

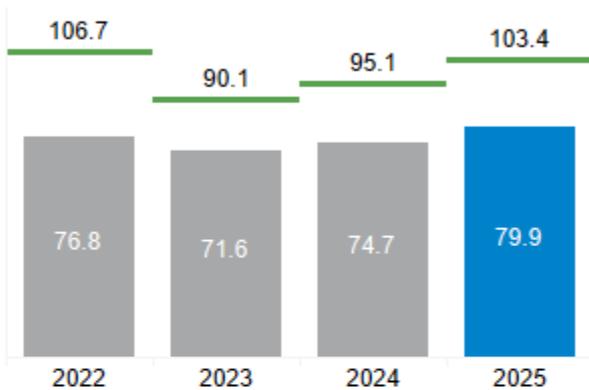


MISO Monthly Operations Report

December 2025

Reliability, markets and operational functions performed as expected in December

AVERAGE & PEAK LOAD (GW)



SYSTEM-WIDE LOAD PEAK



103 GW

December 15, Hour Ending (HE) 9

SOLAR PEAK

11.2 GW

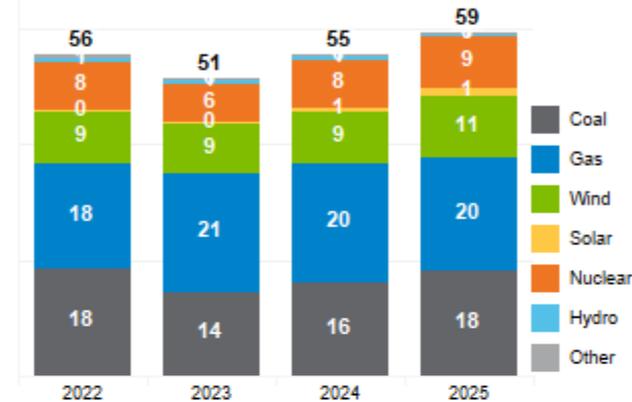
Dec 15, 2025, HE 12

WIND PEAK

26.1 GW

Dec 28, 2025, HE 23

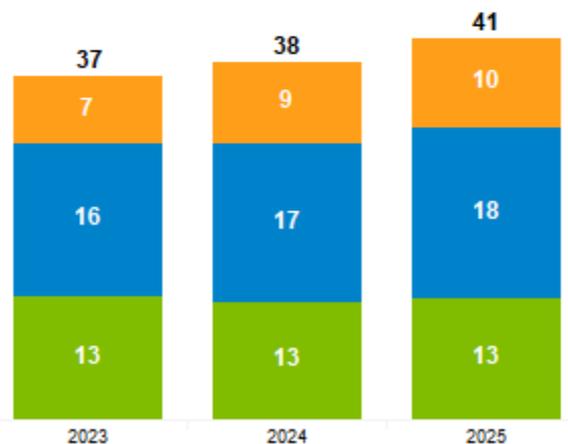
ENERGY FUEL MIX (TWh)



REAL-TIME LMP (\$/MWh)



AVERAGE DAILY GENERATION OUTAGE (GW)



KEY OPERATING DECLARATIONS

DECEMBER 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	31			

12/03 System: Geomagnetic Disturbance Alert
 12/04 System: Geomagnetic Disturbance Warning
 12/13 System: Cold Weather Alert
 12/20 System: System Status Level 1
 12/28 System: Severe Weather Alert
 12/28-29 North: Severe Weather Alert

AVERAGE FUEL PRICE (\$MMBtu)



- All-Time Solar Peak: 14.5 GW on Sept 7, 2025, HE 11
- All-Time Wind Peak: 26.6 GW on Jan 13, 2025, HE 20
- 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	Dec 2025	Nov 25	Oct '25	Sept '25	Metric	Chart	Dec 2025	Nov 25	Oct '25	Sept '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

Two metrics fell outside of the expected range for this month

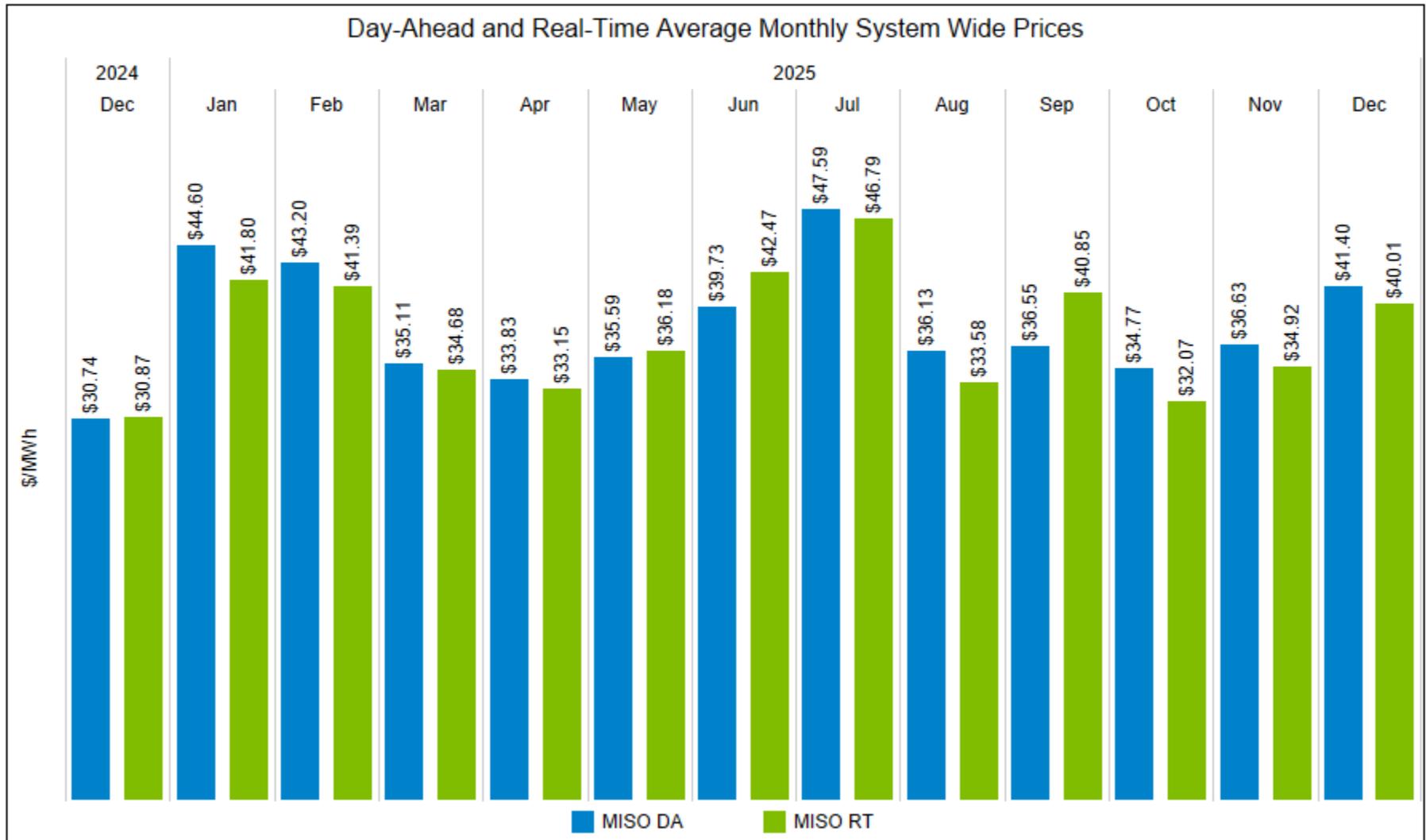
Metric	Expected Criteria	Actual	Status	Comments
RSG per MWh to Energy Price	$\leq 0.38\%$	0.42%	Monitor	\$3.9M paid to resources for Day-Ahead Voltage and Local Reliability commitments due to outages in the South. \$0.6M paid to higher priced resources to cover underperforming units and increased load in Real-Time.
Market Funding Efficiency	$\geq 95\%$	93.8%	Review	<p>Excess Congestion Fund (ECF) settled at around a \$12M shortfall for the month of December. ECF performance is reflective of the cumulative impact of several high ECF funding constraints and increased congestion. The high impact ECF constraints were driven by incorrect constraint forecasts, outage volatility, and lack of congestion predictions on the Seams.</p> <p>Day-Ahead Congestion exceeded \$262M, with FTR Funding Shortfall nearing \$40M—historically high. Key drivers include incorrect outage forecasts and elevated FTR flows. Alignment improvements expected in January, though topology gaps remain a risk.</p>

Appendix

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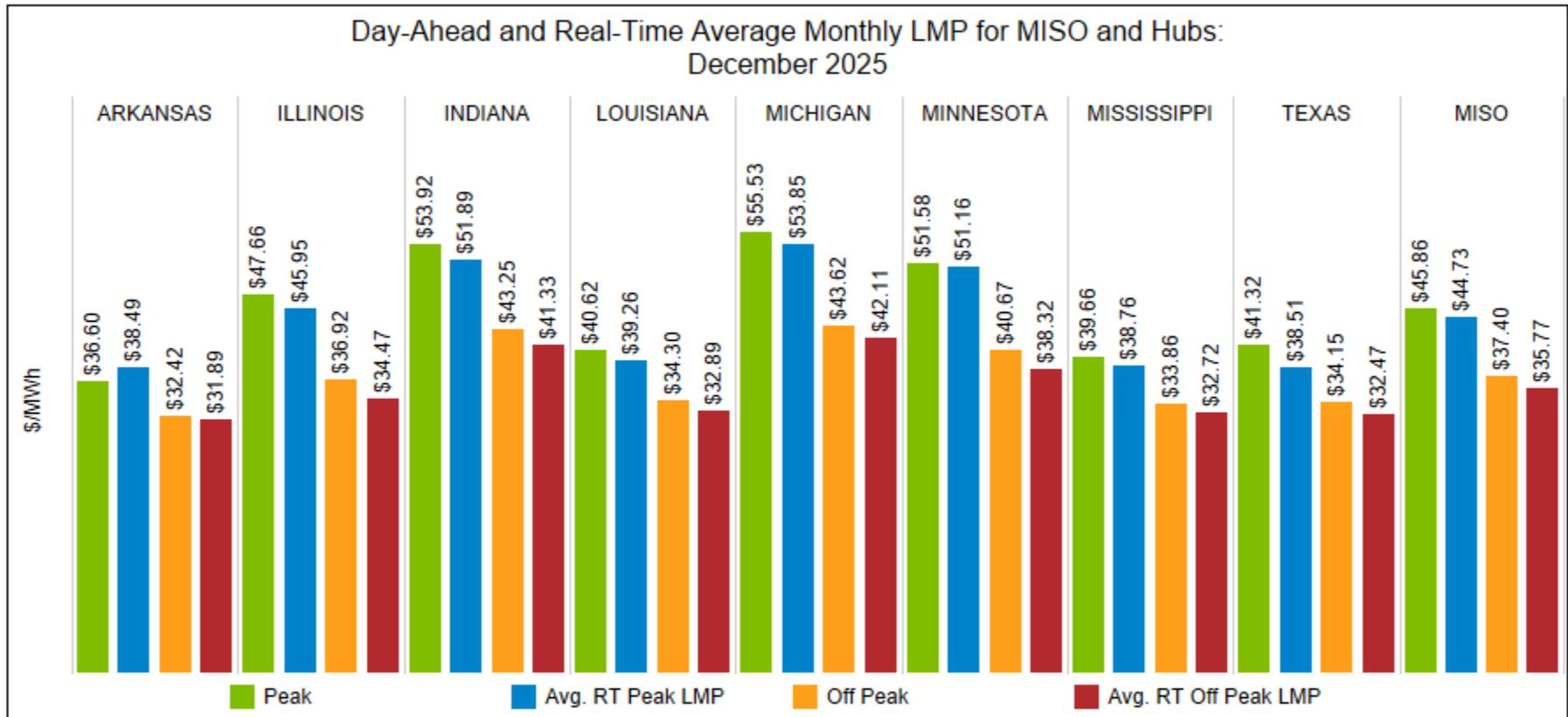
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MISO System-wide Day-Ahead and Real-Time Locational Marginal Pricing



