

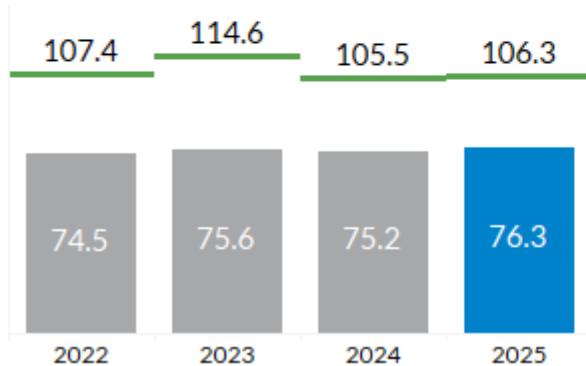


MISO Monthly Operations Report

September 2025

Reliability, markets and operational functions performed as expected in September

AVERAGE & PEAK LOAD (GW)



SYSTEM-WIDE LOAD PEAK



106 GW

September 16, Hour Ending (HE) 17

SOLAR PEAK

14.5 GW

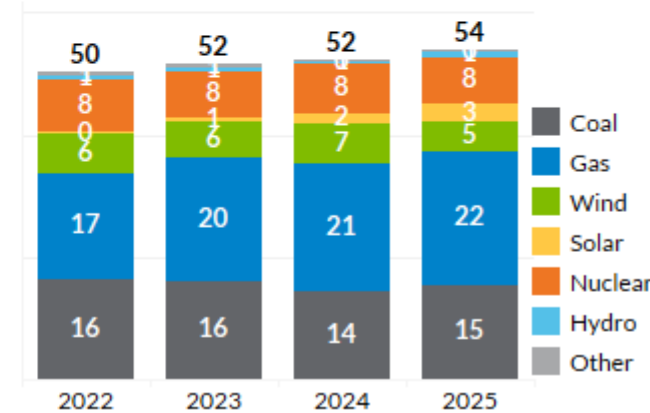
Sept 7, 2025, HE 11

WIND PEAK

20.7 GW

Sept 5, 2025, HE 5

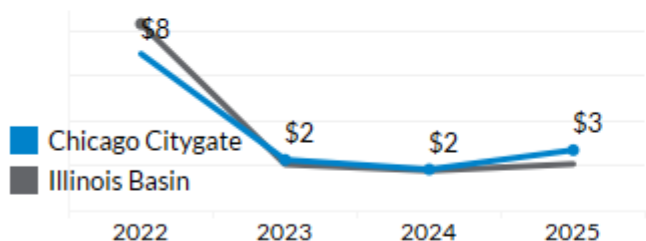
ENERGY FUEL MIX (TWh)



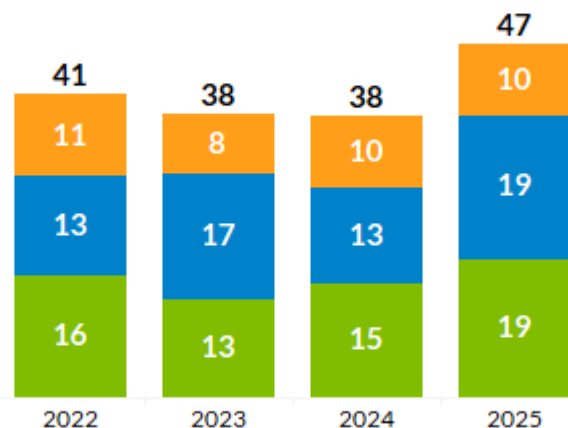
REAL-TIME LMP (\$/MWh)



AVERAGE FUEL PRICE (\$MMBtu)



AVERAGE DAILY GENERATION OUTAGE (GW)



KEY OPERATING DECLARATIONS

SEPTEMBER 2025

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

09/03 System: System Status Level 1

09/17 System: Hot Weather Alert

09/29 System: System Status Level 1

09/30 System: Geomagnetic Disturbance Warning

09/30 System: Geomagnetic Disturbance Alert

- All-Time Solar Peak: 14.1 GW on Aug 3, 2025, HE 11
- All-Time Wind Peak: 25.7 GW on Jan 12, 2024, HE 19
- All-Time Load Peak: 127.1 GW on Jul 20, 2011, HE 17

- Derated
- Unplanned
- Planned

- Awareness and Weather
- Alerts and Warnings
- Reliability Actions and Events

Dashboard

Metric	Chart	Sept 2025	Aug '25	July '25	June '25	Metric	Chart	Sept 2025	Aug '25	July '25	June '25
Market Efficiency Metric	D	●	▼	●	▼	Unit Commitment Efficiency	H	●	●	●	●
Percentage Price Deviation	A	▼	●	▼	■	Day Ahead Wind Generation Forecast Error	K	●	●	●	●
Monthly Average Gross Virtual Profitability	B	●	●	●	●	Day-Ahead Solar Generation Forecast Error	T	●	●	●	●
FTR Funding	C	●	●	●	●	Tie Line Error	L	●	●	●	●
RSG per MWh to Energy Price	E	●	●	●	●	Control Performance – BAAL	M	●	●	●	●
Day Ahead Mid-Term Load Forecast	F	●	●	●	●	Control Performance – CPS1 and CPS1 12-month rolling	N	●	●	●	●
Short-Term Load Forecast	G	●	●	●	●	ARS Deployment	P	●	●	●	●
Real-Time Obligation fulfilled by Day-Ahead Supply at the Peak Hour	I	●	●	●	●						
System Impact Study Performance	Q	●	●	●	▼	Settlement Disputes	S	●	●	●	●

● Expected ■ Concern/Monitor ▼ Review

One metric fell outside of the expected range for this month

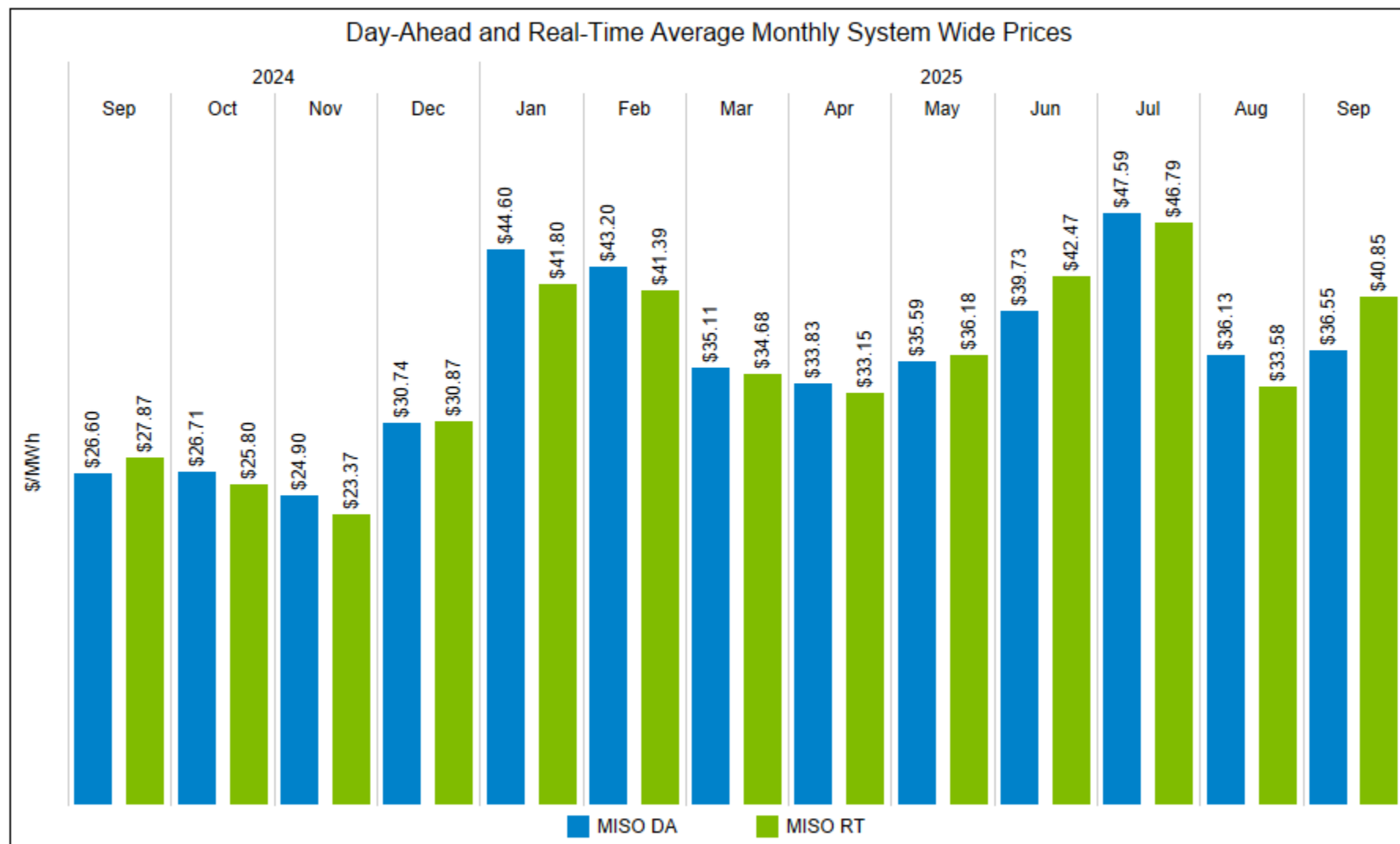
Metric	Expected Criteria	Actual	Status	Comments
Percentage Price Deviation	$\leq 28.6\%$	$> 34.3\%$	Review	Periods of congestion and Real-Time ancillary service product scarcity pricing throughout the month resulted in some price divergence between the Day-Ahead and Real-Time markets

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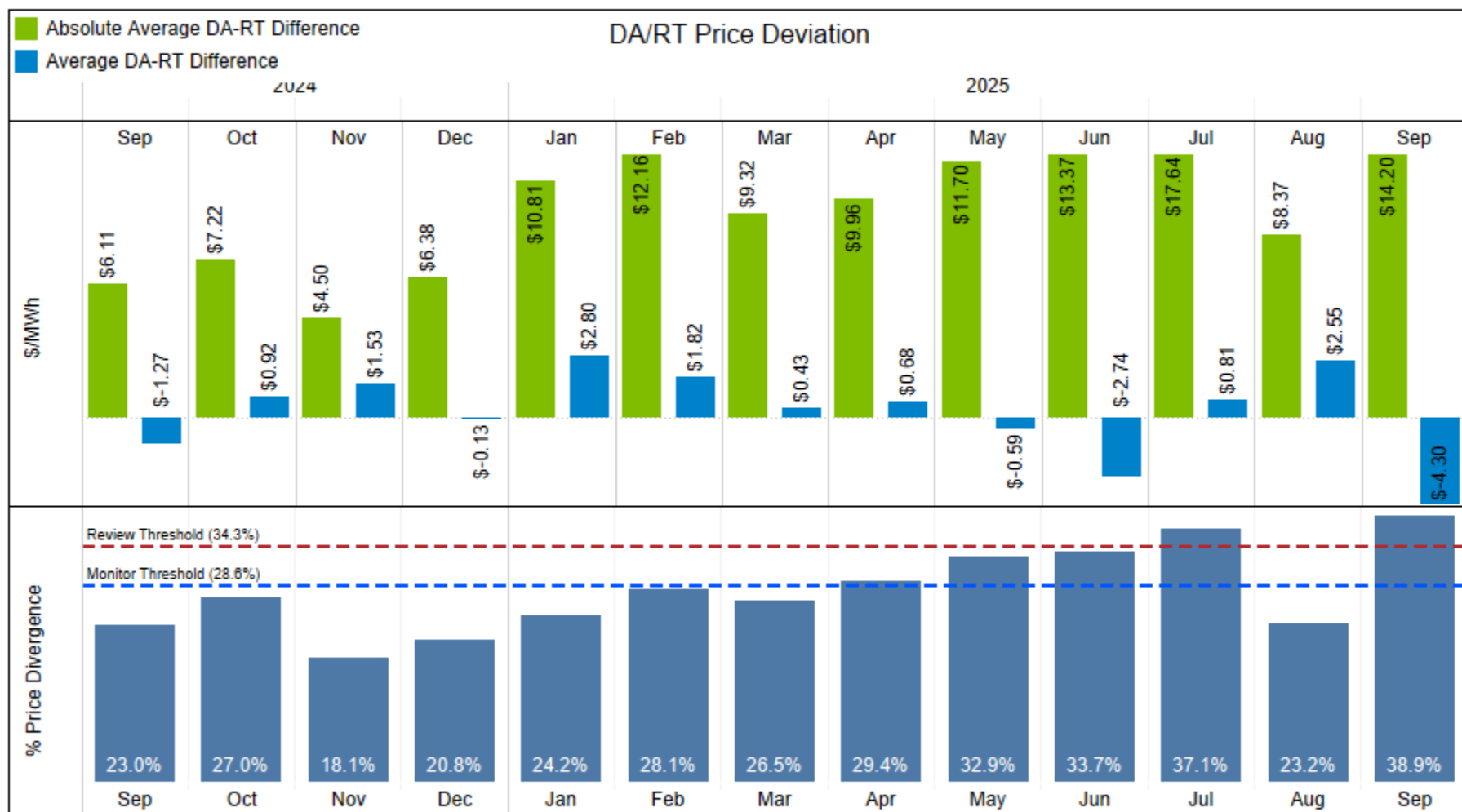
MISO System-wide Day-Ahead and Real-Time Locational Marginal Pricing



Note: MISO System-Wide price is based on the monthly hourly average of the active hubs
 Source: MISO Market and Operations Analytics Department

Price Convergence: Day-Ahead and Real-Time Locational Marginal Pricing

A

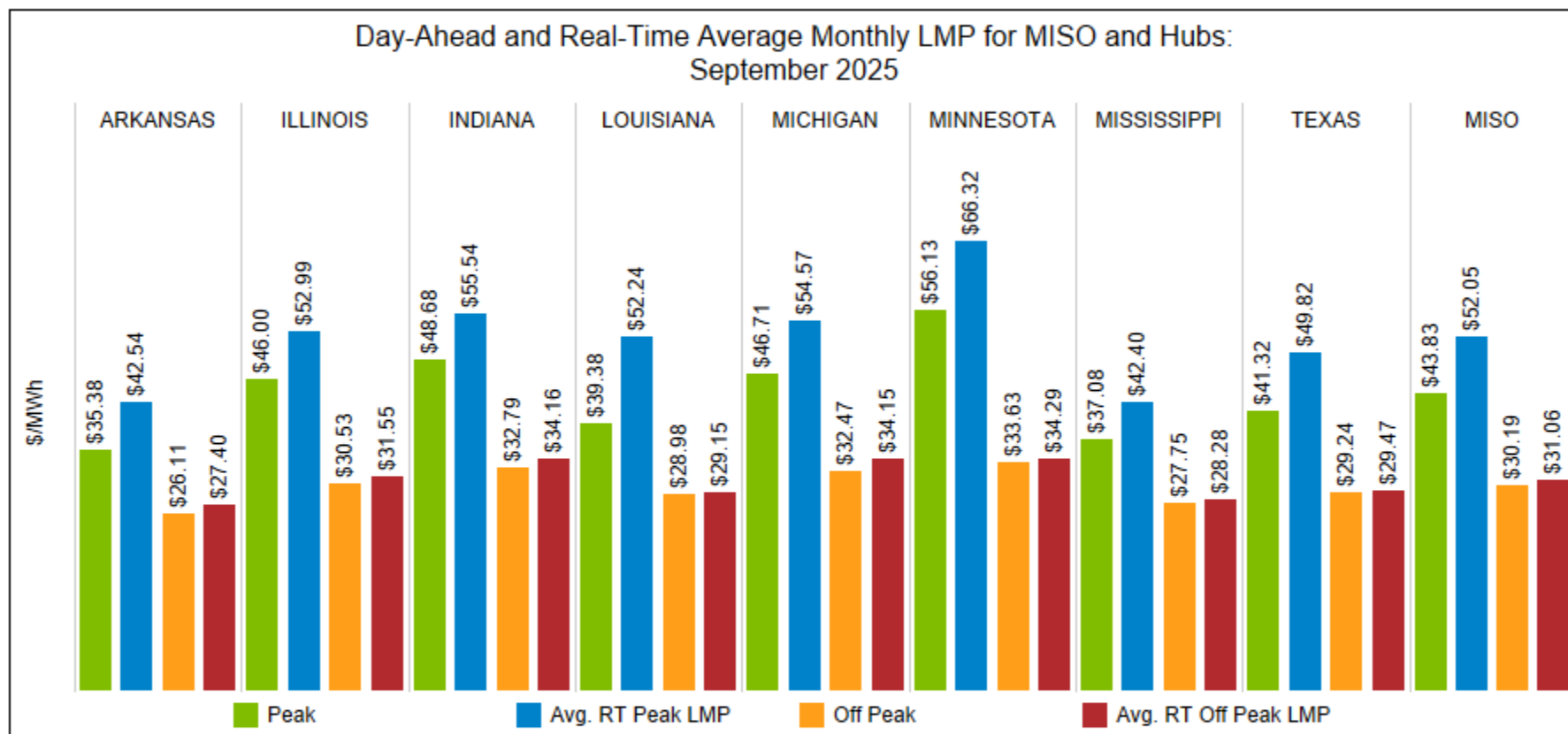


*Monthly deviation, expressed as a percent of average DA LMP, is calculated as the average of hourly absolute (DA-RT) price difference divided by the average of hourly DA LMPs for the month

Note: MISO System-Wide price is based on the monthly hourly average of the active trading hubs
 Source: MISO Market and Operations Analytics Department



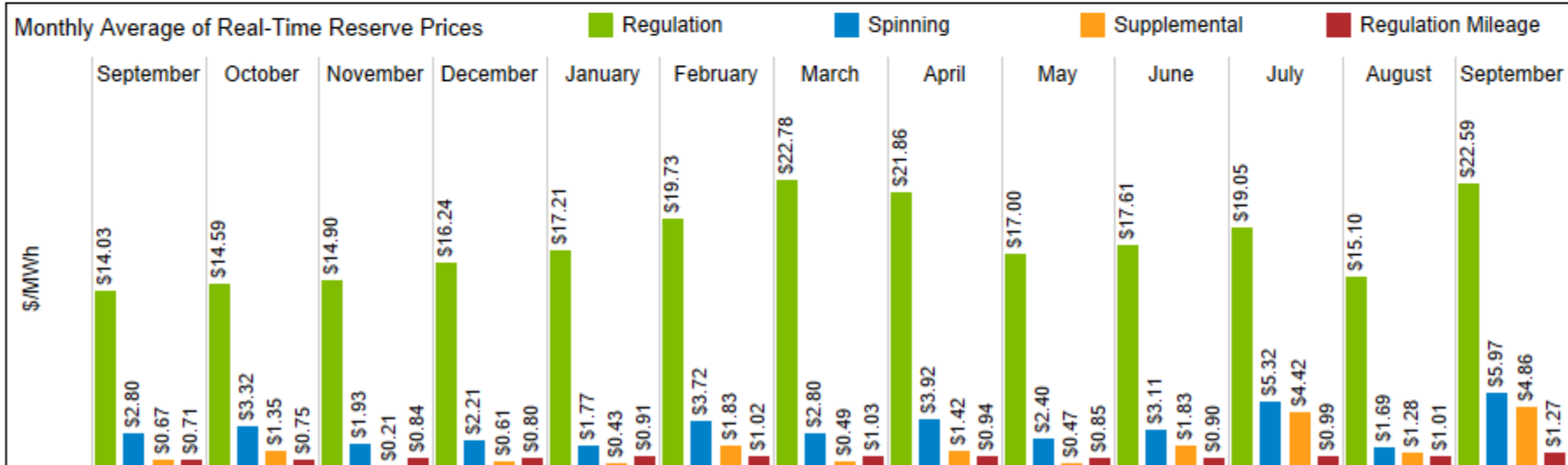
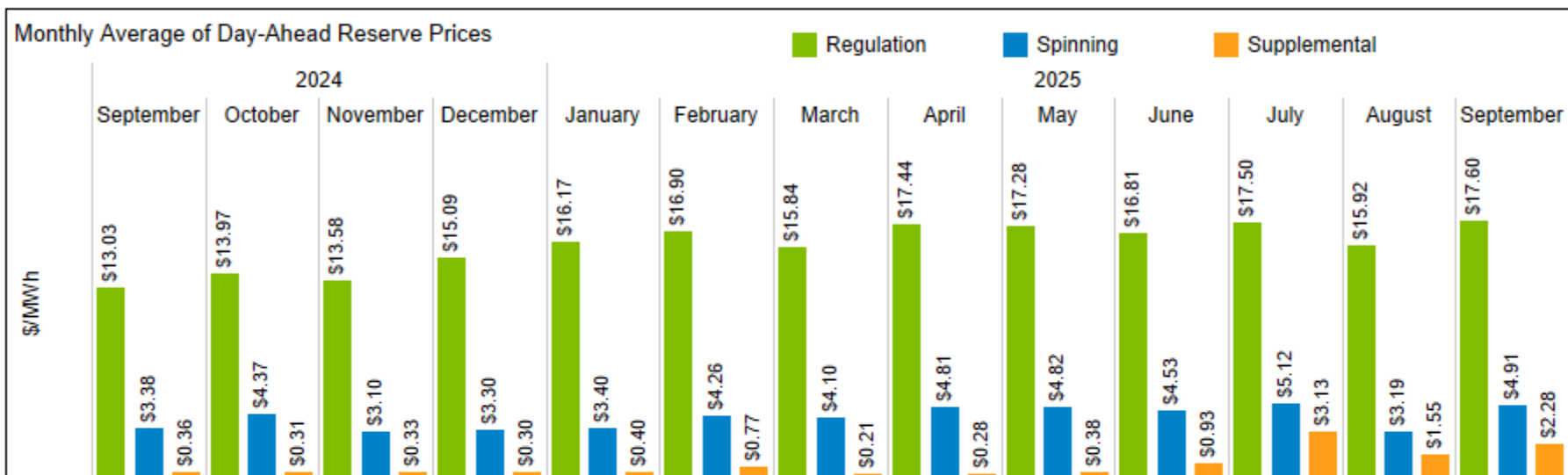
MISO Day-Ahead and Real-Time Hub Locational Marginal Pricing



		ARKANSAS	ILLINOIS	INDIANA	LOUISIANA	MICHIGAN	MINNESOTA	MISSISSIPPI	TEXAS	MISO
Marginal Congestion Component of LMP (\$/MWh)	DA Peak	-10.44	-0.35	0.60	-8.21	-1.32	7.77	-9.36	-6.87	-3.52
	RT Peak	-11.53	-1.65	-0.86	-3.79	-1.79	8.09	-12.42	-6.85	-3.85
	DA Off Peak	-4.13	0.02	0.89	-2.51	0.61	1.96	-3.03	-2.50	-1.09
	RT Off Peak	-3.82	0.05	1.39	-3.20	1.57	1.19	-3.42	-3.14	-1.17

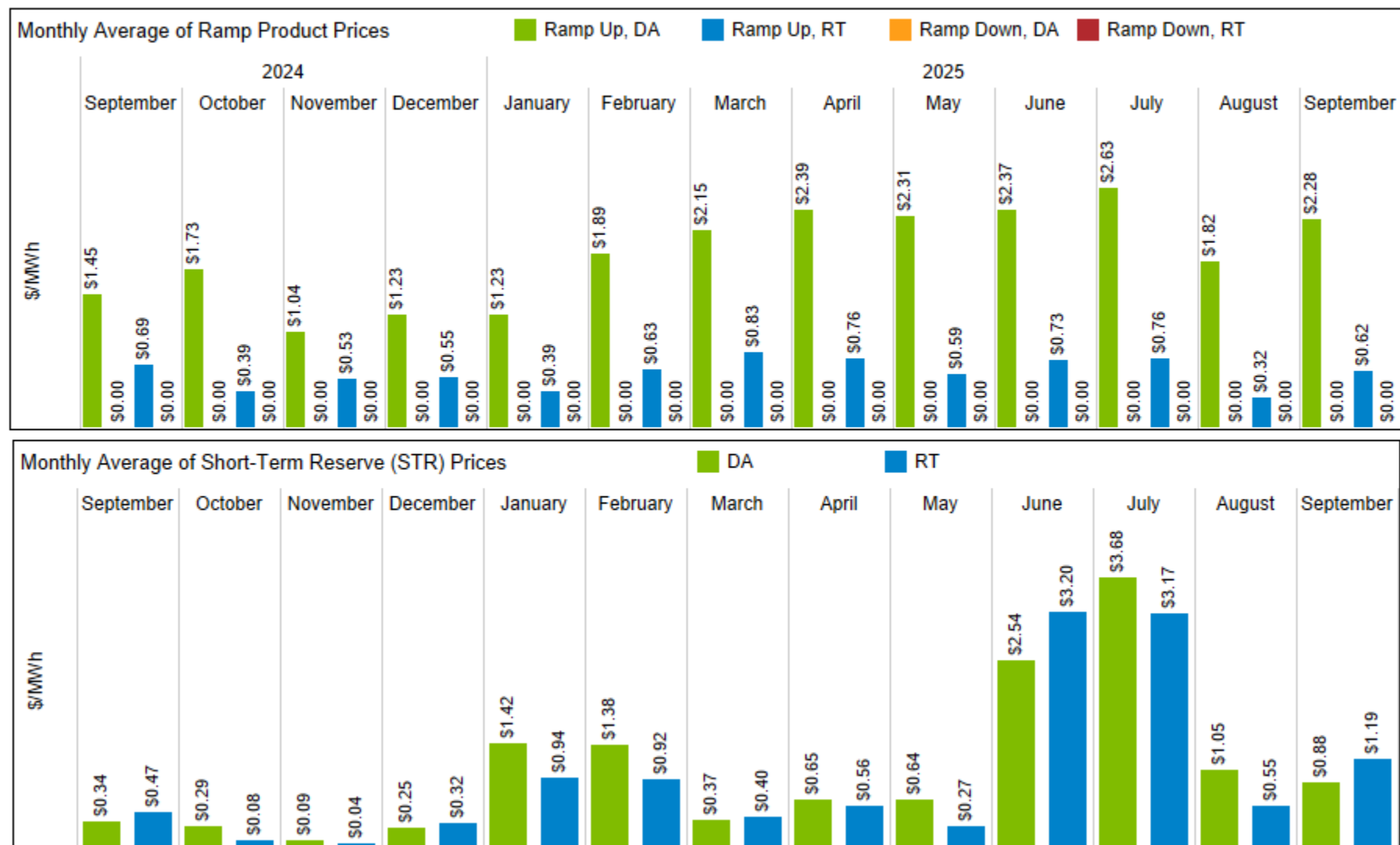
Source: MISO Market and Operations Analytics Department

Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



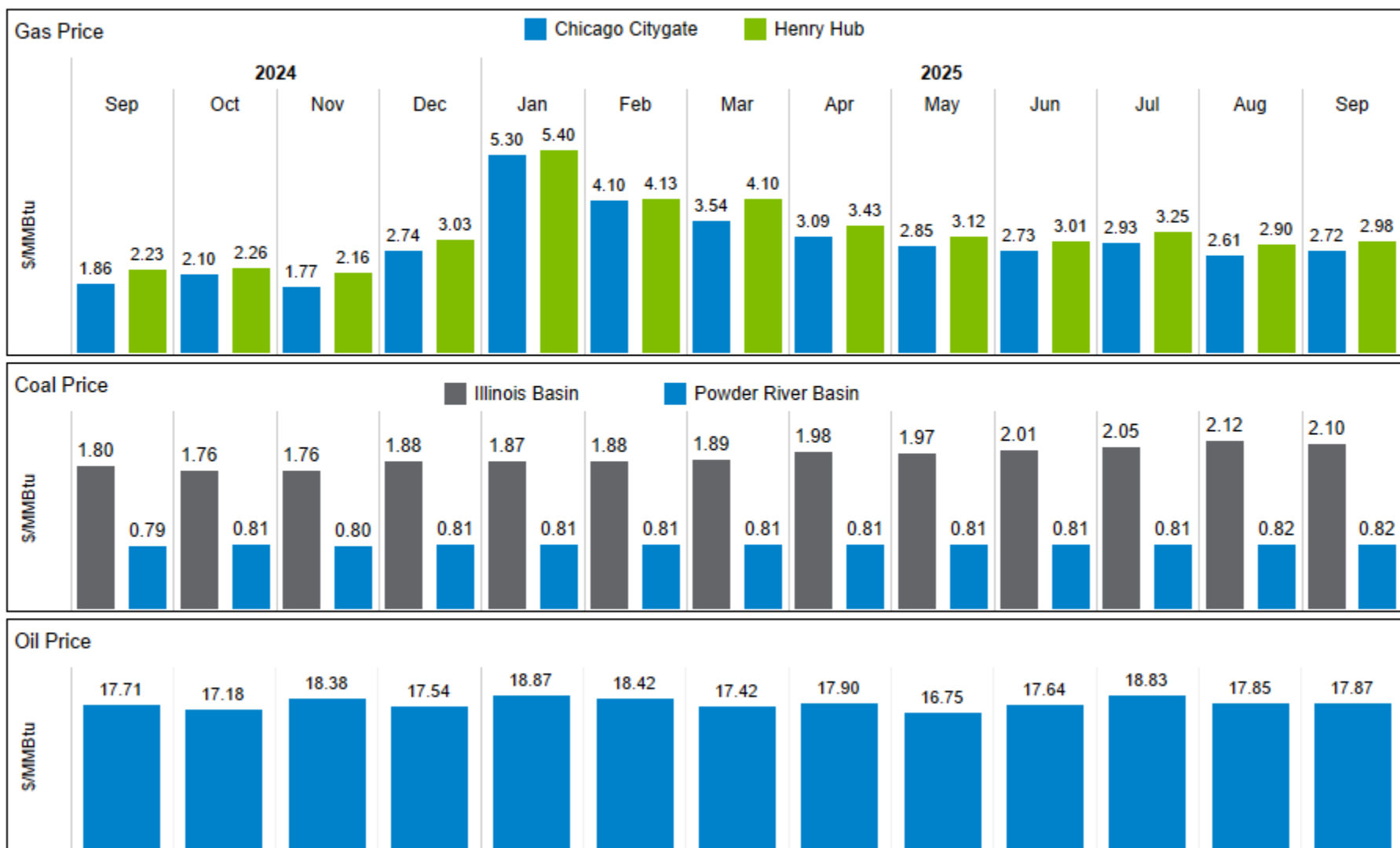
Source: MISO Market and Operations Analytics Department

Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



Source: MISO Market and Operations Analytics Department

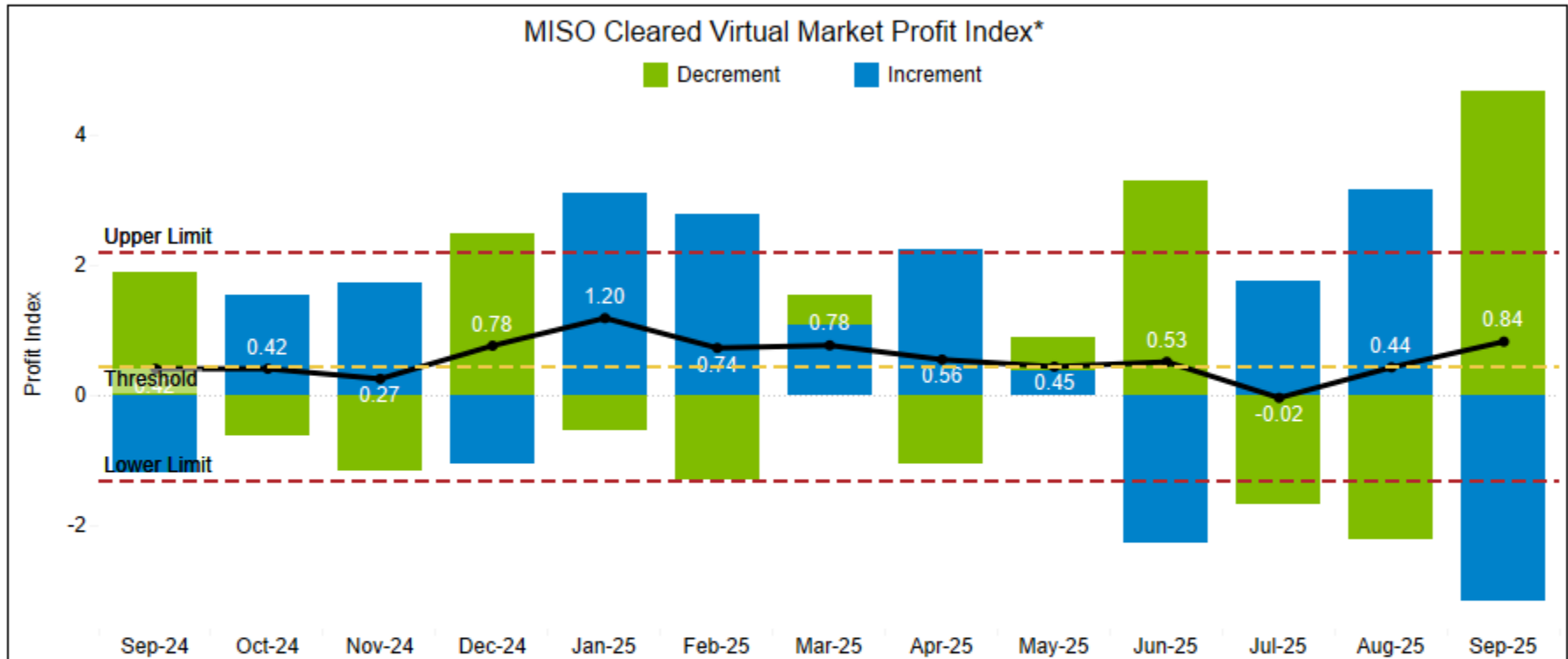
Nominal Fuel Prices



Monthly oil prices are estimates and subject to change upon finalization
Source: EIA

Monthly Average Gross Virtual Profitability

B



Monthly Standard Deviation

Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1.32	1.21	1.74	1.50	2.60	2.21	1.16	1.15	2.04	1.61	2.64	1.01	1.47

* The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions.

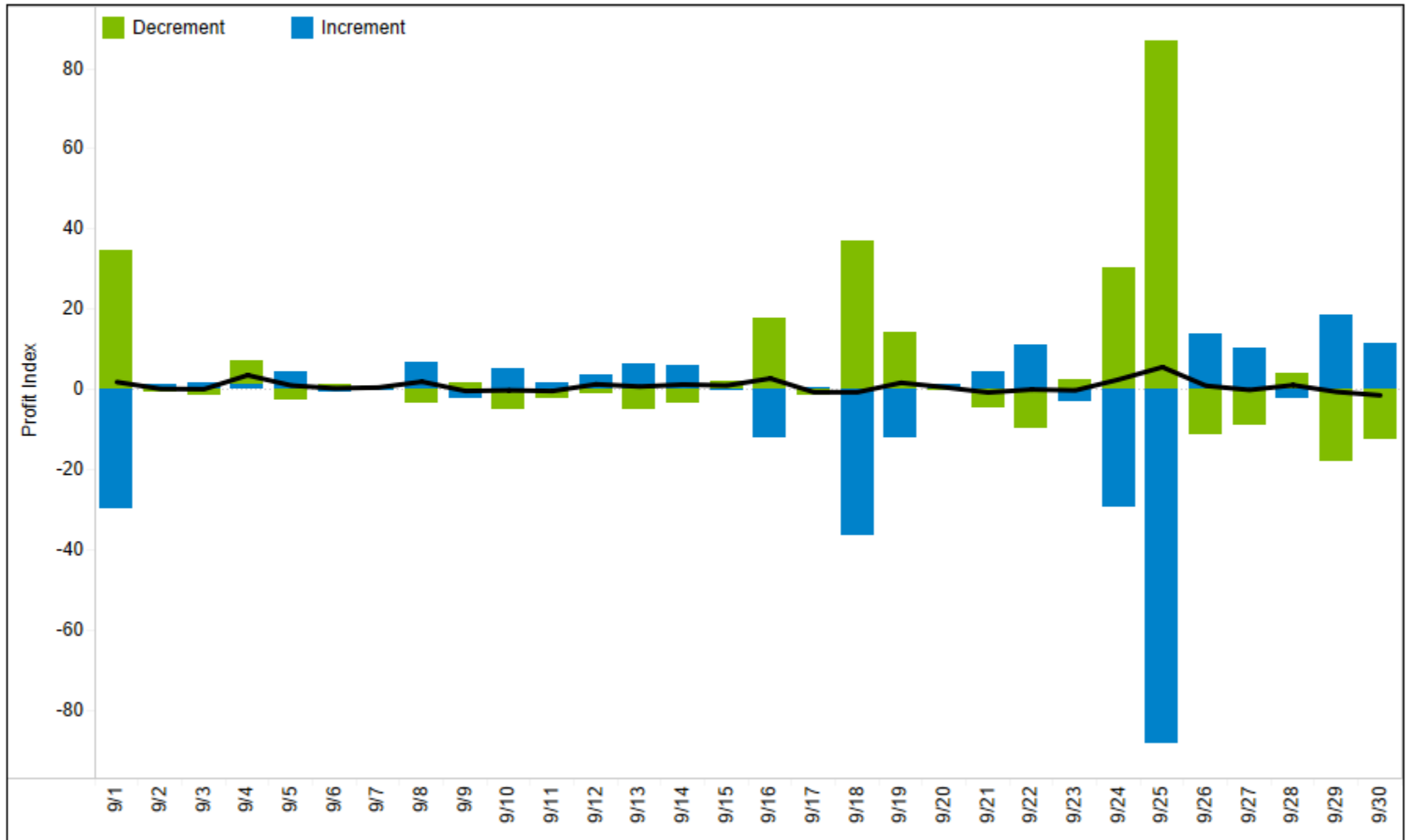
* Virtual profits/losses are calculated by multiplying the cleared virtual MW and the imbalance between RT LMP and DA LMP for a cnode, then summed across all cnodes, all hours.

* Upper Limit is Threshold (average of monthly indices from the previous year) plus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusive)

* Lower Limit is Threshold (average of monthly indices from the previous year) minus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusive).

Source: MISO Market and Operations Analytics Department

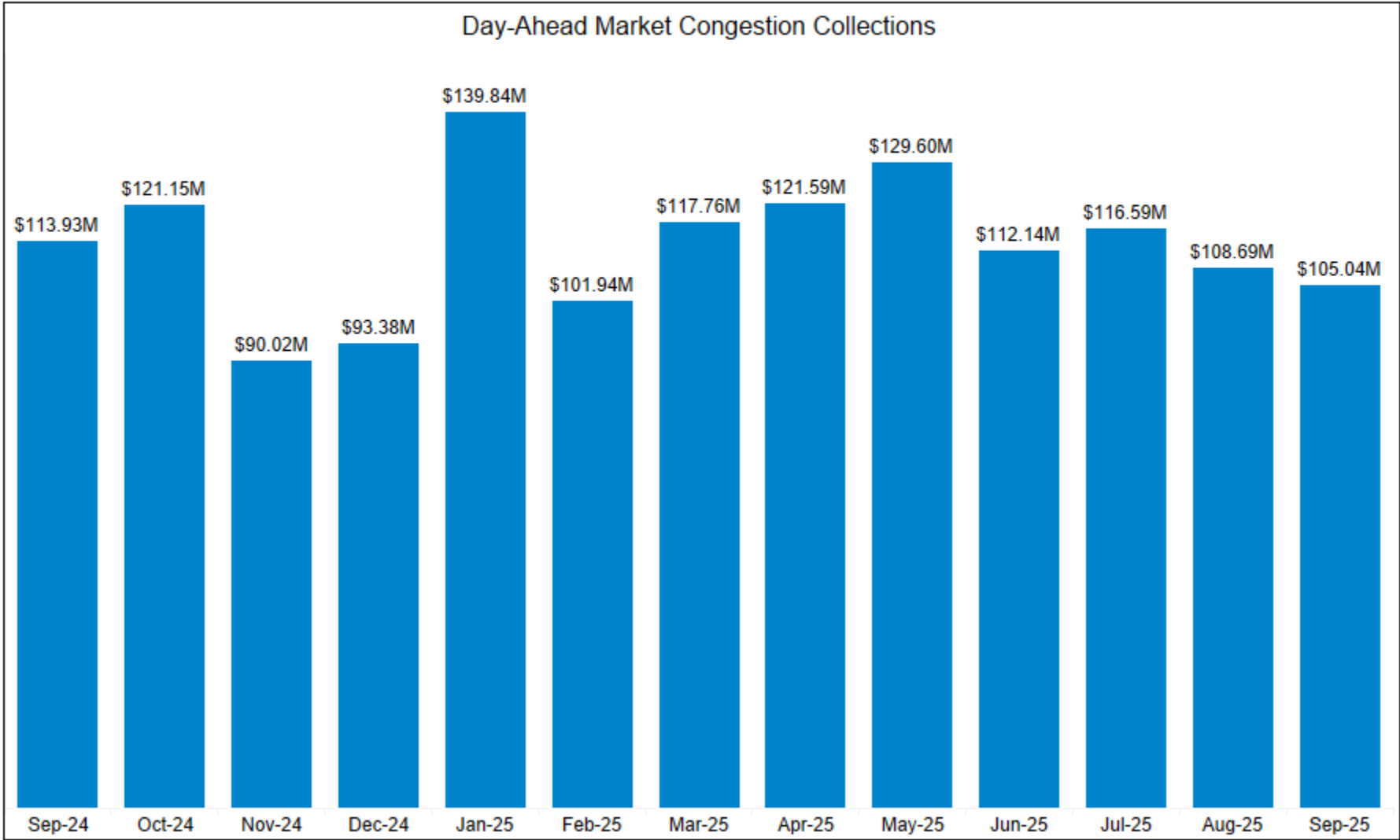
Daily Gross Cleared Virtual Profitability



The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions

Source: MISO Market and Operations Analytics Department

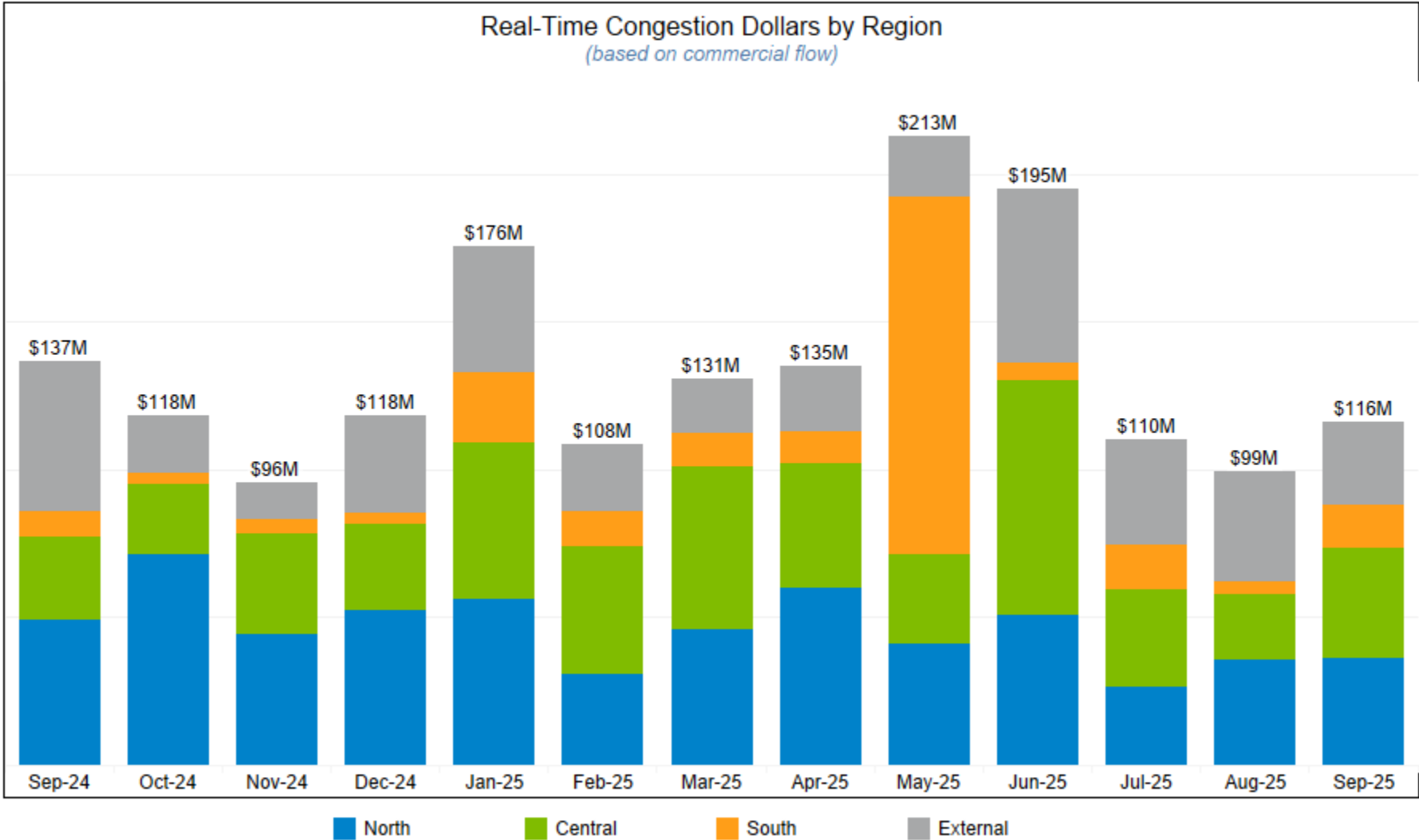
Day-Ahead Congestion Collections



Source: MISO Market and Operations Analytics Department



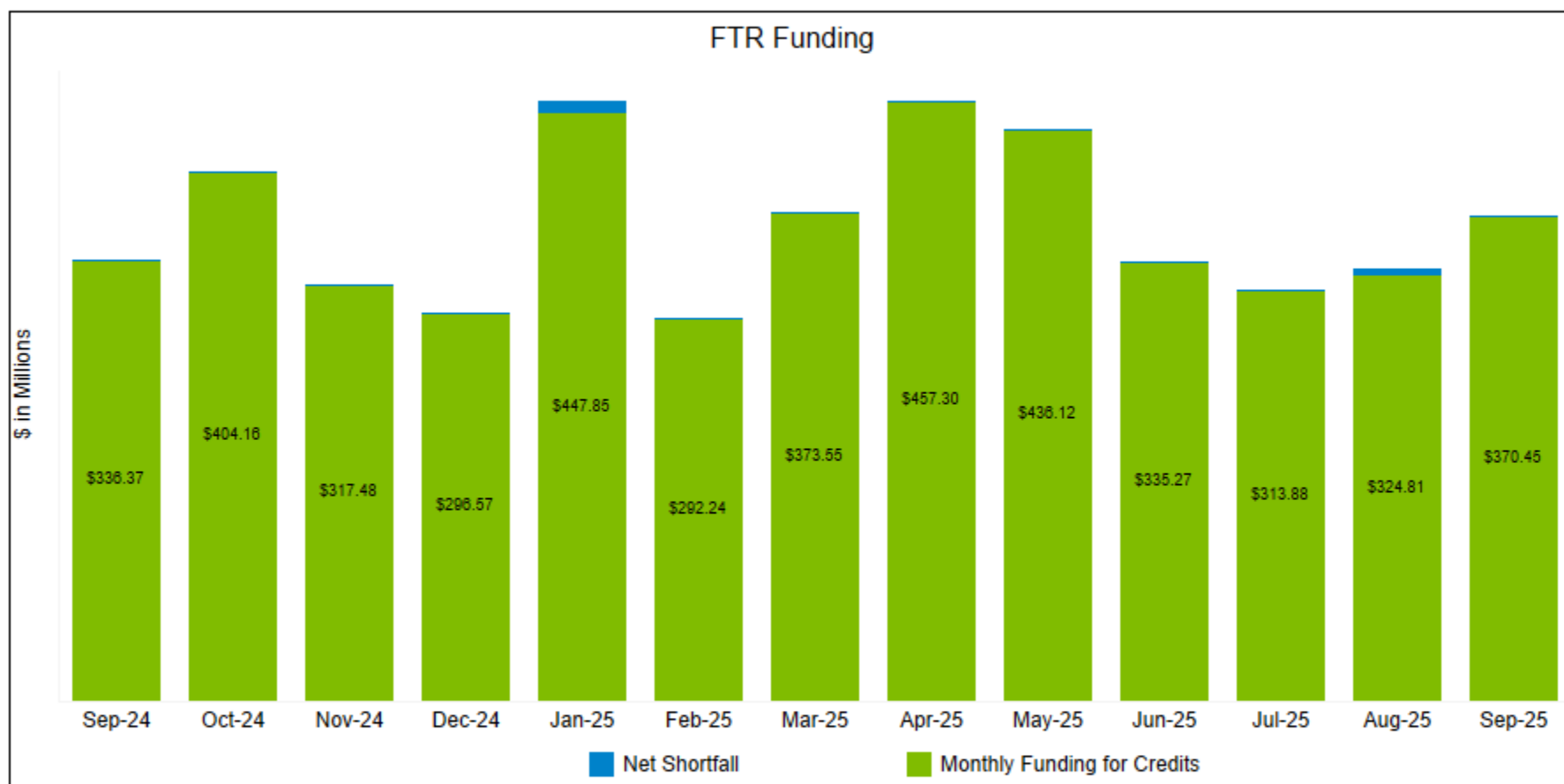
Real-Time Congestion Dollars by Region



Includes External Constraints
Commercial Flow excludes phase angle regulators and loop flows
Source: MISO Market and Operations Analytics Department

Financial Transmission Rights, Monthly and Rolling Year-to-Date Allocation Funding

C

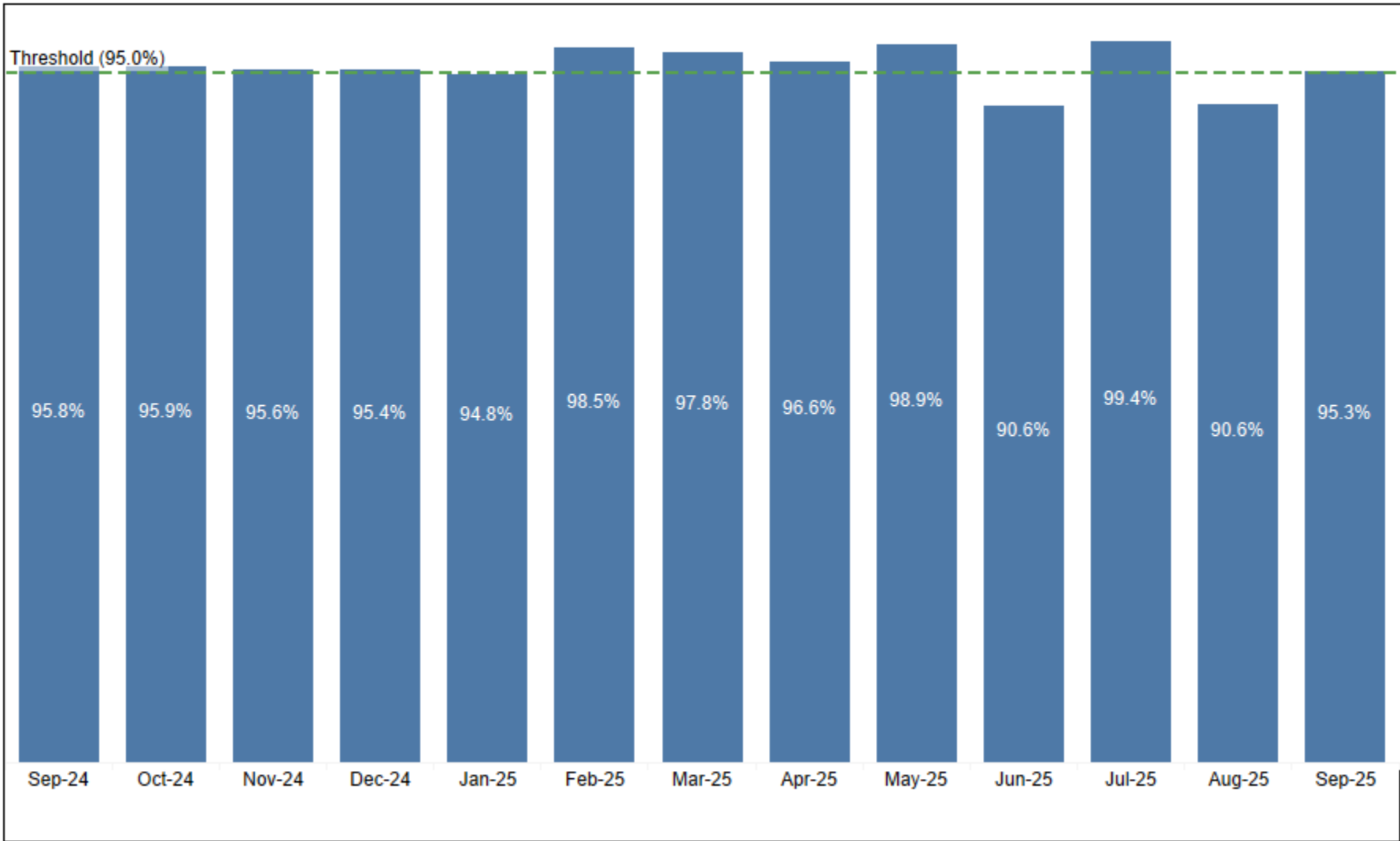


	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Monthly FTR Allocation (%)	99.9%	100.0%	100.0%	100.0%	97.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.3%	100.0%
YTD FTR Allocation (%)	97.1%	97.5%	97.8%	98.0%	NA	NA	NA	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

YTD metric is applied beginning April
 Values may change due to resettlement
 Source: MISO Market ECF Report

