



June Hot Weather Operations June 29 – July 5

Operating Committee
July 9, 2026

Paul Dajewski
Sr. Manager, Dispatch

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- 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

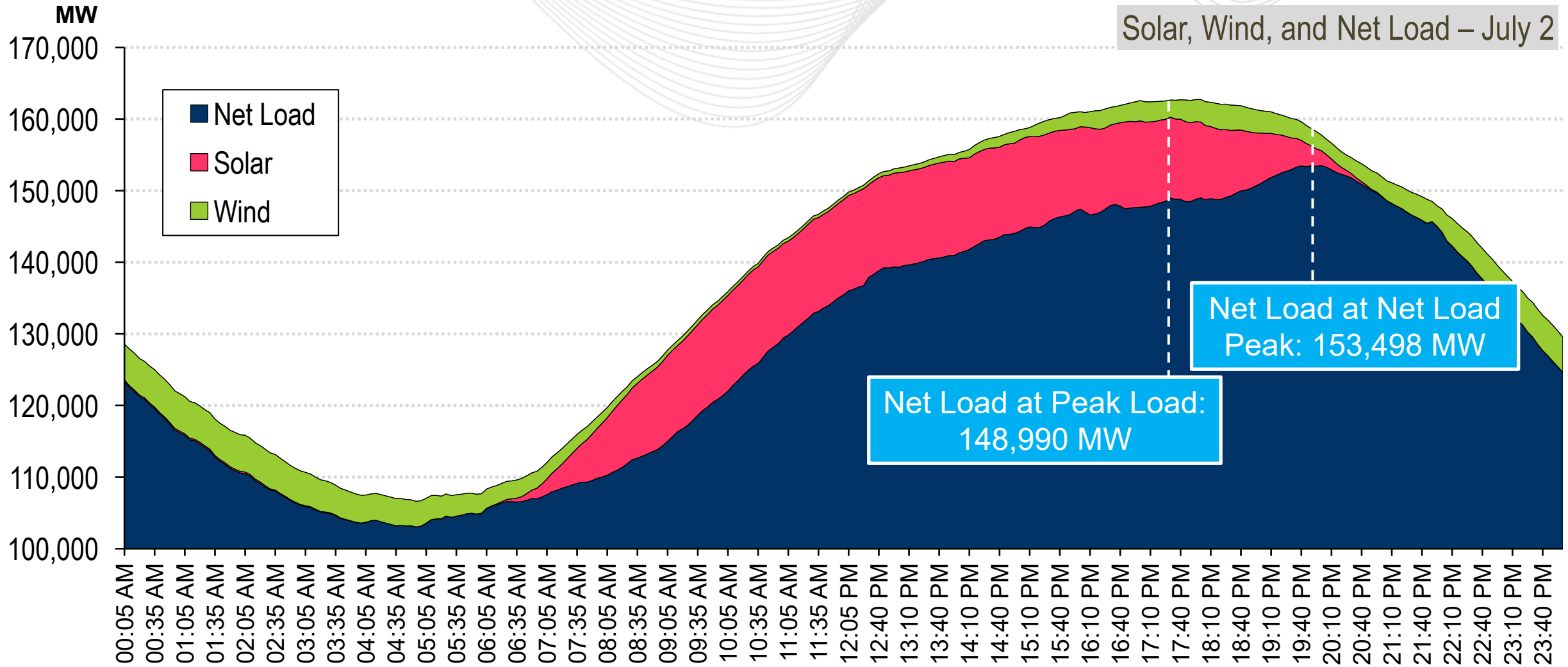
Successes

- 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

Emergency DOE 202c Orders for Emissions and Back-up Generators granted



Communications Timeline

- PJM OERT meeting
- SOS-T System Conditions Conference Call Monday
- PJM Pardot message sent to SOS/OC/MRC 6/29, Monday
- PJM States System Condition Conference Call
- Touchpoint with neighboring RCs

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

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

June 26

June 27

June 28

June 29

June 30

July 1

July 2

July 3

July 4

Jul 5

- DOE outreach for potential 202c Emergency Orders for both Emergency Back-up Generation and Emissions
- SOS-G/SOS-T System Conditions Conference Call