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

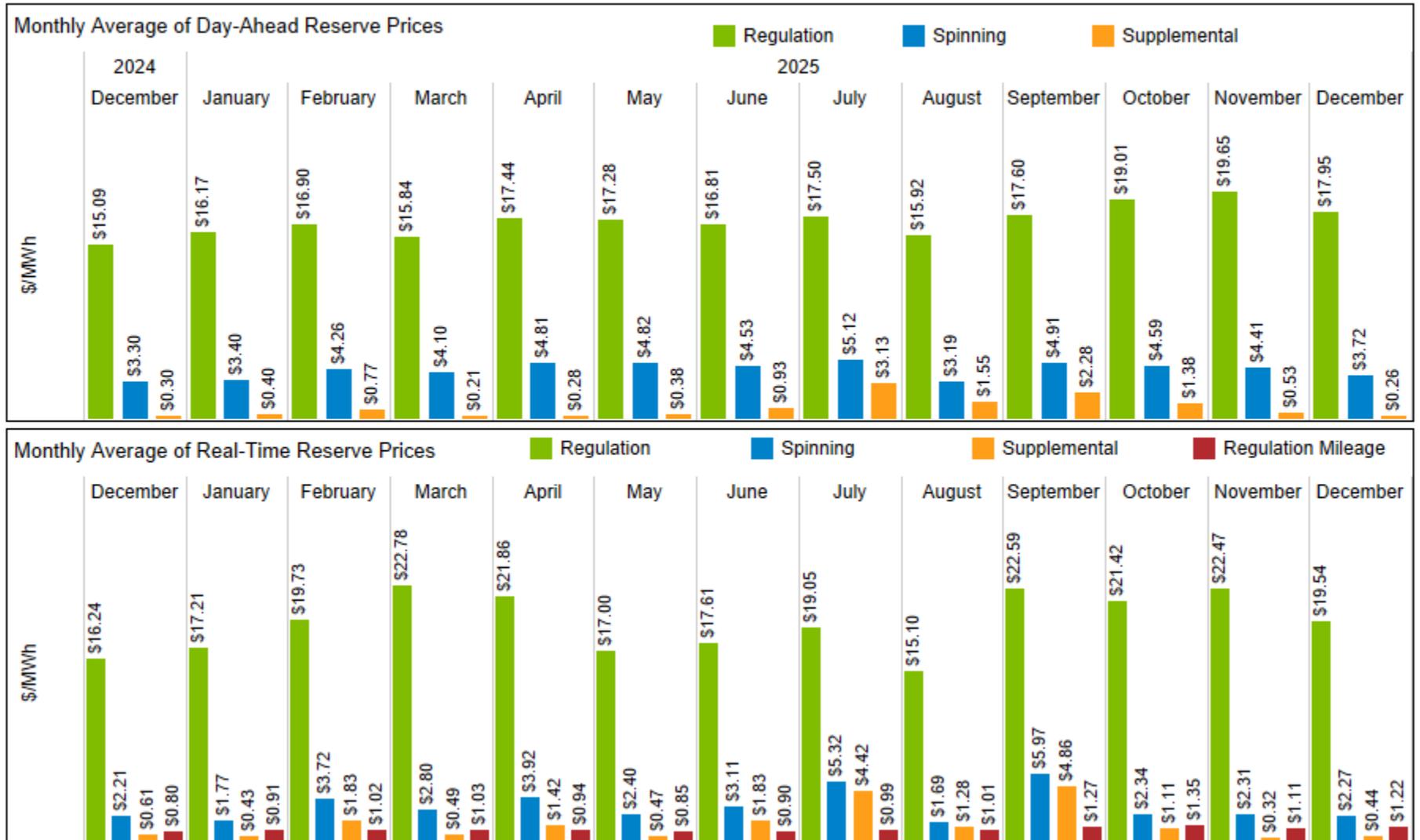
MISO Day-Ahead and Real-Time Hub Locational Marginal Pricing



		ARKANSAS	ILLINOIS	INDIANA	LOUISIANA	MICHIGAN	MINNESOTA	MISSISSIPPI	TEXAS	MISO
Marginal Congestion Component of LMP (\$/MWh)	DA Peak	-10.85	-0.98	2.43	-8.49	3.76	2.28	-8.93	-7.85	-3.58
	RT Peak	-6.86	0.05	3.03	-7.67	4.79	4.25	-7.86	-8.47	-2.34
	DA Off Peak	-5.91	-1.66	1.86	-5.40	2.05	0.42	-5.49	-5.40	-2.44
	RT Off Peak	-4.39	-1.68	2.62	-4.56	3.42	0.69	-4.44	-5.04	-1.67

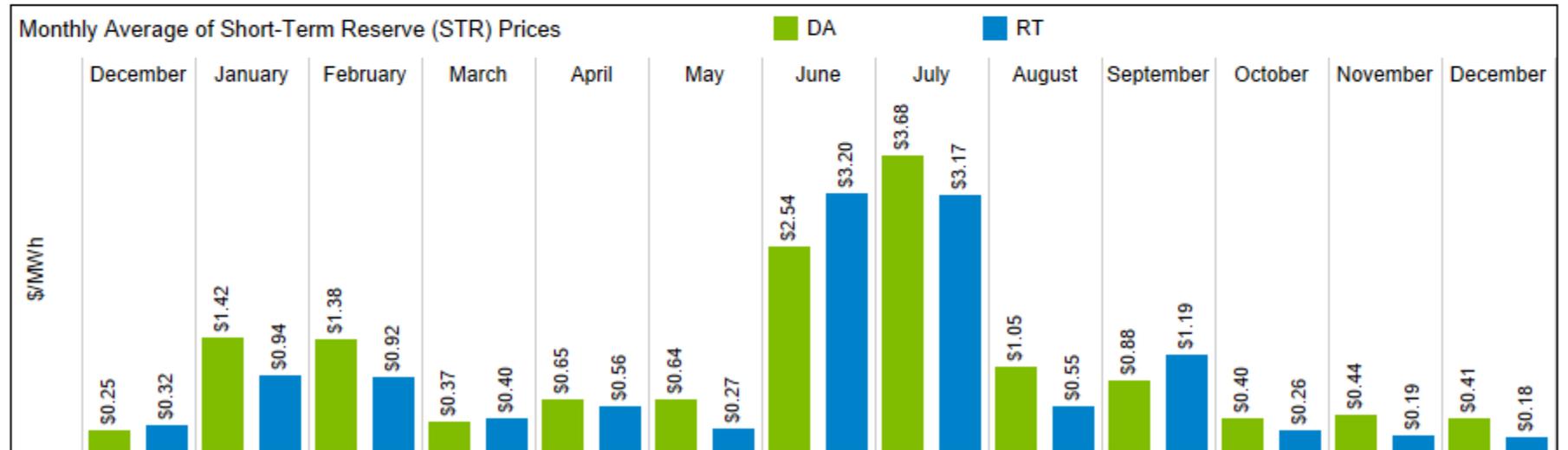
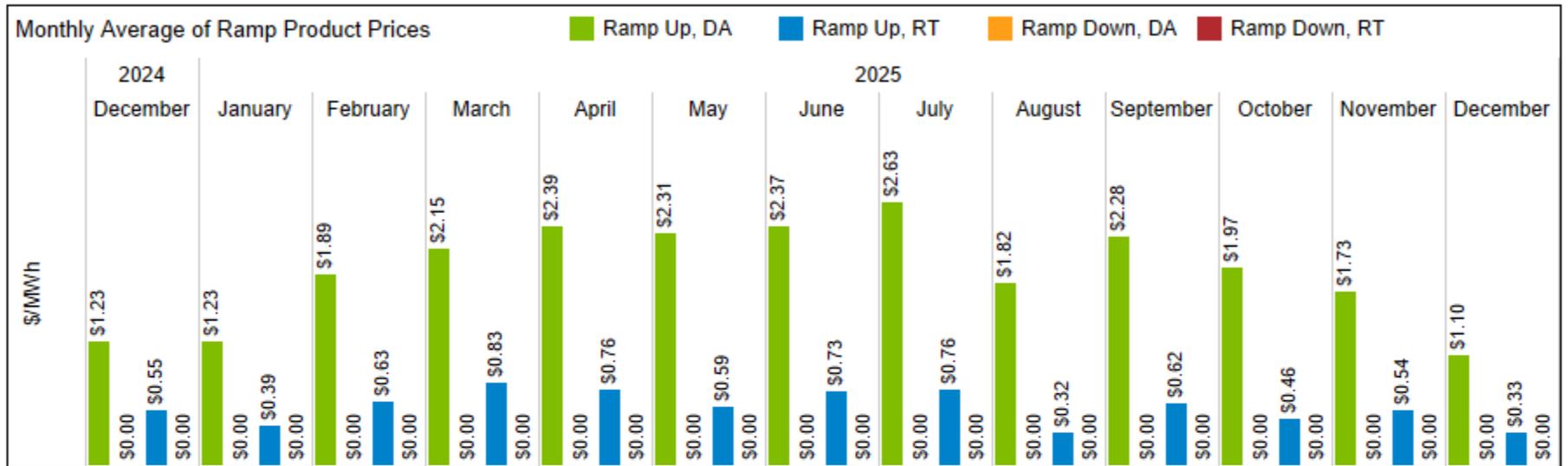
Source: MISO Market and Operations Analytics Department

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



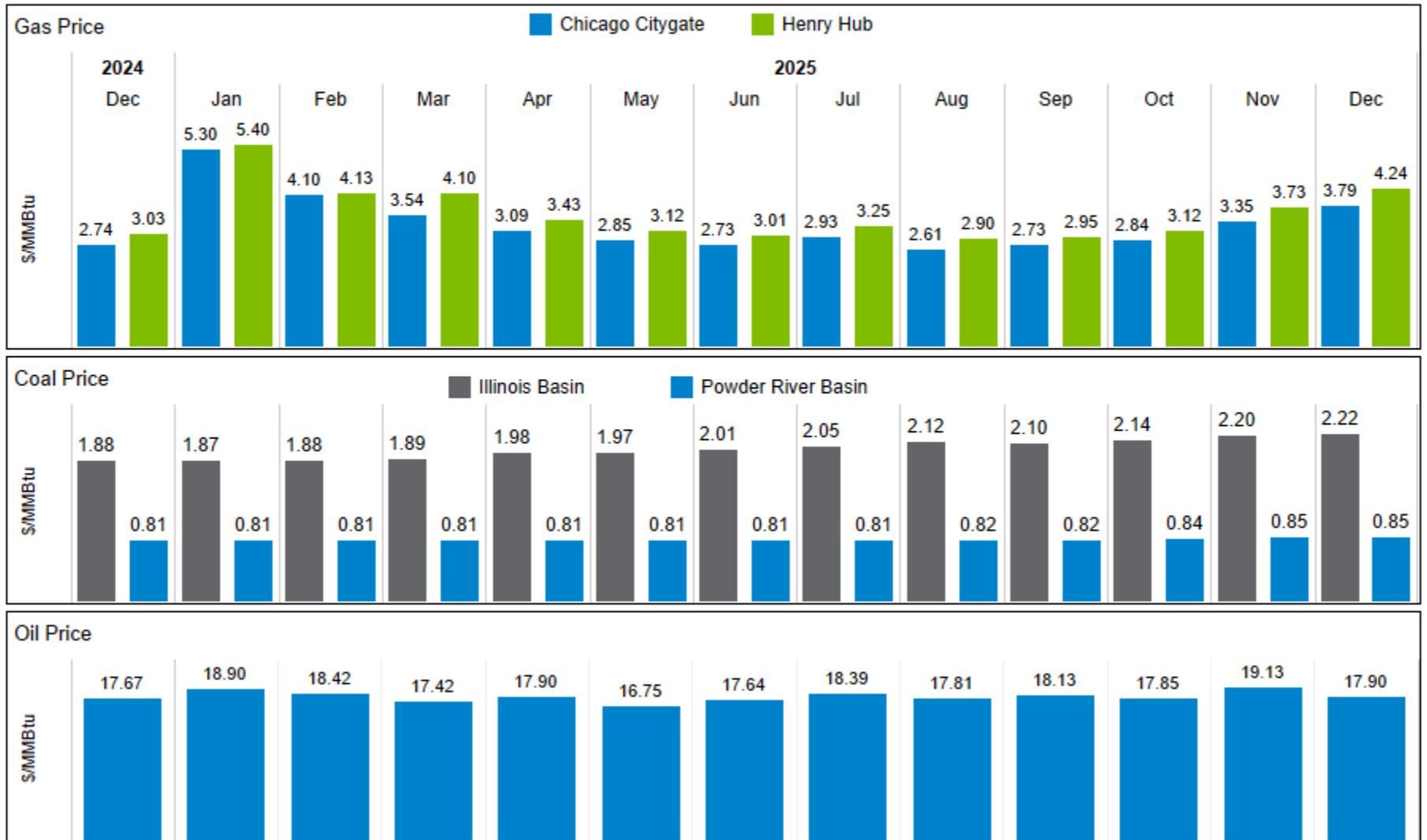
Source: MISO Market and Operations Analytics Department