Market Funding Efficiency

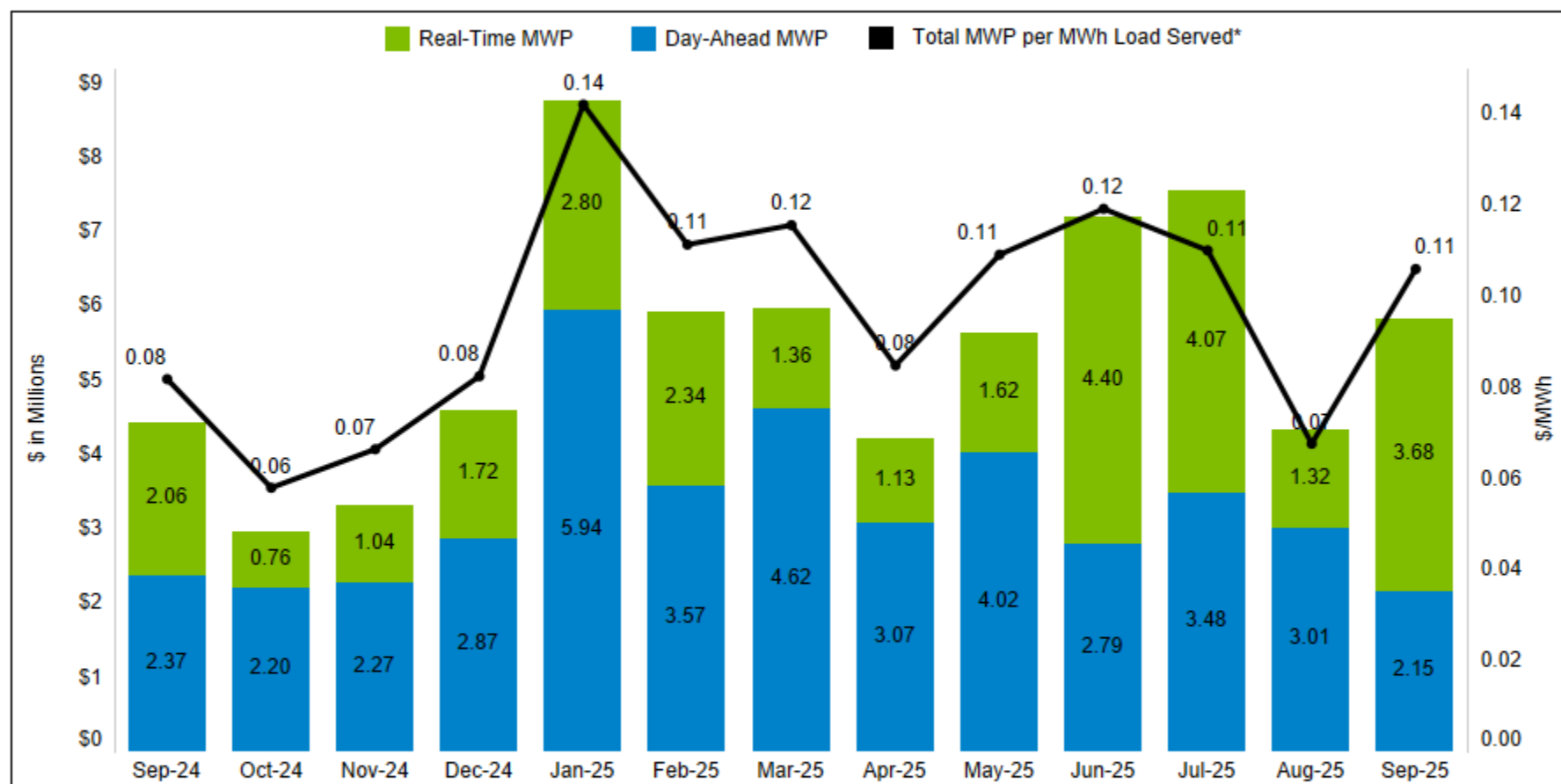
D



Values may change due to resettlement
Source: MISO Market ECF Report



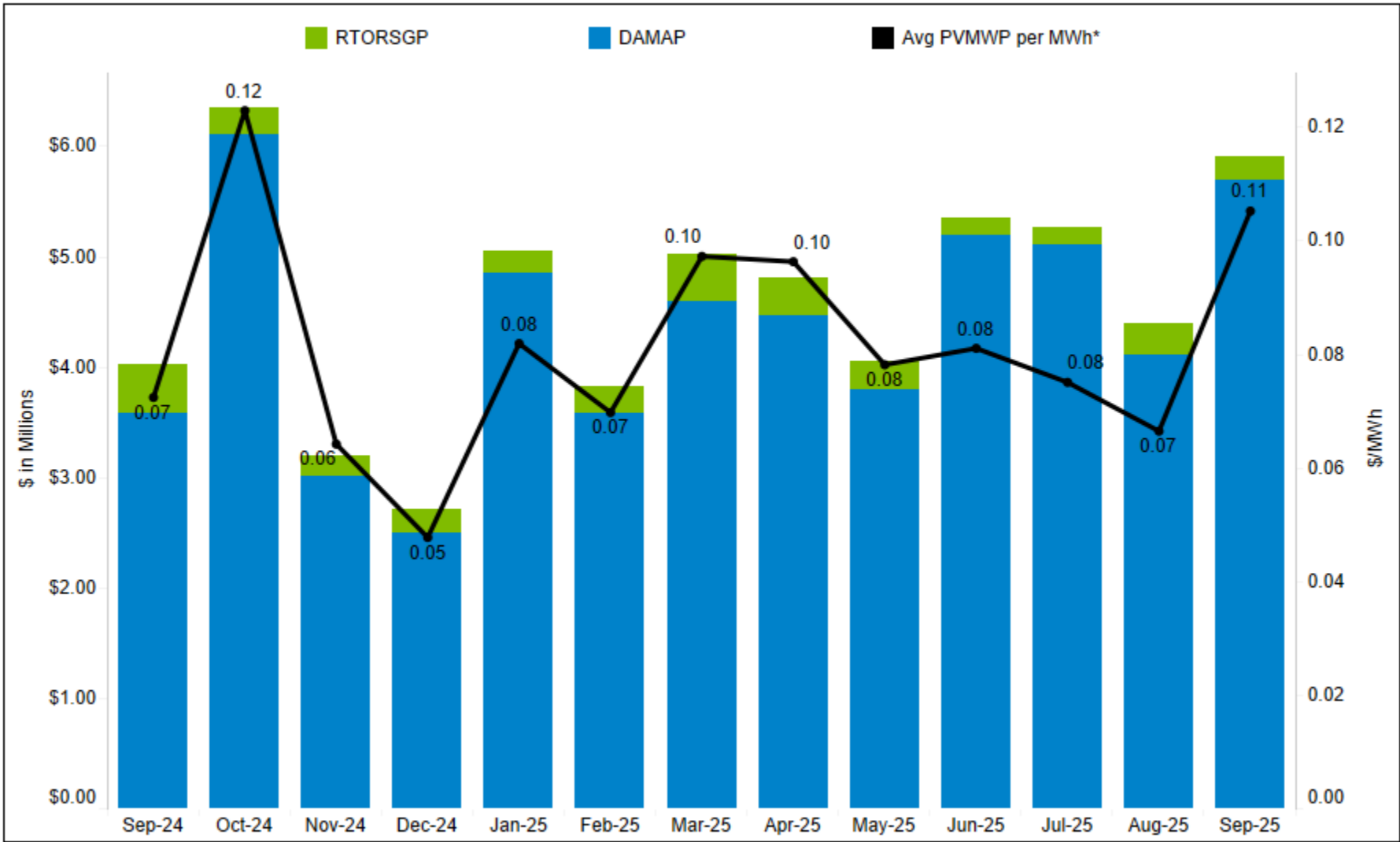
Day-Ahead and Real-Time Revenue Sufficiency Guarantee E



	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Chicago Gas Prices (\$/MMBtu)	1.86	2.10	1.77	2.74	5.30	4.10	3.54	3.09	2.85	2.73	2.93	2.61	2.72
Henry Gas Prices (\$/MMBtu)	2.23	2.26	2.16	3.03	5.40	4.13	4.10	3.43	3.12	3.01	3.25	2.90	2.98
^^RSG Per MWh to Energy Price (%)	0.31	0.22	0.27	0.27	0.32	0.26	0.33	0.25	0.31	0.30	0.23	0.19	0.29

*Based on hourly ICCP Data; ^^metric value
 Values may change due to resettlement
 Source: The Web-based Revenue Sufficiency Guarantee Report

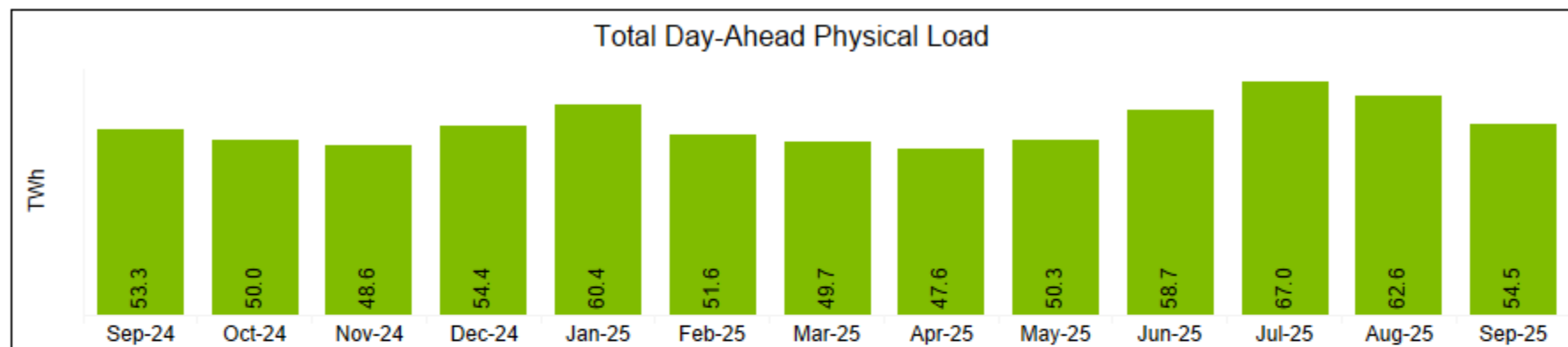
Price Volatility Make Whole Payment



*Hourly ICCP data

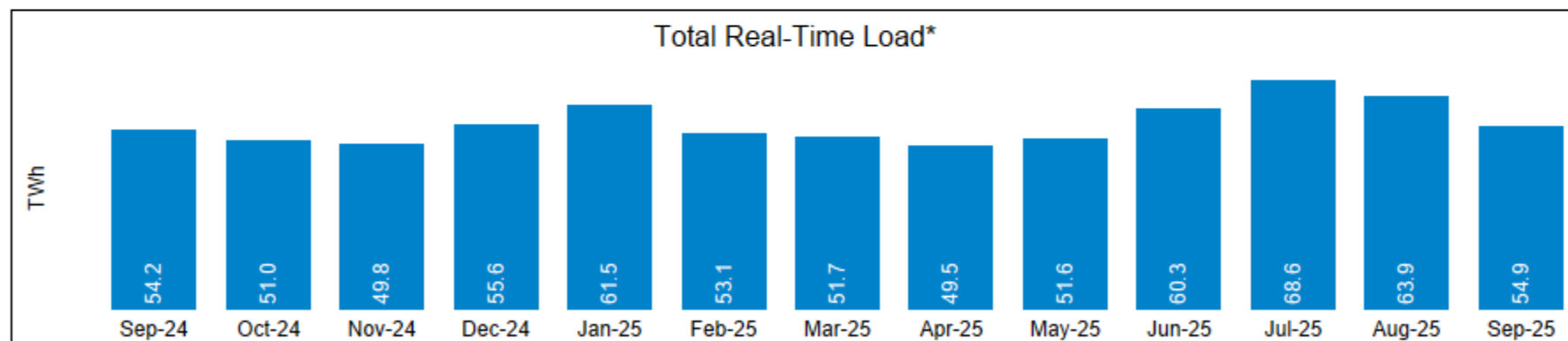
Source: Web-based Revenue Neutrality Uplift Report

Day-Ahead and Real-Time Cleared Physical Energy



Day-Ahead Cleared Load Value (including Virtuals)

Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
\$1.74B	\$1.57B	\$1.44B	\$2.06B	\$3.20B	\$2.68B	\$1.93B	\$1.87B	\$2.14B	\$2.97B	\$4.17B	\$2.96B	\$2.50B



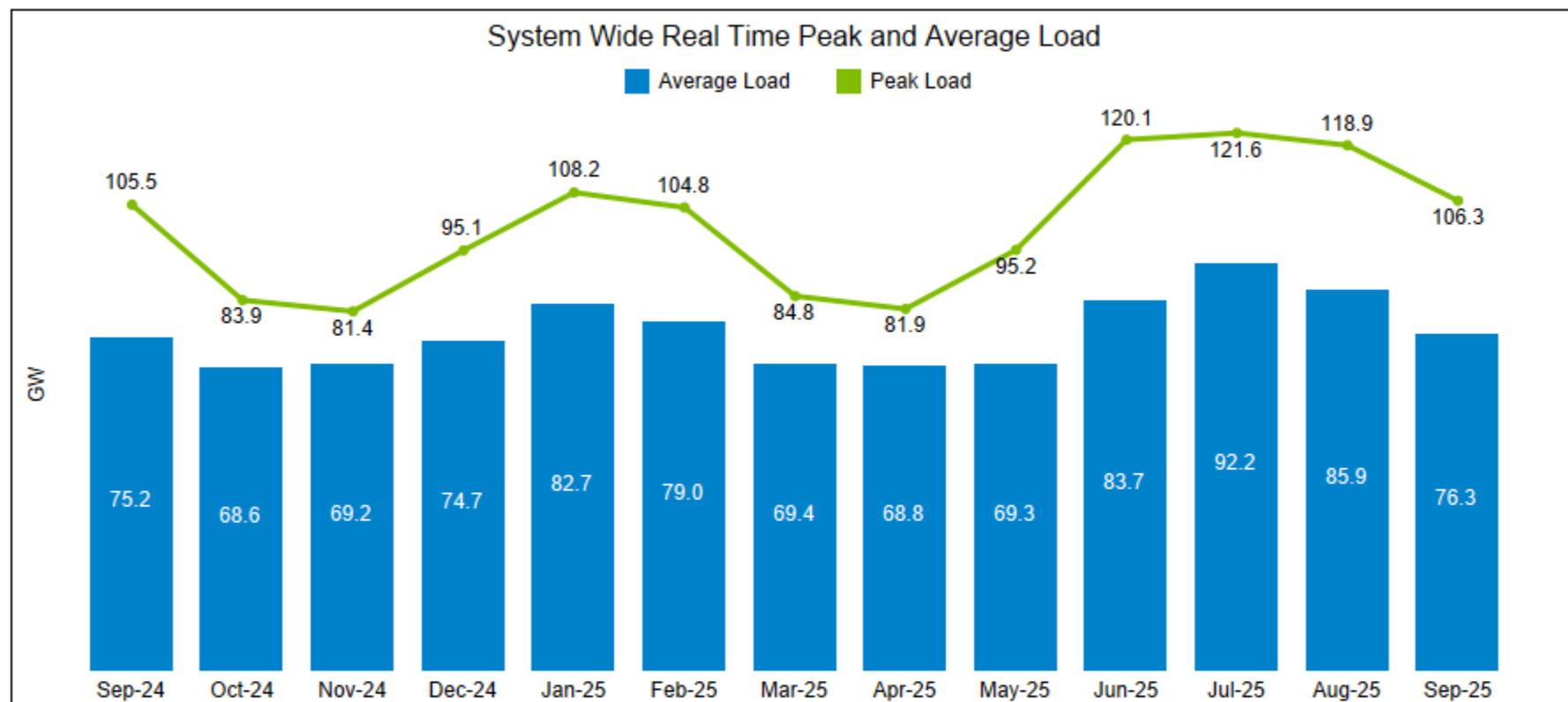
Real-Time Cleared Load Value (\$ in Billions)

Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
\$1.63B	\$1.29B	\$1.18B	\$1.83B	\$2.64B	\$2.21B	\$1.65B	\$1.55B	\$1.95B	\$3.00B	\$3.68B	\$2.44B	\$2.49B

*Sum of Hourly ICCP Load Data

Source: MISO Market and Operations Analytics Department

Monthly System Load and Temperature



System Wide Load Weighted Temperature			
	Sep-24	Aug-25	Sep-25
Average	71°F	76°F	70°F
Maximum	87°F	96°F	87°F
Minimum	51°F	55°F	50°F

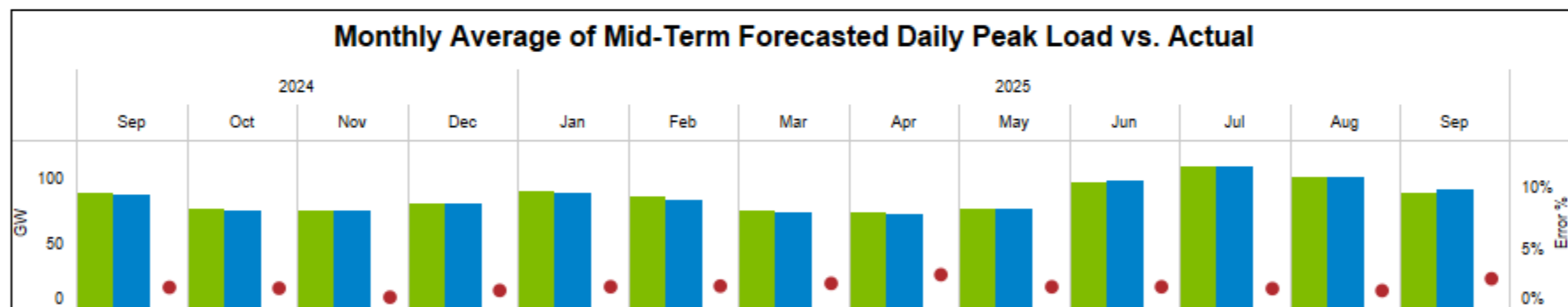
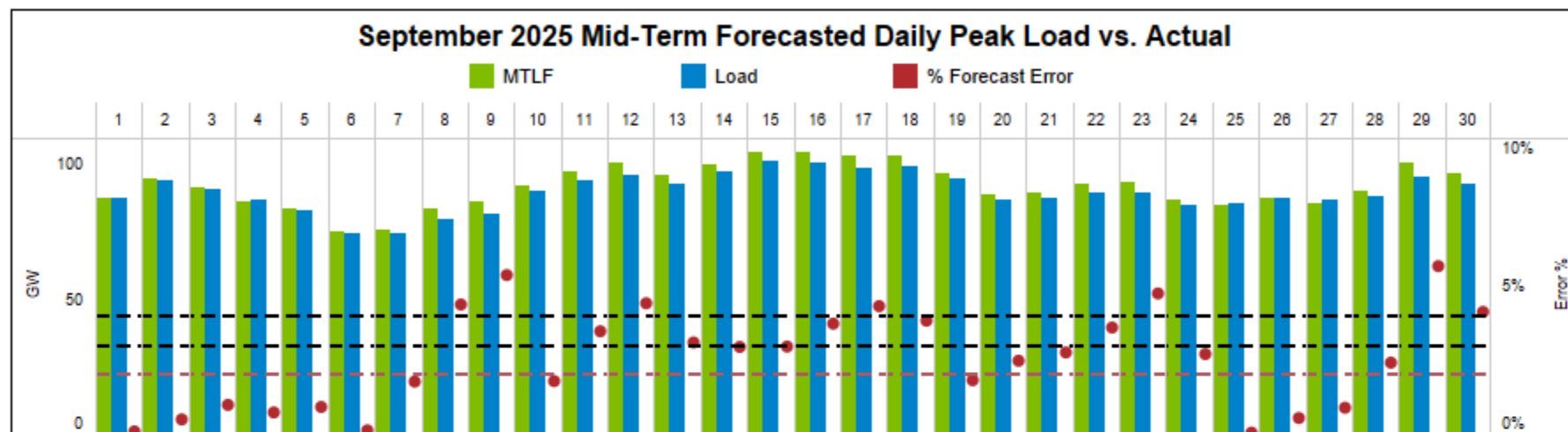
Load Weighted Heating & Cooling Degree Days				
	Average HDD	Std Dev HDD	Average CDD	Std Dev CDD
Sep-25	0.60	1.84	8.52	7.23
Aug-25	0.17	0.82	14.07	8.55
Sep-24	0.36	1.39	9.01	6.94

Hours with Load Greater than:			
	100 GW	80 GW	60 GW
Sep-25	6	270	698
Aug-25	159	448	743
Sep-24	11	246	684

*Monthly data based on hourly ICCP Load Data; Hourly Integrated Peak Load Hour could differ from the Instantaneous Peak Load Hour.
Source: MISO Market and Operations Analytics Department

Day-Ahead Mid-Term Load Forecast*

F



	2024				2025								
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
% Std of Error (CV)	71.09	68.94	101.98	81.76	77.55	60.87	54.00	40.07	78.67	71.95	75.03	72.03	65.02
Mean of Error (MW)	1,700	1,418	814	1,334	1,742	1,674	1,671	2,191	1,474	1,852	1,950	1,670	2,382
Std of Error (MW)	1,209	978	830	1,090	1,351	1,019	902	878	1,159	1,332	1,463	1,203	1,549

* Monthly data based on the average of the daily integrated peak hours in the month

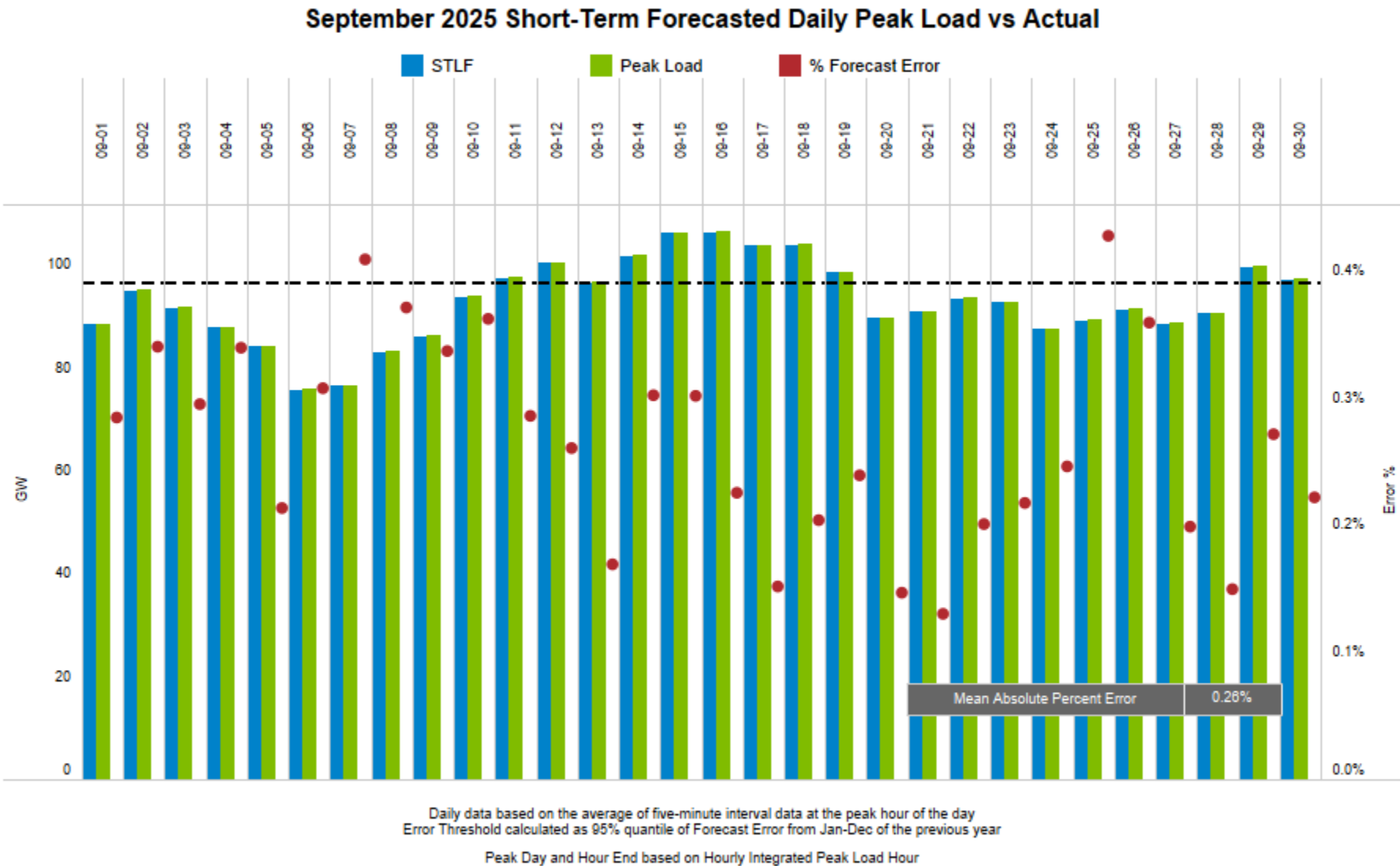
* Daily data based on the integrated peak hour of the day

