

September Hot Weather Operations August 31–September 4

Operating Committee
October 8, 2026

Paul Dajewski
Sr. Manager – Dispatch

Operations Update

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

Preliminary Instantaneous Peak Load 152,825 MW – September 1 @ 17:30

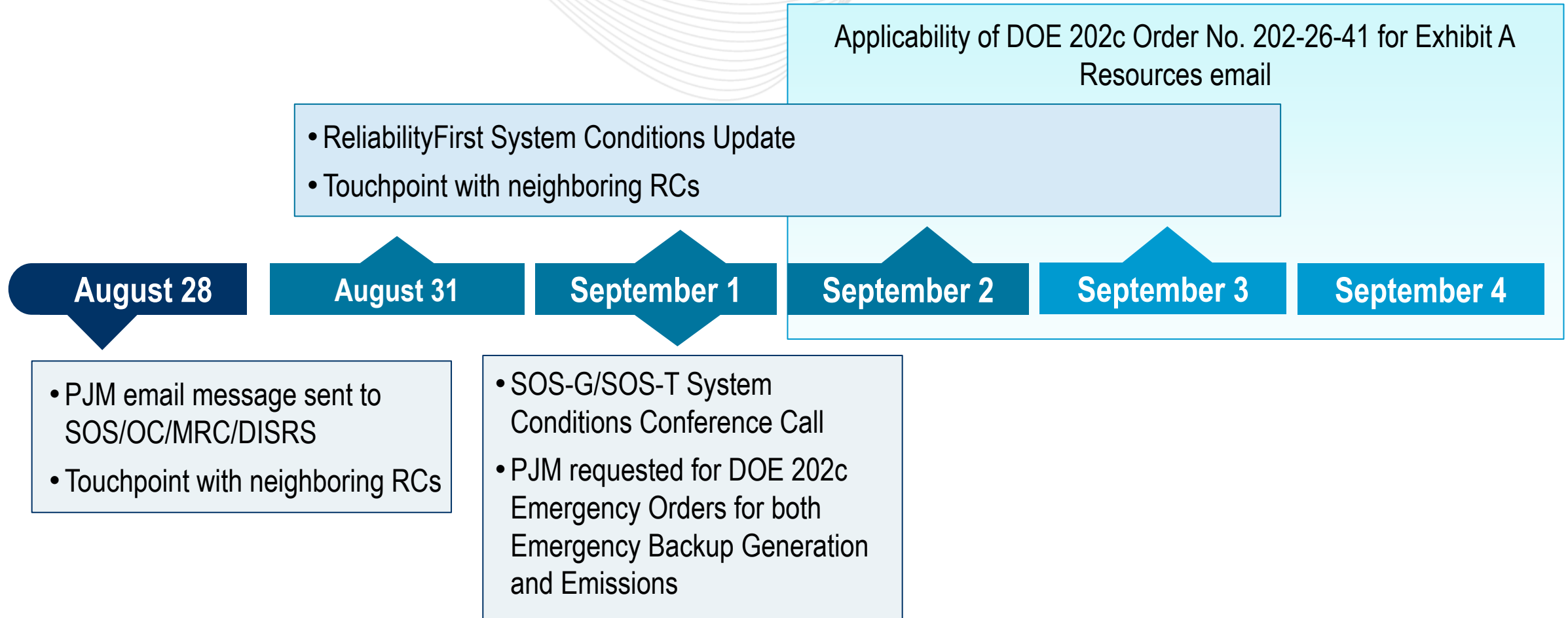
Successes

- Consolidated Emergency DOE 202c Order, which covered both Emissions and Emergency Use of Back-up Generators at Large Loads obtained on short notice
- Communication of applicability of DOE 202c Order No. 202-26-41 for Exhibit A Resources

Challenges

- Rapidly changing temperature forecasts and associated weather systems moving across the PJM footprint caused increased load forecast uncertainty
- Balancing reliability needs with transmission and generation limitations required continuous operational reassessment
- Neighboring Systems reliance on Firm Transmission Service to serve load

Hot Weather – Emergency Procedures	August 31	September 1	September 2	September 3	September 4	September 5
Hot Weather Alert	PJM RTO					
Max. Generation Alert / Load Mgmt. Alert (NERC EEA1)		PJM RTO				
Pre-Emergency Load Management Action		BGE / PEP / DOM / AEP / CE 120 min & 60 min				
TLR – Conastone – Peach Bottom 5012		TLR 3 & TLR 5	TLR 3			
DOE Order No 202-26-41		Effective September 1, through September 8, 23:59				





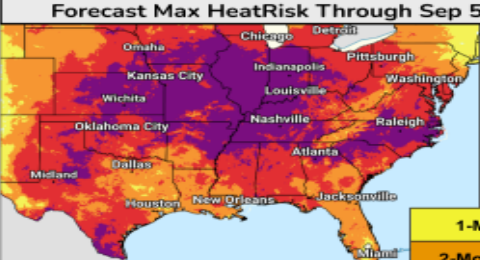
Key Messages for Long-Duration Heat Wave

Issued: Wed, Sep 2, 2026 12:15 PM CDT

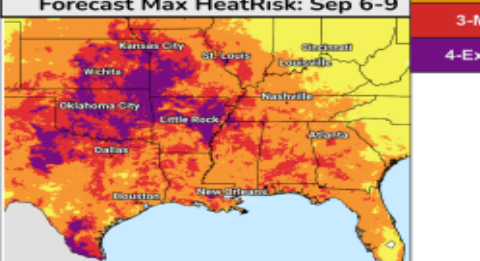
Dangerous heat focus shifts to the South-Central U.S. this weekend

- Dangerous Heat Wave Continues**
 Dangerous heat persists over the central and eastern states through Friday night. Highs of 95-105°F, and limited nighttime relief with lows in the mid-to-upper 70s°F, will result in continued widespread Extreme HeatRisk from the Plains to the Mid-Atlantic.
- Heat Focus Shifts South This Weekend**
 Relief from heat will arrive this weekend for the Ohio Valley and Mid-Atlantic while dangerous heat lingers over the South-Central States into next week. Heat index values this weekend through the middle of next week could reach or even exceed 105°F over the Southern Plains and Lower Mississippi Valley, and 110°F in South Texas.
- Protection from the Extreme Heat**
 Limit afternoon outdoor activity, stay hydrated, and ensure access to A/C or cooling centers. Check on vulnerable family, friends, and neighbors. Ensure animals have fresh water and shade. Never leave kids or pets unattended in vehicles.

Forecast Max HeatRisk Through Sep 5



Forecast Max HeatRisk: Sep 6-9



1-Minor

2-Moderate

3-Major

4-Extreme

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

August 31-September 4, 2026, Hot Weather

Cities	Hottest Air Temperature	Highest Heat Index	Warmest Low Temperature
Chicago	95°F	103°F	80°F
Columbus	96°F	101°F	76°F
Louisville	99°F	105°F	79°F
Philadelphia	92°F	102°F	75°F
Richmond	96°F	106°F	76°F
RTO Ld.-Wtd.	92°F	99°F	74°F

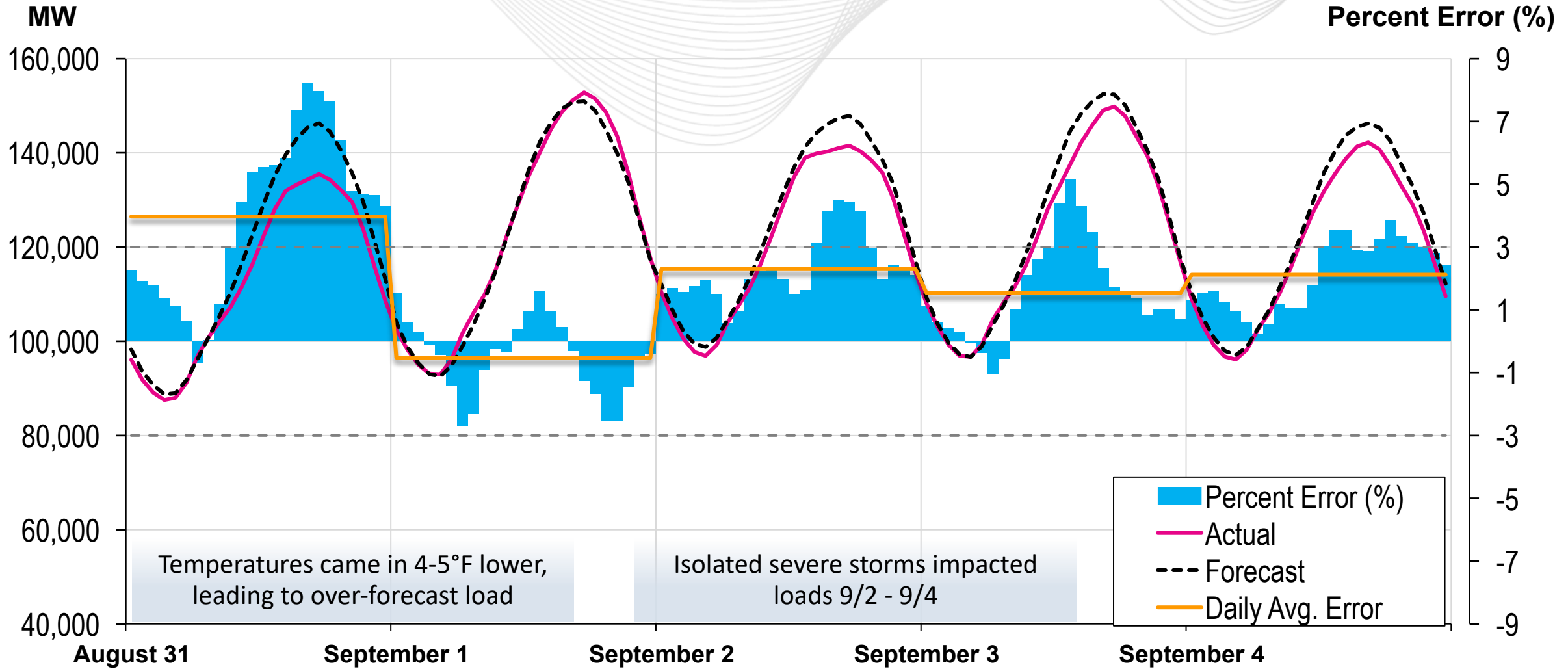
August 30-31: Rising temperatures from south to north with highs in the 80s to mid 90s