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



Source: MISO Market and Operations Analytics Department

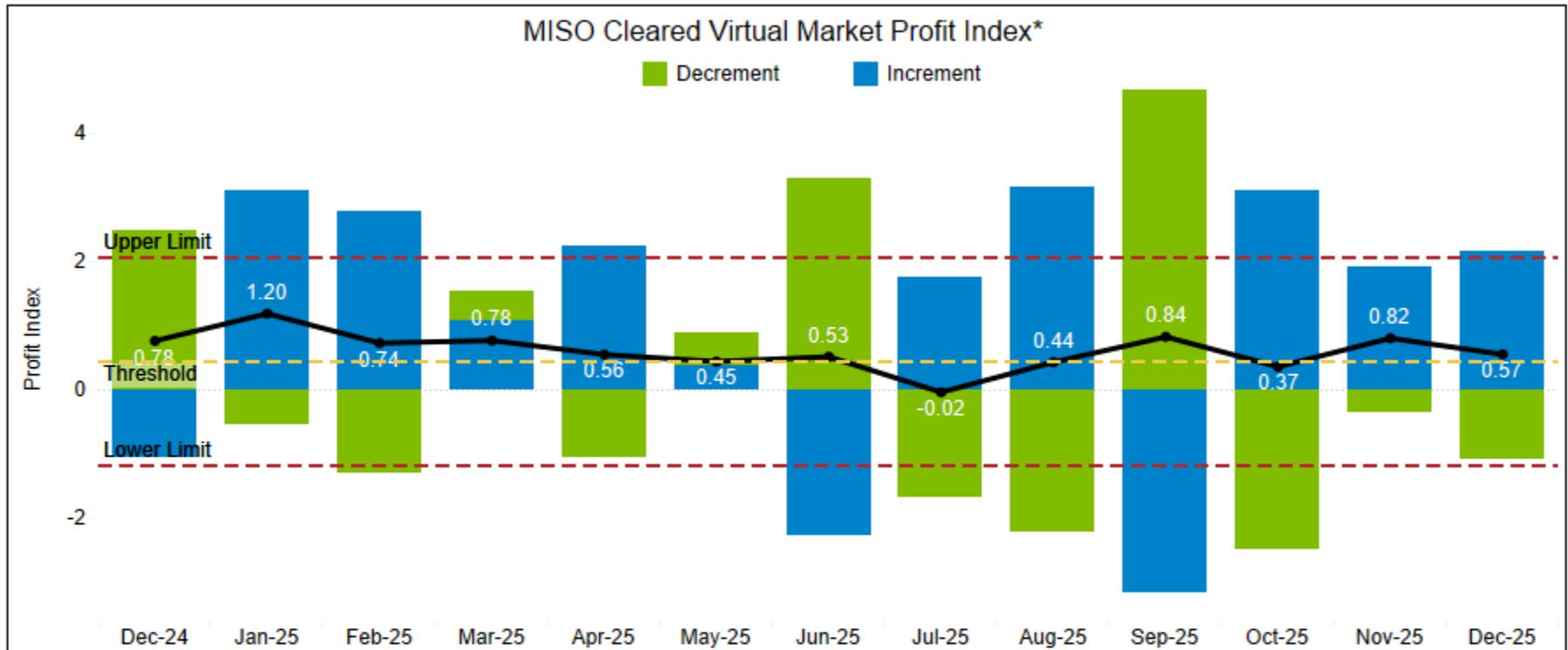
Nominal Fuel Prices



Monthly oil prices are estimates and subject to change upon finalization

Source: EIA

Monthly Average Gross Virtual Profitability



Month	Standard Deviation
Dec-24	1.50
Jan-25	1.81
Feb-25	2.21
Mar-25	1.16
Apr-25	1.15
May-25	2.04
Jun-25	1.61
Jul-25	2.64
Aug-25	1.01
Sep-25	1.47
Oct-25	0.75
Nov-25	1.03
Dec-25	1.50

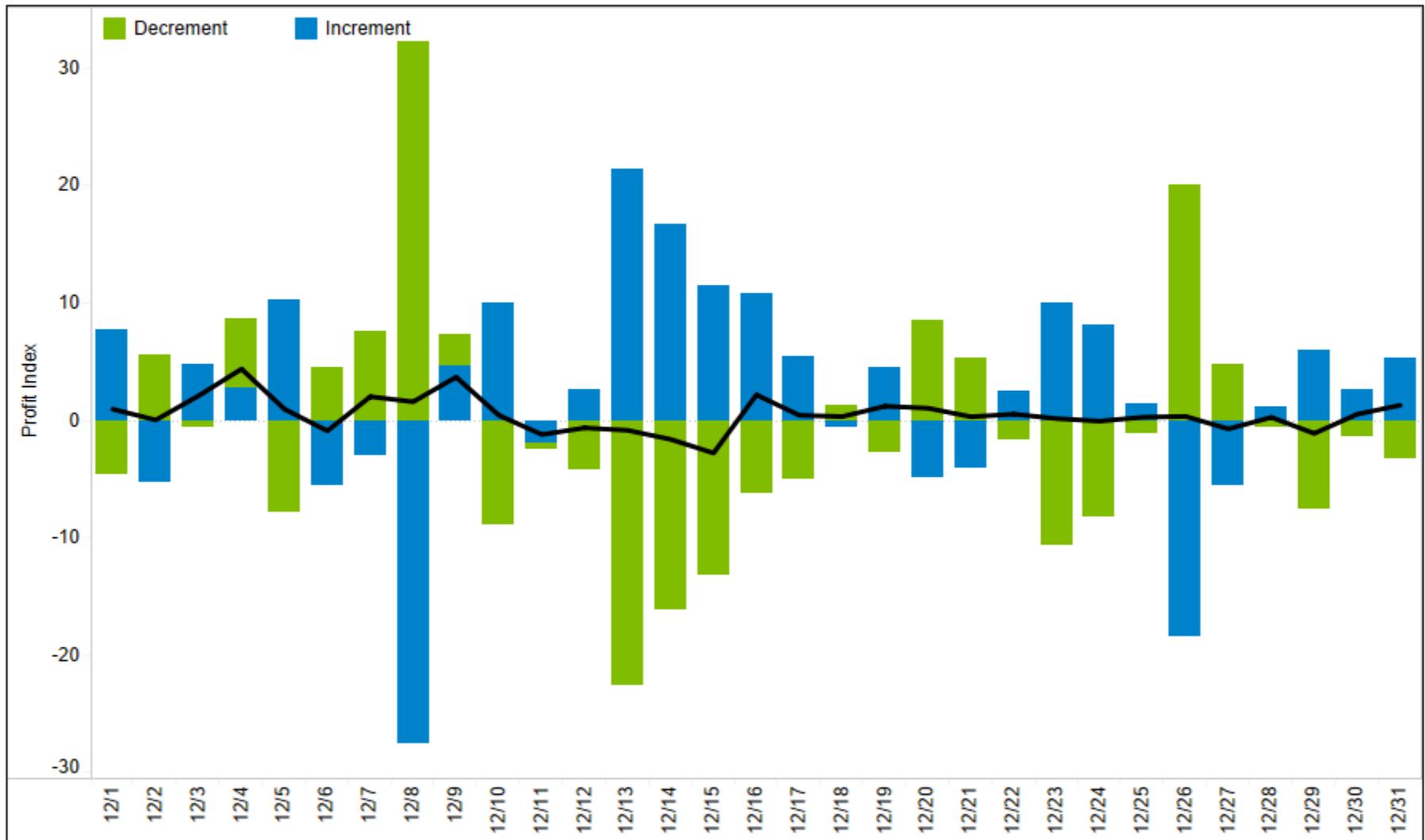
* The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions.

* 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).