* Peak Day and Hour End based on Hourly Integrated Peak Load Hour

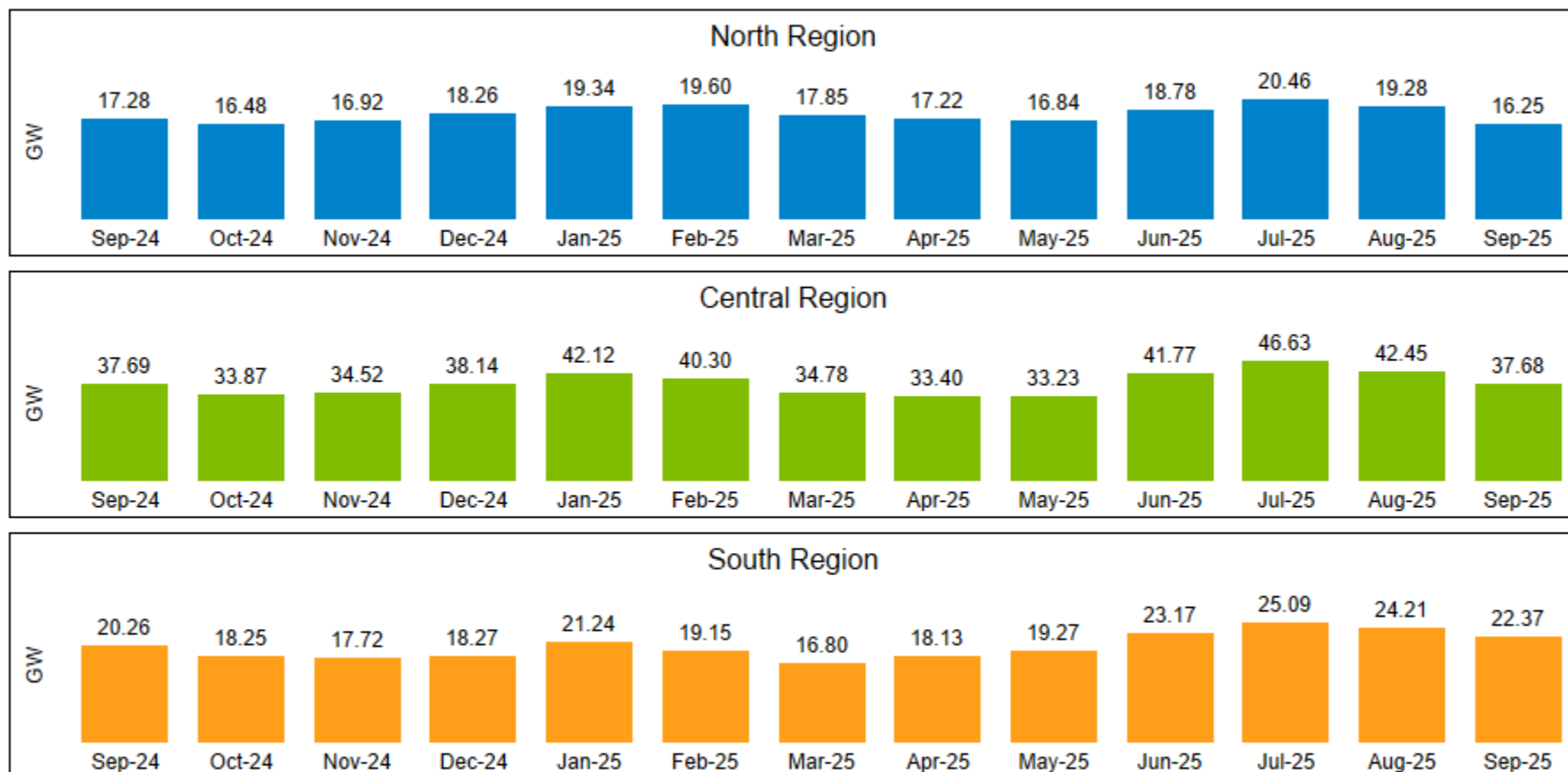
Source: MISO Operations Risk Management



Short-Term Load Forecast*



Average Load by Region



Hourly Integrated System Load Peak Hour Ending: 09/15/2025 17 EST

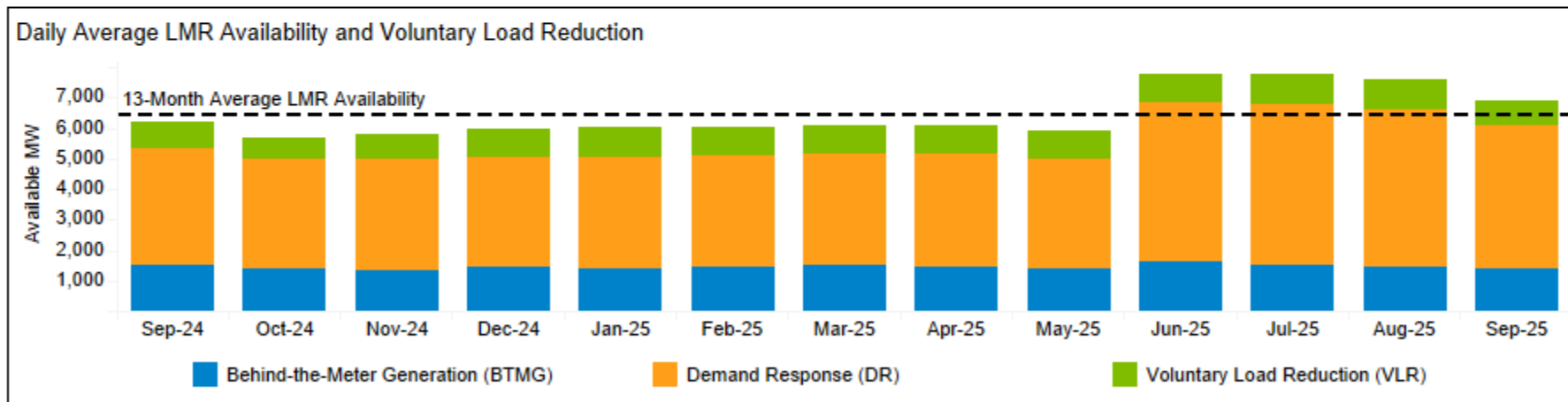
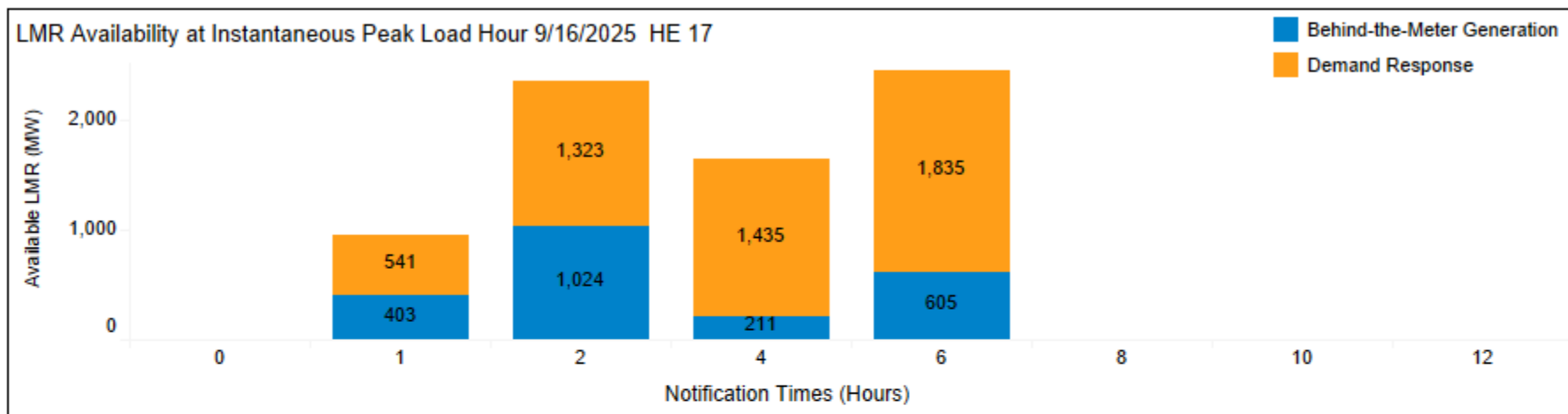
North	20.78 GW
Central	53.21 GW
South	29.74 GW
MISO	101.68 GW

*Monthly data based on hourly ICCP Load Data; Hourly Integrated Peak Load Hour could differ from the Instantaneous Peak Load Hour.

Source: MISO Market and Operations Analytics Department

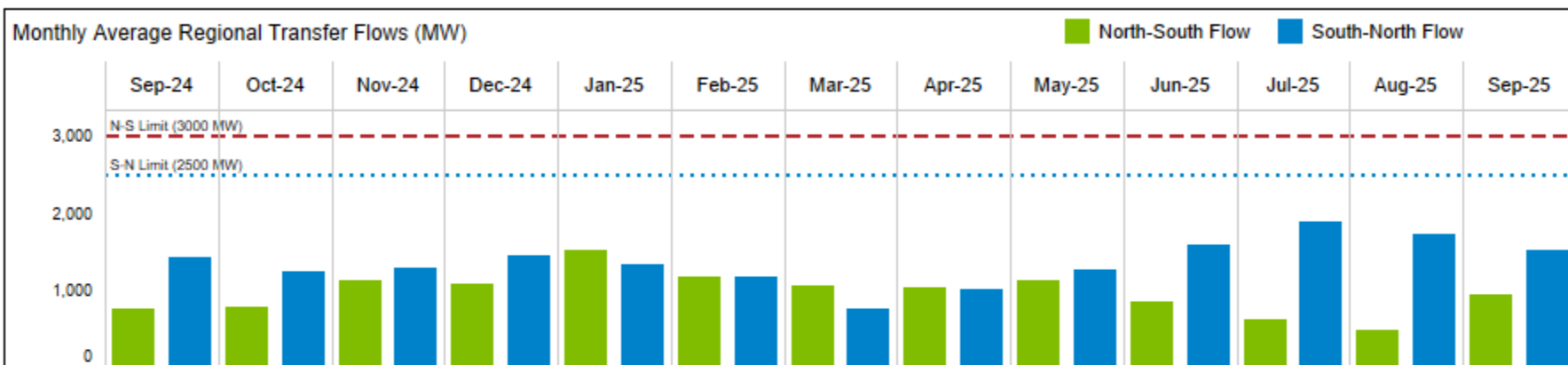


Market Participant entered Load Modifying Resource (LMR) Availability



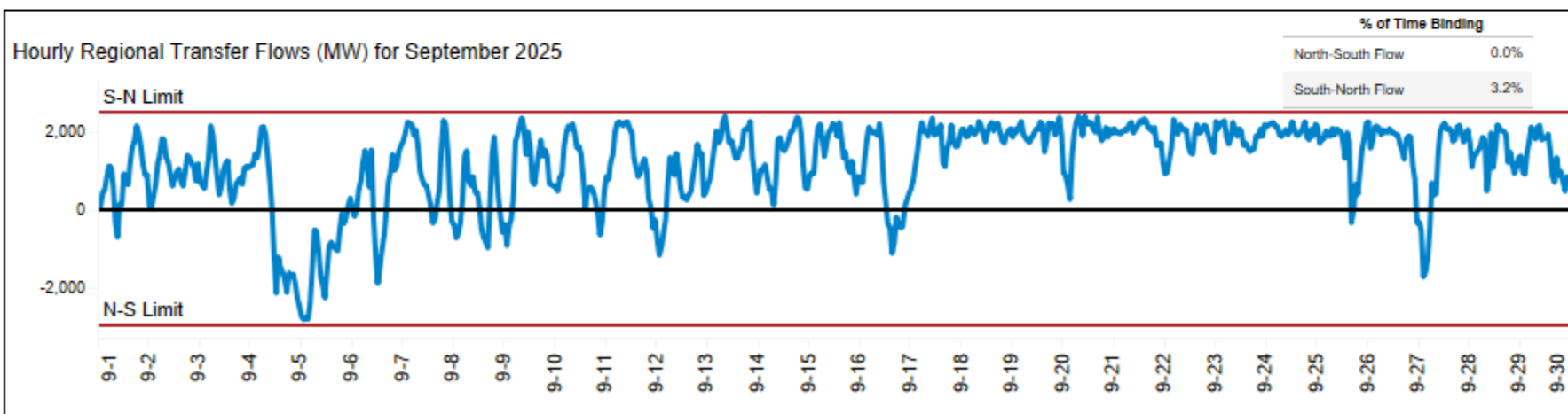
PRA Auction	BTMG (MW)	DR (MW)	Total BTMG and DR (MW)
Summer 2024	4,144	8,109	12,253
Summer 2025	4,283	9,004	13,287

Regional Directional Transfer**



Percentage of Time Regional Directional Flow

	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
North-South Flow	21%	17%	23%	22%	29%	40%	61%	44%	49%	26%	3%	4%	12%
South-North Flow	79%	83%	78%	78%	71%	60%	39%	56%	51%	74%	97%	96%	88%

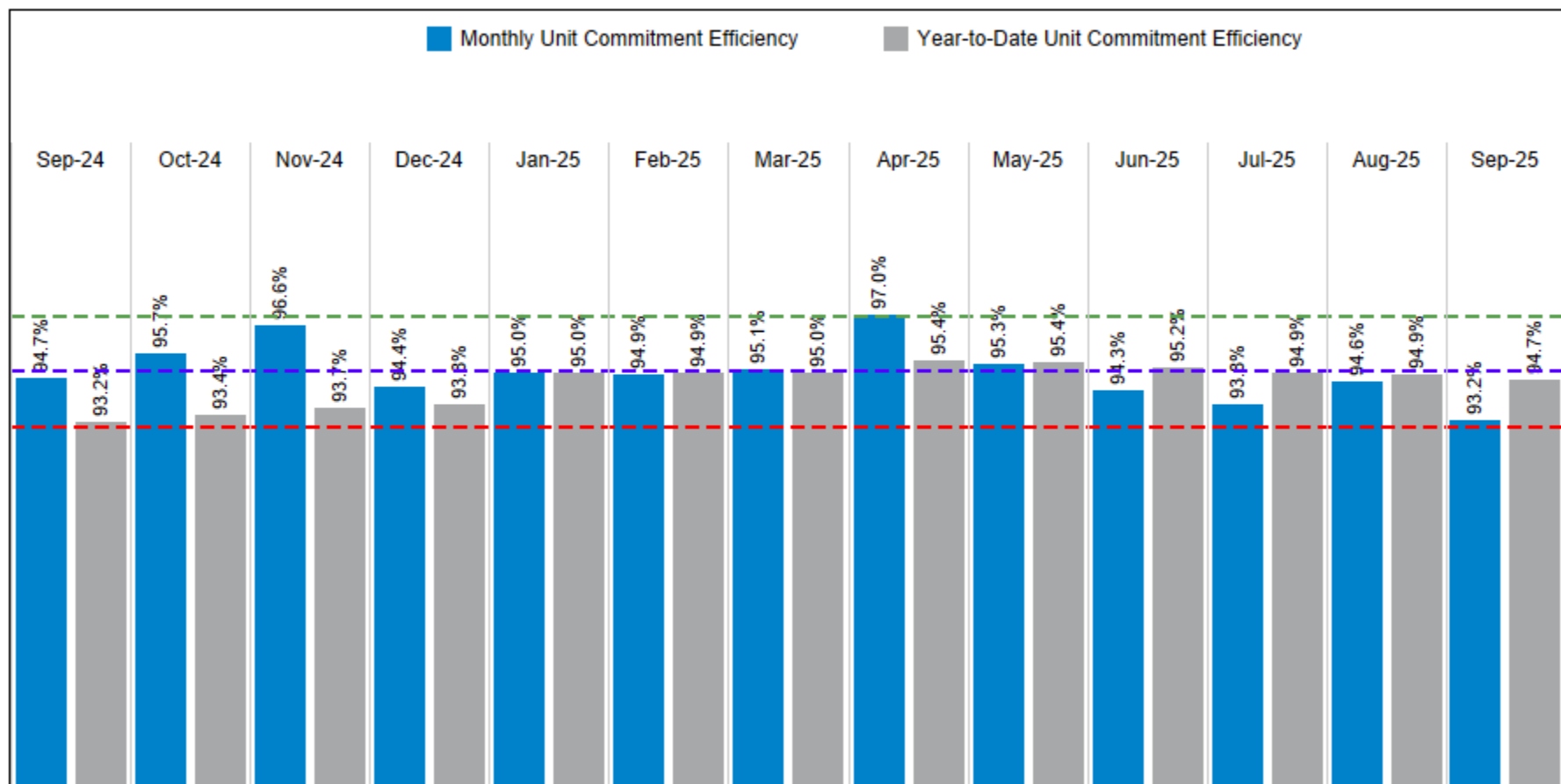


**Regional Directional Transfer between MISO South and Central/North Regions
Source: MISO Markets and Operations Analytics Department

Unit Commitment Efficiency

Effectively commit generation to meet demand obligations and mitigate constraints

H



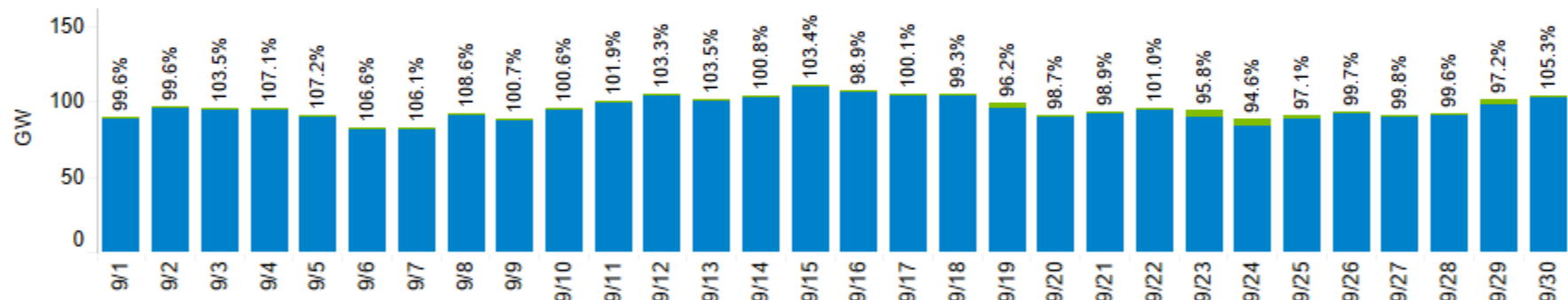
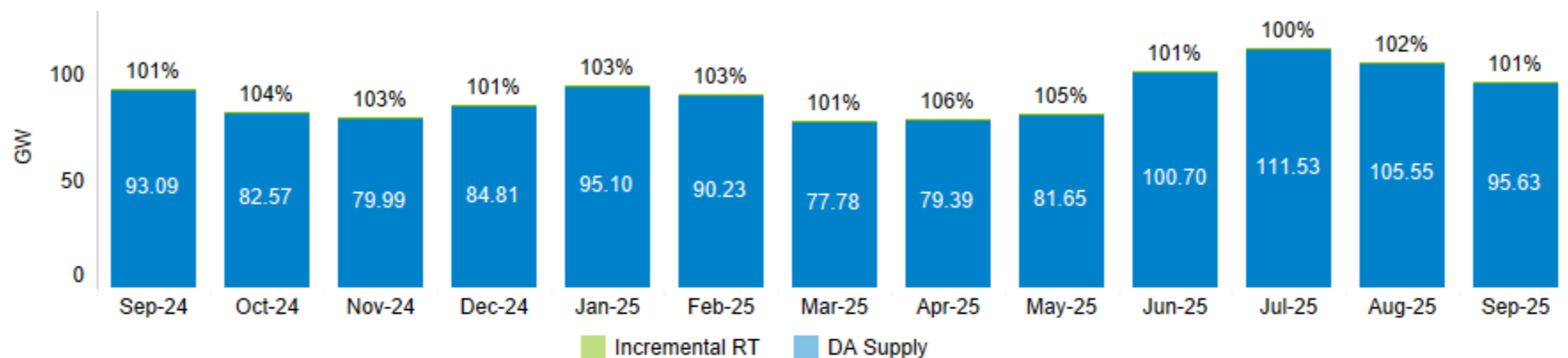
	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Actual Cost	\$809M	\$705M	\$682M	\$988M	\$1,311M	\$1,069M	\$819M	\$756M	\$829M	\$1,095M	\$1,427M	\$1,168M	\$1,041M
Optimal Cost	\$803M	\$701M	\$679M	\$978M	\$1,300M	\$1,061M	\$812M	\$752M	\$822M	\$1,085M	\$1,415M	\$1,159M	\$1,029M
Sunk Cost	\$685M	\$595M	\$576M	\$807M	\$1,095M	\$897M	\$673M	\$628M	\$678M	\$913M	\$1,229M	\$1,004M	\$864M

Source: MISO Optimal Dispatch Calculator (ODC)

Unit Commitment Efficiency = $1 - ((\text{Actual cost} - \text{Optimal cost}) / (\text{Actual cost} - \text{Sunk cost}))$



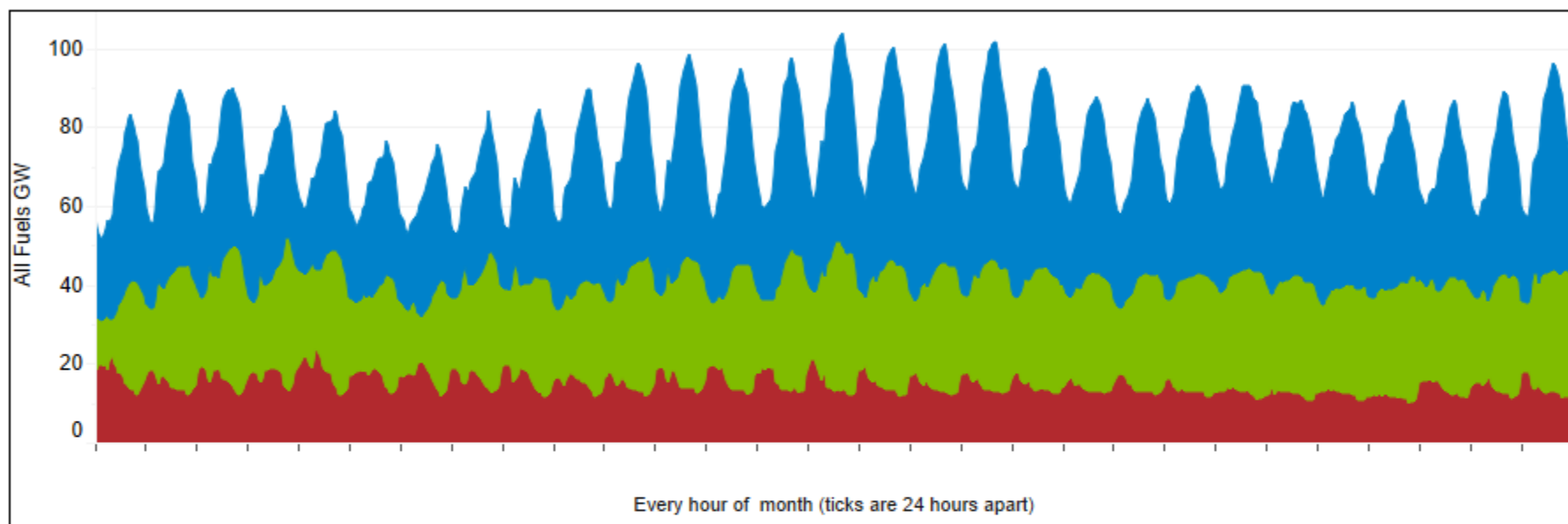
Day-Ahead Supply and Real-Time Load Obligation at the Peak Load Hour






Incremental GW Committed in Real-Time

Day-Ahead Supply is the Day-Ahead Economic Maximum received in Real-Time plus Behind-the-Meter plus Day-Ahead NSI at the Peak Hour
 Real-Time Obligation is the Real-Time ICCP Load plus Real-Time Regulation Requirement plus Real-Time Spinning Requirement at the Peak Hour
 Real-Time Increment is the Real-Time Obligation less Day-Ahead Supply at the Peak Hour
 Percents calculated as Day-Ahead Supply divided by Real-Time Obligation

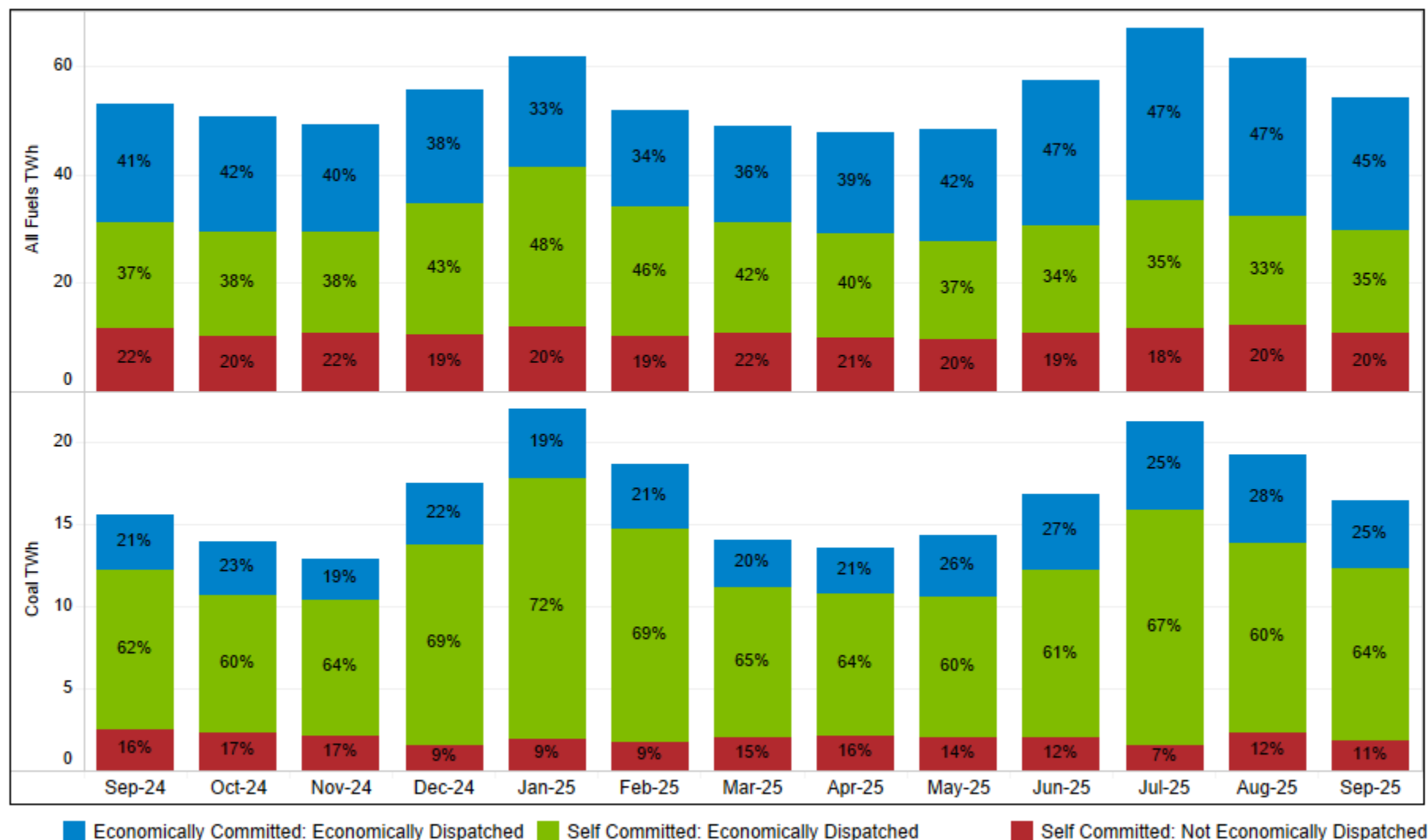
Self Committed and Economically Dispatched Energy - September 2025



	All Fuels		Coal		Gas	
	TWh	%	TWh	%	TWh	%
Economically Committed: Economically Dispatched	24.5	45%	4.1	25%	16.5	74%
Self Committed: Economically Dispatched	19.0	35%	10.5	64%	4.8	22%
Self Committed: Not Economically Dispatched	10.7	20%	1.8	11%	1.0	4%
Grand Total	54.1	100%	16.4	100%	22.3	100%

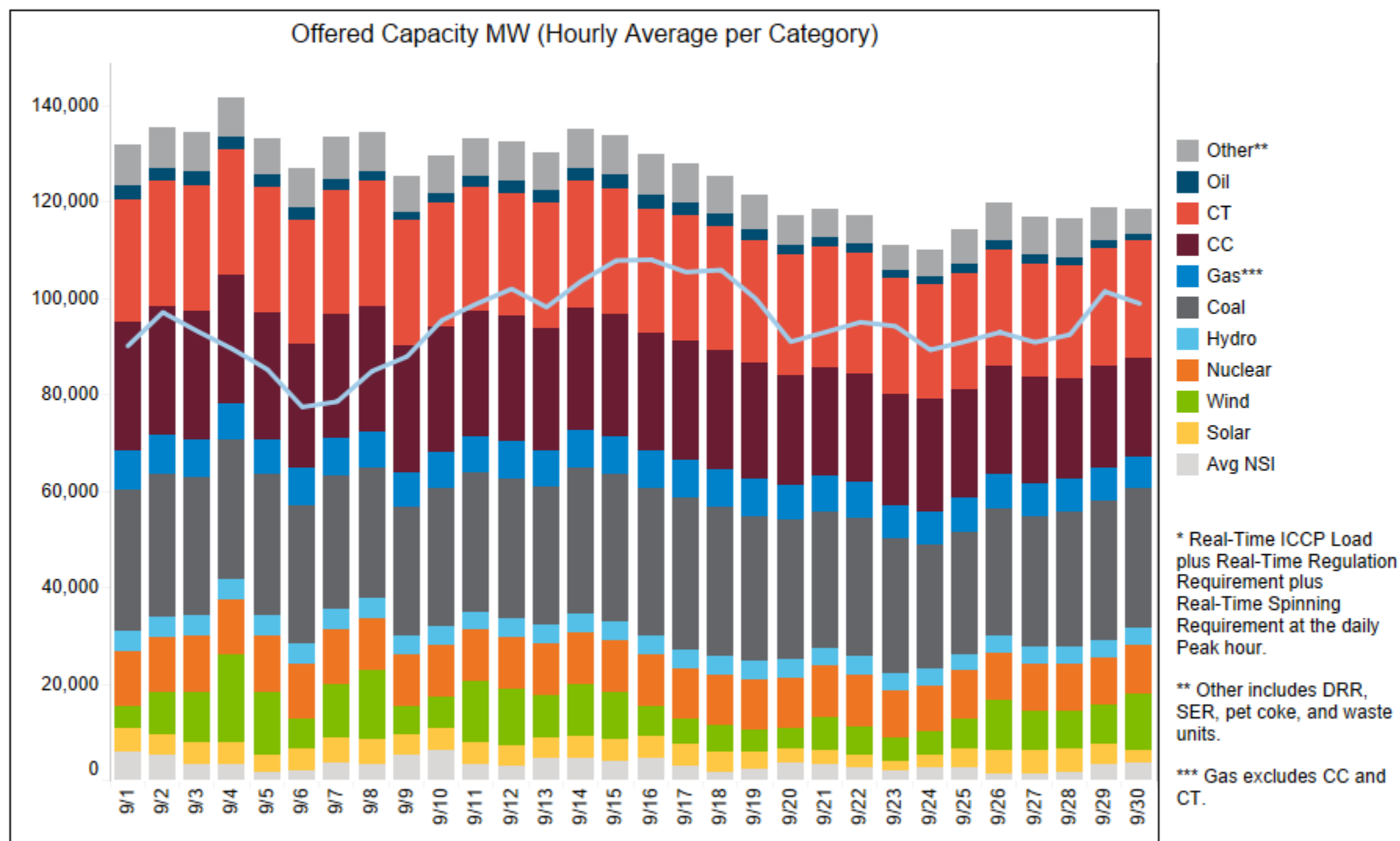
	Economically Committed: Economically Dispatched	Generation committed by MISO and dispatched on economic offers.
	Self Committed: Economically Dispatched	Generation that is self-committed, but Resource Owners allow MISO to dispatch economically after the self-schedule portion of their resource offer is satisfied. Self-commitments can be used to manage local reliability, operational constraints, and fuel contract constraints.
	Self Committed: Not Economically Dispatched	Energy from self-committed generation produced at its minimum level or is block-loaded and cannot be dispatched. Block Loaded energy is not necessarily uneconomic, but MISO has no ability to dispatch it based on economics.