September 1: Peak of heat in RTO with load weighted temperatures in low 90s, THI values in low 80s.

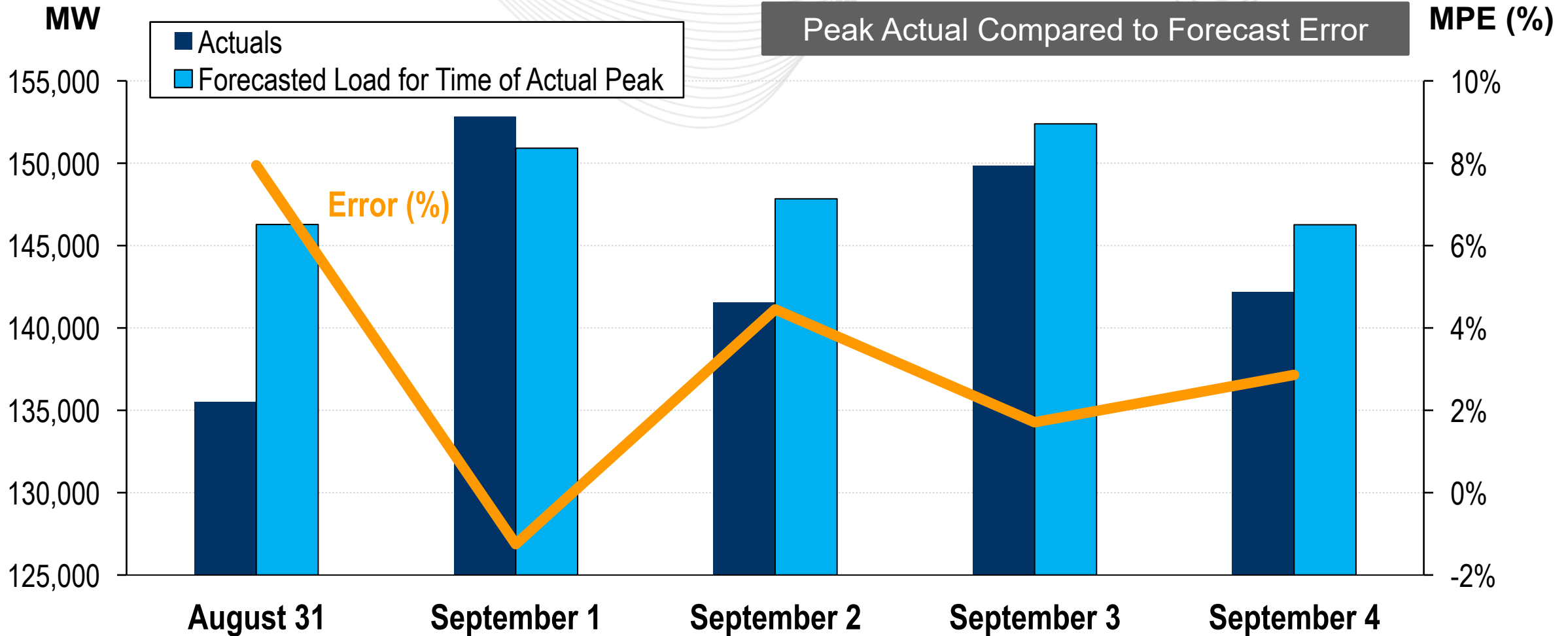
September 2: Temperatures cooled in the 70s in Mid-Atlantic but were in the 80s to 90s elsewhere, hottest in southern areas

September 4-6: Cooler conditions moved back in across the RTO

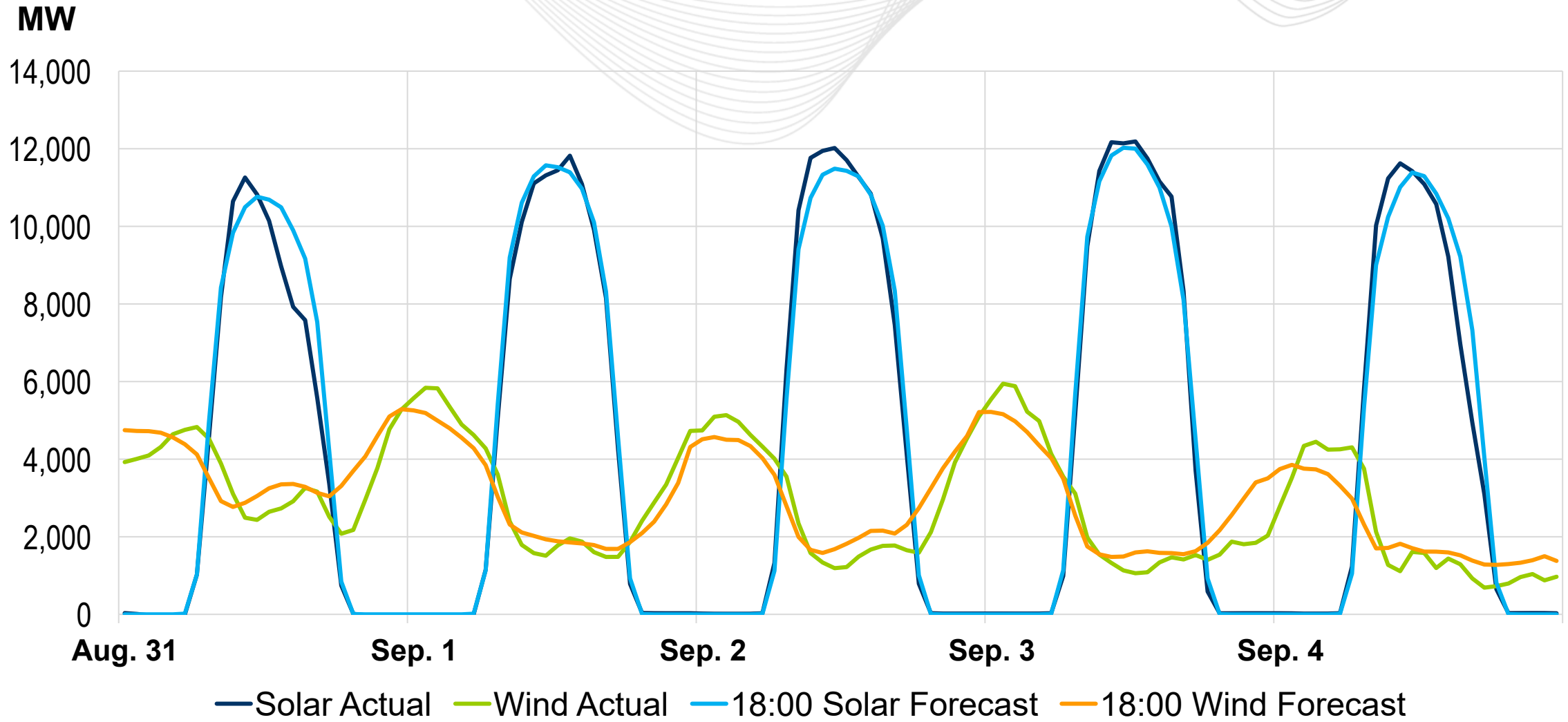
Forecast Performance During September 2026 Heat Wave