Daily Gross Cleared Virtual Profitability

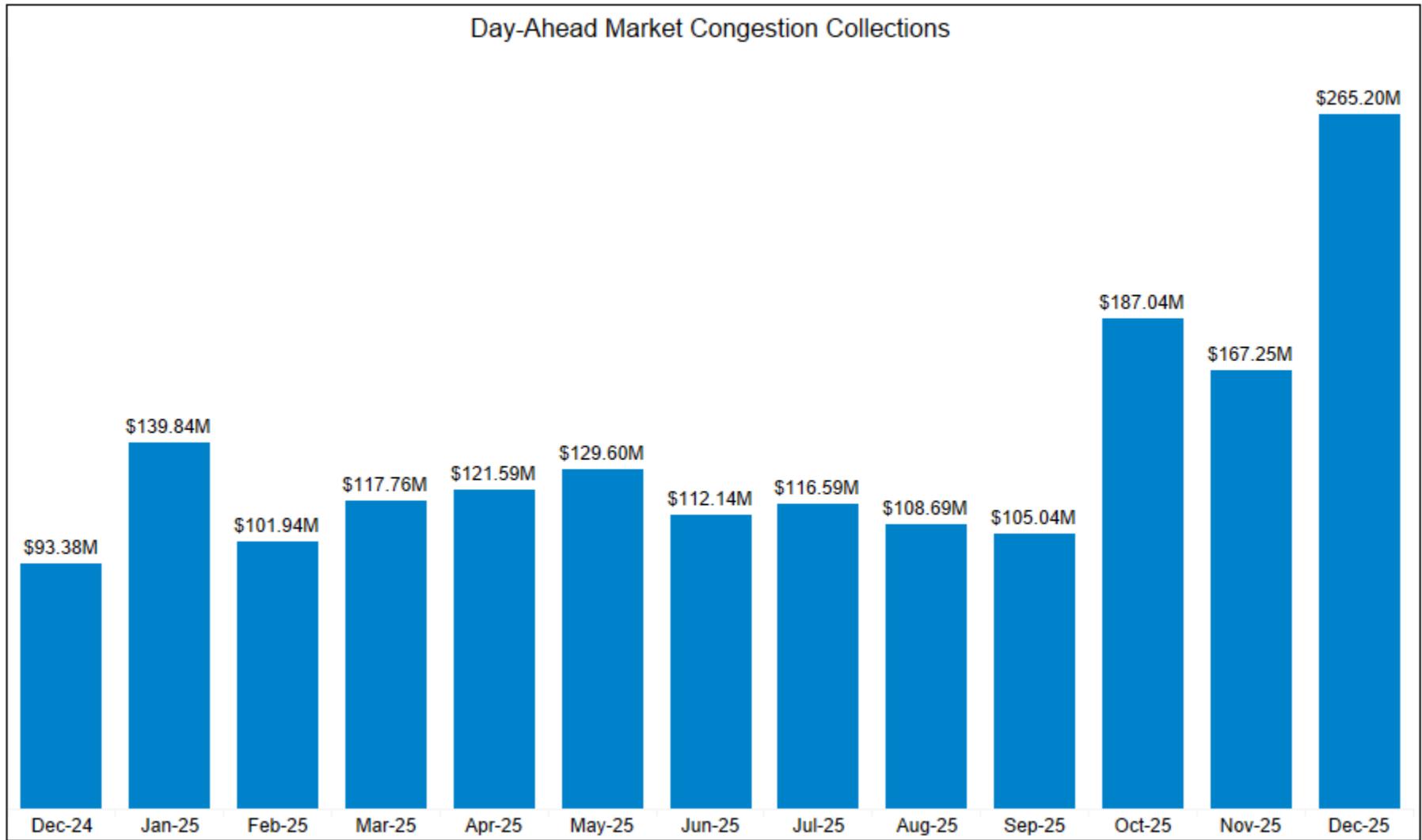


The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions

Source: MISO Market and Operations Analytics Department

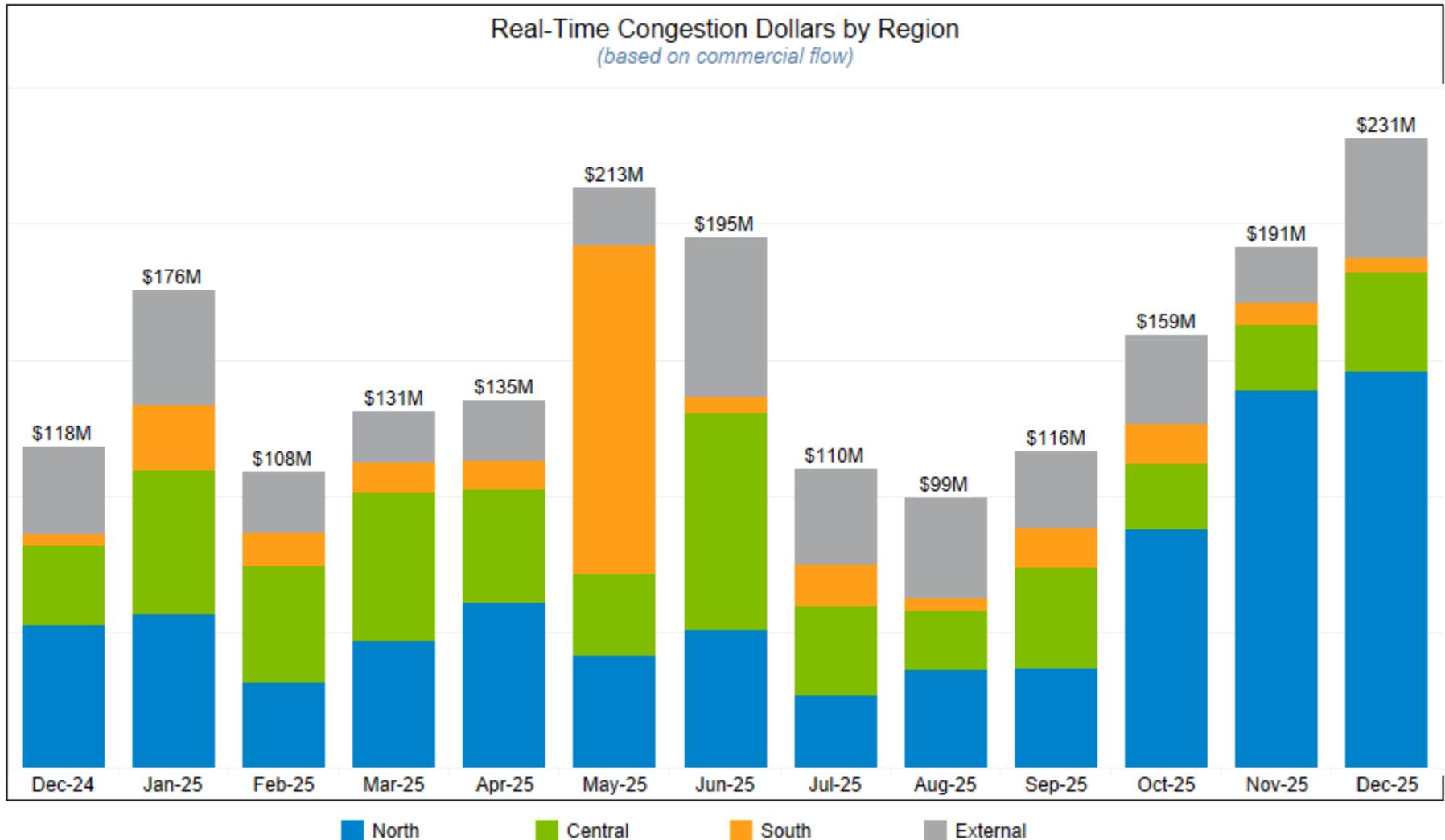


Day-Ahead Congestion Collections



Source: MISO Market and Operations Analytics Department

Real-Time Congestion Dollars by Region



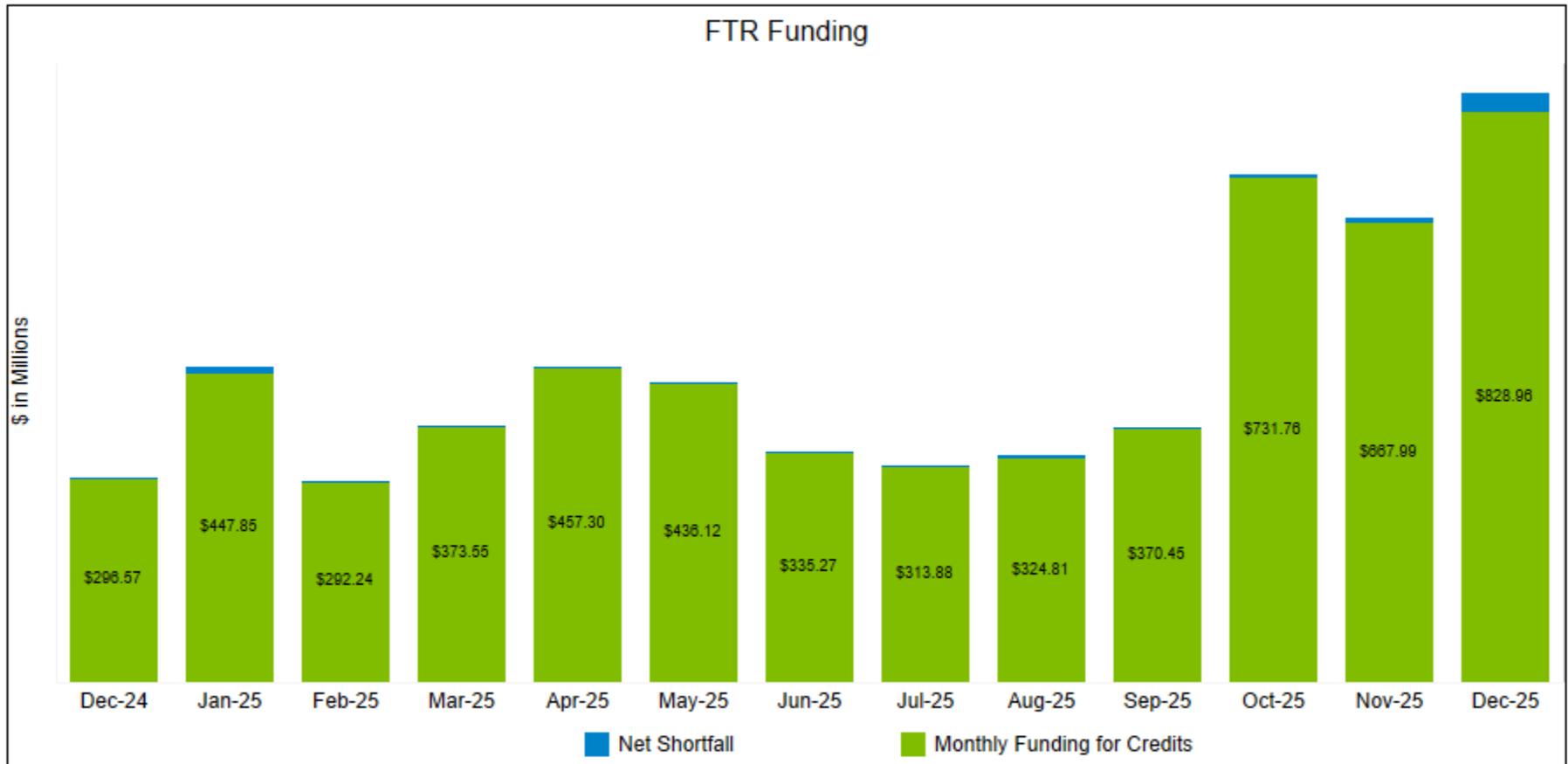
Includes External Constraints

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



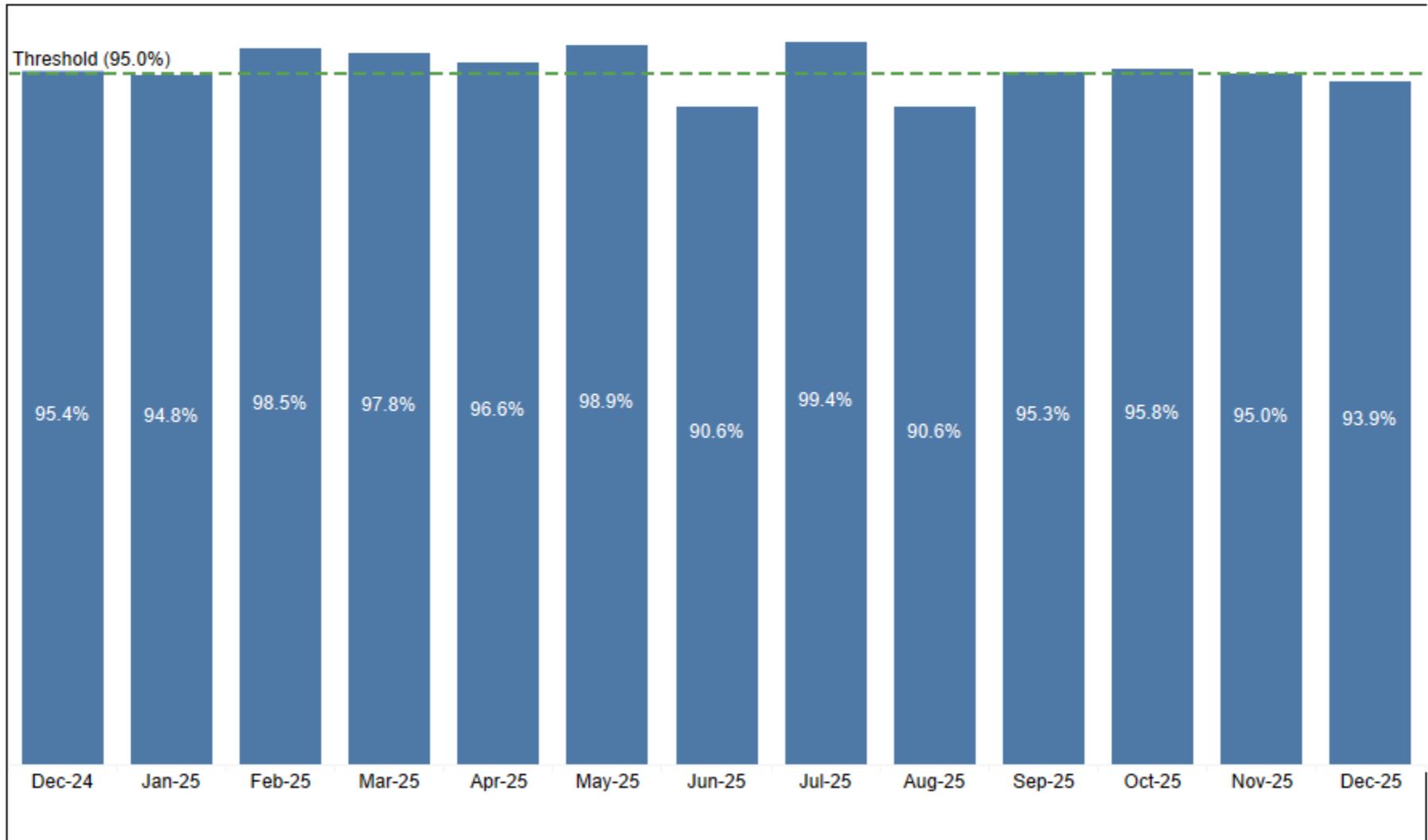
	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Monthly FTR Allocation (%)	100.0%	97.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.3%	100.0%	99.0%	99.1%	96.8%
YTD FTR Allocation (%)	98.0%	NA	NA	NA	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