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

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

- SOS-T System Conditions Update

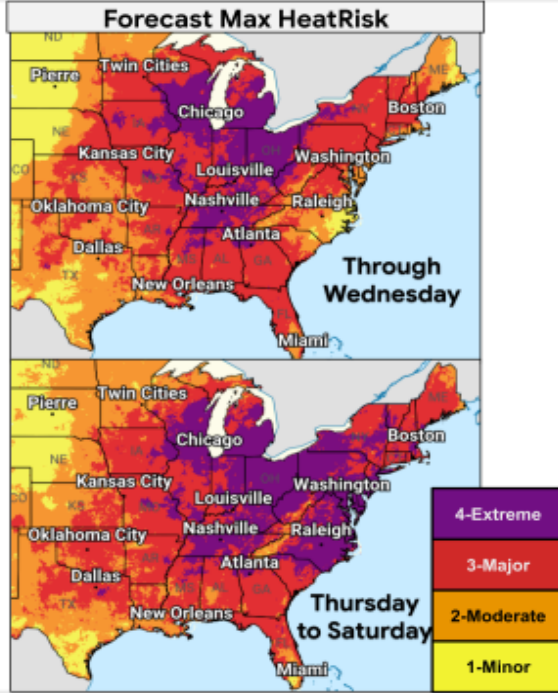


Key Messages for Late June to Early July Heat Wave

Issued: Mon, Jun 29, 2026
3:15 PM EDT

Dangerous heat builds across much of the central to eastern U.S. through this weekend

- Significant Heat Wave Builds this Week**
A prolonged, dangerous heat wave will intensify across most of the central to eastern U.S. this week. The extreme heat will peak Tuesday through Thursday in the Midwest and Mississippi Valley, shifting eastward into the Ohio Valley and East Coast Thursday and into the weekend.
- Dangerous Heat Expected through the Independence Day Weekend**
Widespread Major to Extreme HeatRisk is forecast across large areas east of the Mississippi Valley. High temperatures in the 90s to low 100s combined with high humidity will lead to heat indices of 100-110 degrees, and locally as high as 115. These levels of heat mean health impacts become more likely in general, and may occur in ANYONE without adequate hydration or cooling. Extreme heat could linger into next week across the central and eastern U.S., with some relief possible by July 7.
- Little Overnight Relief from Dangerous Heat**
Low temperatures only dropping into the 70s will provide little to no overnight relief. The lack of nighttime cooling compounds the impacts of a long duration heat wave.
- Protect yourself from extreme heat outdoors**
Periods of prolonged, persistent heat are among the deadliest weather hazards in the United States because the impacts build over time. Long periods of extreme heat creates significant stress on the body especially outdoors. Be sure to limit outdoor activity, stay hydrated, and ensure access to A/C or cooling centers.



National Oceanic and Atmospheric Administration
 For more information go to: www.wpc.ncep.noaa.gov and www.weather.gov
 Weather Prediction Center
 College Park, Maryland

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

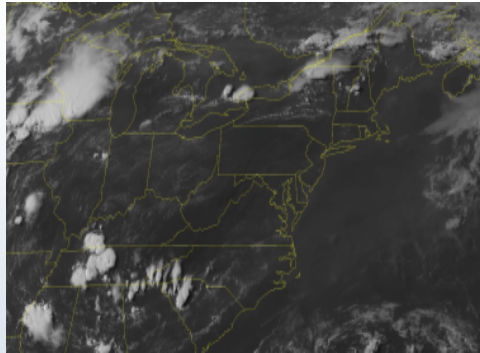
June 29-30: Heat dome builds in with temperatures rising into the 90s in Western Region

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

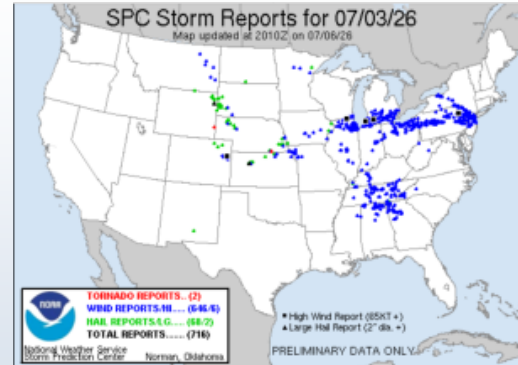


July 2



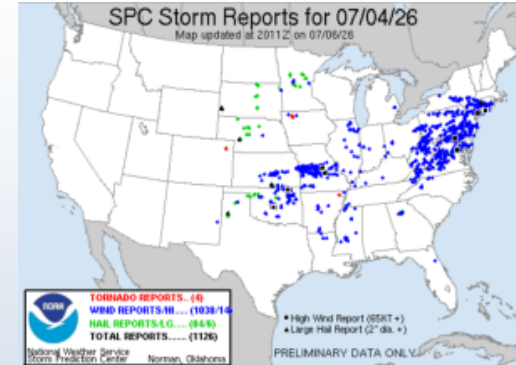
Mostly sunny late afternoon in RTO on hottest day