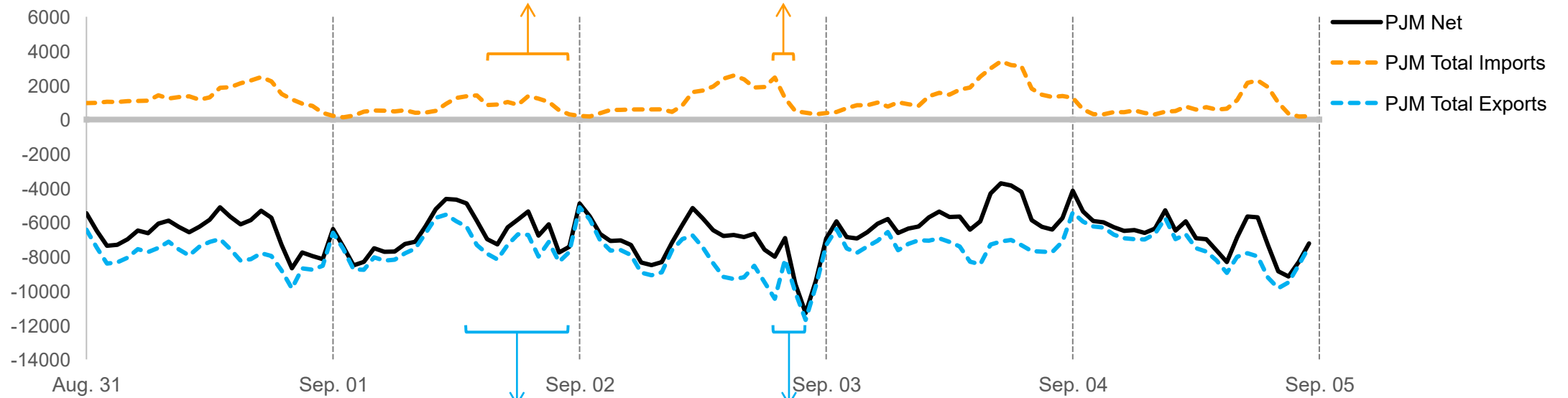
Forecast Error Trend for August 31–September 4, 2026



Day-Ahead Solar and Wind Forecast Performance

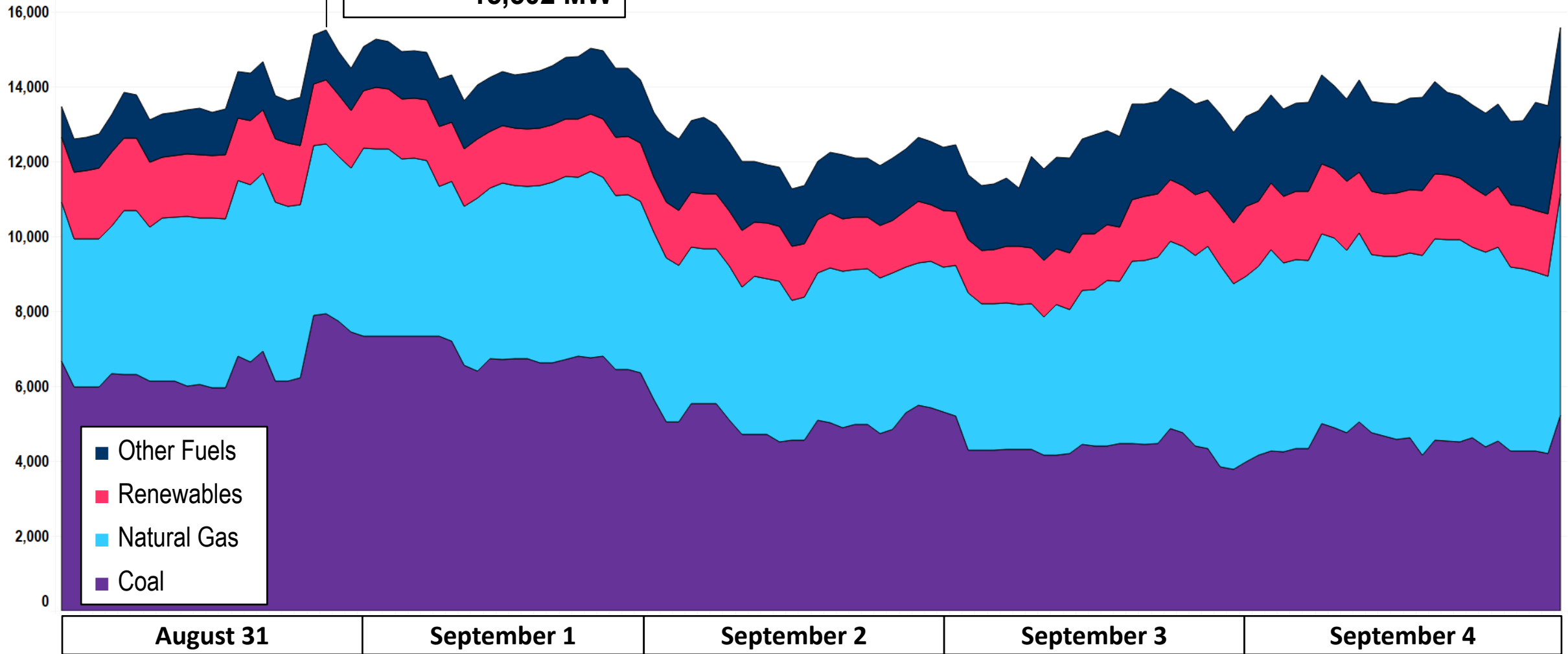


Import Curtailments (MWh)			
TLR	Firm	264	—
	Non-Firm	5,144	354
PJM Actions (Non-TLR)	Firm	—	—
	Non-Firm	25	—



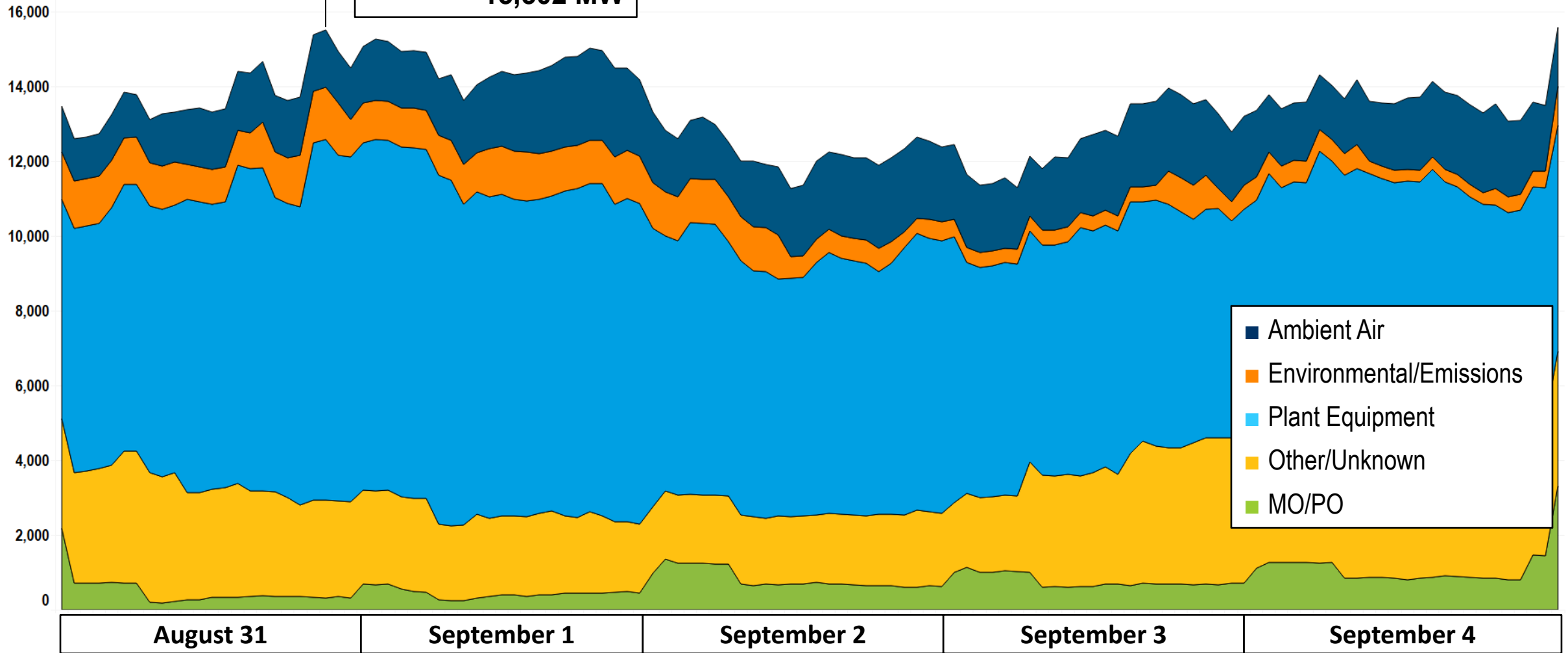
TLR	Firm	3,563	2,774
	Non-Firm	5,508	3,926
PJM Actions (Non-TLR)	Firm	—	—
	Non-Firm	4,601	—
Export Curtailments (MWh)			

8.47% Outage Rate
15,502 MW



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

**8.47% Outage Rate
15,502 MW**



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

- PJM was granted DOE 202c waiver (Order No. 202-26-41) 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 9/2 through 9/4.