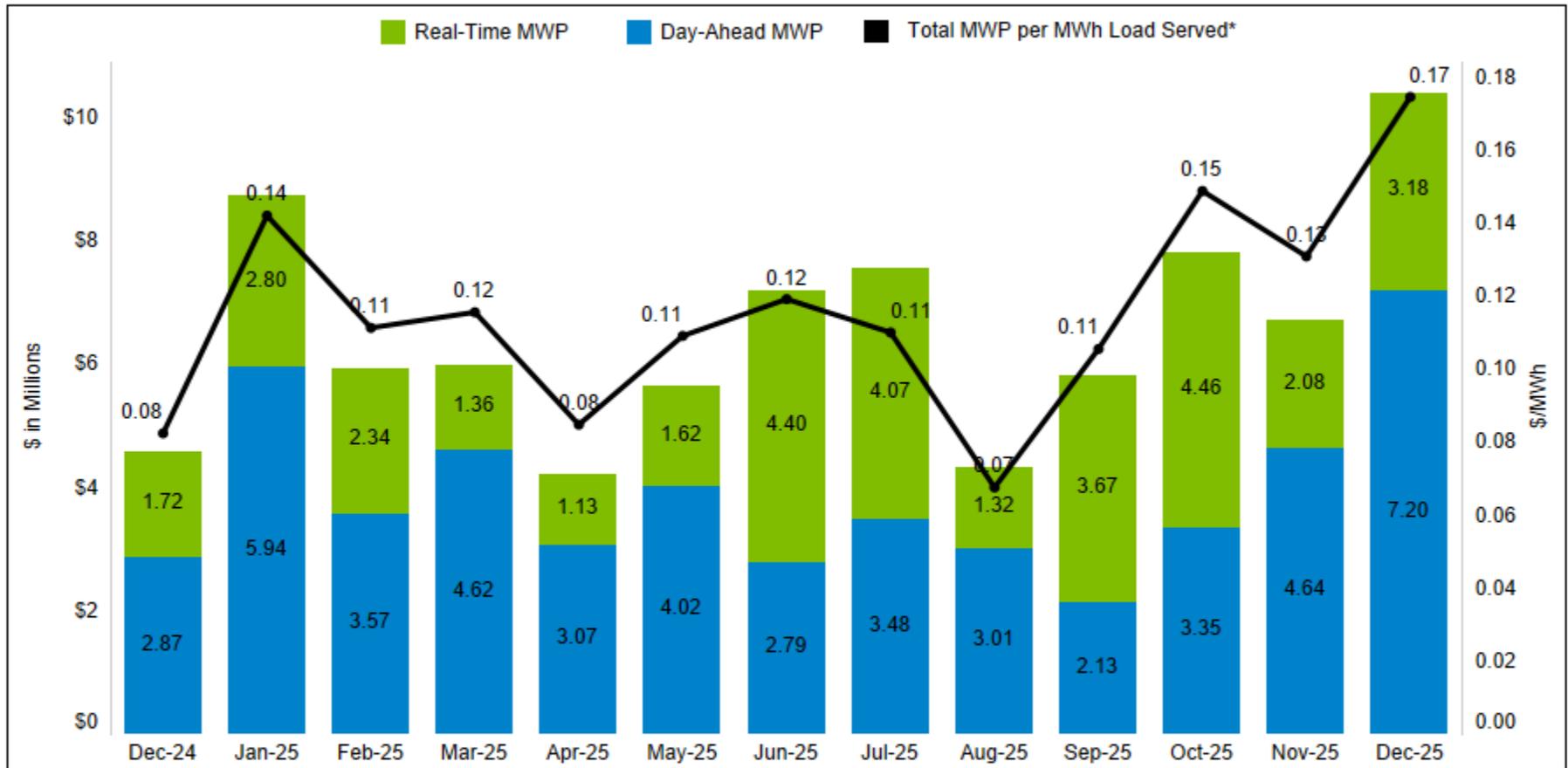
Market Funding Efficiency

D



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

Day-Ahead and Real-Time Revenue Sufficiency Guarantee E

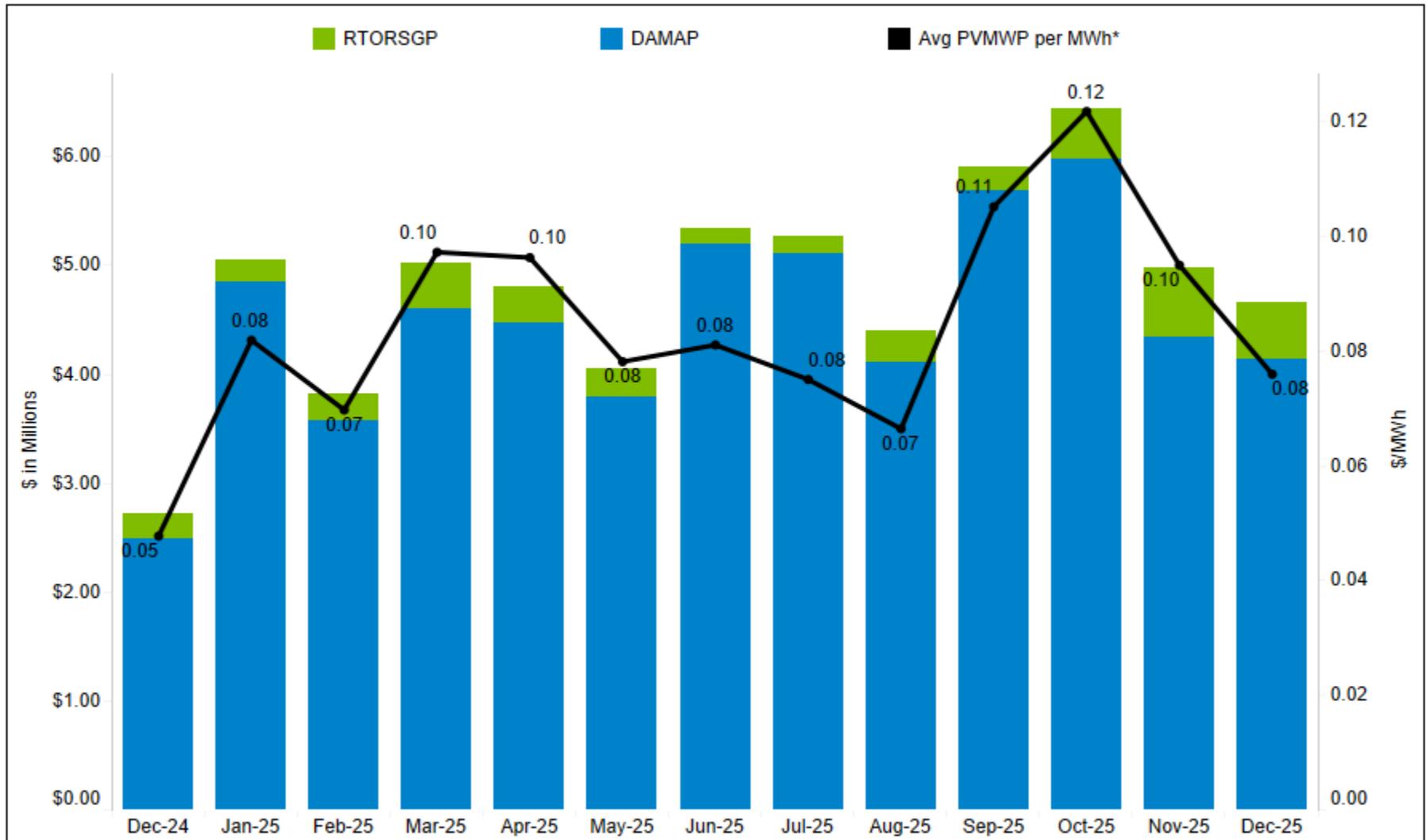


	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Chicago Gas Prices (\$/MMBtu)	2.74	5.30	4.10	3.54	3.09	2.85	2.73	2.93	2.61	2.73	2.84	3.35	3.79
Henry Gas Prices (\$/MMBtu)	3.03	5.40	4.13	4.10	3.43	3.12	3.01	3.25	2.90	2.95	3.12	3.73	4.24
^^RSG Per MWh to Energy Price (%)	0.27	0.32	0.26	0.33	0.25	0.31	0.30	0.23	0.19	0.29	0.43	0.36	0.42

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



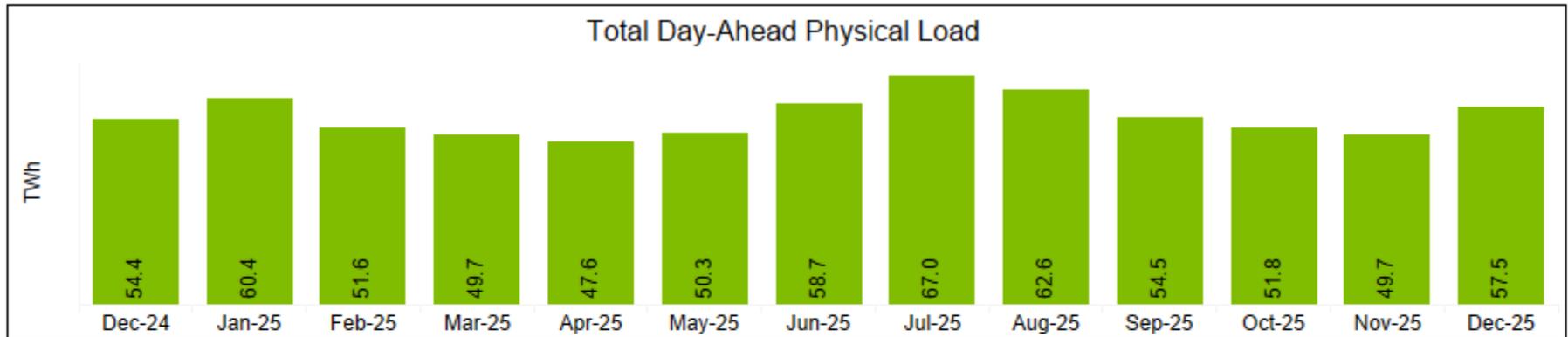
Price Volatility Make Whole Payment



*Hourly ICCP data

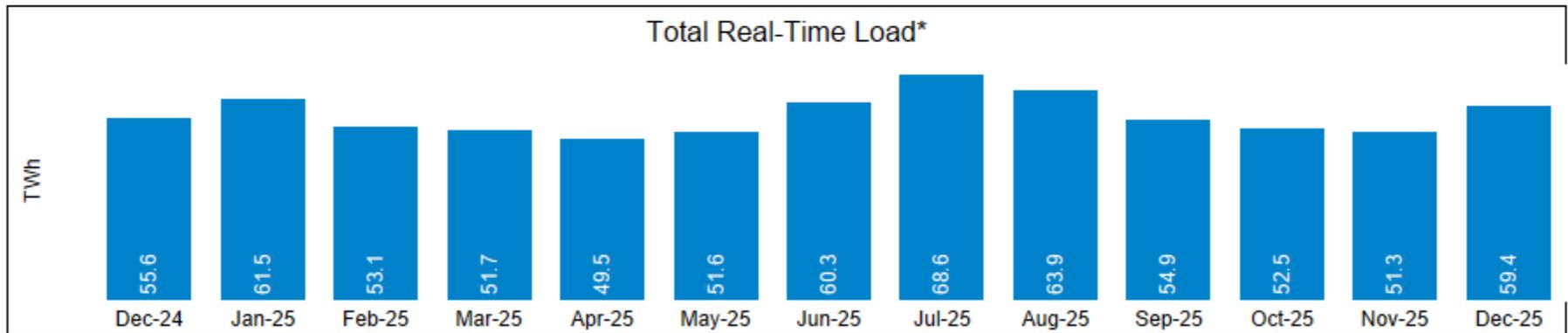
Source: Web-based Revenue Neutrality Uplift Report