July 3

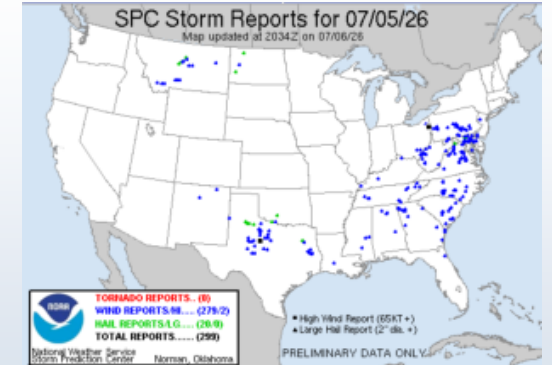


Clusters of strong-severe thunderstorms with damaging winds and flooding, leading to cooler temperatures over holiday weekend

July 4



July 5



Temperature-Humidity Index (THI):

Combination of temperature and humidity to assess heat stress

**Average 2015-2025
Summer
Max Daily THI**

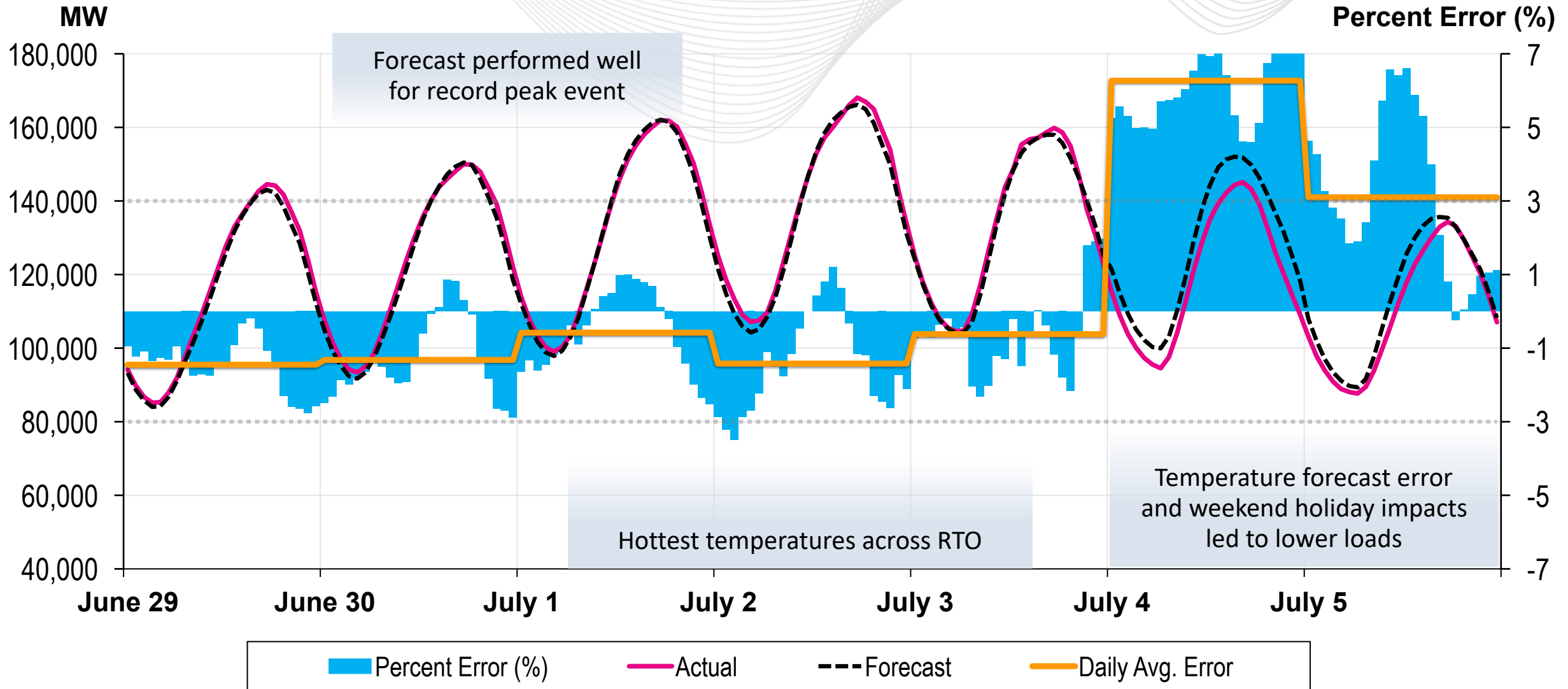
76°

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

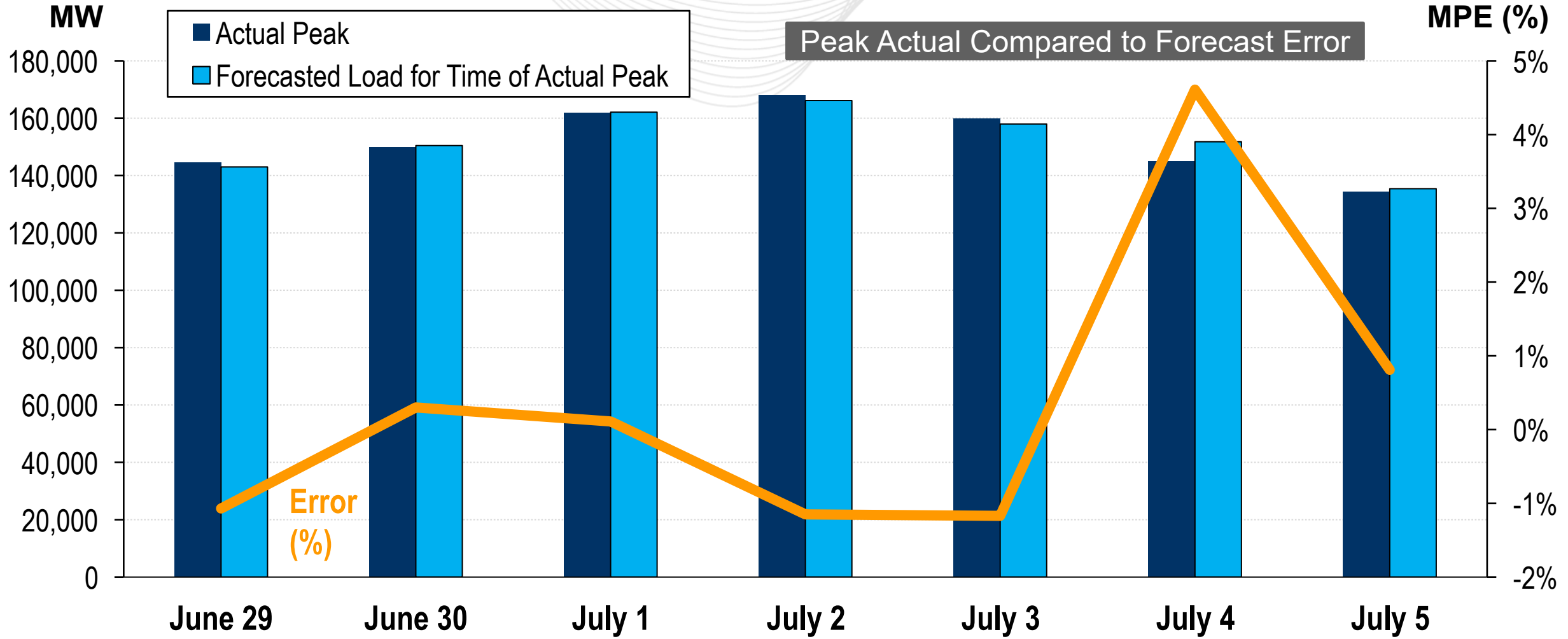
85°

All-time record

Forecast Performance During July 2026 Heat Wave



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