Generators Covered by DOE 202c		
Plants	Units 606	ICAP ~25.3 GW

Generators Operated Above Permit Limit Under DOE 202c			
Plants 21	Units	ICAP ~6.29 GW	Total Hours 671 *

** Data provided to PJM by unit owners*

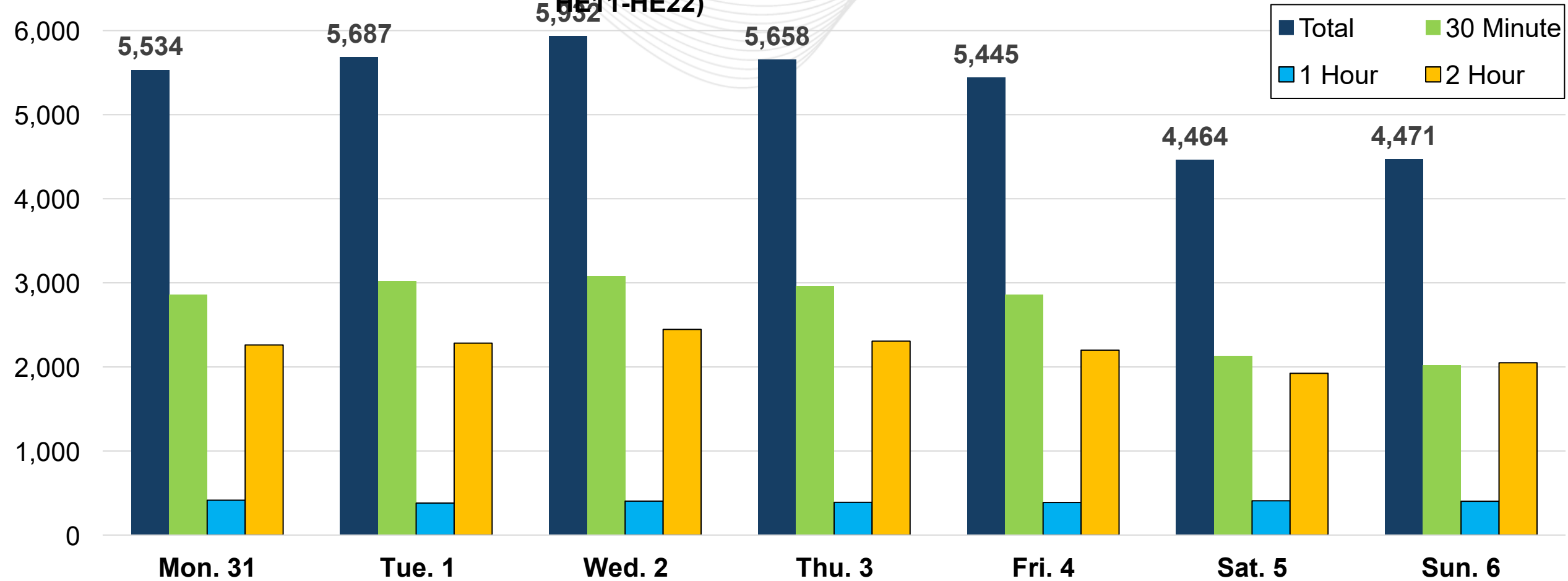


Load Management Availability

August 31 – September 6, 2026

CSP Reported Expected Energy Reductions, RTO by Lead Time (Avg. MW over Mandatory Period

HE11-HE22)



Sep 1 issued 1 and 2 Hour Pre-Emergency product for AEP, BGE, COMED, DOM, PEPCO Zones (approx. total of 1,166 MW)

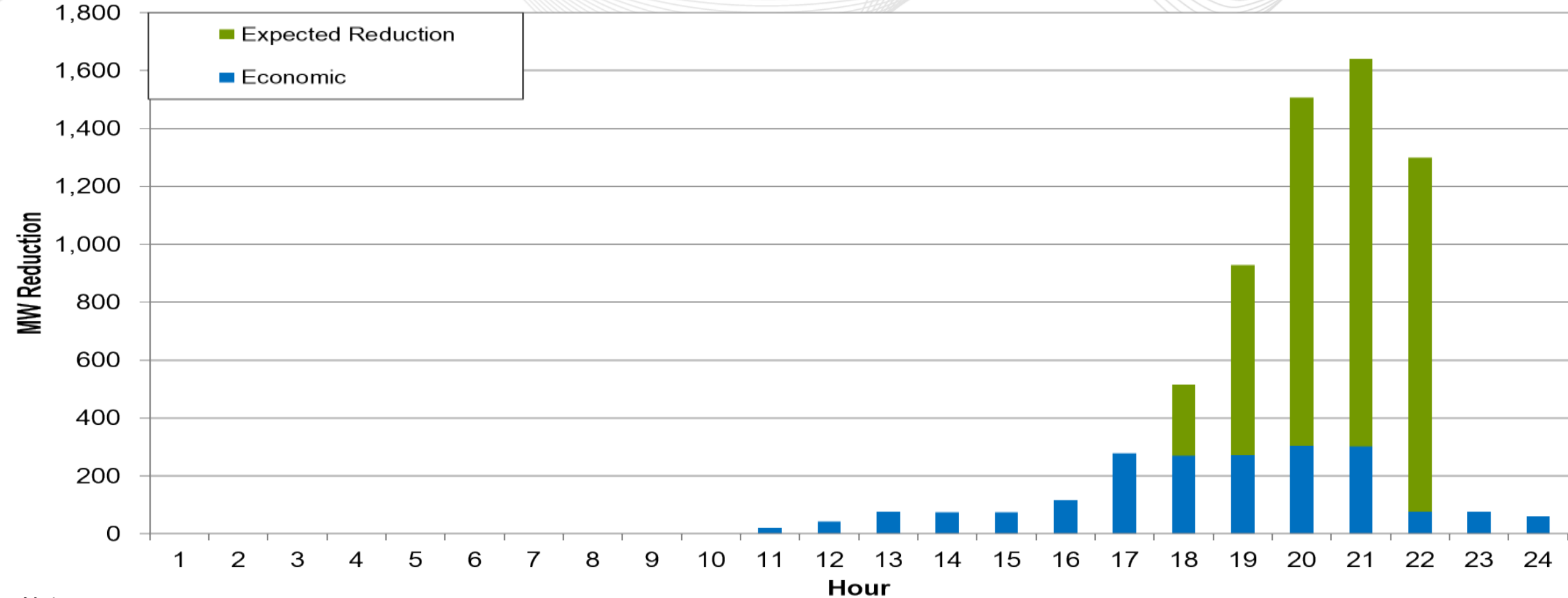


Load Management Deploy and Release Times (No PAI events)

– September 1, 2026

Notification Time	Deploy Time	Release Time	Resource Type	Lead Time	Zones
17:15	19:15	22:00	Pre-Emergency	Long_120	AEP, BGE, COMED, DOM, PEPCO
17:15	18:15	22:00	Pre-Emergency	Short_60	AEP, BGE, COMED, DOM, PEPCO

Dispatched Demand Response in PJM: September 1, 2026



Notes:

Expected Reduction is based on CSP reported expected real time energy reductions (see M18, 4.3.9). This may be different from capacity compliance values and associated commitments which are primarily based on a firm service level methodology. Actual load reductions are not finalized until up to 3 months after the event.

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 22 PCLLRWs
 - Thermal and voltage

September Hot Weather Operations

September 15 – September 18

Operating Committee
October 8, 2026

Paul Dajewski
Sr. Manager – Dispatch

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Preliminary Instantaneous Peak Load 126,779 MW – September 17 @ 16:50