Day-Ahead and Real-Time Cleared Physical Energy



Day-Ahead Cleared Load Value (including Virtuals)

Month	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Value (\$B)	\$2.06B	\$3.20B	\$2.68B	\$1.93B	\$1.87B	\$2.14B	\$2.97B	\$4.17B	\$2.96B	\$2.50B	\$2.27B	\$2.30B	\$3.04B



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

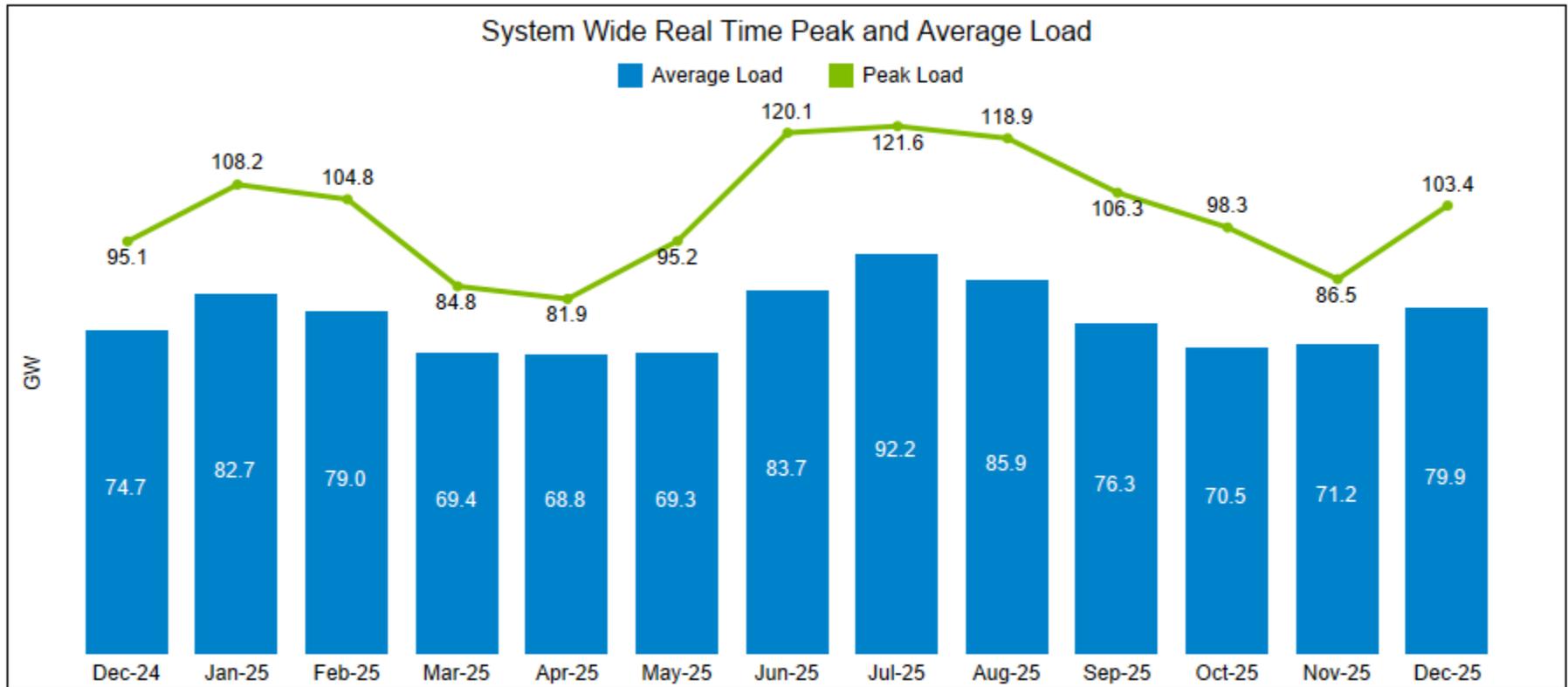
Month	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Value (\$B)	\$1.83B	\$2.64B	\$2.21B	\$1.65B	\$1.55B	\$1.95B	\$3.00B	\$3.68B	\$2.44B	\$2.49B	\$1.75B	\$1.88B	\$2.48B

*Sum of Hourly ICCP Load Data

Source: MISO Market and Operations Analytics Department



Monthly System Load and Temperature



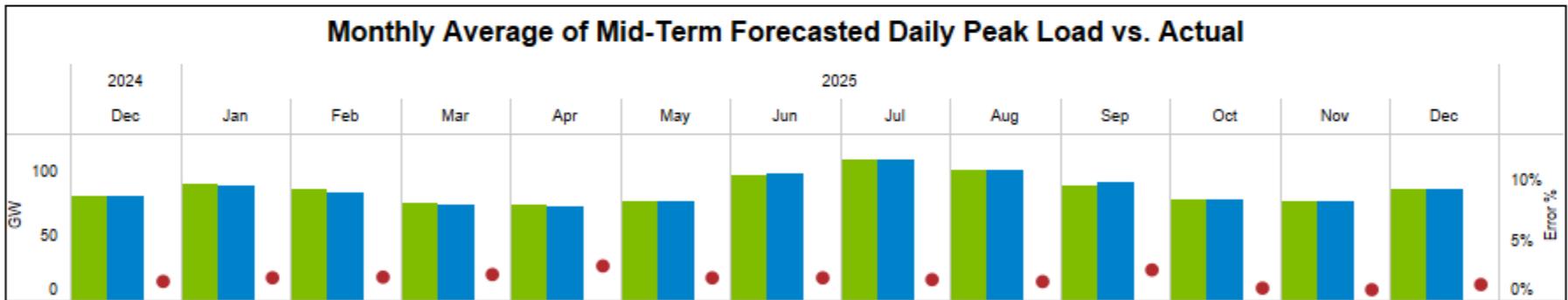
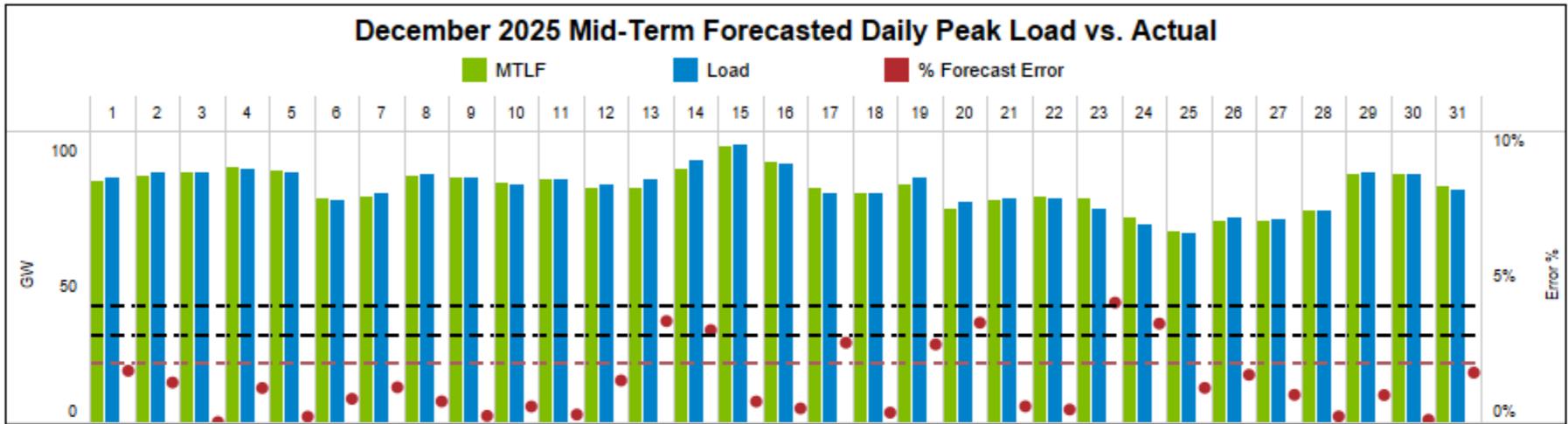
System Wide Load Weighted Temperature			
	Dec-24	Nov-25	Dec-25
Average	30°F	45°F	25°F
Maximum	53°F	70°F	51°F
Minimum	3°F	24°F	-8°F

Load Weighted Heating & Cooling Degree Days				
	Average HDD	Std Dev HDD	Average CDD	Std Dev CDD
Dec-25	37.16	12.31	0.00	0.00
Nov-25	16.91	9.17	0.10	0.70
Dec-24	31.55	11.22	0.00	0.00

	Hours with Load Greater than:		
	100 GW	80 GW	60 GW
Dec-25	3	392	736
Nov-25	0	34	708
Dec-24	0	188	728

*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*



	2024	2025											
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
% Std of Error (CV)	81.76	77.55	60.87	54.00	40.07	78.67	71.95	75.03	72.03	65.02	88.18	72.13	84.86
Mean of Error (MW)	1,334	1,742	1,674	1,671	2,191	1,474	1,852	1,950	1,670	2,382	841	731	1,167
Std of Error (MW)	1,090	1,351	1,019	902	878	1,159	1,332	1,463	1,203	1,549	742	527	990