Monthly Trend - Self Committed and Economically Dispatched Energy

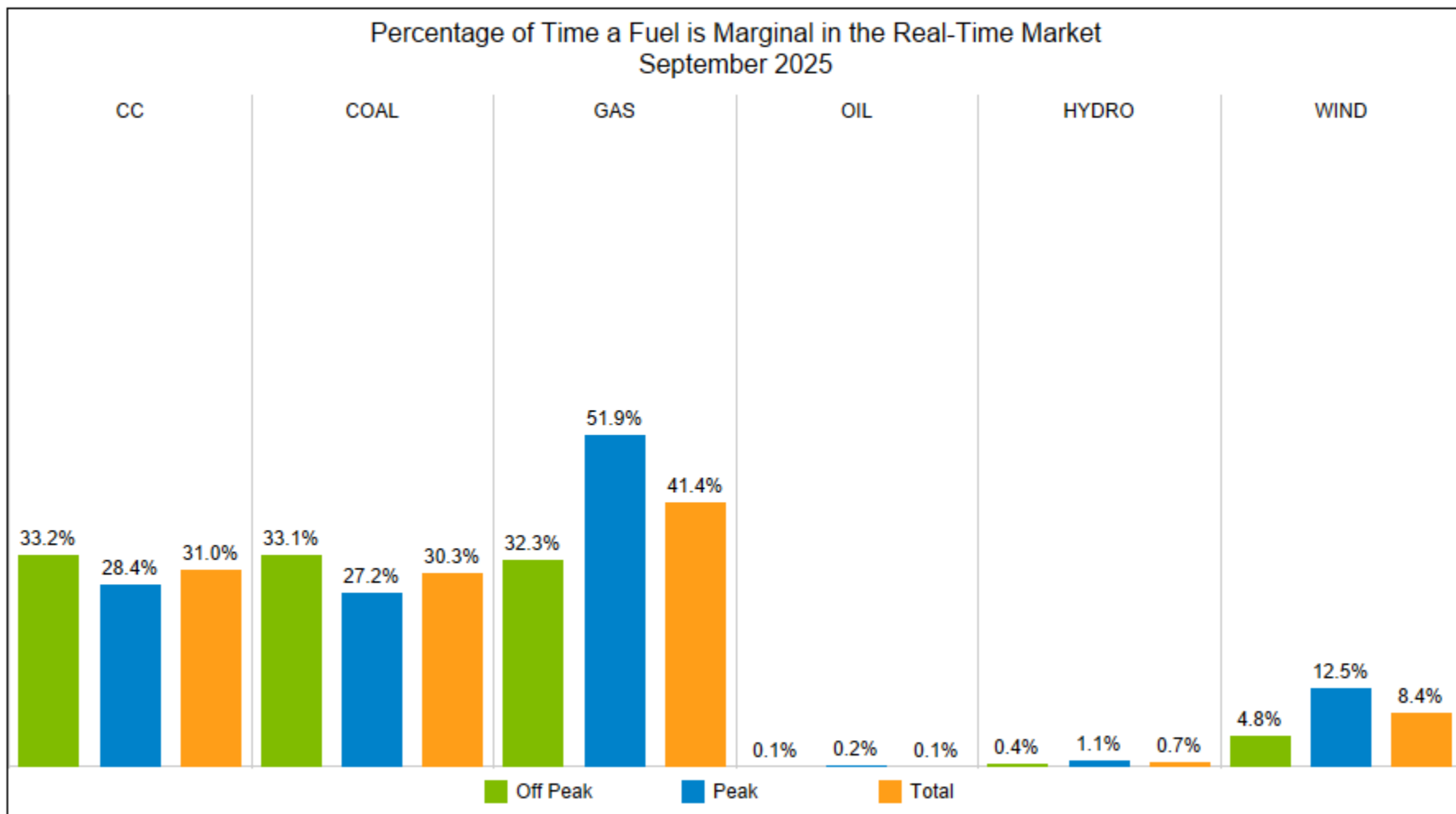


Source: MISO Market and Operations Analytics Department

Offered Capacity and Real-Time Peak Load Obligation

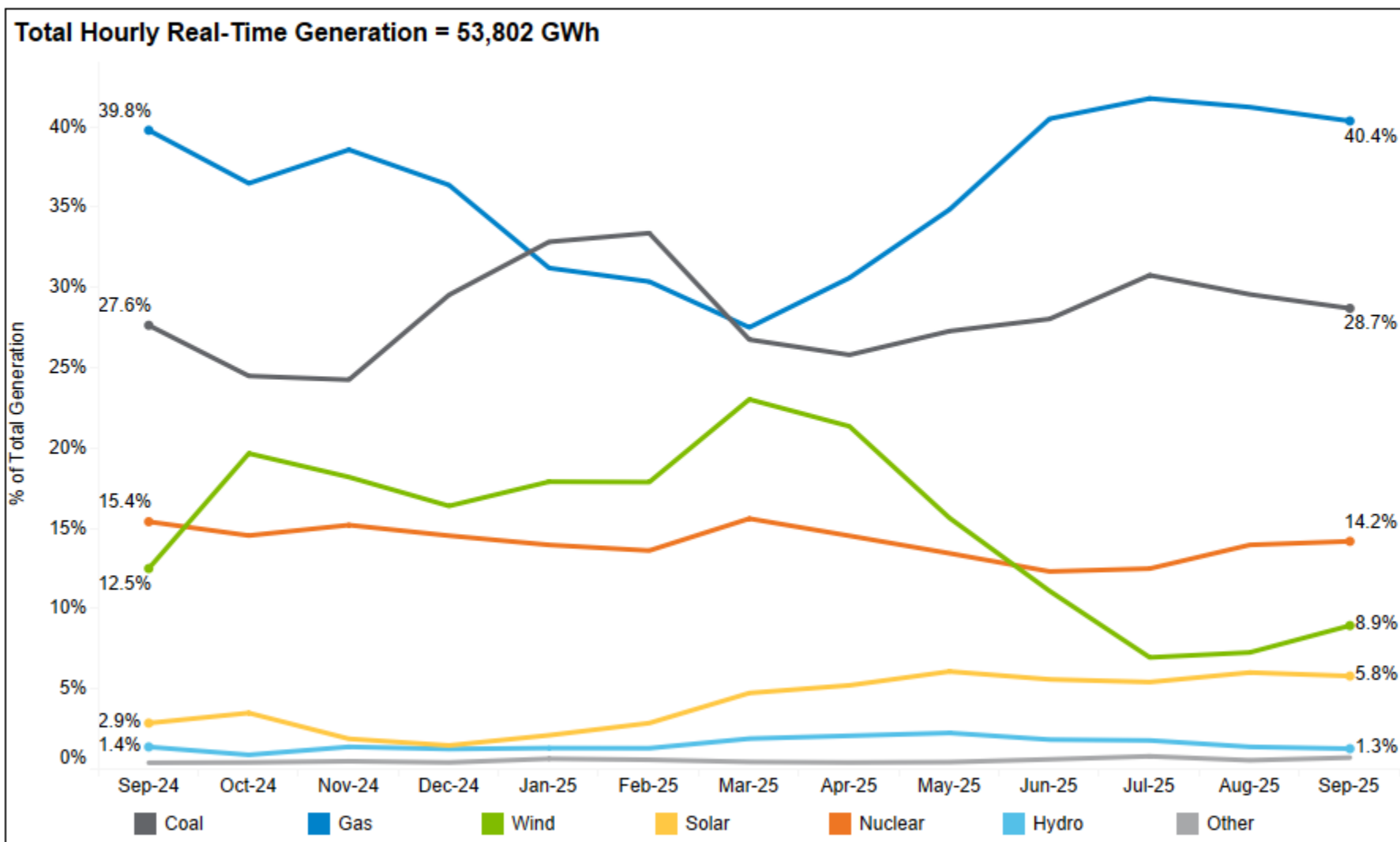


Marginal Fuel



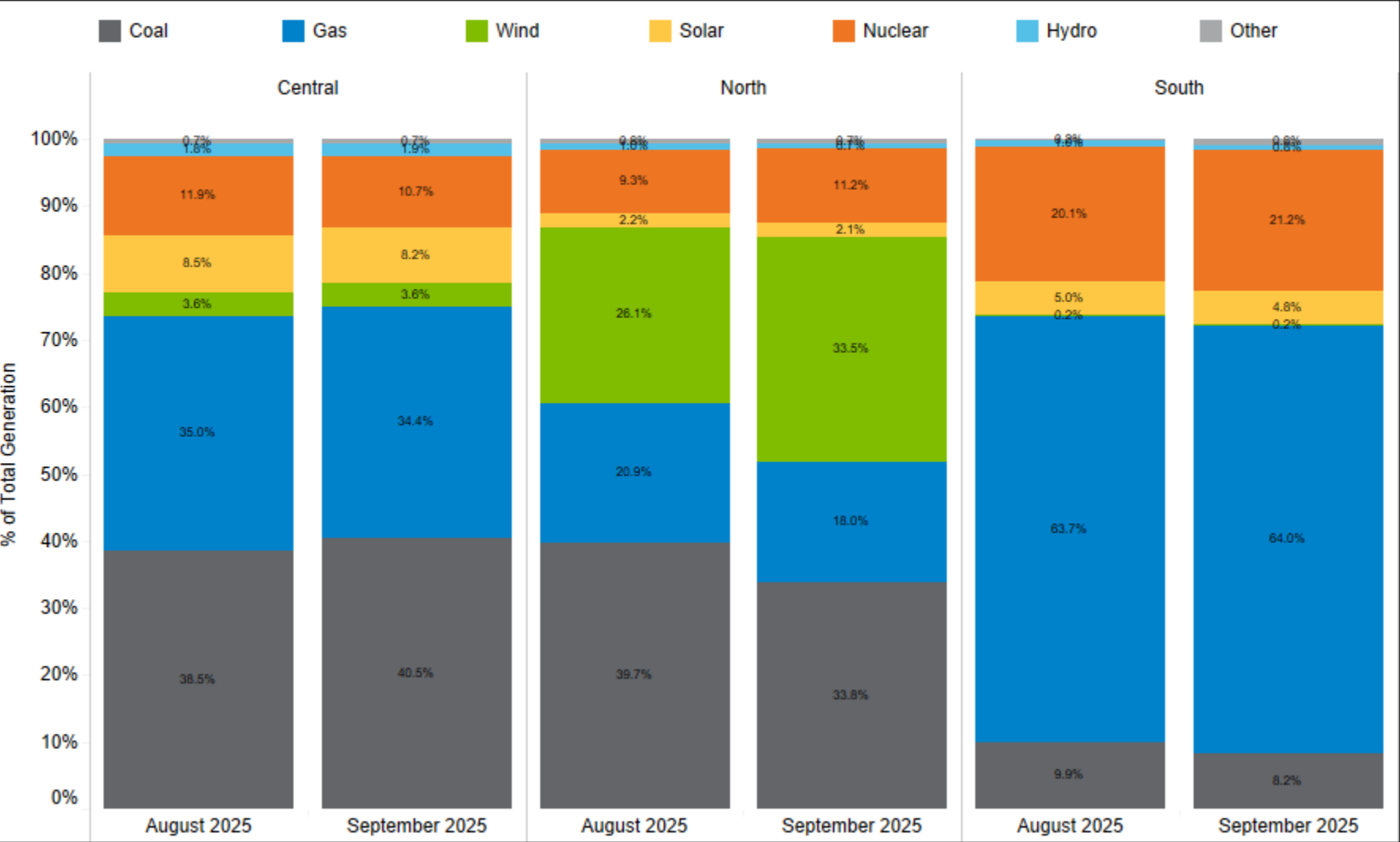
Note: Binding transmission constraints can produce instances where more than one unit is marginal in the system. Consequently, more than one fuel may be on the margin; and since each marginal unit is included in the analysis, the percentage may sum to more than 100%.

Real-Time Generation Fuel Mix



Based on hourly unit level state estimator data
 Other includes: Battery, Oil, Pet Coke, Waste and Other fuels
 Source: MISO Market and Operations Analytics Department

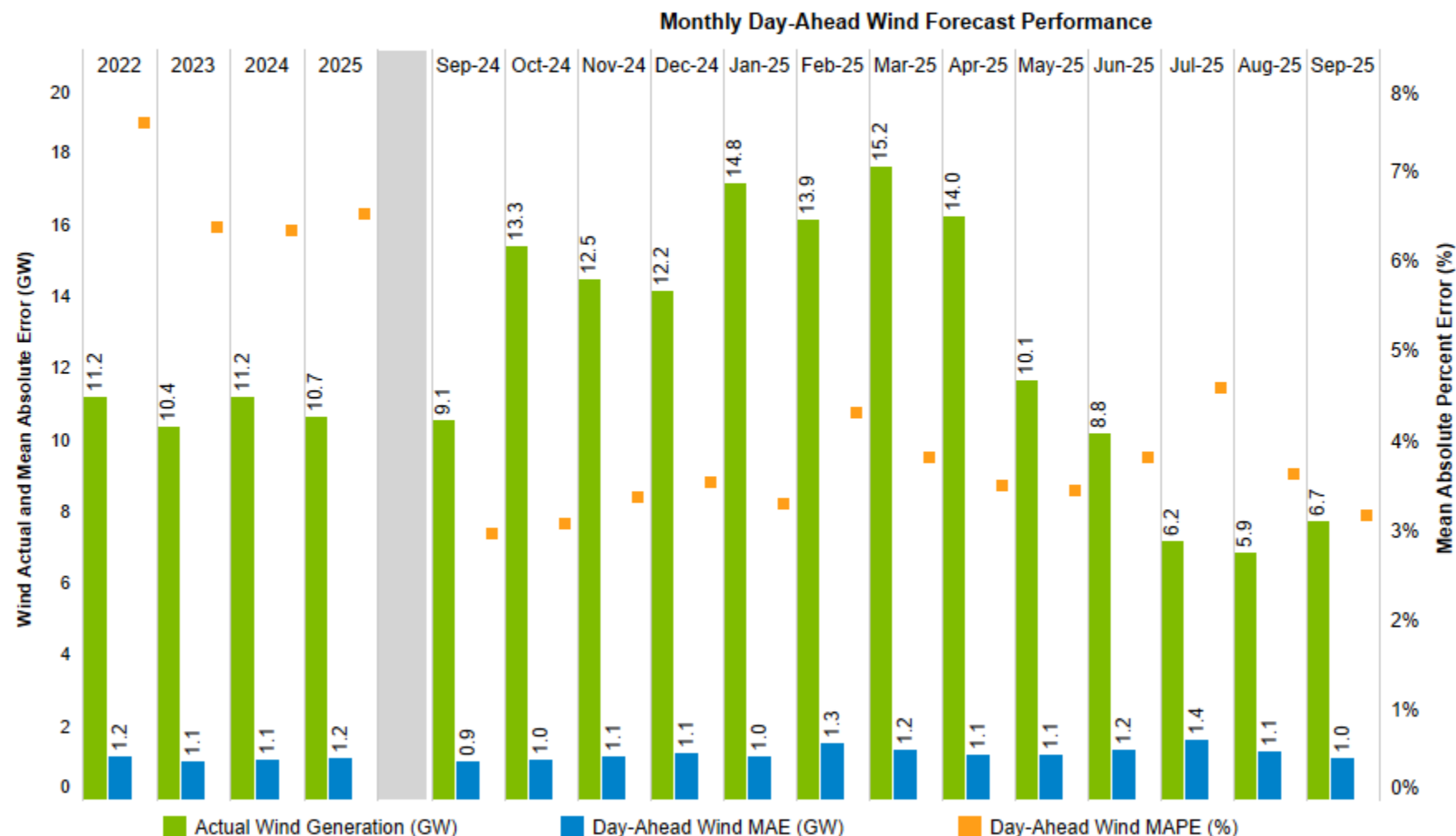
Real-Time Generation Fuel Mix by Region



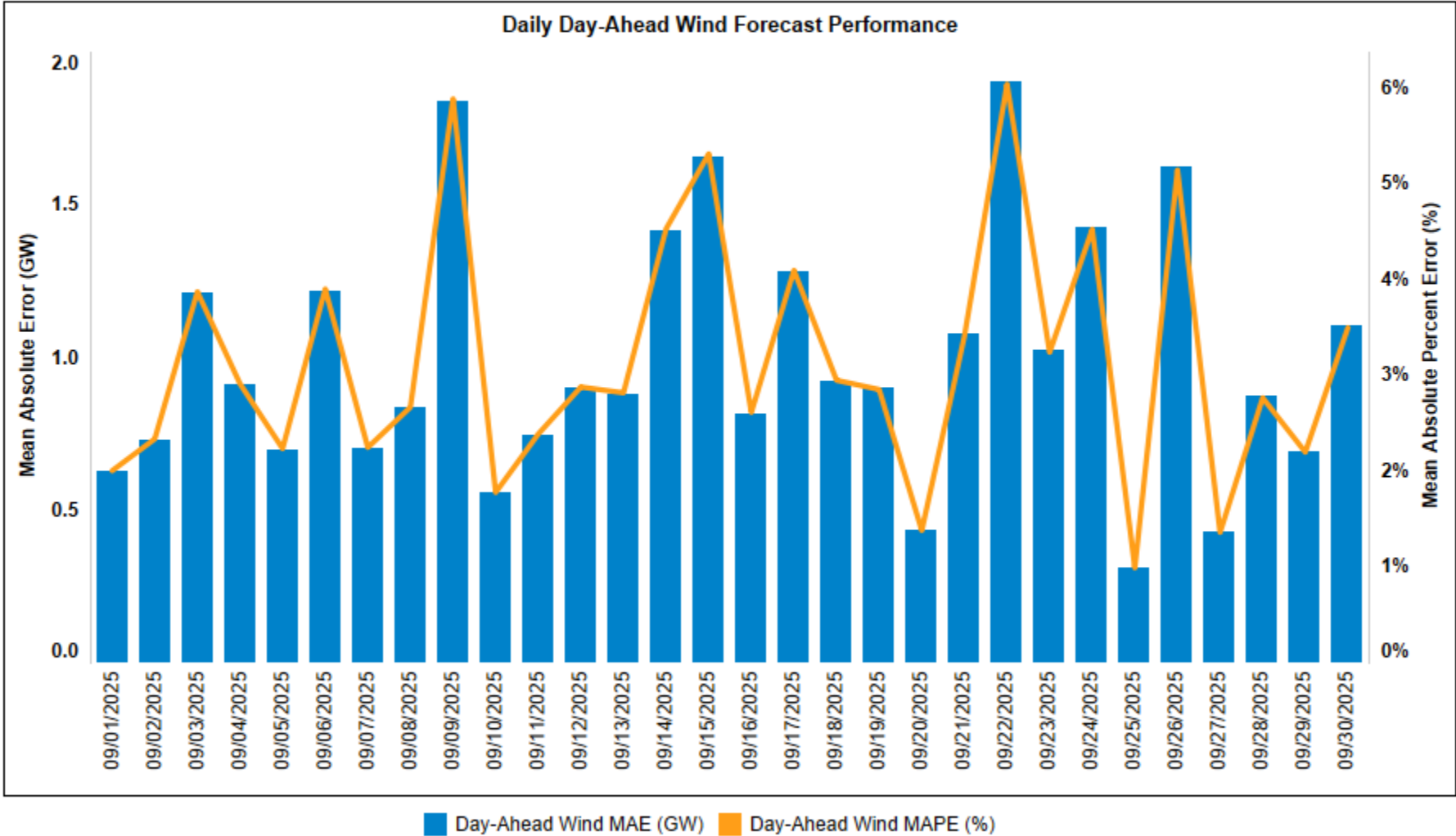
Based on hourly unit level state estimator data
Other includes: Battery, Oil, Pet Coke, Waste and Other fuels
Source: MISO Market and Operations Analytics Department

Monthly Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)

K

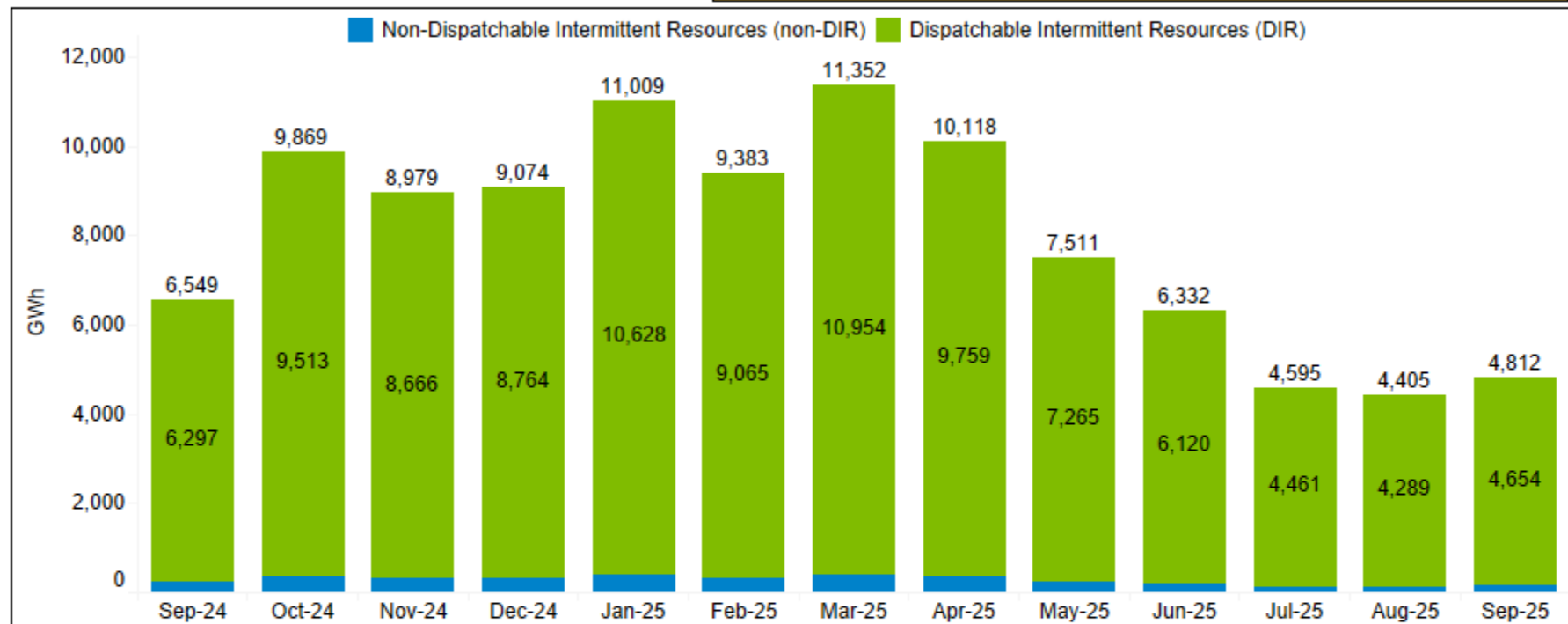


Daily Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Monthly Wind Energy Generation

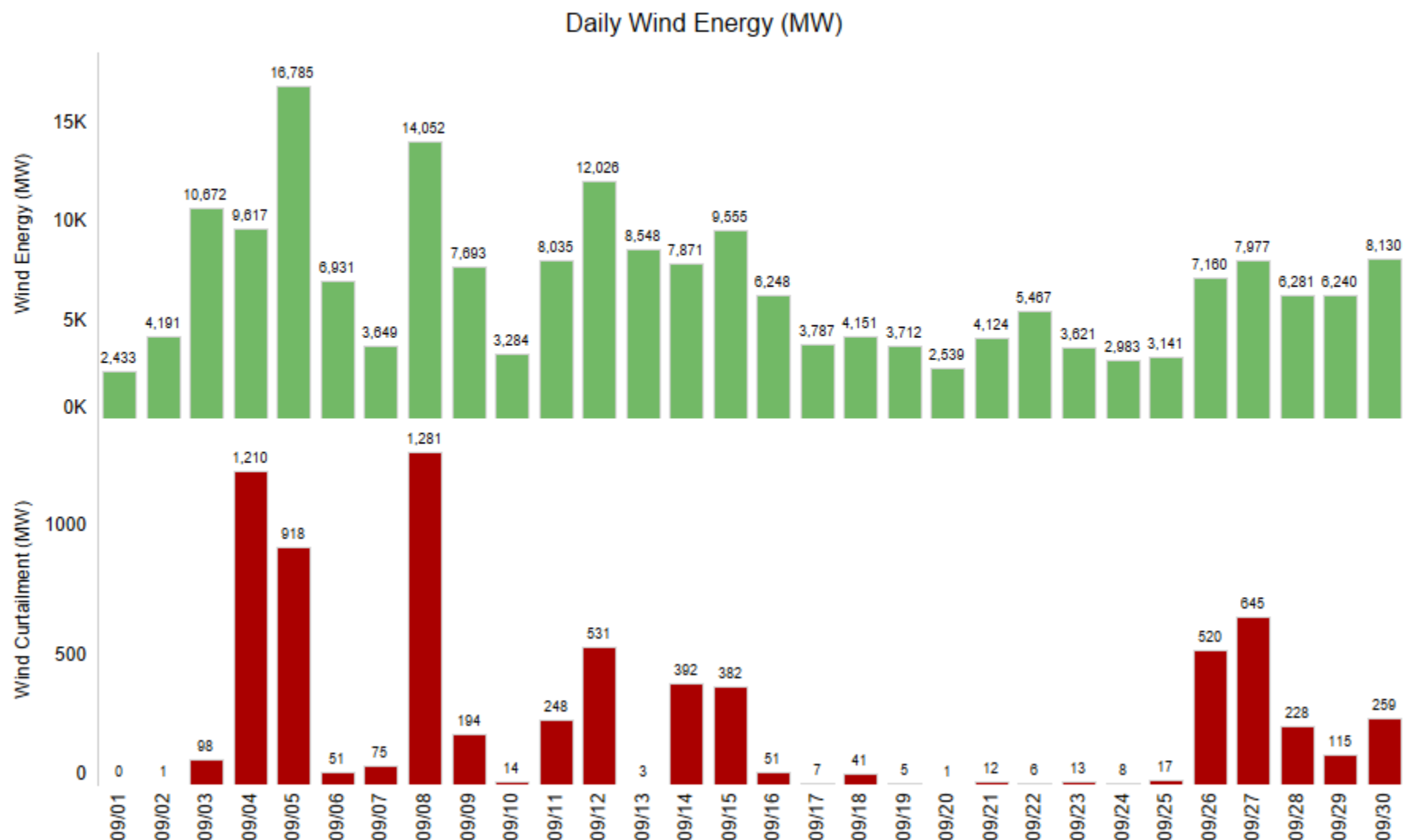
As of 09/05/2025
 Registered Wind Capacity = 32,464 MW; Inservice Wind Capacity = 31,450 MW
 Registered DIR Capacity = 30,936 MW; Inservice DIR Capacity = 29,922 MW