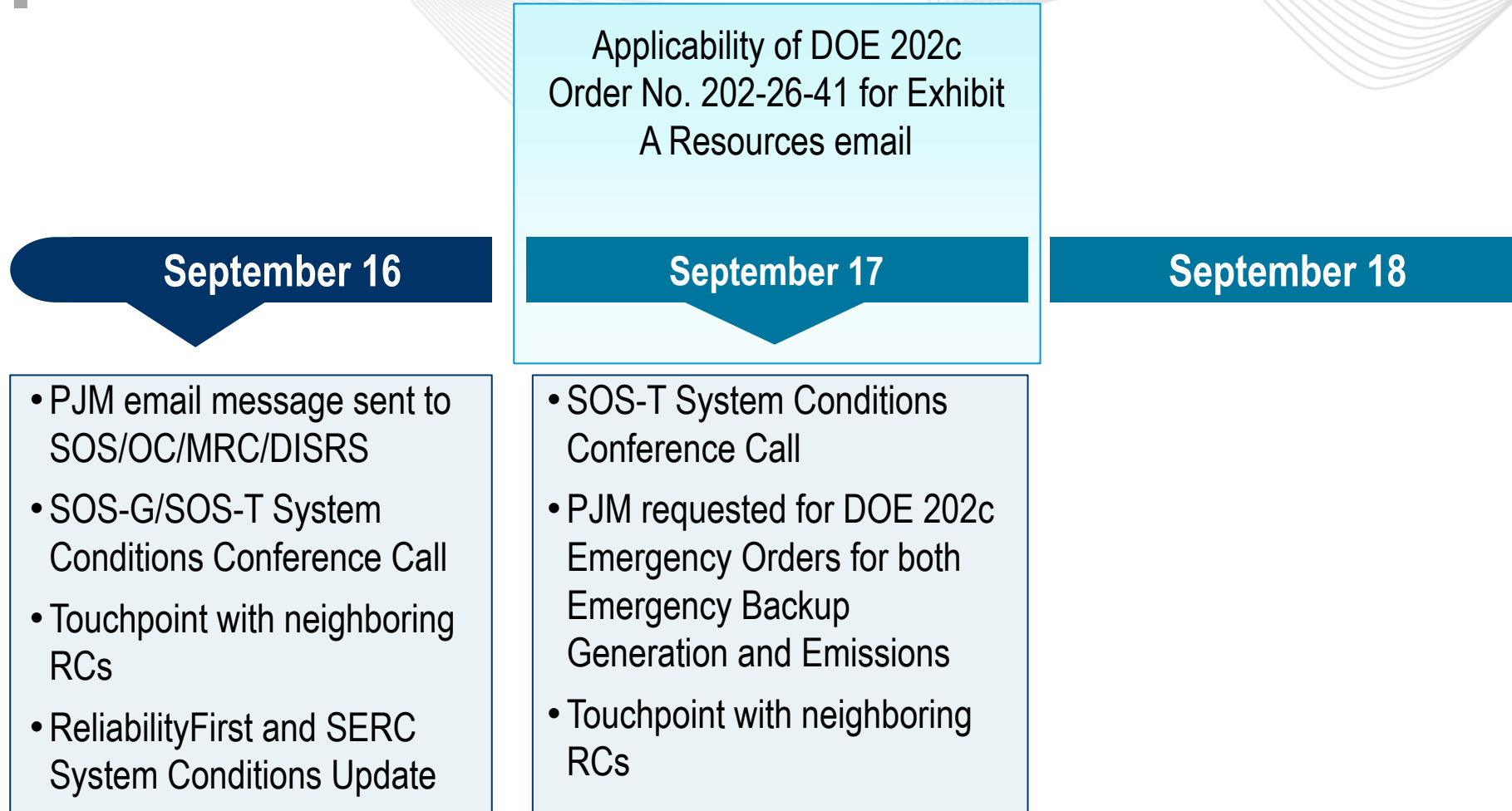
Successes

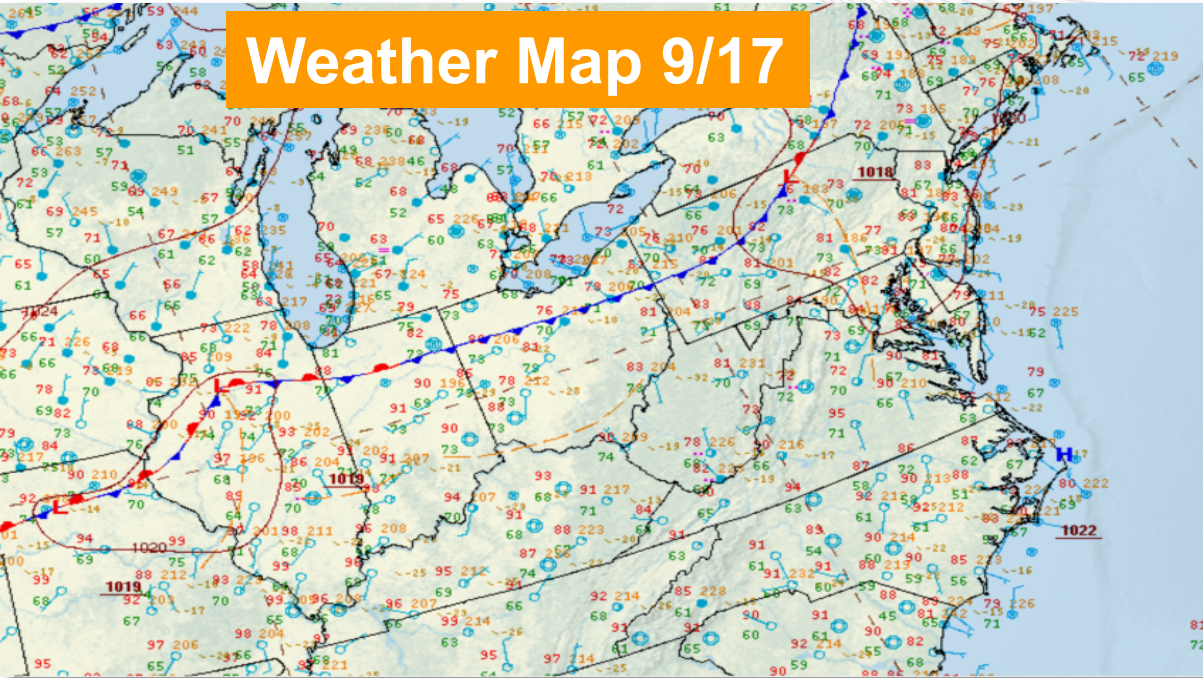
- Communication of applicability of DOE 202c Order No. 202-26-45 for Exhibit A Resources
- Targeted deployment of Load Management products

Challenges

- Balancing reliability needs with transmission and generation limitations required continuous operational reassessment
- Neighboring Systems reliance on Firm Transmission Service to serve load

Hot Weather – Emergency Procedures	September 15	September 16	September 17	September 18
Max. Generation Alert / Load Mgmt. Alert (NERC EEA1)			PJM RTO	
Pre-Emergency Load Management Reduction Action			AEP, BGE, DAY, DEOK, DOM, DUQ, EKPC, FE-AP, FE-ATSI, PEPCO – All Products	
Emergency Load Management Reduction Action (NERC EEA2)			BGE / PEP / DOM – All Products	
TLR – Conastone – Peach Bottom 5012	TLR 3	TLR 3 & TLR 5	TLR 3 & TLR 5	
DOE Order No 202-26-45			Effective September 17, through September 18, 23:59	





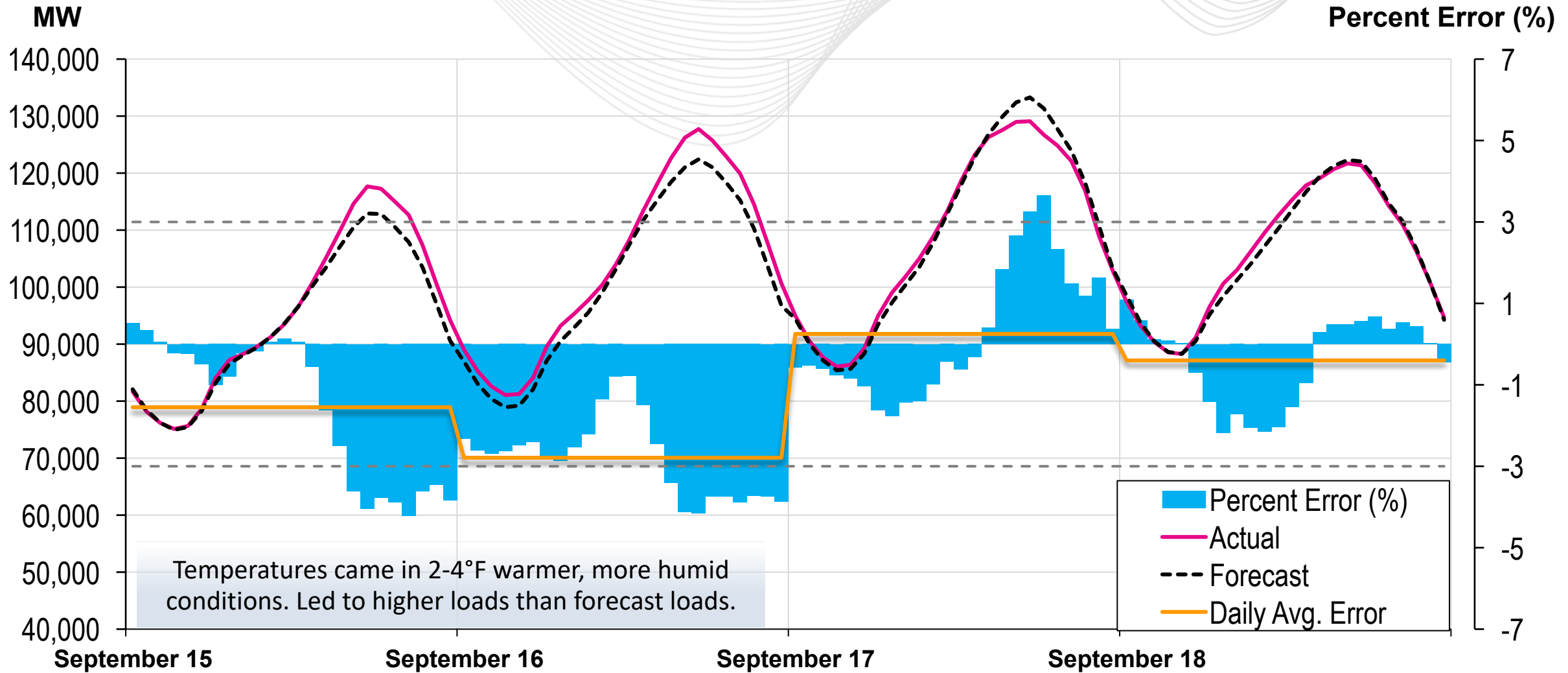
September 15-18, 2026, Hot Weather			
Cities	Hottest Air Temperature	Highest Heat Index	Warmest Low Temperature
Chicago	84°F	88°F	67°F
Columbus	89°F	96°F	74°F
Louisville	96°F	102°F	79°F
Philadelphia	86°F	88°F	74°F
Richmond	90°F	93°F	70°F
RTO Ld.-Wtd. Avg.	82°F	85°F	70°F