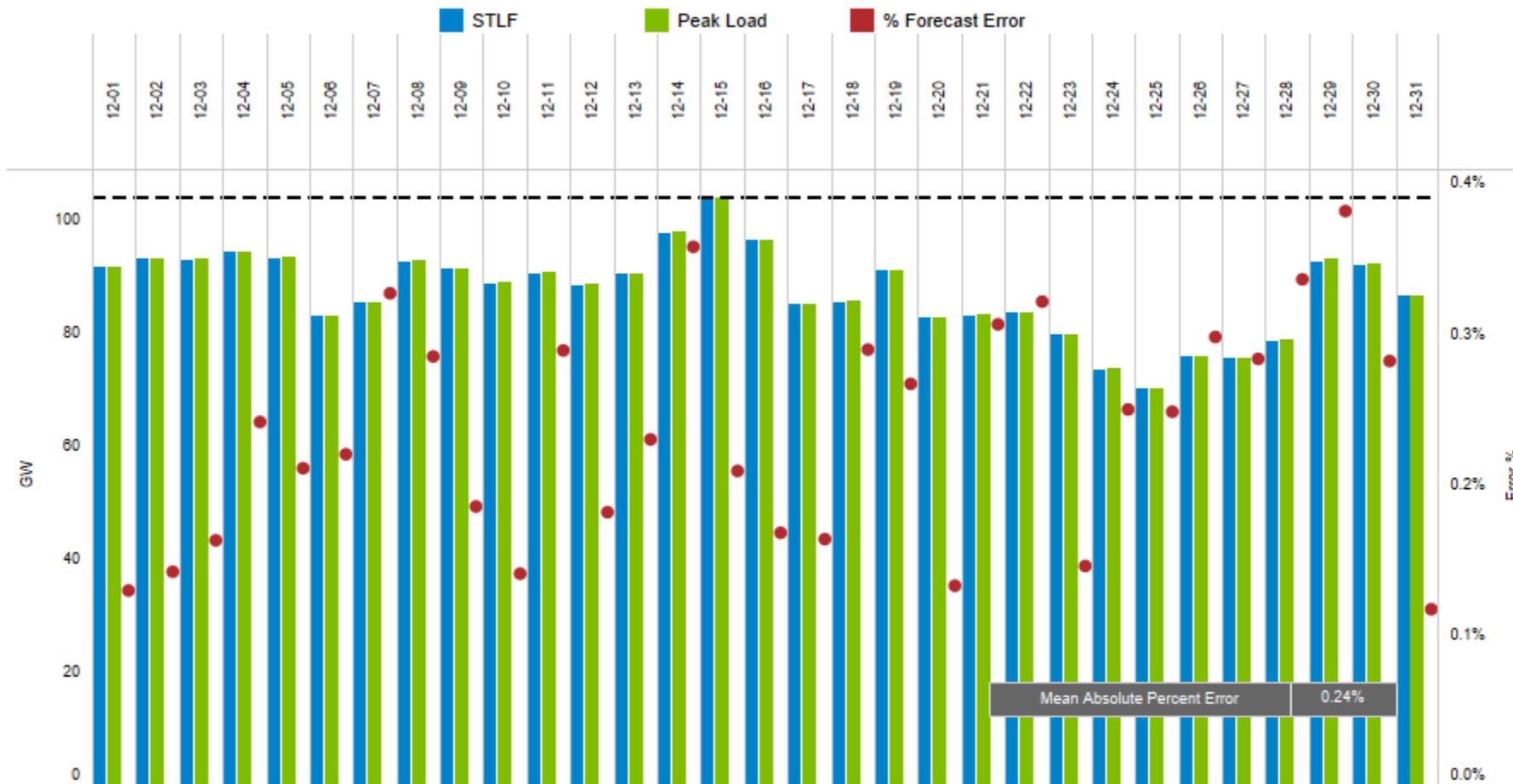
* Monthly data based on the average of the daily integrated peak hours in the month

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

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

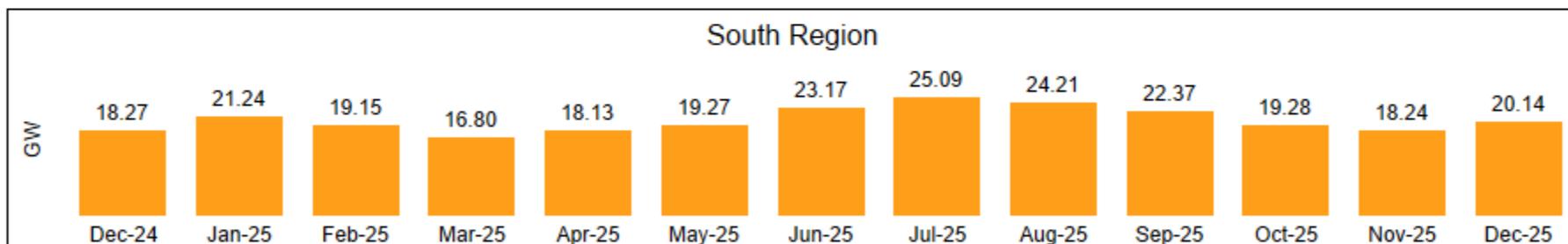
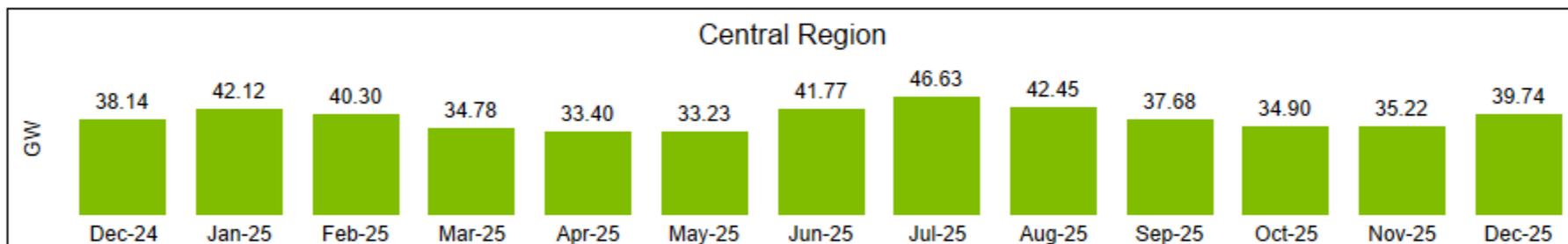
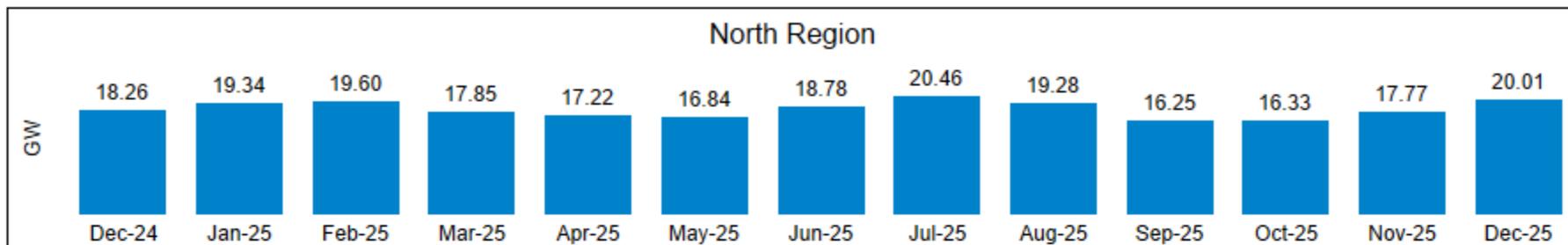
Short-Term Load Forecast*

December 2025 Short-Term Forecasted Daily Peak Load vs Actual



Daily data based on the average of five-minute interval data at the peak hour of the day
 Error Threshold calculated as 95% quantile of Forecast Error from Jan-Dec of the previous year
 Peak Day and Hour End based on Hourly Integrated Peak Load Hour

Average Load by Region



Hourly Integrated System Load Peak Hour Ending: 12/15/2025 09 EST

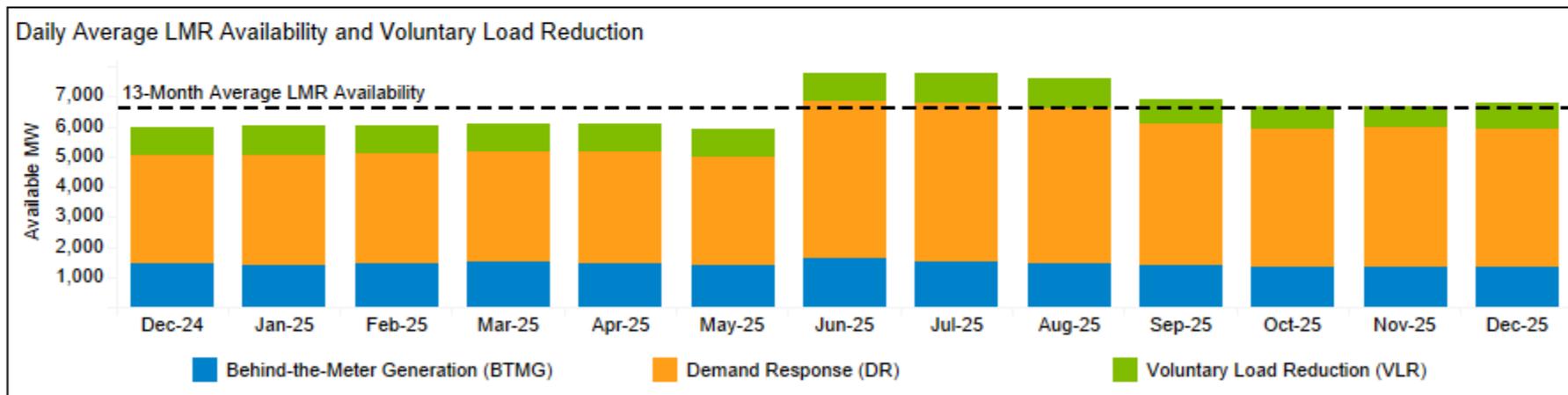
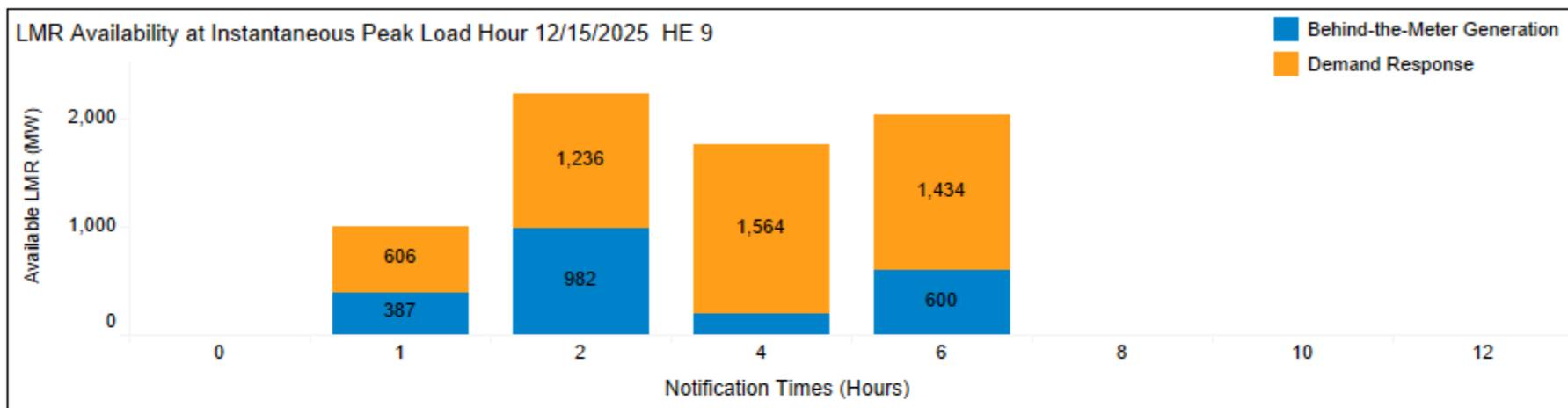
North	23.09 GW
Central	50.83 GW
South	29.30 GW
MISO	102.28 GW