	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Peak Wind Date and Hour Ending	9/12 24	10/30 2	11/20 18	12/4 11	1/28 21	2/28 22	3/23 15	4/28 19	5/18 21	6/21 15	7/5 1	8/8 7	9/5 6
Peak hourly wind output (MW)	16,944	22,683	21,272	24,044	25,218	24,646	24,172	23,582	22,803	21,086	15,404	15,824	20,284
Peak wind output as % of MISO load in that hour	24.2%	36.1%	29.0%	28.7%	31.2%	34.1%	34.6%	28.6%	28.6%	19.3%	19.2%	19.4%	29.9%
Wind Energy as a percent of MISO Energy	12.8%	19.9%	18.4%	16.3%	18.2%	18.1%	23.2%	21.5%	15.6%	11.3%	7.3%	7.5%	9.2%
DIR dispatch below Max as % of avail. DIR	4.9%	4.0%	3.4%	2.3%	3.3%	2.0%	3.1%	4.3%	3.3%	3.3%	1.3%	2.6%	2.9%

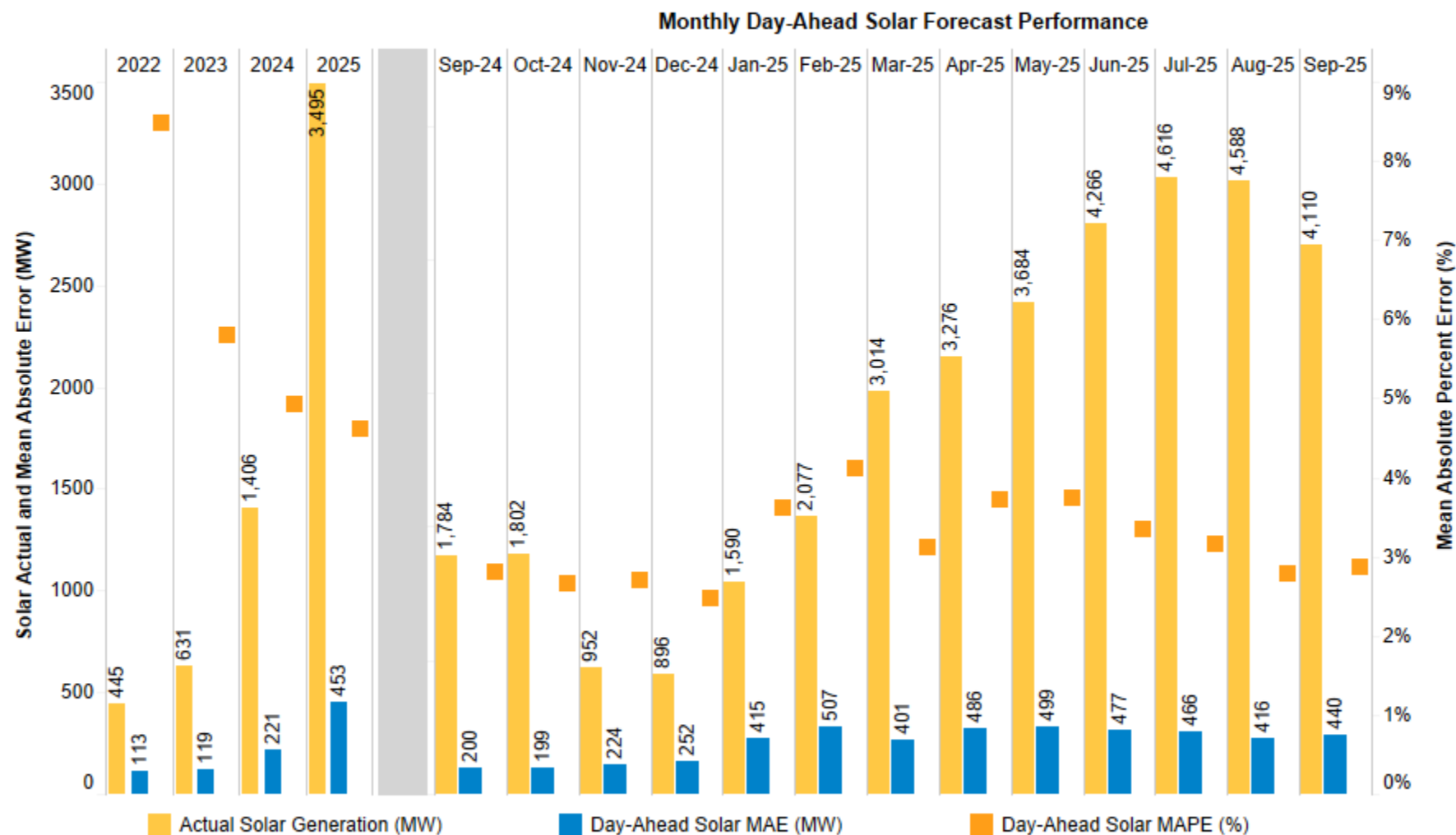
*Hourly State Estimator data
 Source: MISO Market and Operations Analytics Department

Daily Average Wind Energy and Curtailment



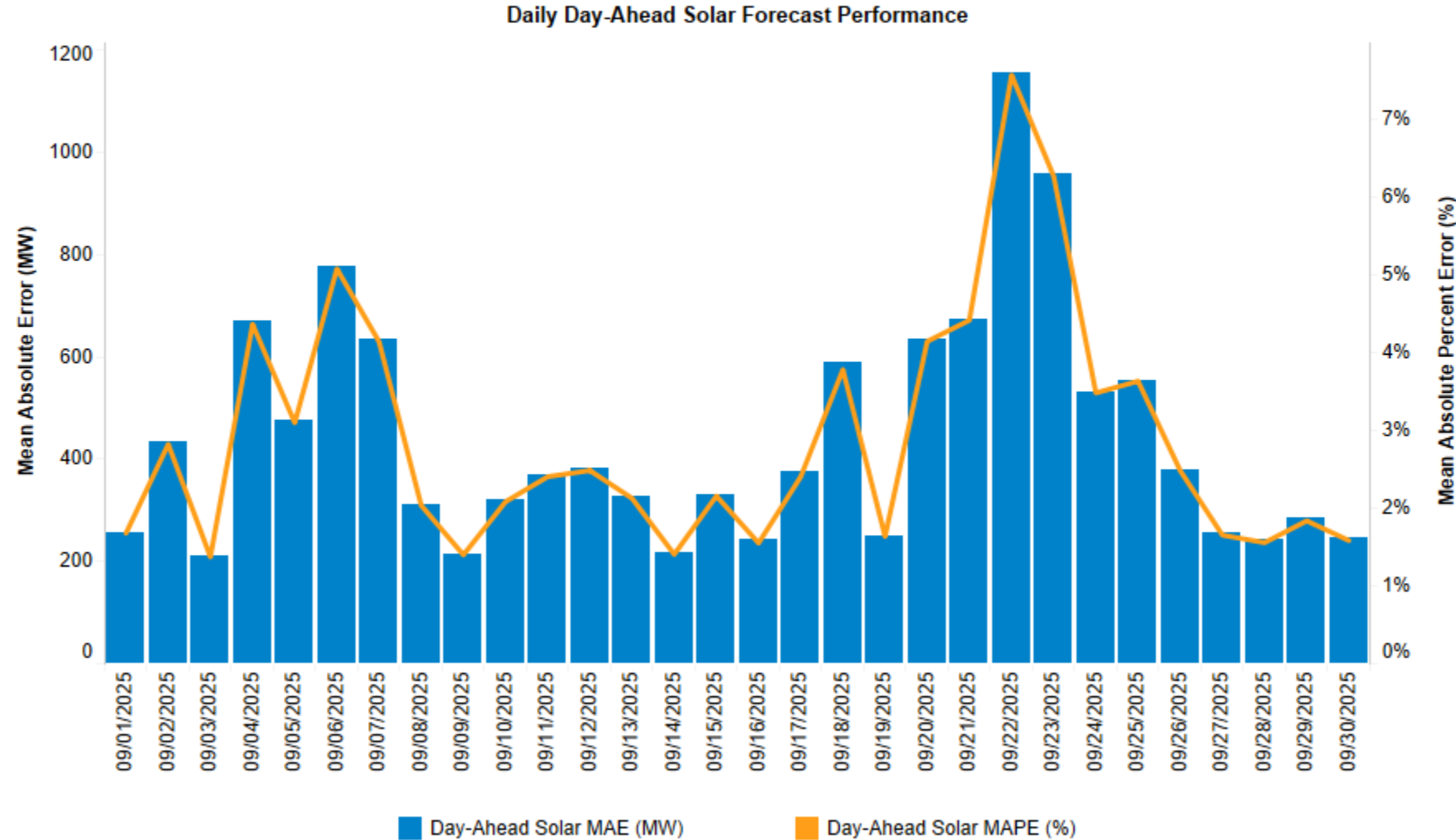
Source: MISO Market and Operations Analytics Department

Monthly Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

Daily Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)

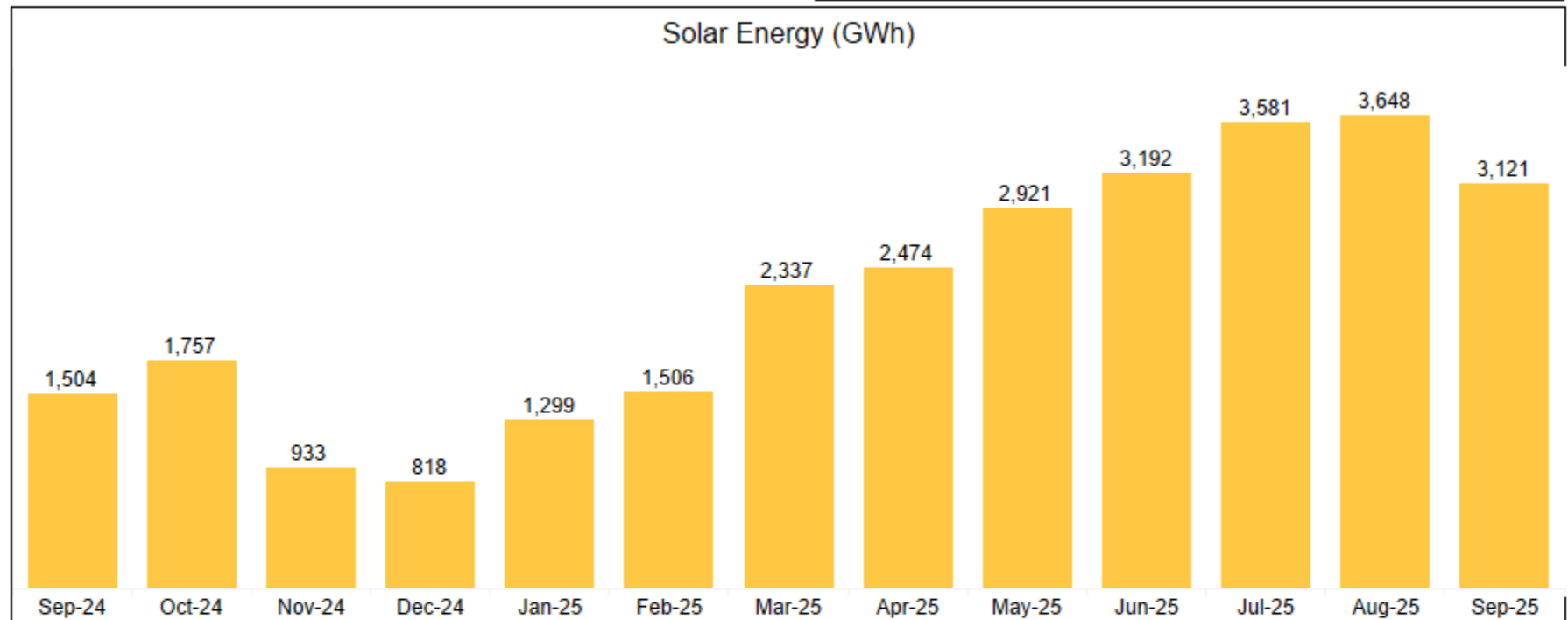


Source: MISO Operations Risk Management

Monthly Solar Energy

As of 09/05/2025
 Registered Solar Capacity = 20,436 MW; Inservice Solar Capacity = 15,223 MW
 Registered DIR Capacity = 20,264 MW; Inservice DIR Capacity = 15,051 MW

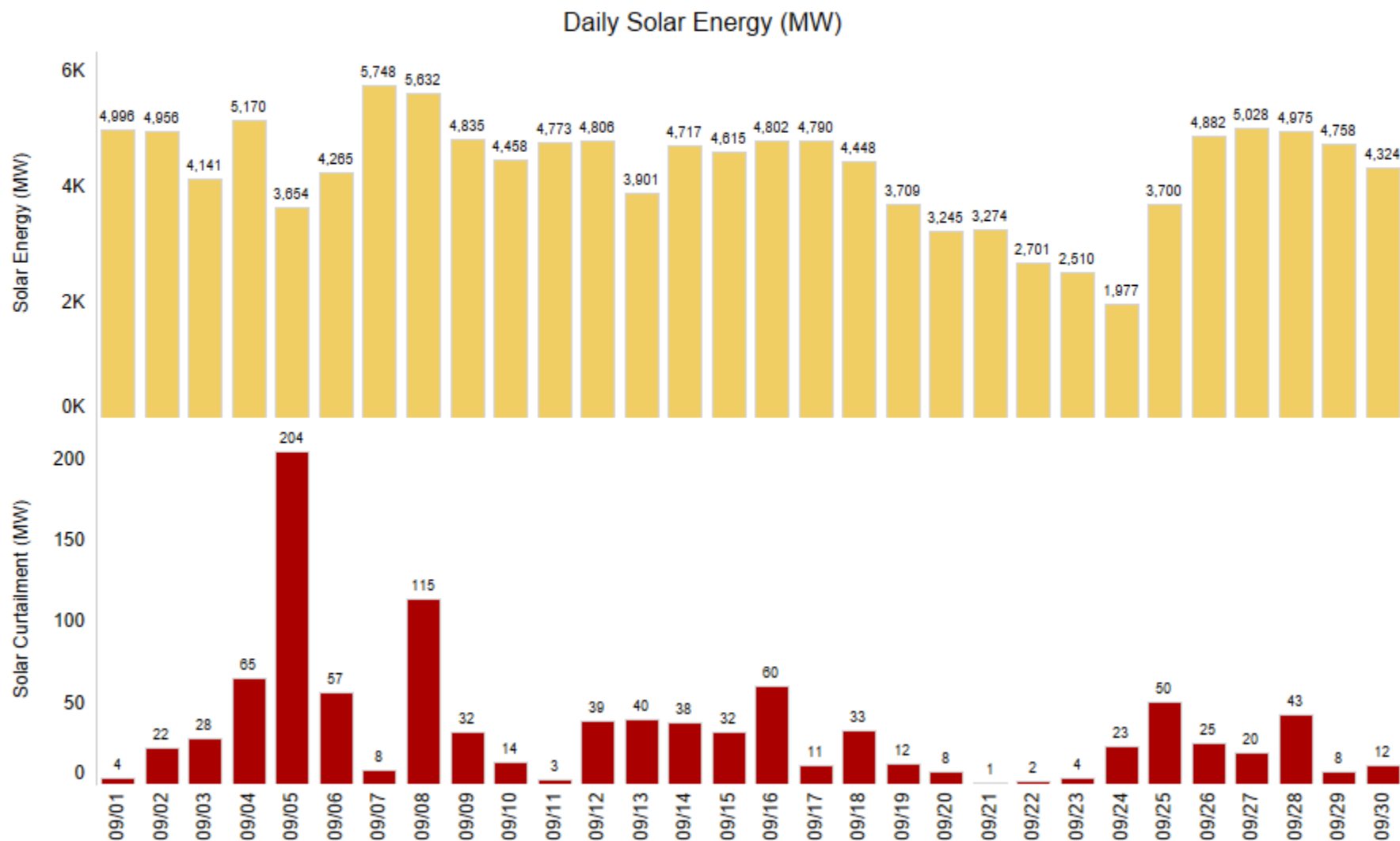
Solar Energy (GWh)



Peak Solar Date and Hour Ending	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
	9/26 12	10/16 16	11/12 16	12/21 12	1/20 12	2/21 12	3/22 15	4/16 14	5/31 13	6/22 11	7/1 12	8/3 11	9/7 11
Peak Hour Solar Output (MW)	7,054	7,919	6,813	6,898	8,308	11,360	12,061	12,342	13,366	12,872	13,129	13,821	14,315
Peak Solar Output as a % of MISO Load in that hour	9.1%	11.5%	9.6%	8.7%	8.4%	12.4%	18.8%	18.0%	19.2%	12.9%	13.3%	18.6%	22.2%
Solar Energy as a % of MISO Energy	3.5%	4.7%	2.6%	2.0%	2.6%	3.5%	6.0%	5.4%	6.0%	6.0%	5.5%	6.3%	6.2%
DIR Dispatch below MAX as a % of avail. DIR	0.4%	-0.3%	-0.6%	-3.1%	-1.9%	0.1%	1.1%	0.5%	-0.1%	-0.1%	-0.4%	-0.1%	0.8%

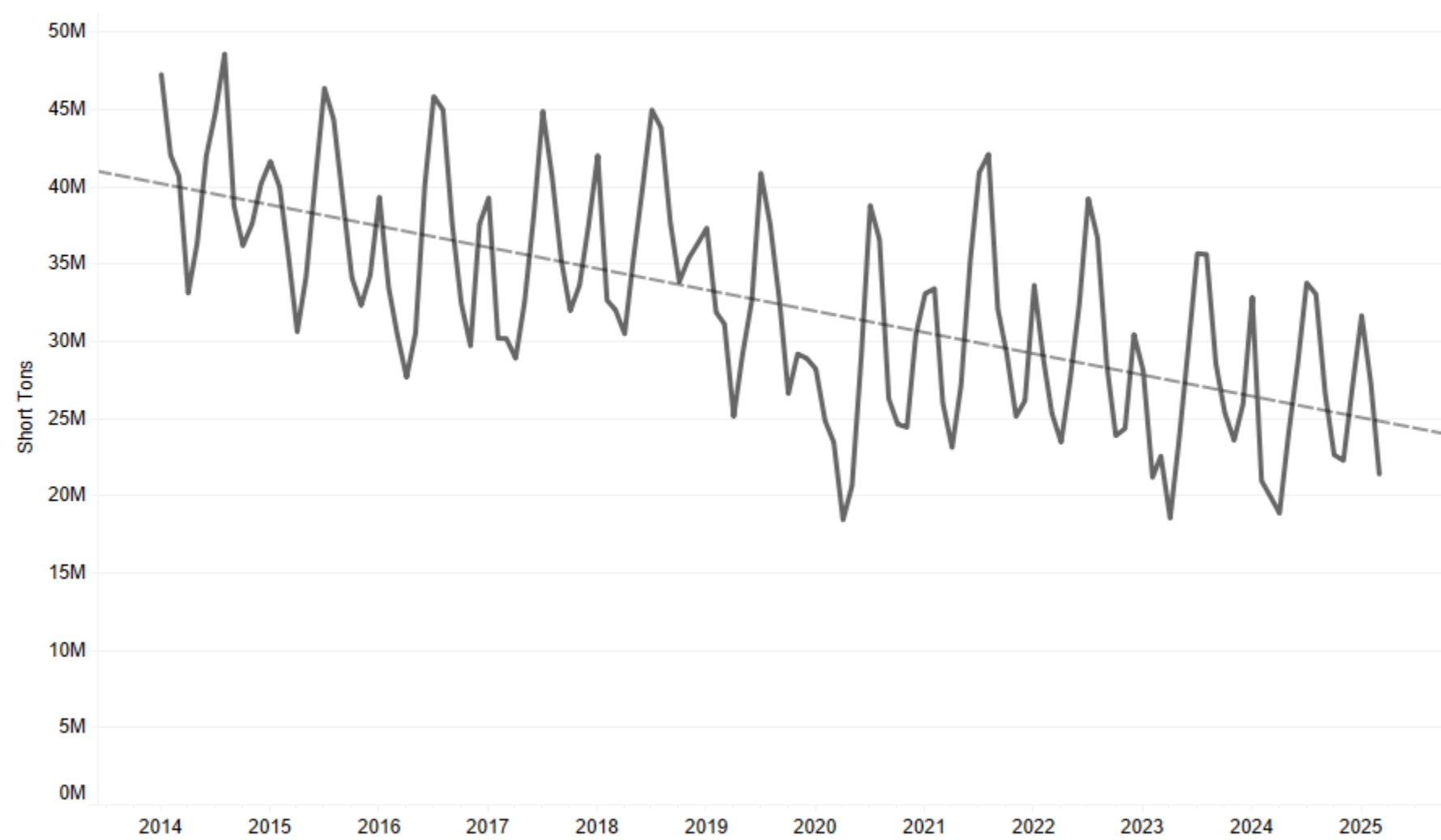
*Hourly State Estimator data
 Source: MISO Forecast Department

Daily Average Solar Energy and Curtailment



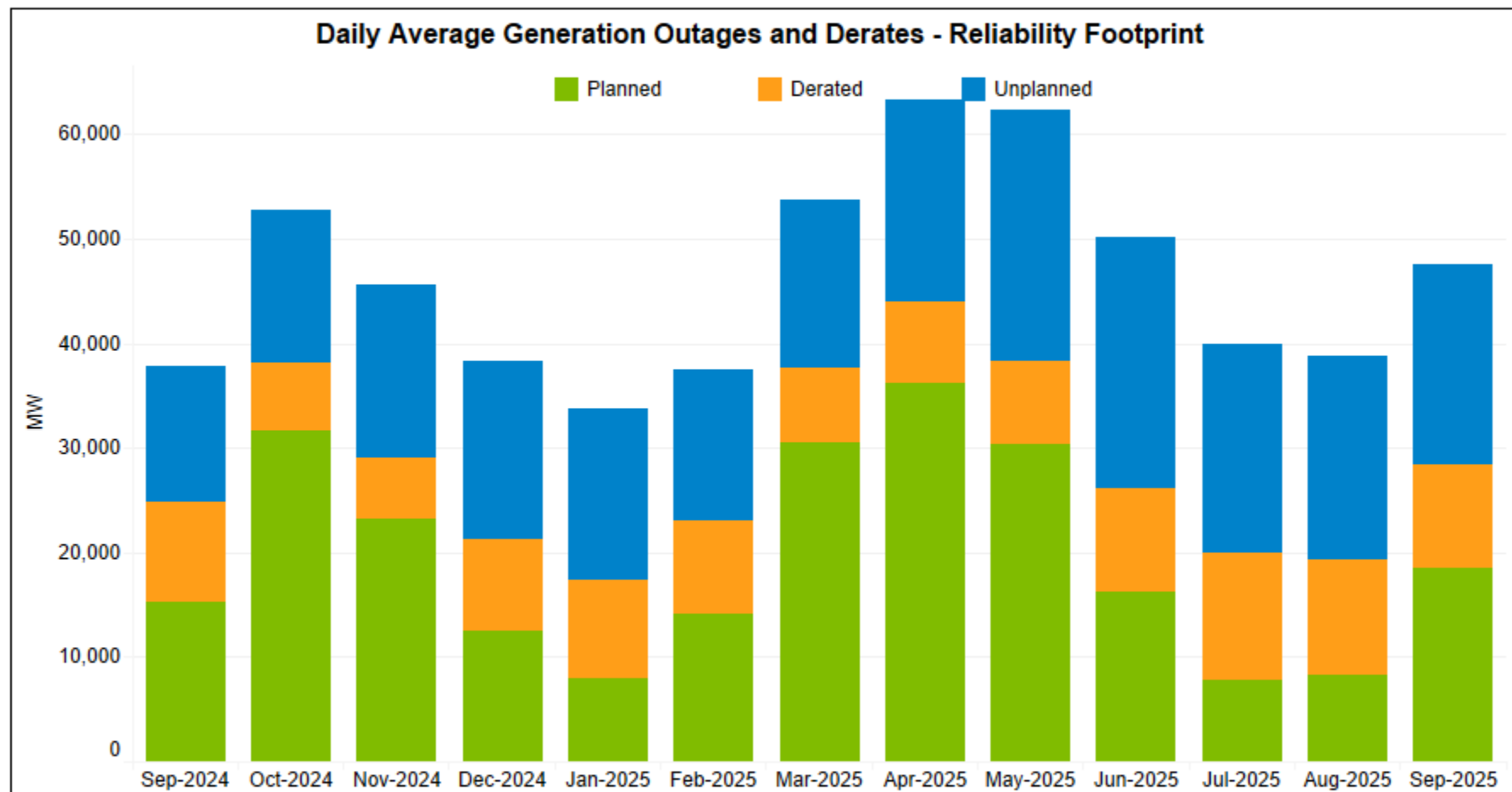
Source: MISO Market and Operations Analytics Department

Carbon Emissions



Data Source: EPA emissions through March 2025 and EPA EIA-860 2023
Emissions generated from MISO generators and does not account for volume of imports or exports
One Short Ton = 2000 lbs