September 15: Increasing temperatures in RTO with highs in upper 70s and 80s except 90s in Lower Ohio Valley

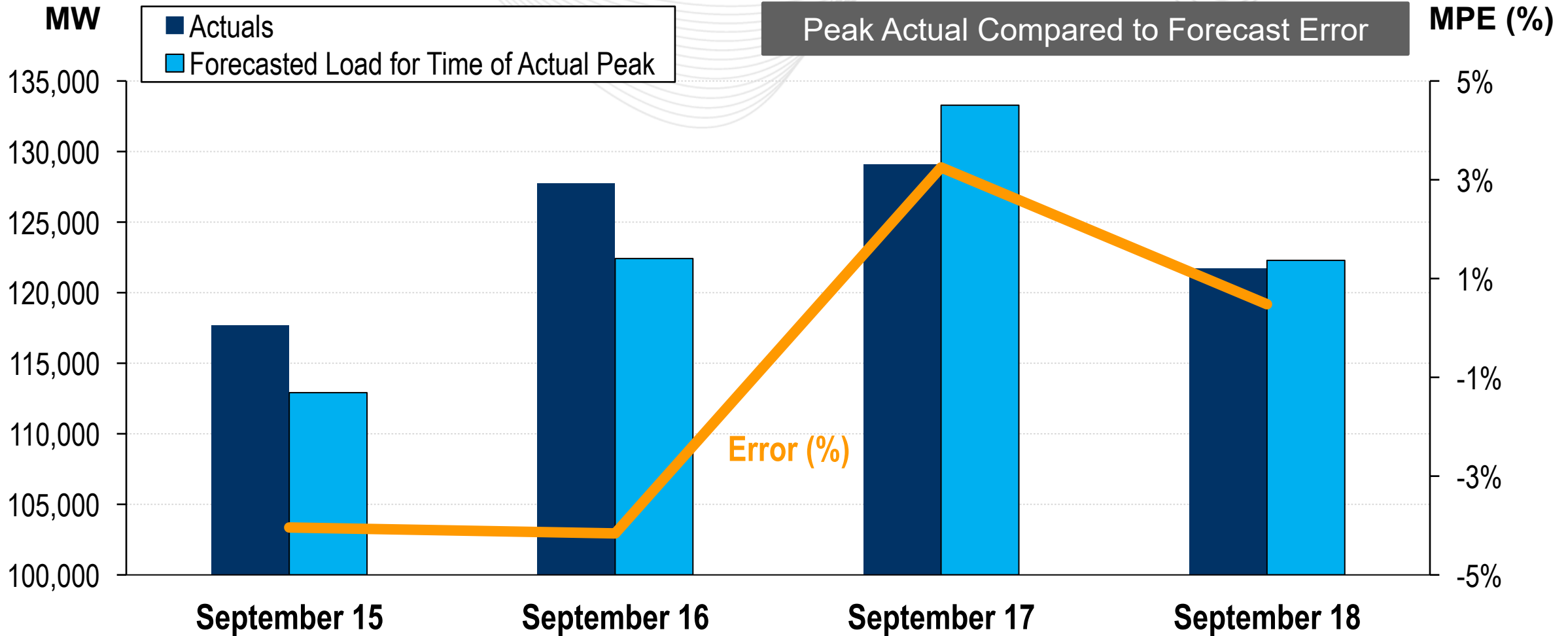
September 16-17: Warmest days in RTO with load weighted temperatures in low 80s, THI values in upper 70s.

September 18-20: Cooler conditions most areas; heat lingered in Lower Ohio Valley

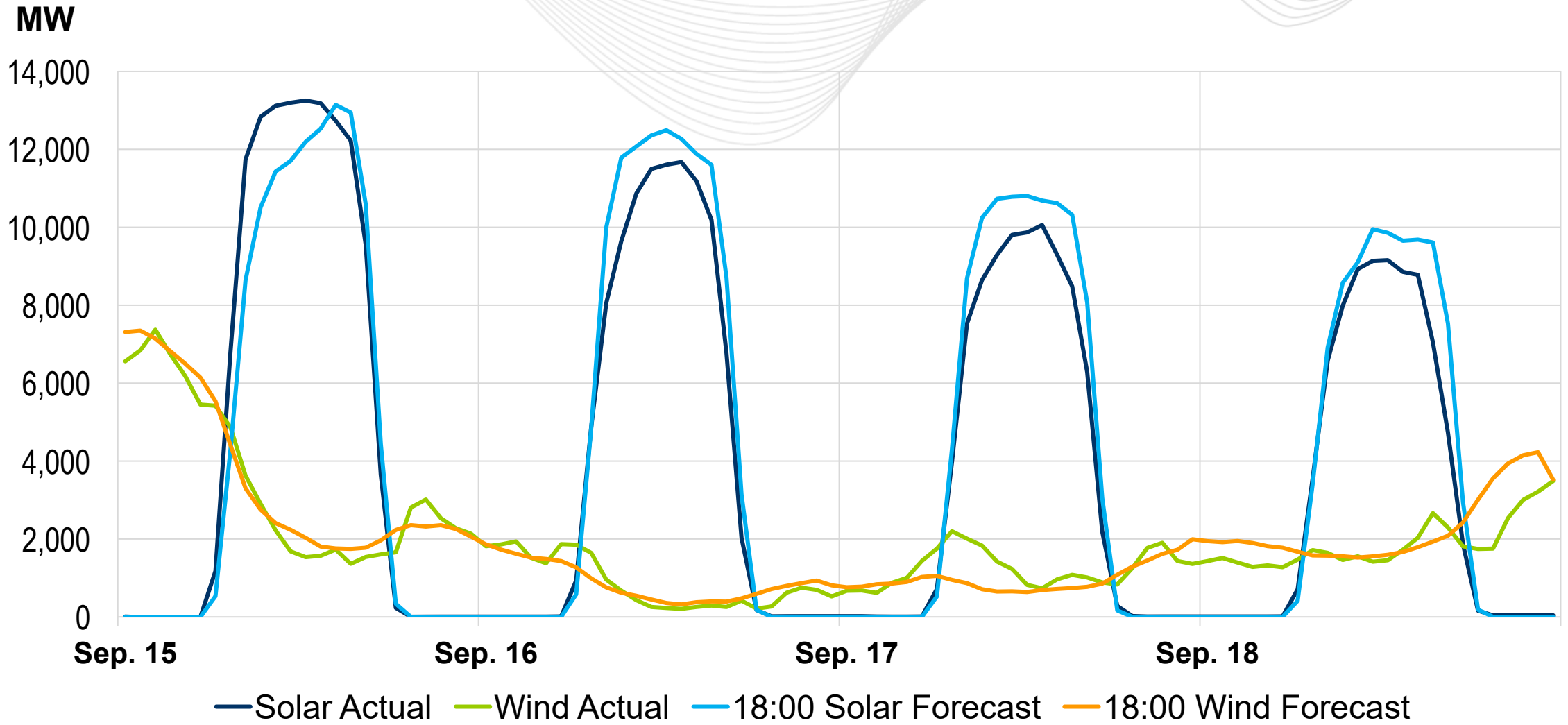
Forecast Performance During Mid-September 2026

