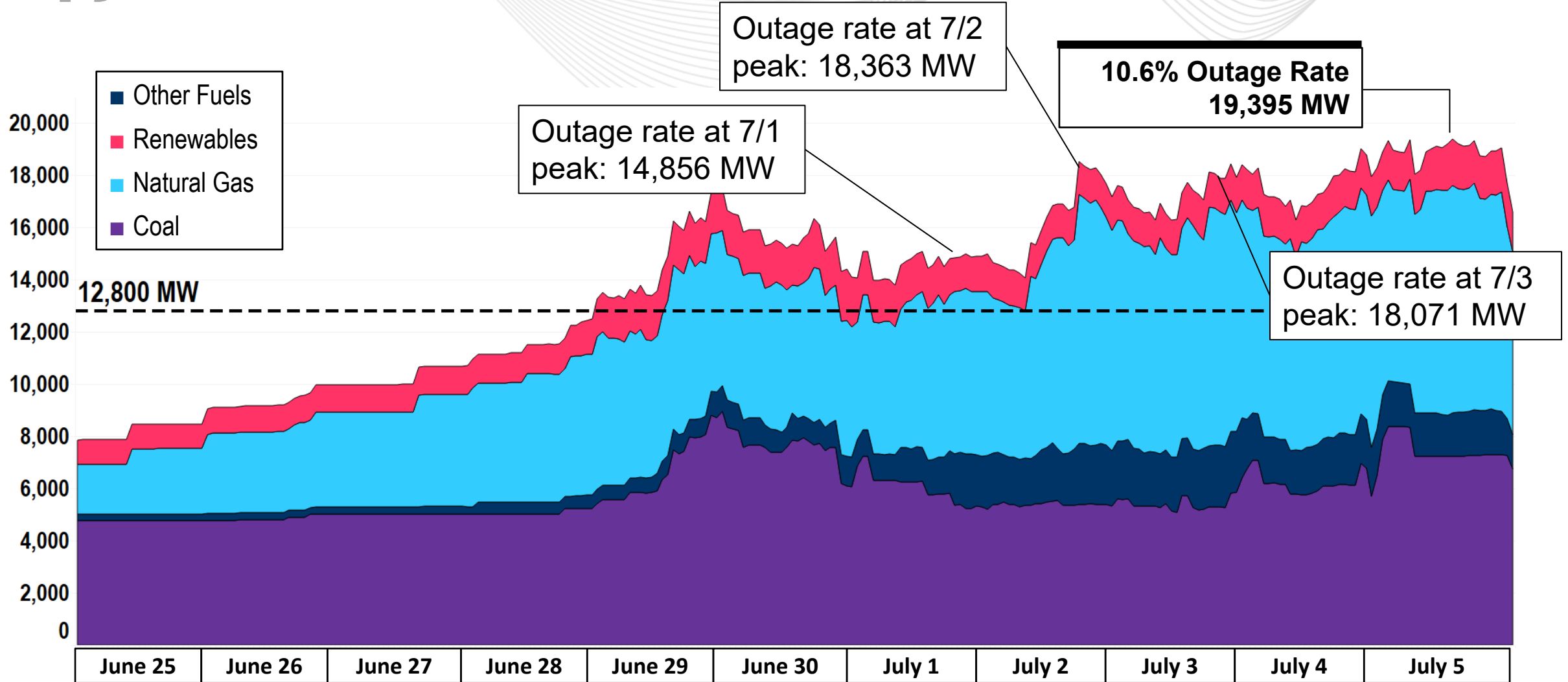


Peak Loads and Daily High Temperatures and Temperature Humidity Indices

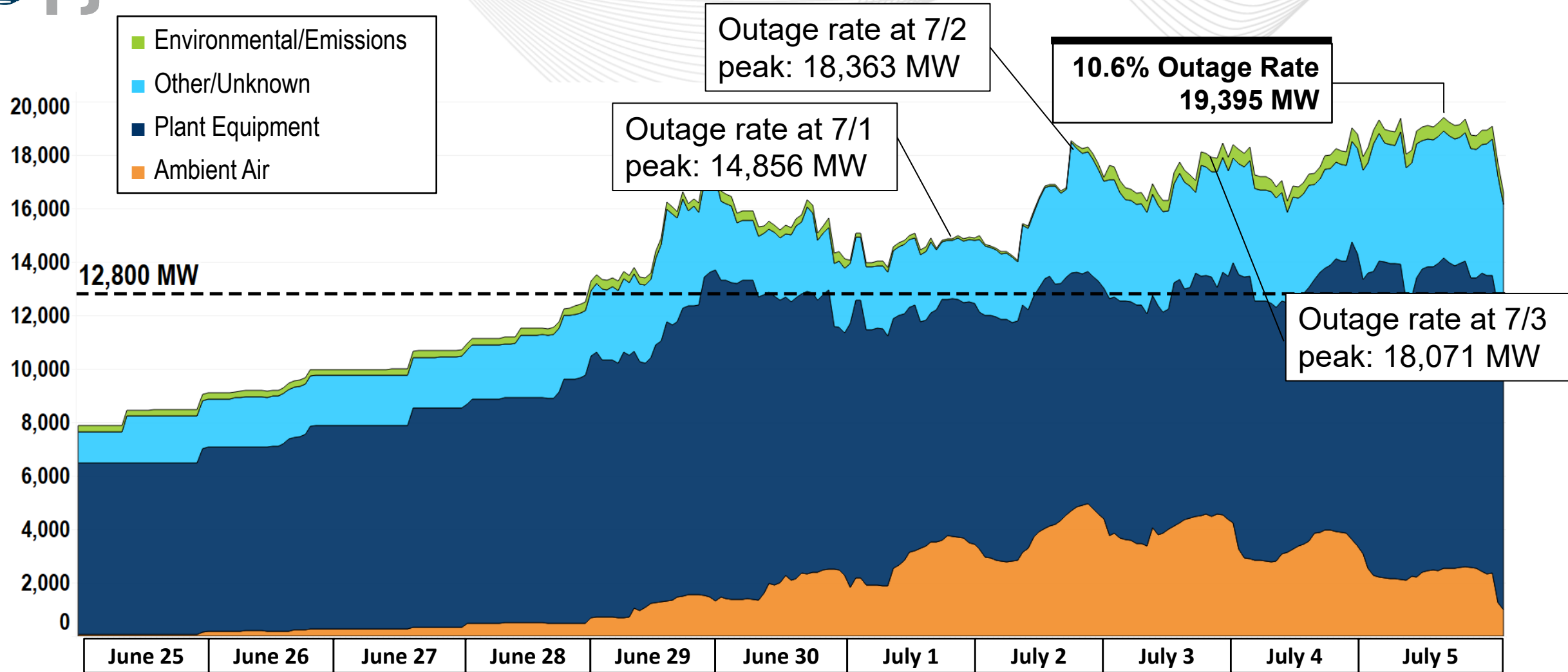
		2012	2013	2016		2019	2024	2025					2026				
		7/17	7/18	7/25	8/11	7/19	7/16	6/23	6/24	6/25	7/28	7/29	6/29	6/30	7/1	7/2	7/3
Chicago, IL (ORD)	Temp.	99	94	89	92	93	85	94	93	87	90	92	92	94	95	94	86
	THI	84	83	78	83	85	79	83	83	81	83	82	83	85	82	83	82
Columbus, OH (CMH)	Temp.	98	92	92	92	92	90	94	95	91	88	88	90	92	95	95	97
	THI	84	83	82	83	83	81	82	83	82	82	81	82	84	85	84	85
Pittsburgh, PA (PIT)	Temp.	96	91	93	90	87	92	92	93	90	89	89	87	92	93	92	94
	THI	82	82	82	82	81	80	82	82	82	80	81	80	82	83	83	83
Philadelphia, PA (PHL)	Temp.	97	97	96	94	94	98	99	100	98	94	98	89	90	97	102	102
	THI	82	85	86	84	84	85	86	85	85	83	85	79	79	86	87	87
Washington, DC (DCA)	Temp.	100	94	99	97	95	103	97	98	95	94	94	88	89	96	101	102
	THI	84	86	87	85	85	86	86	85	85	84	84	79	80	86	87	87
Richmond, VA (RIC)	Temp.	95	94	95	92	94	97	97	99	98	92	93	85	88	93	96	98
	THI	83	84	84	83	85	86	85	85	85	84	83	79	78	85	86	87
RTO Load-Weighted Average	Temp.	96	93	93	91	93	93	95	95	92	90	91	88	90	95	97	95
	THI	83	83	83	83	84	83	84	83	83	82	83	80	81	84	85	84
RTO Peak Load (GW)		154.3	157.5	150.2	152.2	151.6	152.6	160.2	158.1	152.7	151.5	153.7	144.2	149.7	161.6	168.3	159.4