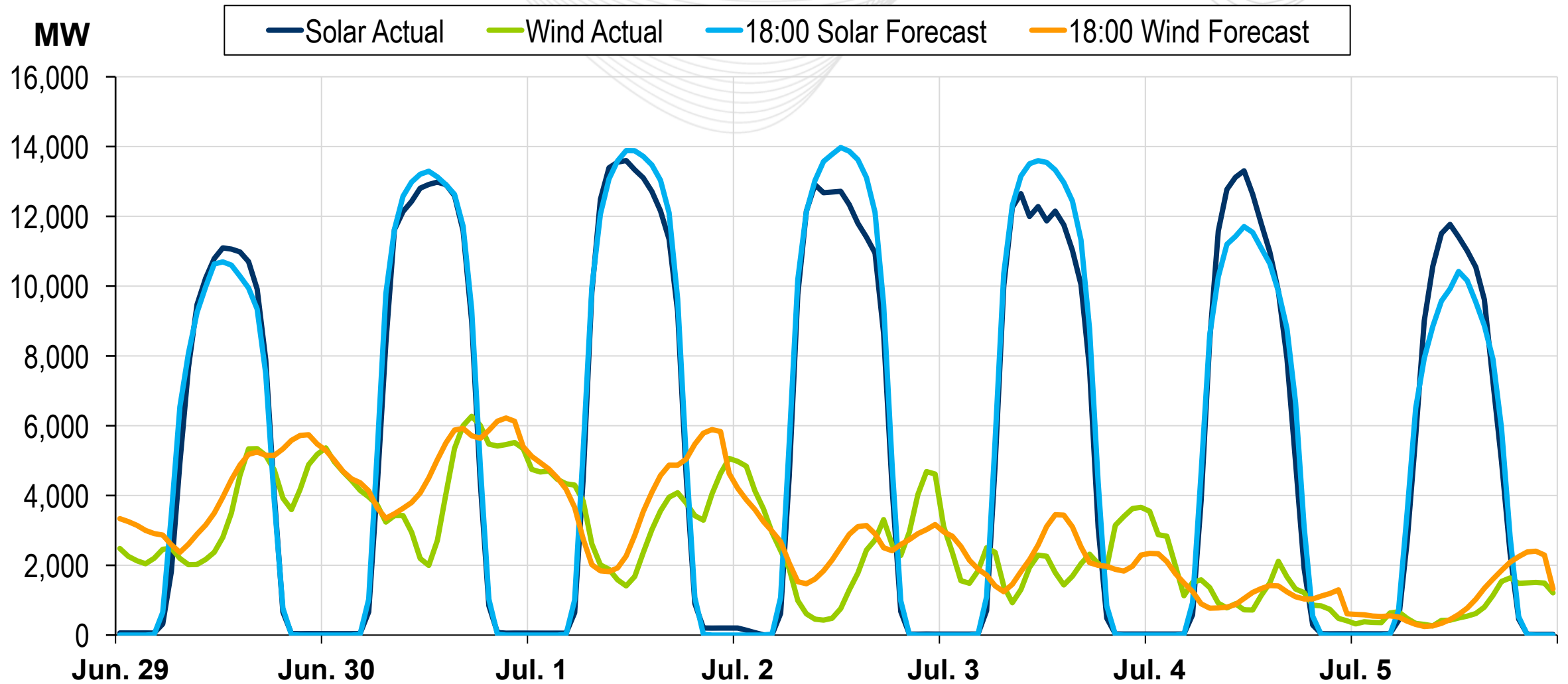


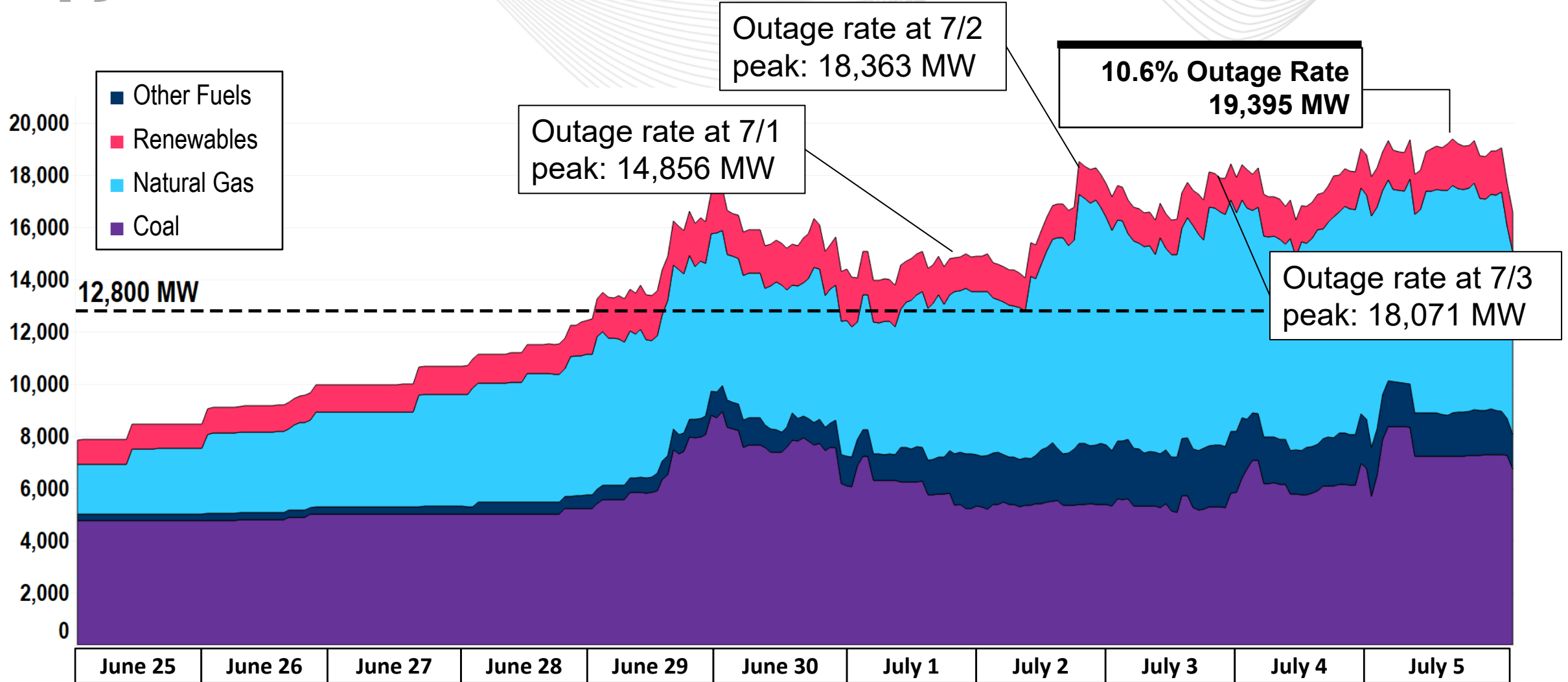


Peak Loads and Daily High Temperatures and Temperature Humidity Indices

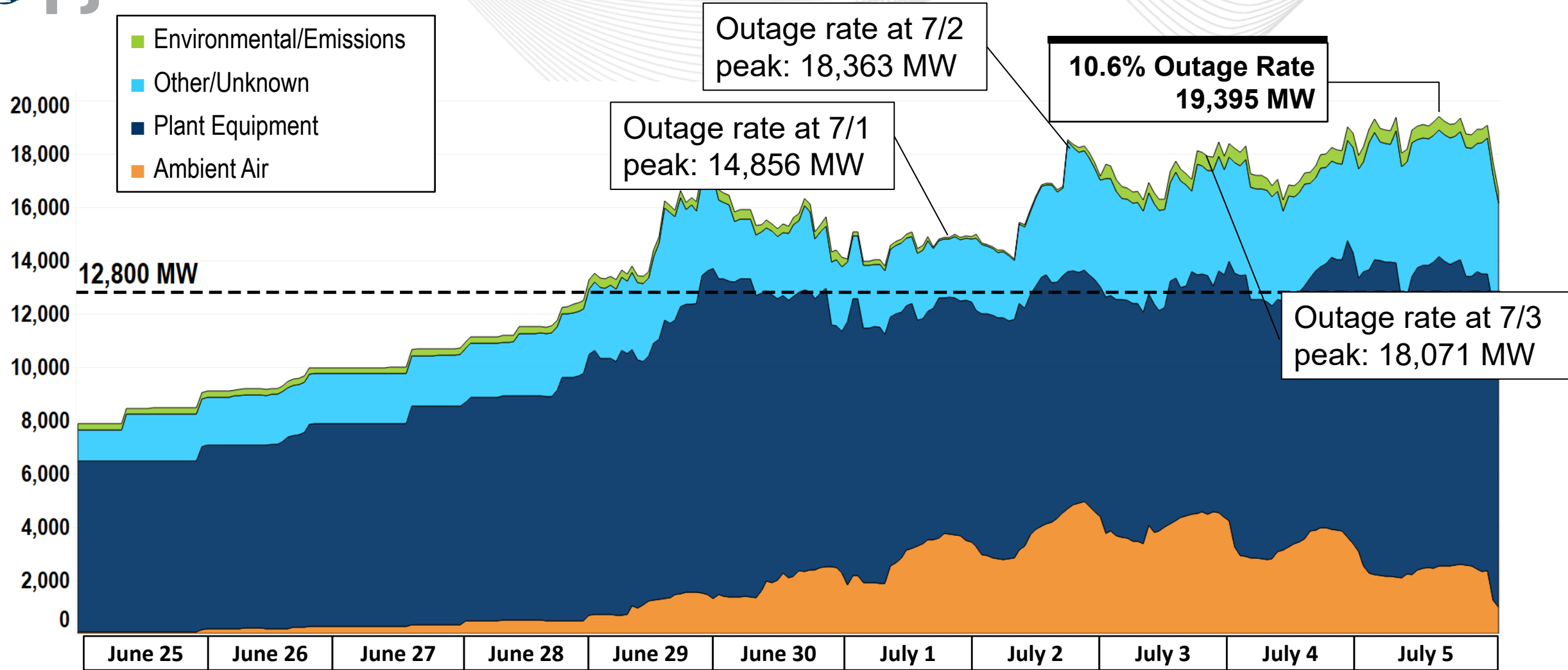
		2012	2013	2016		2019	2024	2025					2026				
		7/17	7/18	7/25	8/11	7/19	7/16	6/23	6/24	6/25	7/28	7/29	6/29	6/30	7/1	7/2	7/3
Chicago, IL (ORD)	Temp.	99	94	89	92	93	85	94	93	87	90	92	92	94	95	94	86
	THI	84	83	78	83	85	79	83	83	81	83	82	83	85	82	83	82
Columbus, OH (CMH)	Temp.	98	92	92	92	92	90	94	95	91	88	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