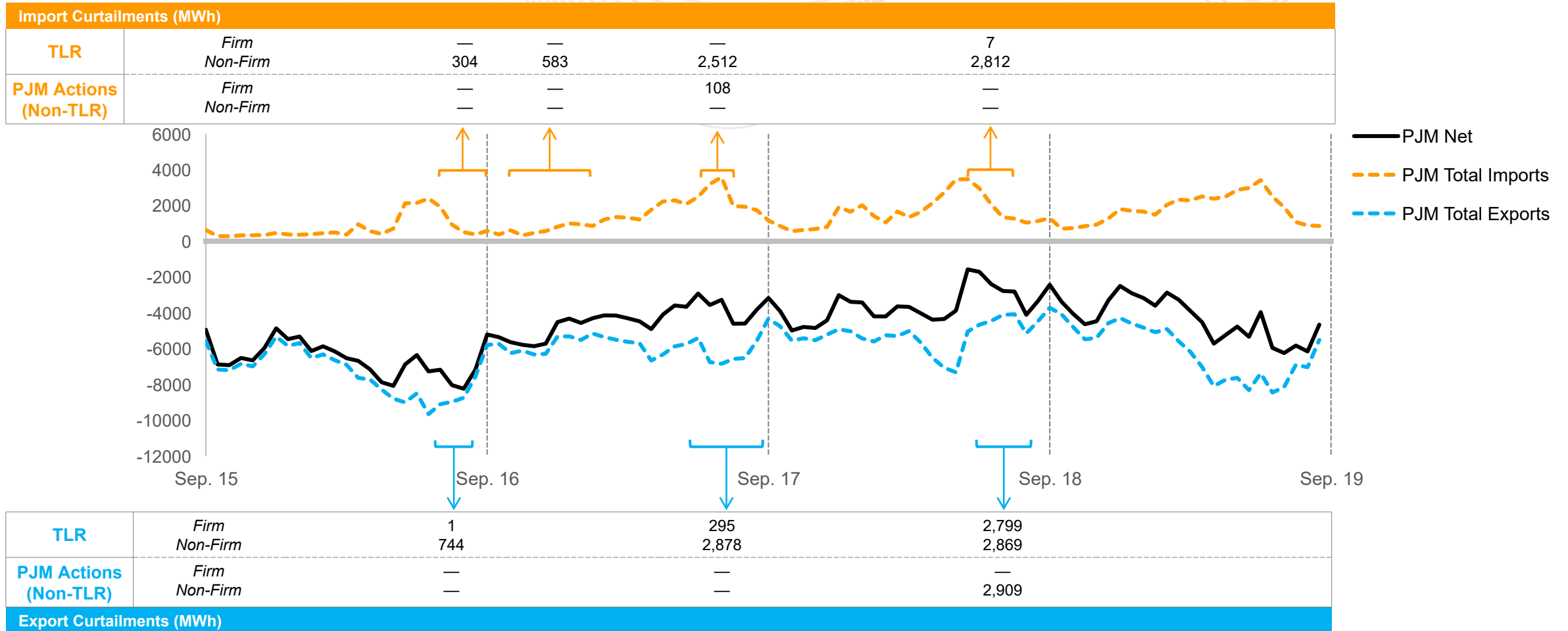


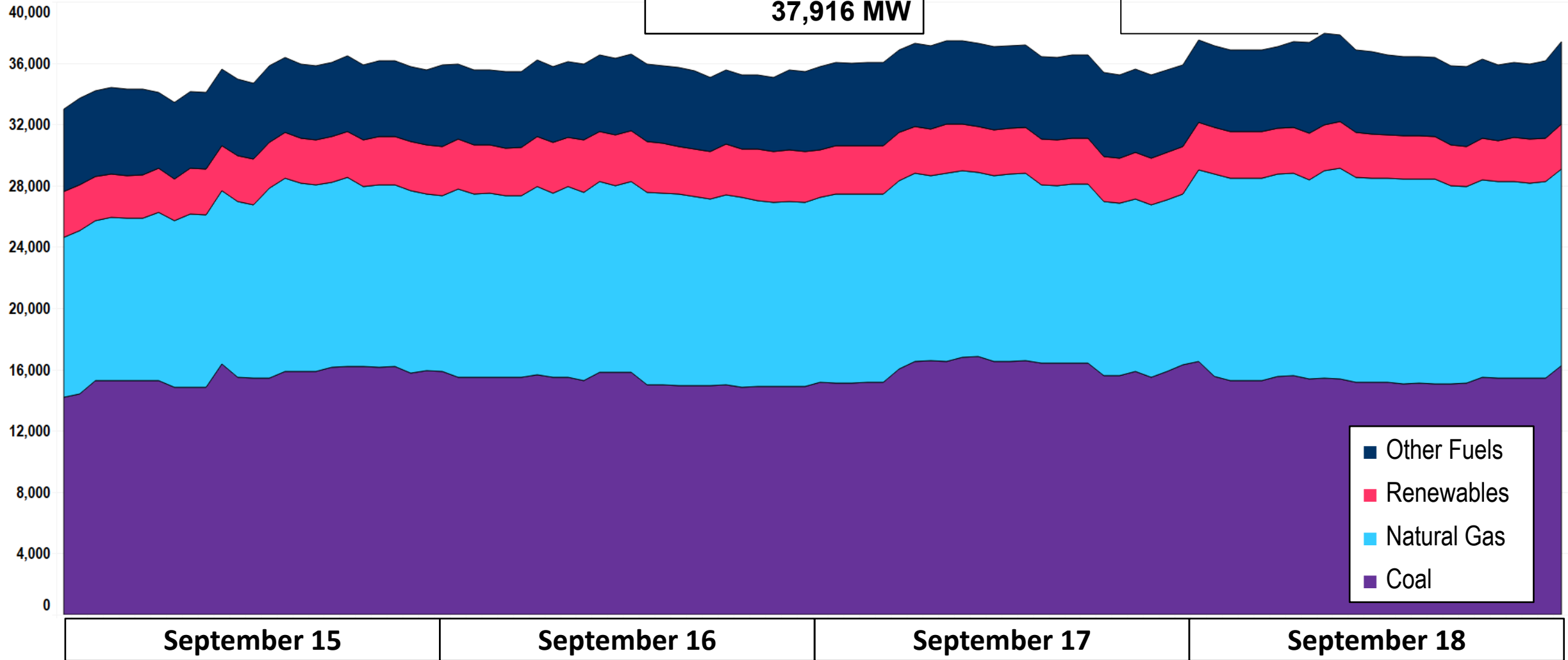
Forecast Error Trend for September 15–September 18, 2026



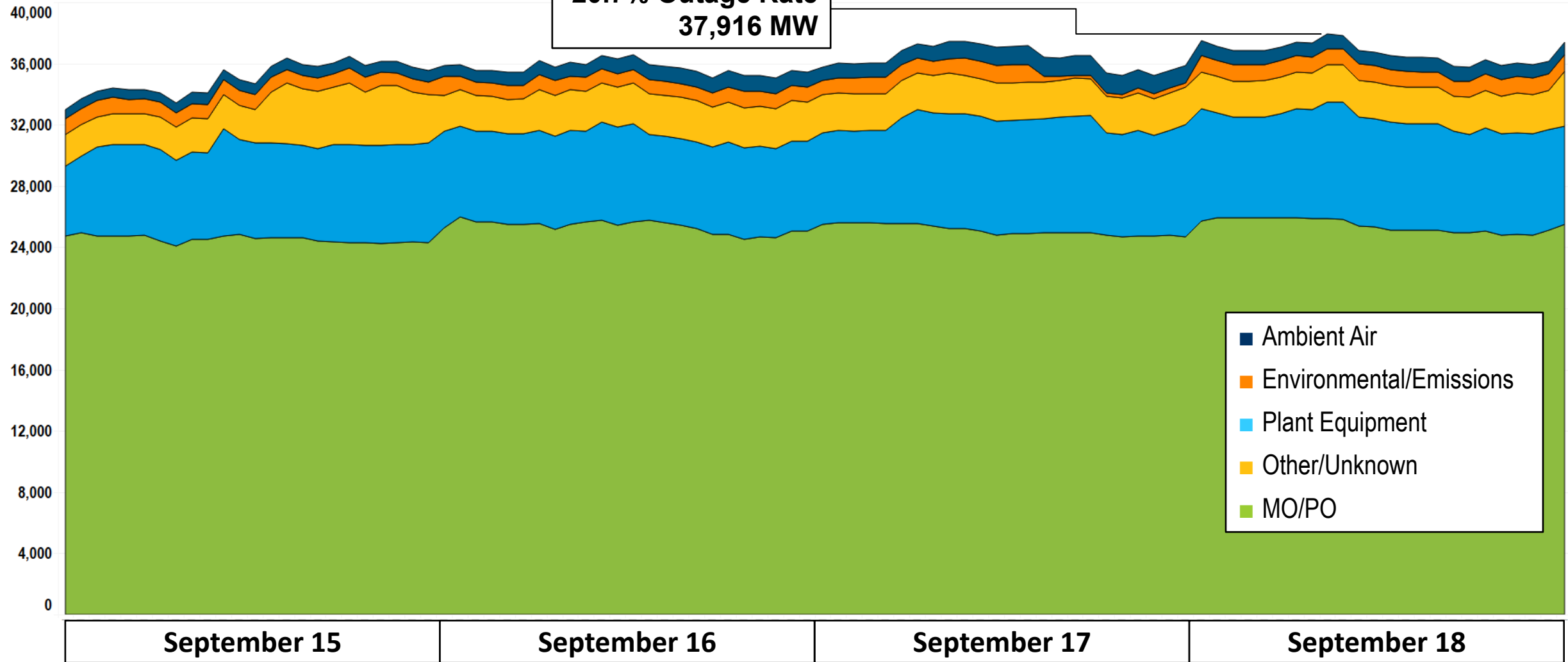
Day-Ahead Solar and Wind Forecast Performance