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. 202-26-32) 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

Generators Covered by DOE 202c

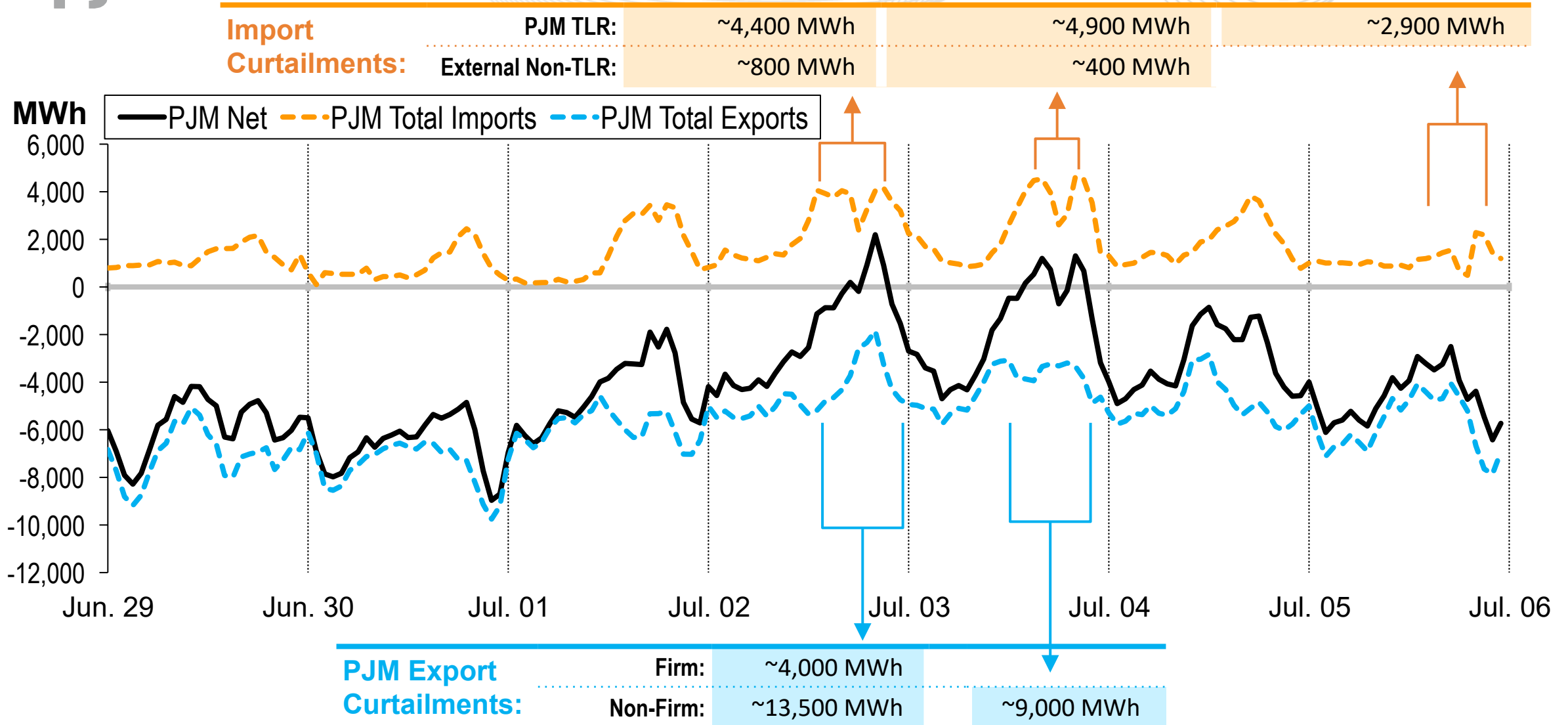
Plants	Units	ICAP
51	594	~20.4 GW

Generators Operated Above Permit Limit Under DOE 202c

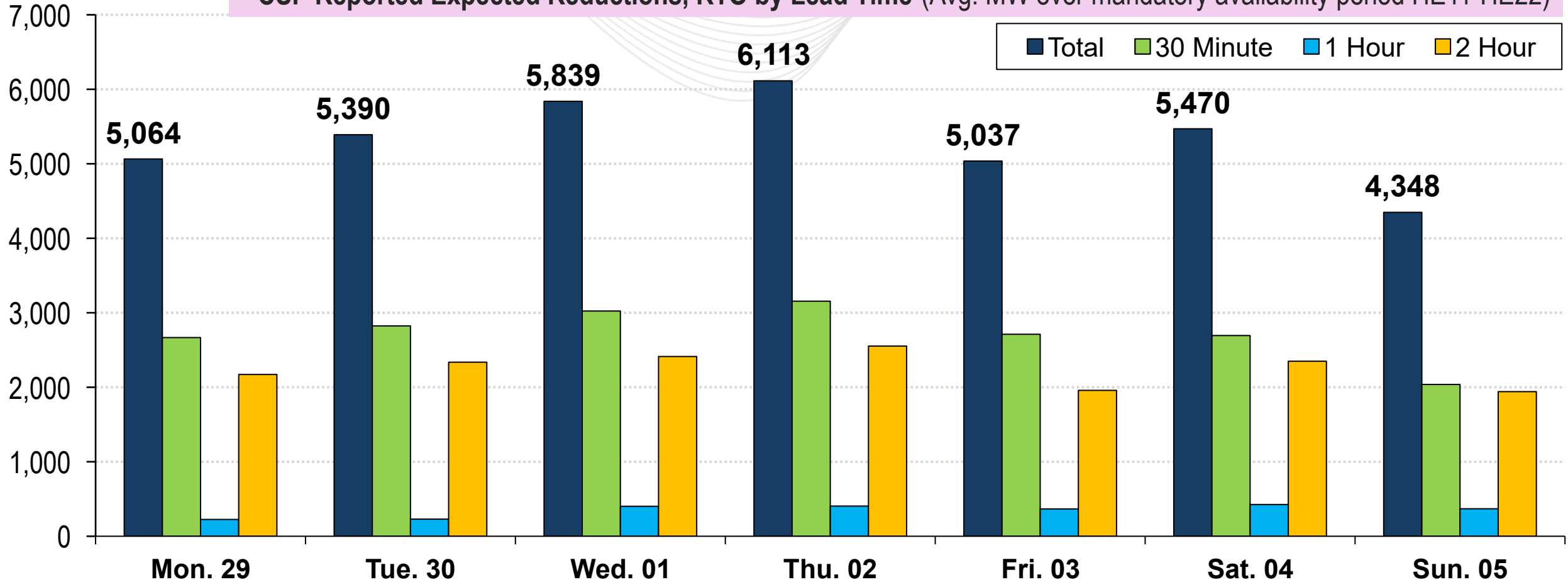
Plants	Units	ICAP	Total Hours
17	94	~3.25 GW	1107 *

** Data provided to PJM by unit owners*

PJM Net Schedule Interchange



CSP Reported Expected Reductions, RTO by Lead Time (Avg. MW over mandatory availability period HE11-HE22)



Issued reductions for all lead times and products RTO-wide:

July 2: ~6,113 MW