Generation Outages and Derates



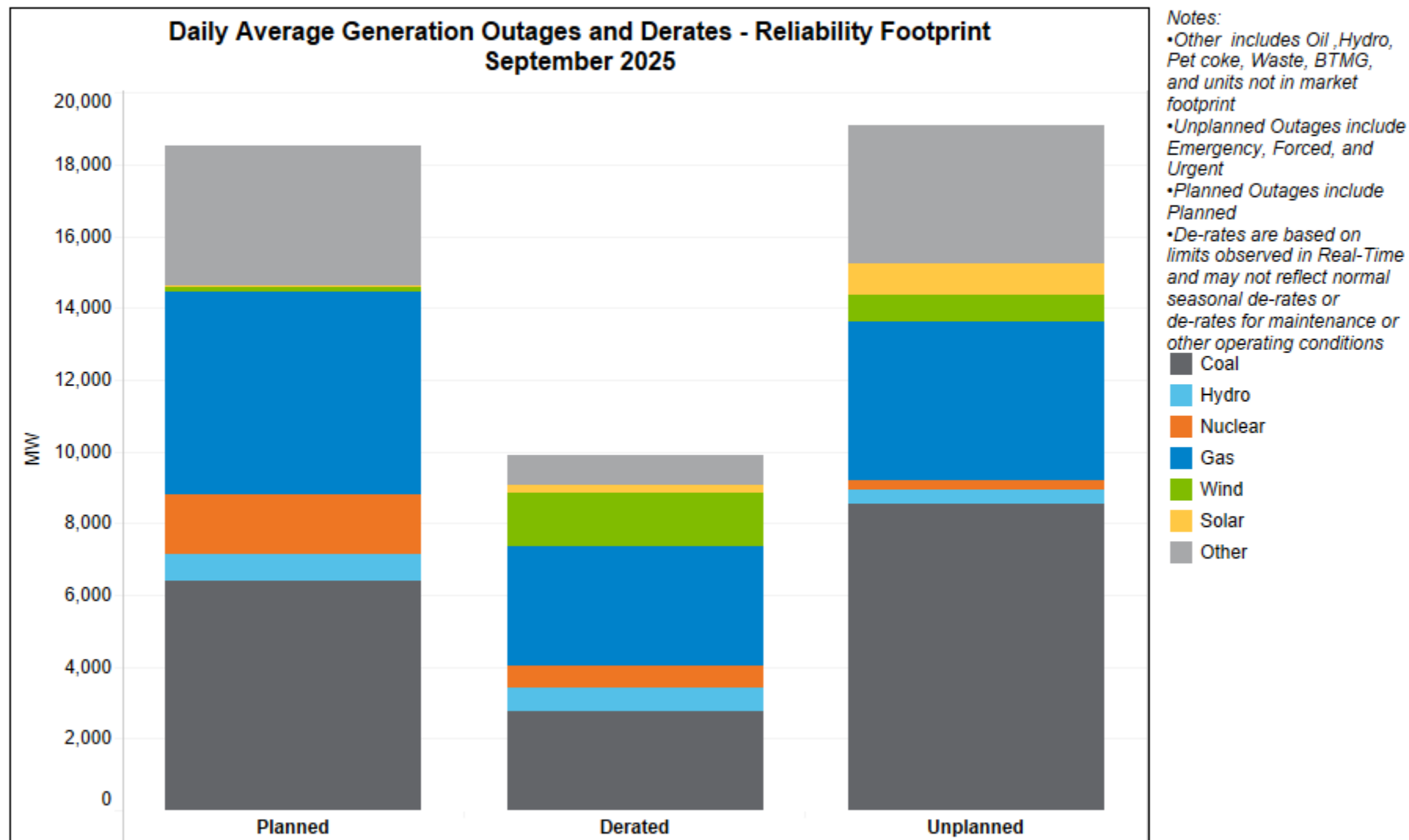
Notes:

- Unplanned Outages include Emergency, Forced, and Urgent
- Planned Outages include Planned
- De-rates are based on limits observed in Real-Time and may not reflect normal seasonal de-rates or de-rates for maintenance or other operating conditions

Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction

Source: MISO CROW Outage Scheduler

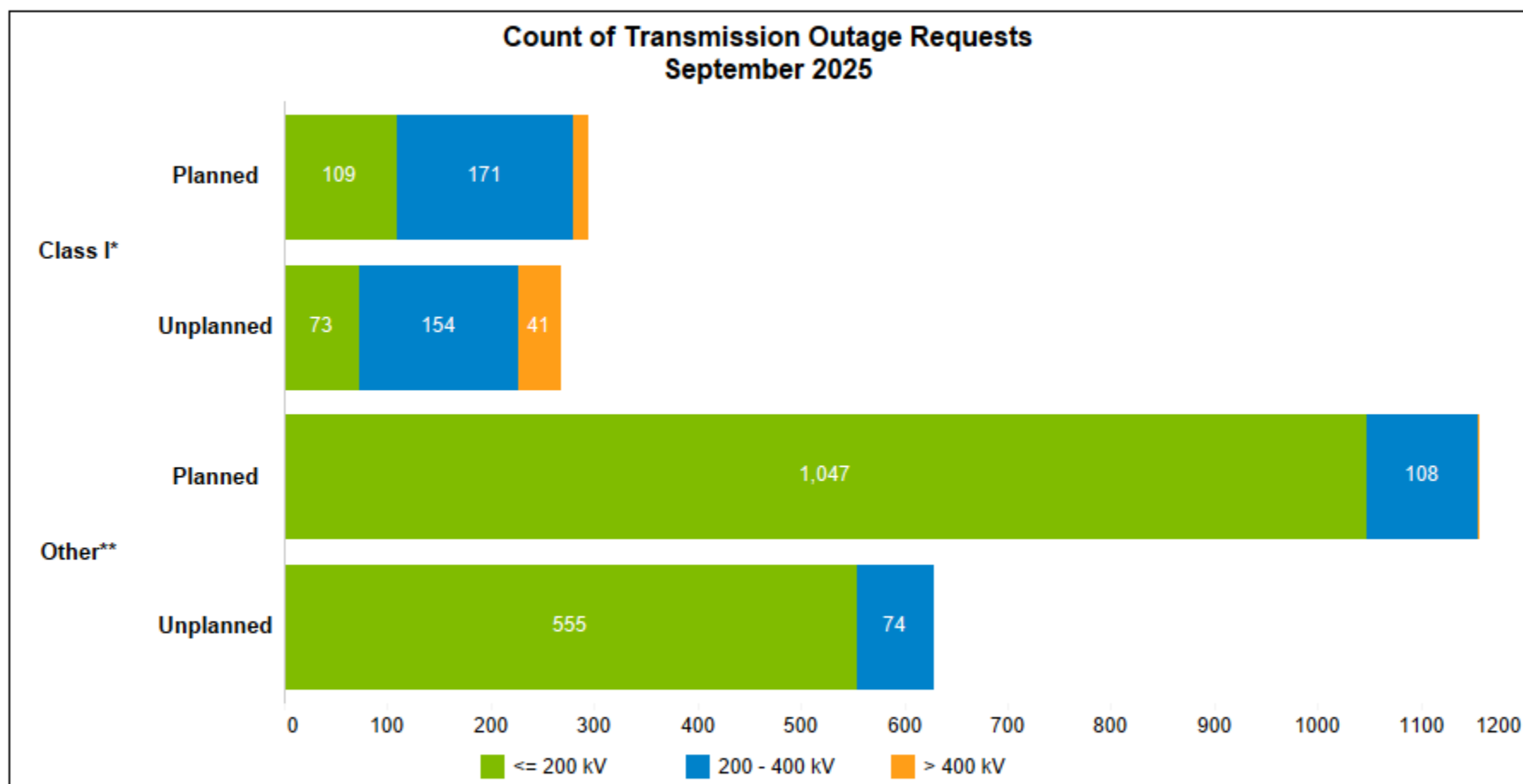
Generation Outages by Fuel



Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction

Source: MISO CROW Outage Scheduler

Transmission Outages



Notes:

- Class 1 is any facility which has a reliability or market impact on transmission system operations
- Other is any facility which does NOT have a reliability or market impact on transmission system operations
- Unplanned Outages include Emergency, Forced, Discretionary and Urgent
- Planned Outages include Planned, Opportunity

Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction

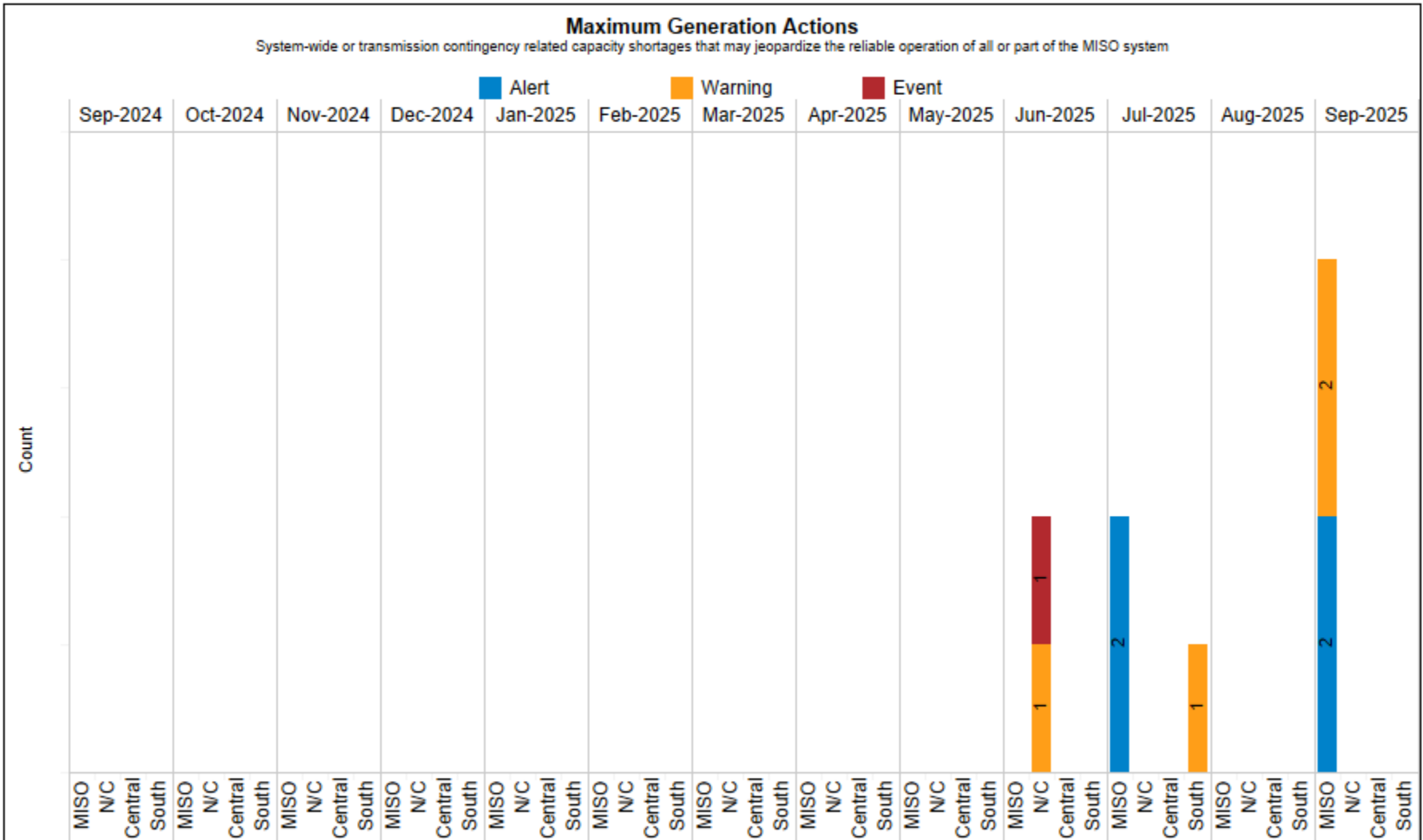
Source: MISO CROW Outage Scheduler

MISO Inadvertent Balance

Month/Year	Net	On-Peak	Off-Peak
6/1/2024	-21,123	-10,382	-10,741
7/1/2024	-33,949	-12,863	-21,086
8/1/2024	-39,602	-15,448	-24,154
9/1/2024	-79,156	-36,769	-42,387
10/1/2024	-37,833	-17,446	-20,387
11/1/2024	-5,440	-2,237	-3,203
12/1/2024	-1,006	624	-1,630
1/1/2025	11,913	7,358	4,555
2/1/2025			
3/1/2025			
4/1/2025			
5/1/2025			
6/1/2025			
7/1/2025			
8/1/2025			
9/1/2025			
Running Total from 2009	-95,937	-88,521	-7,416

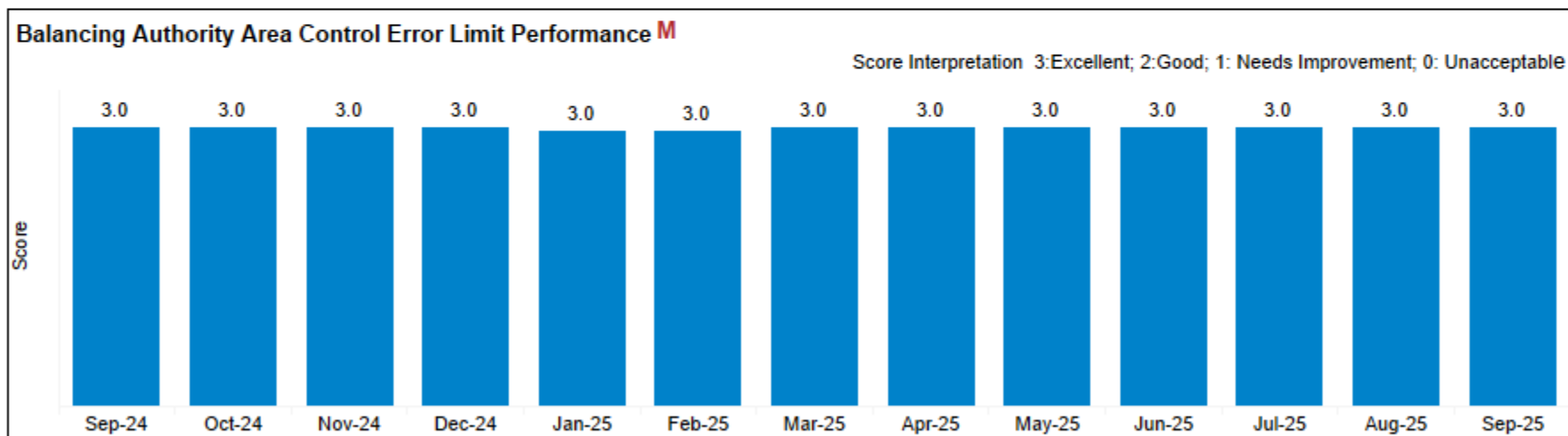
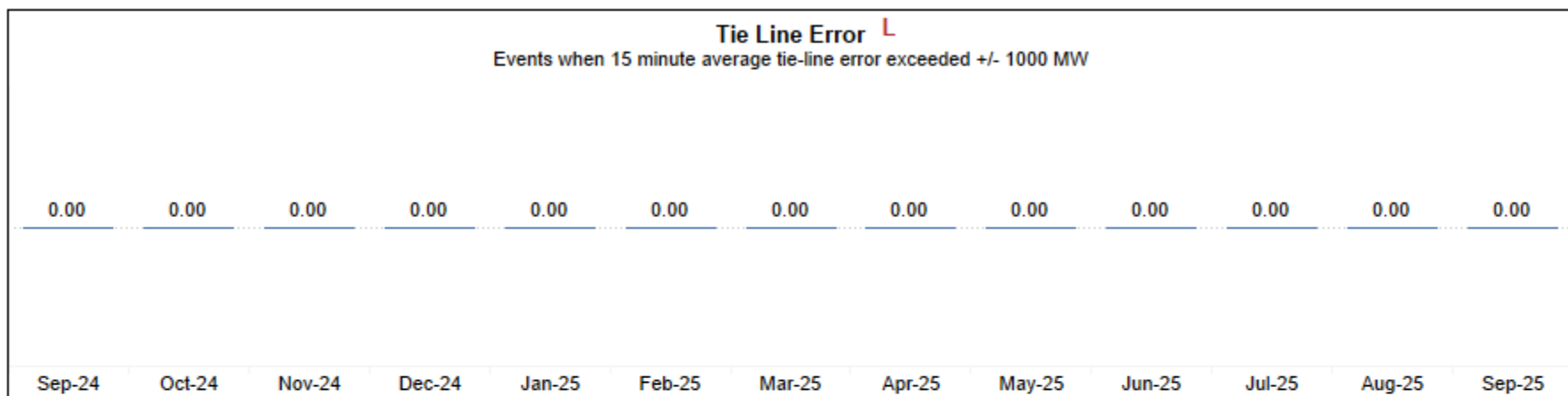
Source: NERC Tool (As of May 10, 2025)

Generation Notifications



- * Alerts – forecasting specific emergency situations in a future time-frame
- * Warnings – experiencing initial stages of an emergency situation and taking action
- * Events – experiencing an emergency situation and taking action

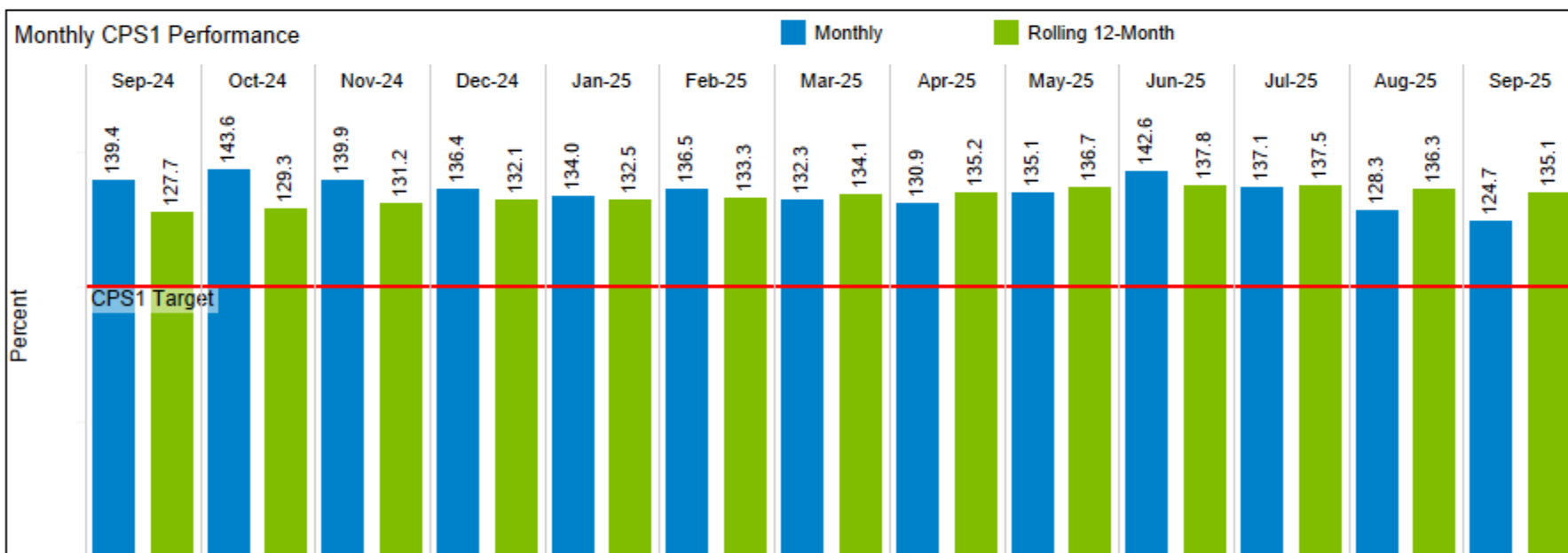
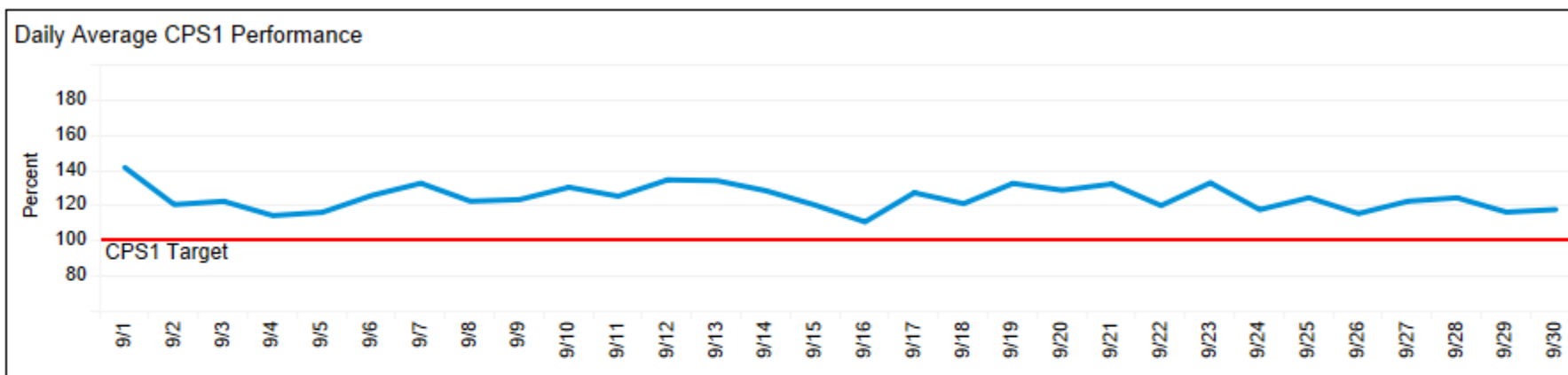
Tie Line and BAAL Performance



The Balancing Authority Area Control Error Limit (BAAL) measures control performance over the short-term. Exceeding BAAL for a continuous time period greater than 30 minutes constitutes a non-compliant event. The daily MISO BAAL performance rating is the lowest scored incident of the day.

CPS1 Performance

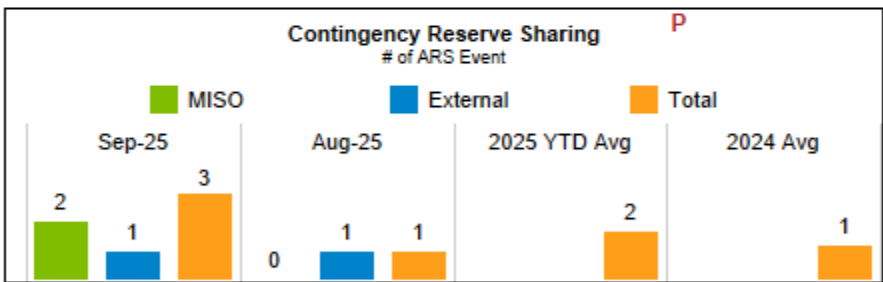
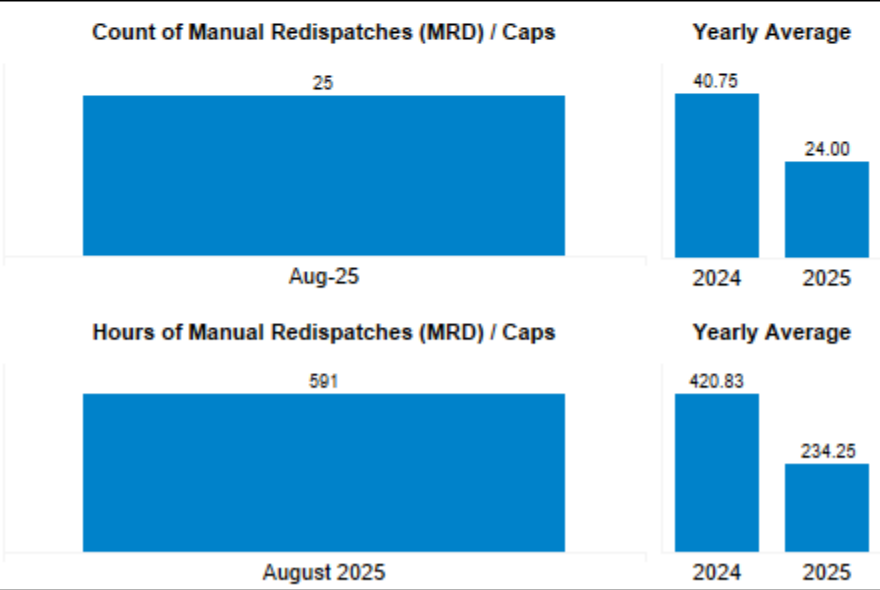
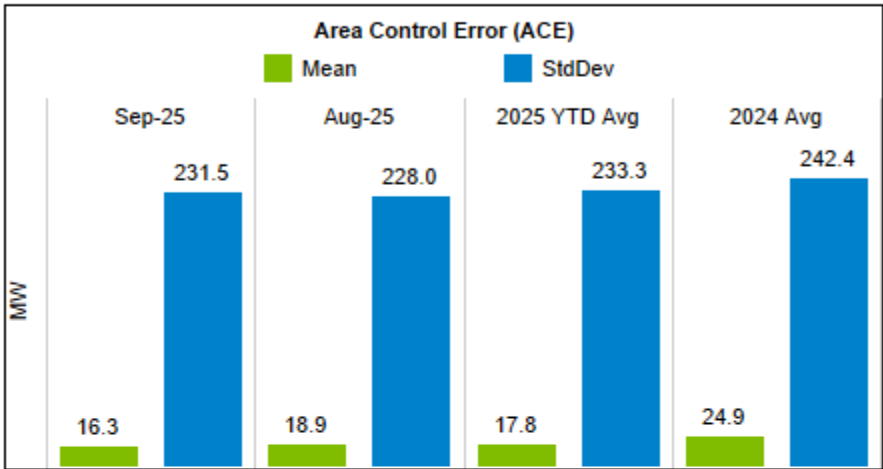
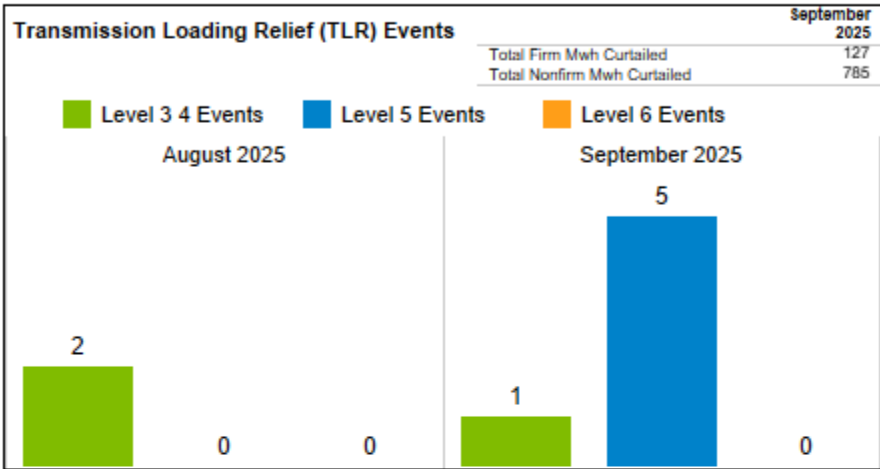
N



Per NERC Standard BAL-001-0 and MISO OP-044, the MISO will monitor CPS 1 performance and implement actions to ensure the MISO's rolling 12-month CPS 1 performance exceeds 100%
Source: MISO Real-Time Operations Department