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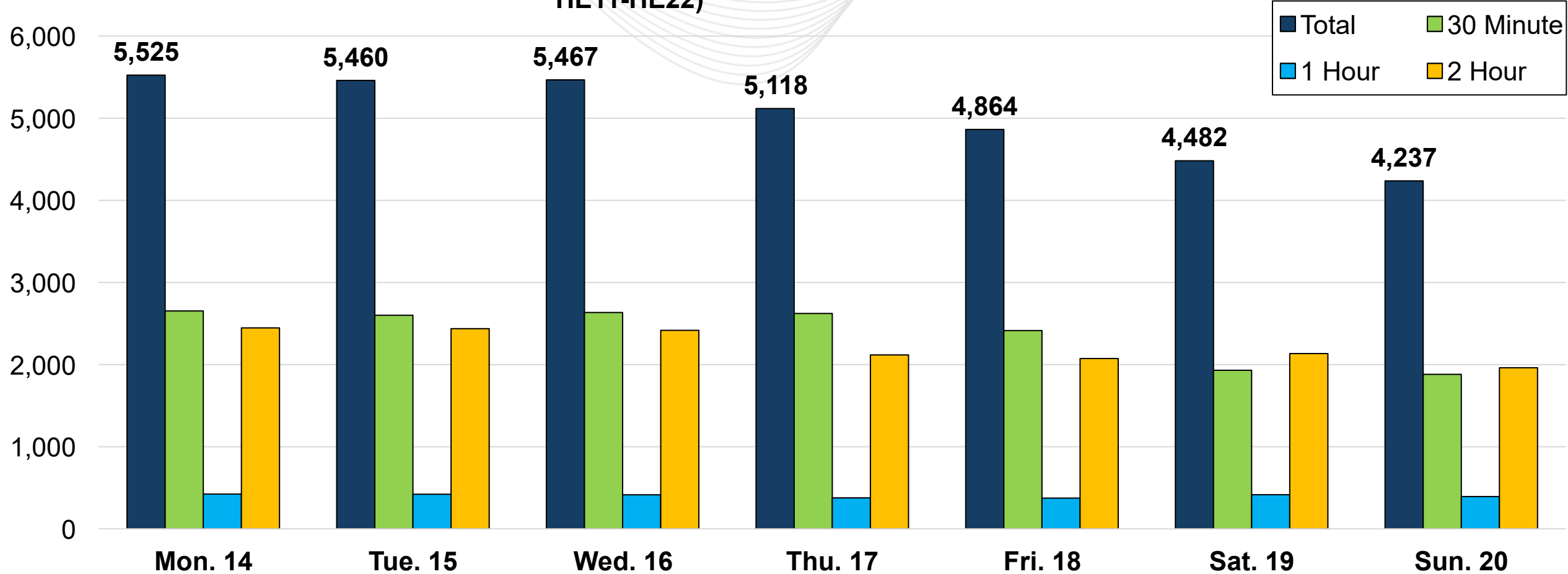
- PJM was granted DOE 202c waiver (Order No. 202-26-45) for generators with permit limit concerns to allow units to continue to operate for reliability.
- Generators operating under the 202c waiver with run hours above permit limits were reported to DOE daily.
- Pardot notification sent to Generation and Transmission Owners/Dispatchers identifying reliability need for 9/16 through 9/18.

Generators Covered by DOE 202c		
Plants 53	Units 193	ICAP ~18 GW

Generators Operated Above Permit Limit Under DOE 202c			
Plants 23	Units 23	ICAP 2478	Total Hours 280*

** Data provided to PJM by unit owners*

CSP Reported Expected Energy Reductions, RTO by Lead Time (Avg. MW over Mandatory Period HE11-HE22)



Sep 17 issued all lead times for Pre-Emergency product for AEP, APS, ATSI, BGE, DAY, DEOK, DOM, DUQ, EKPC, PEPCO Zones and Emergency product for BGE, DOM, PEPCO Zones (approx. total of 3,126 MW)

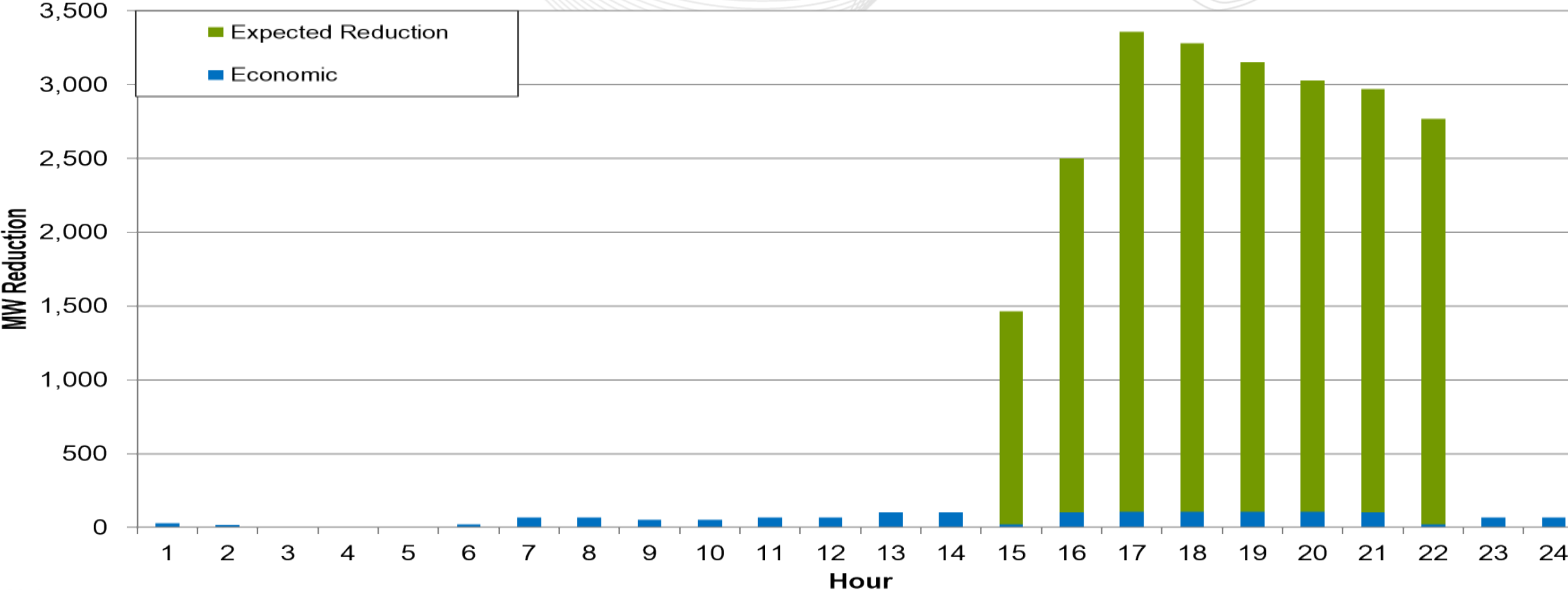


Load Management Deploy and Release Times (No PAI events)

– September 17, 2026

Notification Time	Deploy Time	Release Time	Resource Type	Lead Time	Zones
14:00	16:00	22:00	Pre-Emergency	Long_120	AEP, APS, ATSI, BGE, DAY, DEOK, DOM, DUQ, EKPC, PEPCO
14:00	15:00	22:00	Pre-Emergency	Short_60	AEP, APS, ATSI, BGE, DAY, DEOK, DOM, DUQ, EKPC, PEPCO
14:00	14:30	22:00	Pre-Emergency	Quick_30	AEP, APS, ATSI, BGE, DAY, DEOK, DOM, DUQ, EKPC, PEPCO
14:00	16:00	22:00	Emergency	Long_120	BGE, DOM, PEPCO
14:00	15:00	22:00	Emergency	Short_60	BGE, DOM, PEPCO
14:00	14:30	22:00	Emergency	Quick_30	BGE, DOM, PEPCO

Dispatched Demand Response in PJM: September 17, 2026



Notes:
 Expected Reduction is based on CSP reported expected real time energy reductions (see M18, 4.3.9). This may be different from capacity compliance values and associated commitments which are primarily based on a firm service level methodology. Actual load reductions are not finalized until up to 3 months after the event.

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.
- Transmission and generation outage season created energy deliverability challenges
- Issued 18 PCLLRWs
 - Thermal and voltage

Presenter/SME:
Paul Dajewski

Paul.Dajewski@pjm.com



Member Hotline

(610) 666-8980

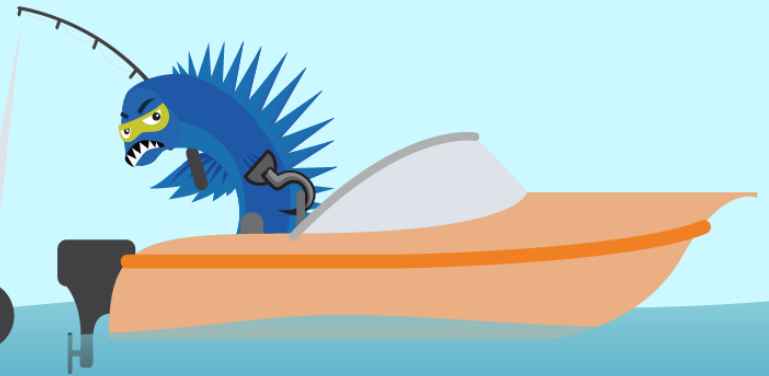
(866) 400-8980

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