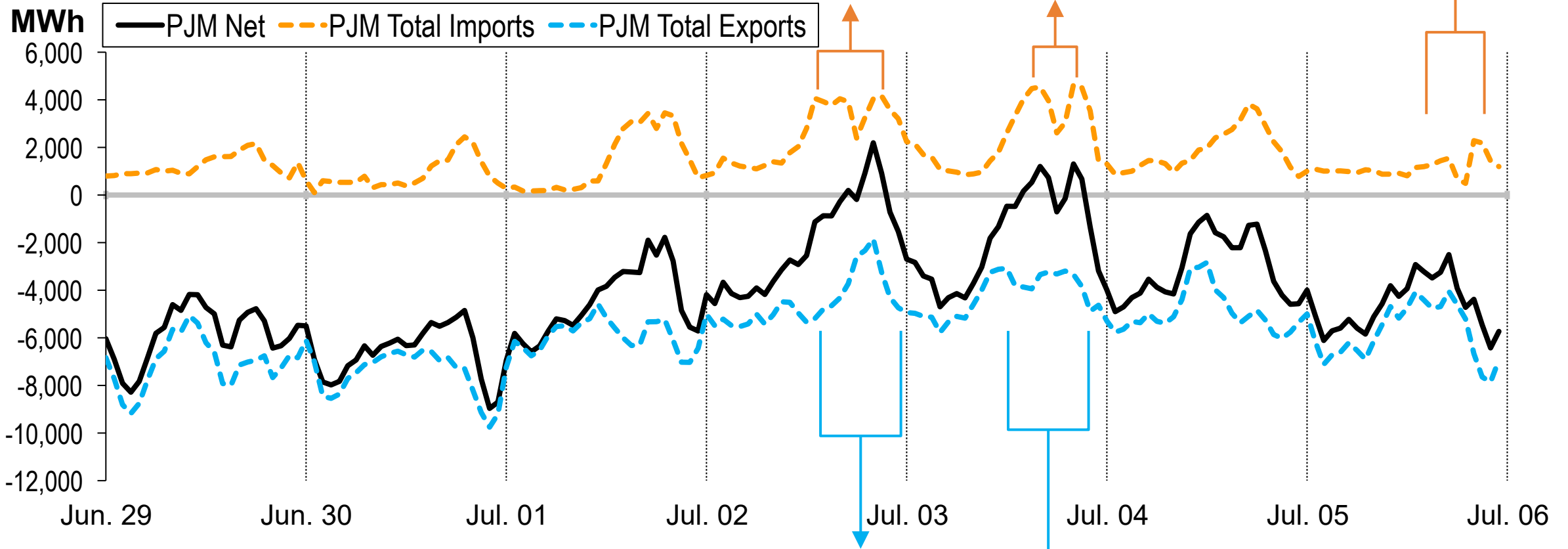
Plants	Units	ICAP
51	594	~20.4 GW

Generators Operated Above Permit Limit Under DOE 202c

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

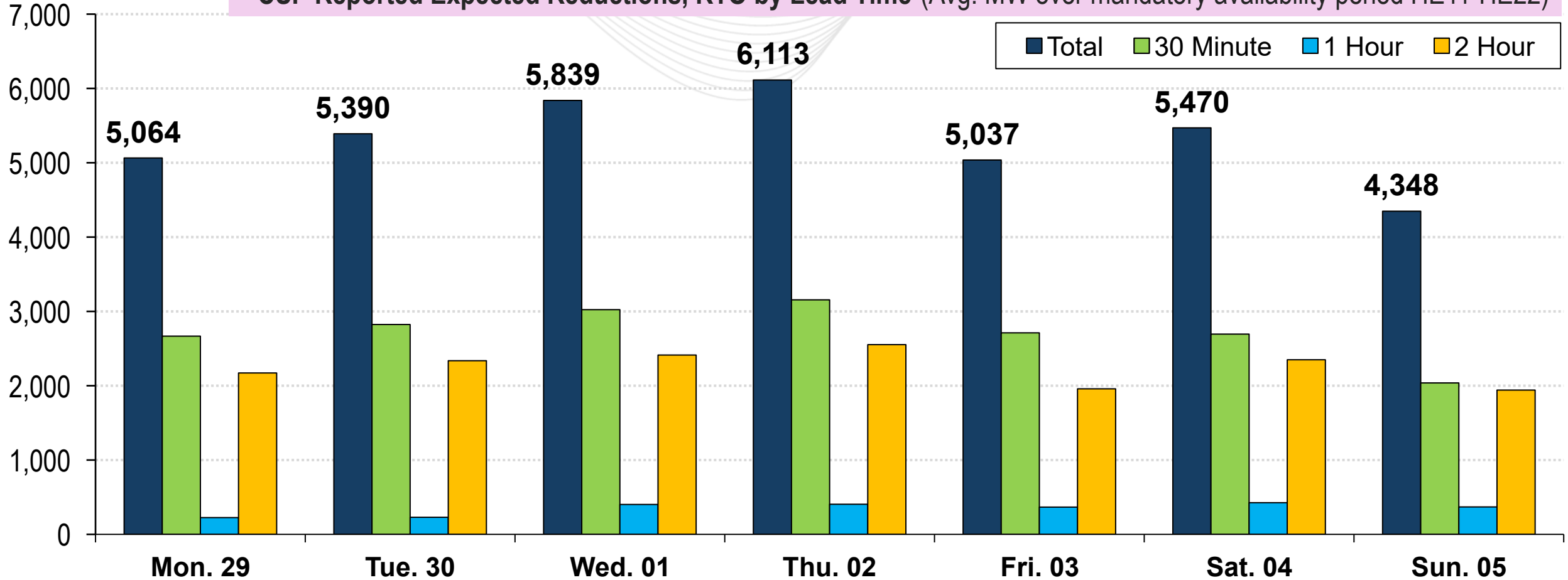
** Data provided to PJM by unit owners*

Import Curtailments:	PJM TLR:	~4,400 MWh	~4,900 MWh	~2,900 MWh
	External Non-TLR:	~800 MWh	~400 MWh	



PJM Export Curtailments:	Firm:	~4,000 MWh
	Non-Firm:	~13,500 MWh

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

(866) 400-8980

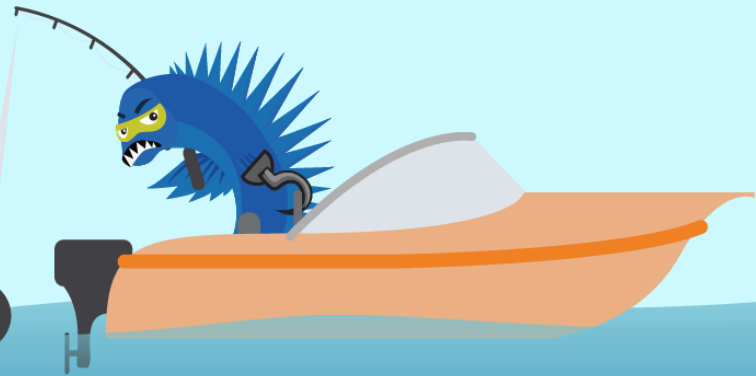
custsvc@pjm.com

**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**