Reliability — Other Metrics



MISO deployed Contingency Reserves **

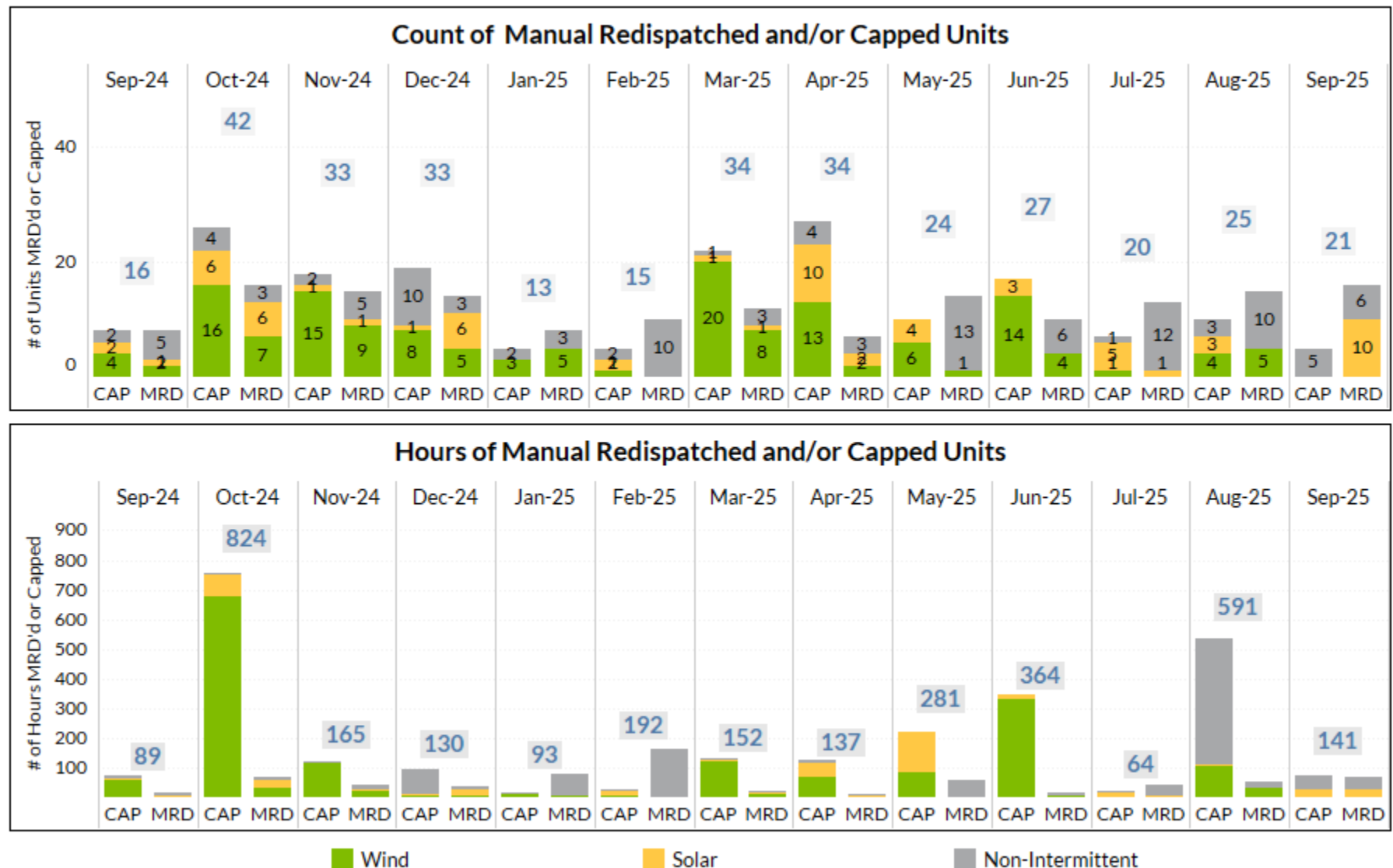
Date	HE	Deployment Type	MW
9/2/2025	13	ONLINE	1,092
	23	ONLINE	2,121
9/24/2025	14	OFFLINE	458
		ONLINE	1,201
	15	ONLINE	0
8/19/2025	16	ONLINE	162

Source: MISO Real-Time Operations Department

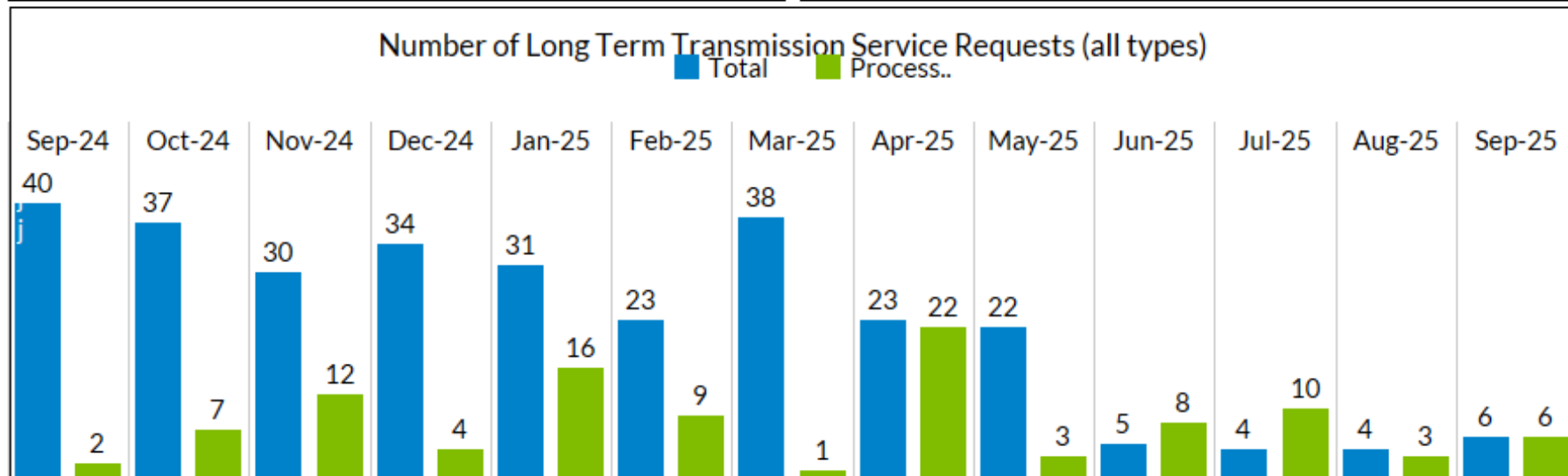
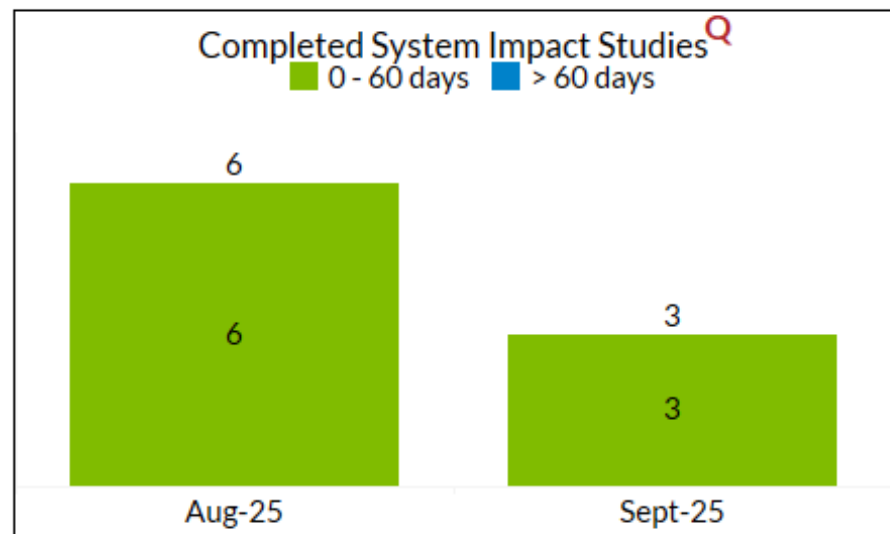
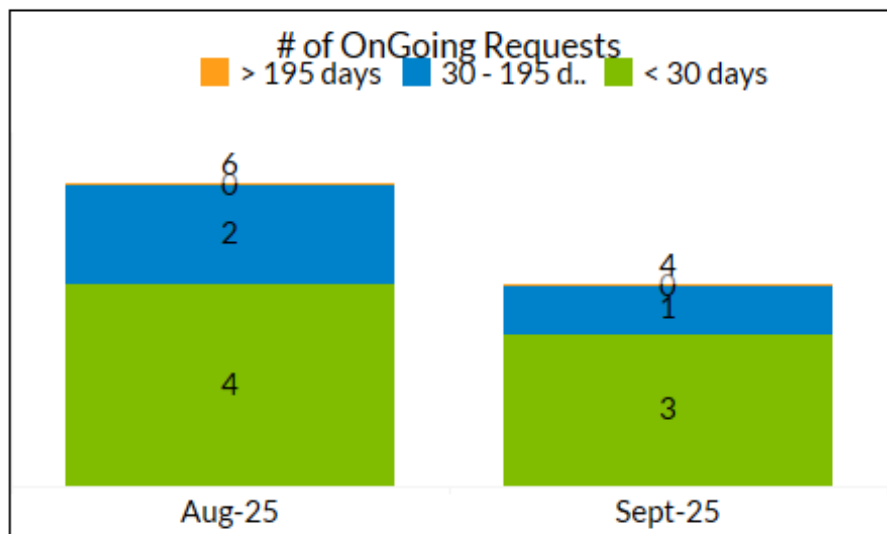
52 **Historical Contingency Deployment data located in Related Documents at <https://cdn.misoenergy.org/202001-202103%20Additional%20Information%20Historical%20Contingency%20Deployment%20Data548321.pdf>



Operator Actions - Manual Redispatch and Caps

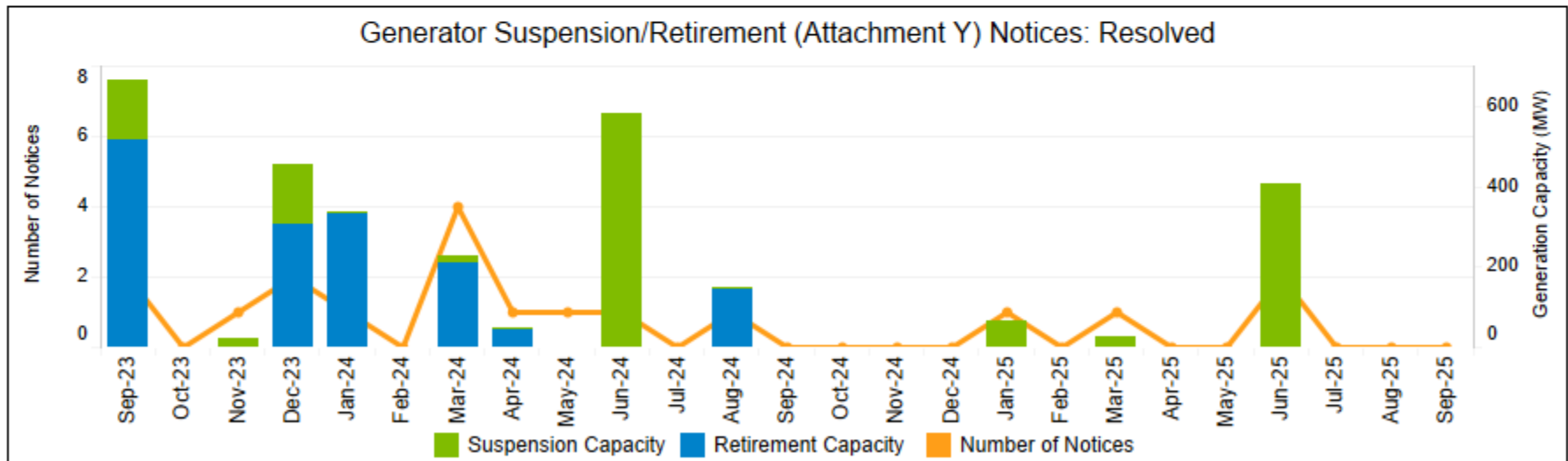
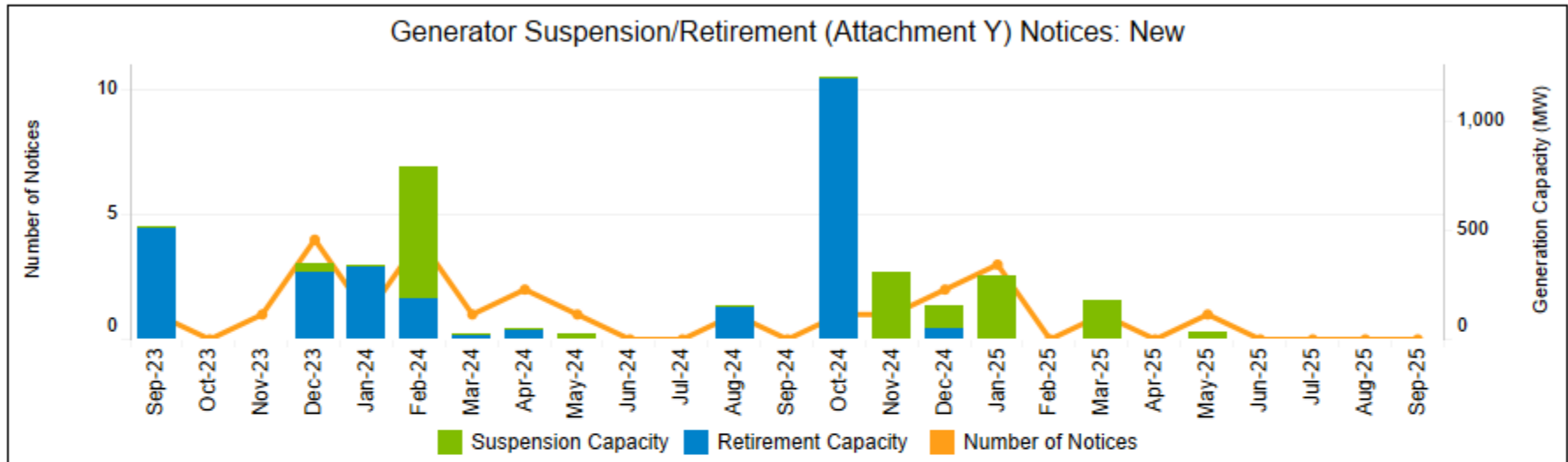


Transmission Service Request

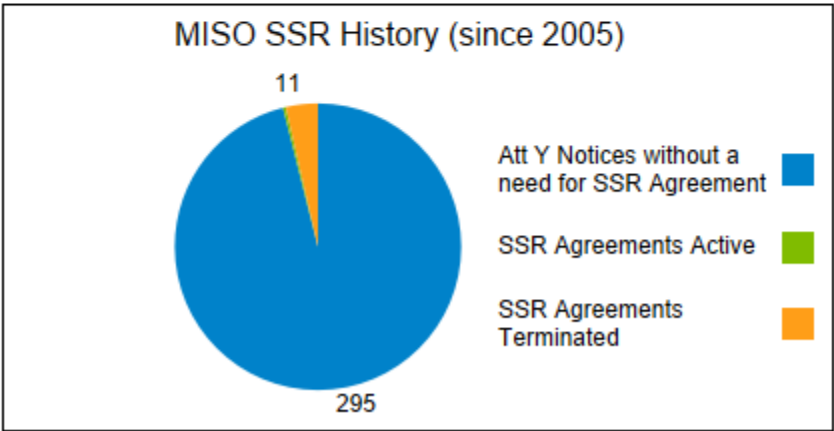
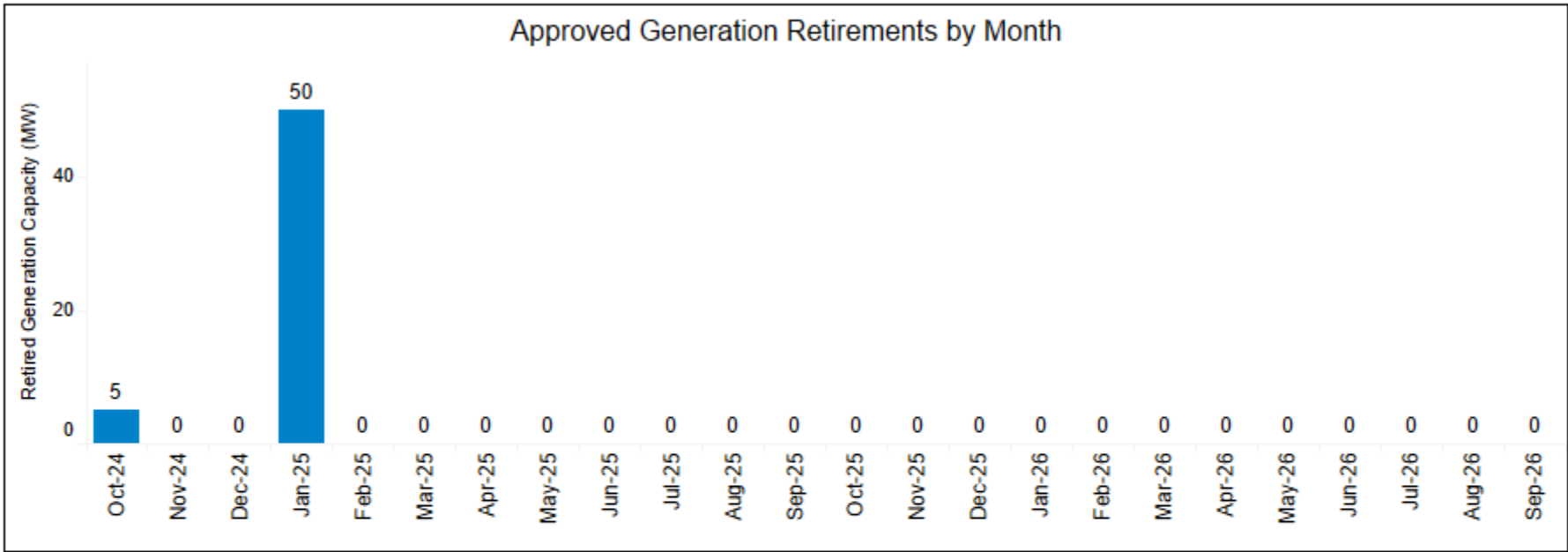


Source: MISO Resource Utilization

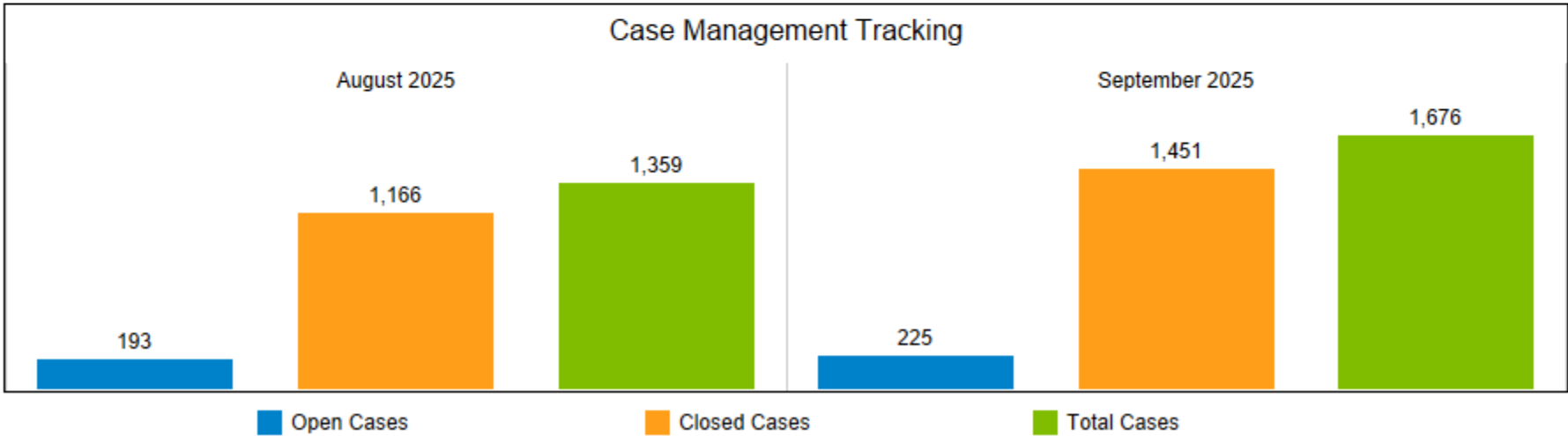
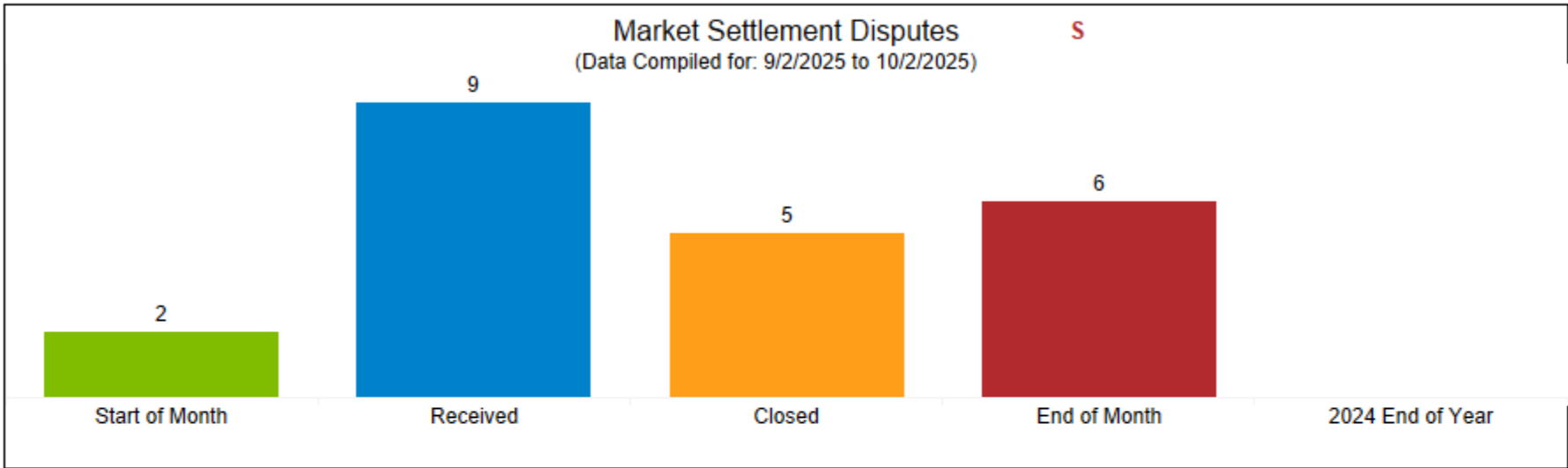
Generator Suspension/Retirement - New and Resolved



Generator Suspension/Retirement - Overall



Settlements/Client Services and Readiness



Source: MISO Settlements and Client Services and Readiness Departments

Settlement values may change due to resettlement

Resource Adequacy, Tariff Pricing, Market Settlements, and Credit cases are included in Case Management Tracking data



MISO has set an even higher standard for its System Availability metrics in 2025, and while January and February had no downtime, a critical incident occurred in March that impacted STI

January - April 2025

Short-Term Incentive Metrics	JAN 25	FEB 25	MAR 25	APR 25	Trend *	YTD	Threshold Target Excellent
Critical Systems Availability (Downtime in Hours)	0.0	0.0	1.5	0.0		1.5	4 Hours 3 Hours 2 Hours
Number of Critical System Incidents Exceeding 30 Minutes	0	0	1	0.0		1	2 1 0
Other Availability Metrics	JAN 25	FEB 25	MAR 25	APR 25	Trend *	Monthly Target	
ICCP** (Availability %)	100	100	100	100		99.5	
Customer Facing Applications – Portals (Availability Index)	10	10	10	10		10 of 10	
Markets (Availability Index)	4	4	4	4		4 of 4	
Reliability Targets (Availability Index)	3	3	3	3		3 of 3	

*Trend lines represent quarter-over-quarter performance

**ICCP = Inter-Control Center Communications Protocol

2025 Dashboard Metric Criteria (1 of 2)

*New or revised 2025
Metric

Operational Excellence									
Metric	Chart	Expected	Monitor	Review	Metric	Chart	Expected	Monitor	Review
Percentage Price Deviation*	A	Absolute DA-RT price difference divided by DA LMP $\leq 28.6\%$	Absolute DA-RT price difference divided by DA LMP is $> 28.6\%$ but $\leq 34.3\%$	Absolute DA-RT price difference divided by DA LMP $> 34.3\%$	Unit Commitment Efficiency*	H	$\geq 93\%$		$< 93\%$
Monthly Average Gross Virtual Profitability*	B	Within the standard deviation bands (threshold \$0.44/MWh)	Outside the standard deviation bands		Real-Time Obligation fulfilled by Day-Ahead Supply at the Peak Hour	I	$\geq 95\%$	$\geq 93\%$ but $< 95\%$	$< 93\%$
FTR Funding	C	Monthly FTR Allocation % is $\geq 92\%$ and YTD FTR Allocation % is $\geq 96\%$	Not in good status AND Monthly FTR Allocation % is $\geq 87\%$ AND Rolling 12-month FTR Allocation % is $\geq 93\%$	Not in Good AND not in Monitor status	Day Ahead Wind Generation Forecast Error	K	# of days that the hourly average forecast error exceeds $10\% \leq 6$	# of days that the forecast error exceeds $10\% > 6$ or Forecast error exceeds 15% in $= 3$ days	# of days that the forecast error exceeds $10\% > 8$ or Forecast error exceeds 15% in > 3 days or Forecast error resulted in declaring 1 Real Time Event
Market Efficiency Metric	D	$\geq 95\%$		$< 95\%$	Day Ahead Solar Generation Forecast Error	T	# of days that the hourly average forecast error exceeds $10\% \leq 6$	# of days that the forecast error exceeds $10\% > 6$ or Forecast error exceeds 15% in $= 3$ days	# of days that the forecast error exceeds $10\% > 8$ or Forecast error exceeds 15% in > 3 days or Forecast error resulted in declaring 1 Real Time Event
RSG per MWh to Energy Price*	E	$\leq 0.38\%$	$> 0.38\%$ and $\leq 0.46\%$	$> 0.46\%$	Tie Line Error	L	≤ 1	> 1 but ≤ 3	> 3
Day Ahead Mid-Term Load Forecast**	F	# of days that forecast error exceeds $3\% \leq 6$ AND # days that forecast error exceeds $4\% \leq 4$	# of days that forecast error exceeds $3\% > 6$ OR # days that forecast error exceeds $4\% > 4$ OR forecast error exceeds 6% on ≥ 1 day	# of days that forecast error exceeds $3\% > 10$ OR # days that forecast error exceeds $4\% > 8$ OR forecast error exceeds 7% on ≥ 1 day OR Forecast error resulted in declaring 1 Real Time Event	Control Performance – BAAL	M	Monthly performance score ≥ 2	Monthly performance score < 2 but ≥ 1	Monthly performance score < 1

FTR YTD metric is applied beginning April

** Forecast errors observed in March, April, October and November will be measured by 1% lower thresholds

2025 Dashboard Metric Criteria (2 of 2)

*New or revised 2025 Metric

Operational Excellence									
Metric	Chart	Expected	Monitor	Review	Metric	Chart	Expected	Monitor	Review
Short-Term Load Forecast*	G	Forecast error exceeding the 95% percentile of forecast error for the past year <= 2 days	3 days <= Forecast error exceeding the 95% percentile of forecast error for the past year <= 5 days	Forecast error exceeding the 95% percentile of forecast error for the past year > 5 days	Control Performance - CPS1 and CPS1 12-month rolling	N	>=100%		<100%
					ARS Deployment	P	DCS monthly average % recovery (APR) = 100%	Analysis of event not yet complete	DCS monthly average % recovery (APR) confirmed <100%
Customer Service									
System Impact Study Performance	Q	Studies completed in less than 60 days >=85%	Studies completed in less than 60 days <85% but >=75%	Studies completed in less than 60 days <75%	Settlement Disputes	S	Increase of up to 20 disputes	Increase of between 20 and 50 disputes	Increase of more than 50 disputes

FTR YTD metric is applied beginning April

** Forecast errors observed in March, April, October and November will be measured by 1% lower thresholds
Two days in December 2022 have been removed from threshold calculations..