July 3: ~5,037 MW

Transmission Outage Coordination

Transmission Performance

- PJM held an 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.
- Multiple emergency transmission repairs were coordinated over the midnight period to mitigate impact during peak
- IROL Reactive Interfaces limited into BGE/PEPCO/Dominion area requiring NERC Transmission Loading Relief and PJM Emergency Procedures.
- Issued 68 PCLLRWs
 - Thermal and voltage

Presenter/SME:
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Member Hotline

(610) 666-8980

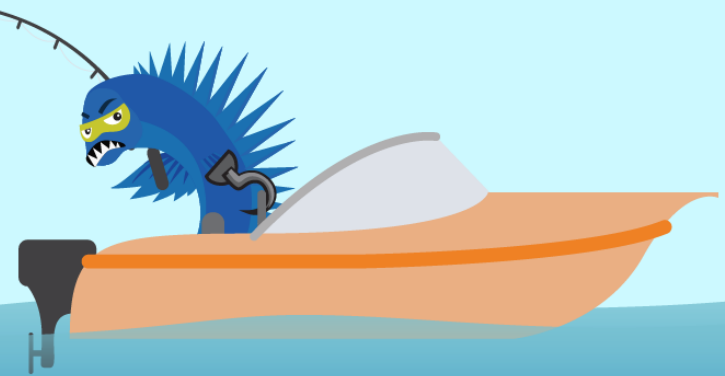
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