*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

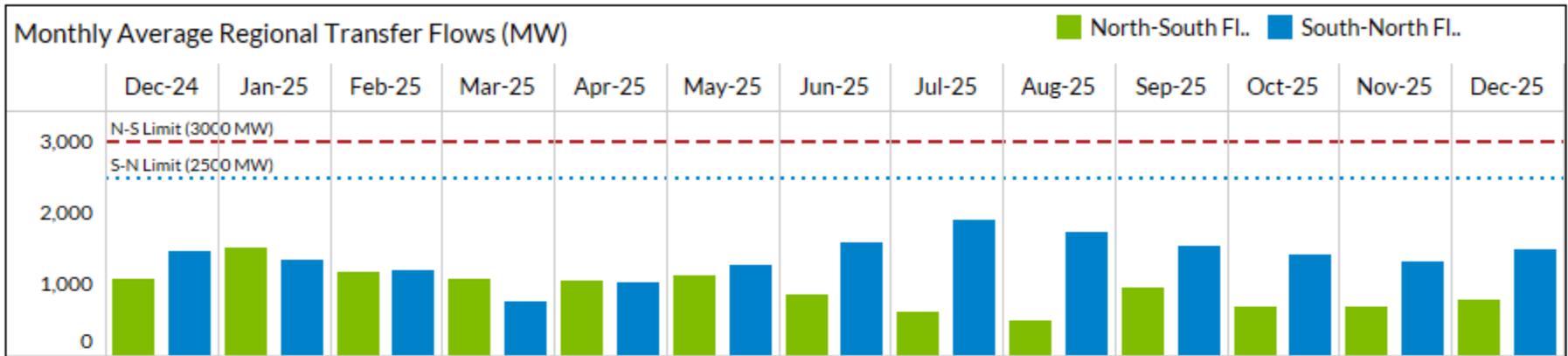


Market Participant entered Load Modifying Resource (LMR) Availability



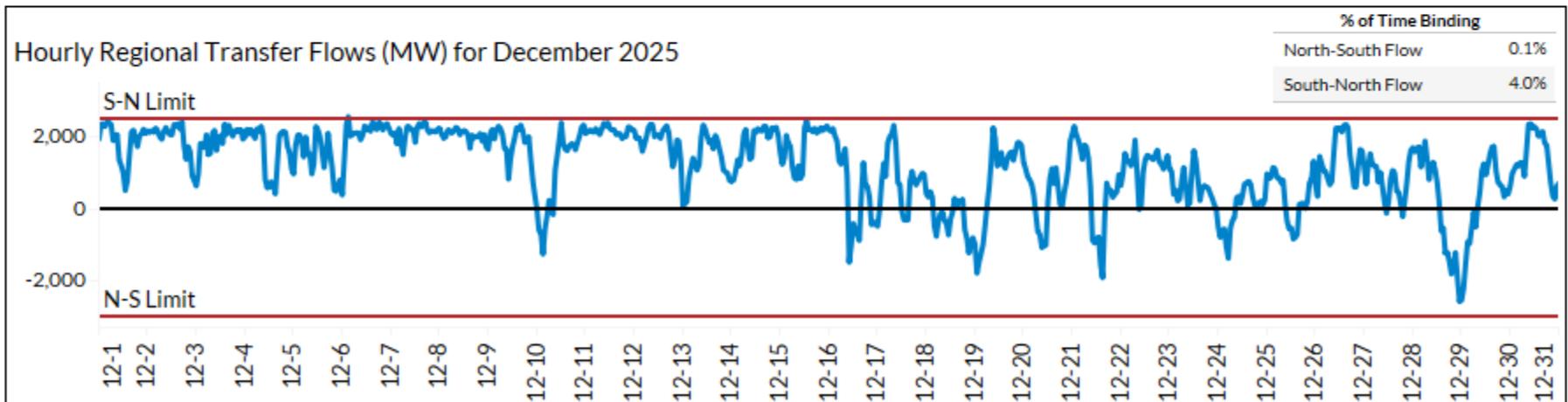
PRA Auction	BTMG (MW)	DR (MW)	Total BTMG and DR (MW)
Summer 2024	4,144	8,109	12,253
Summer 2025	4,283	9,004	13,287

Regional Directional Transfer**



Percentage of Time Regional Directional Flow

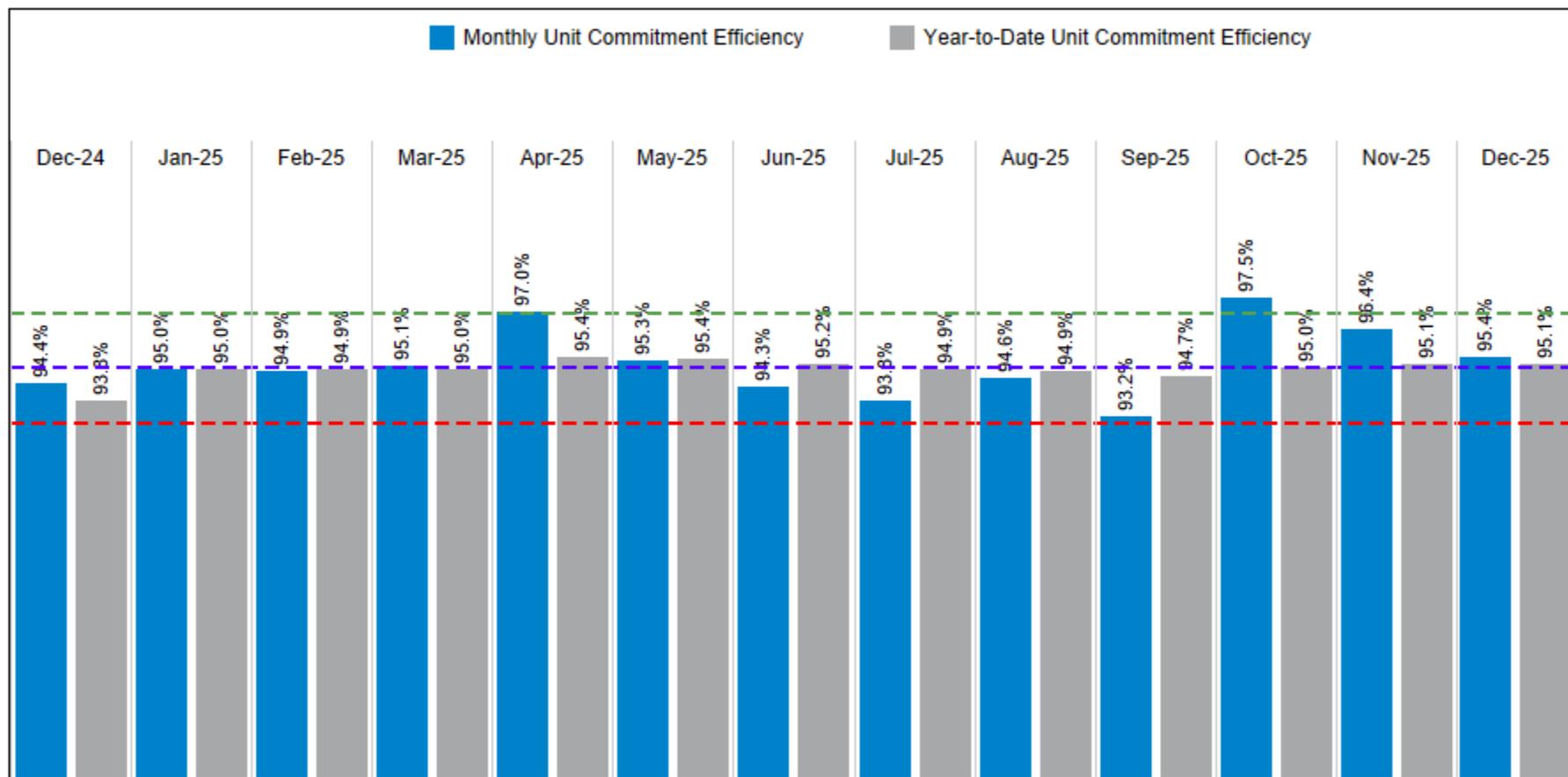
	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
North-South Flow	22%	29%	40%	61%	44%	49%	26%	3%	4%	12%	19%	15%	13%
South-North Flow	78%	71%	60%	39%	56%	51%	74%	97%	96%	88%	81%	85%	87%



**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



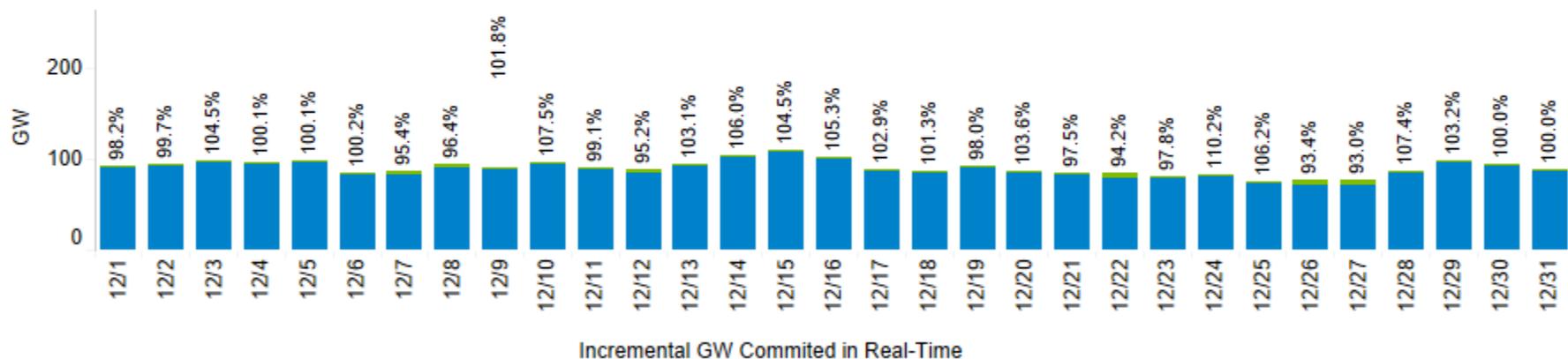
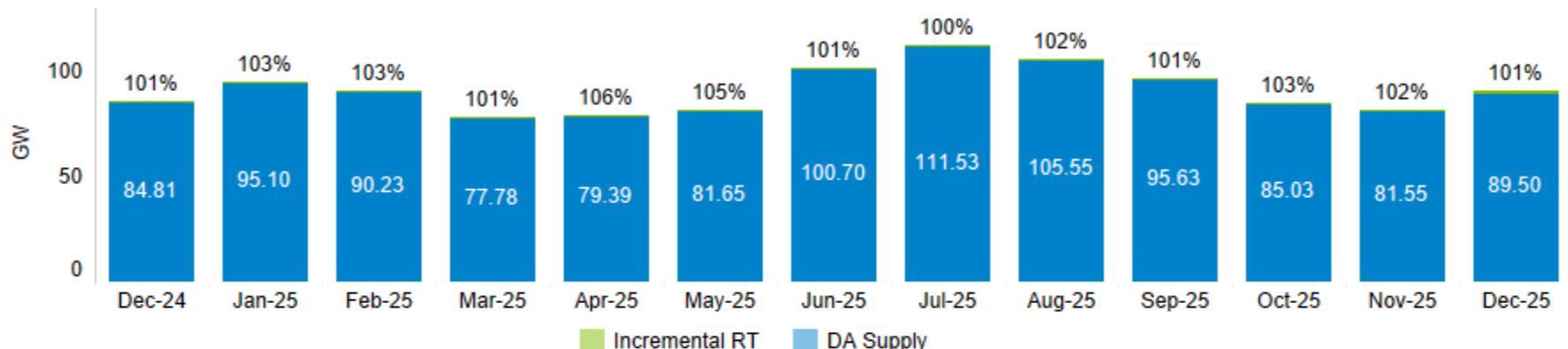
	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Actual Cost	\$988M	\$1,311M	\$1,069M	\$819M	\$756M	\$829M	\$1,095M	\$1,427M	\$1,168M	\$1,041M	\$899M	\$929M	\$1,173M
Optimal Cost	\$978M	\$1,300M	\$1,061M	\$812M	\$752M	\$822M	\$1,085M	\$1,415M	\$1,159M	\$1,029M	\$894M	\$923M	\$1,163M
Sunk Cost	\$807M	\$1,095M	\$897M	\$673M	\$628M	\$678M	\$913M	\$1,229M	\$1,004M	\$864M	\$732M	\$758M	\$952M

Source: MISO Optimal Dispatch Calculator (ODC)

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



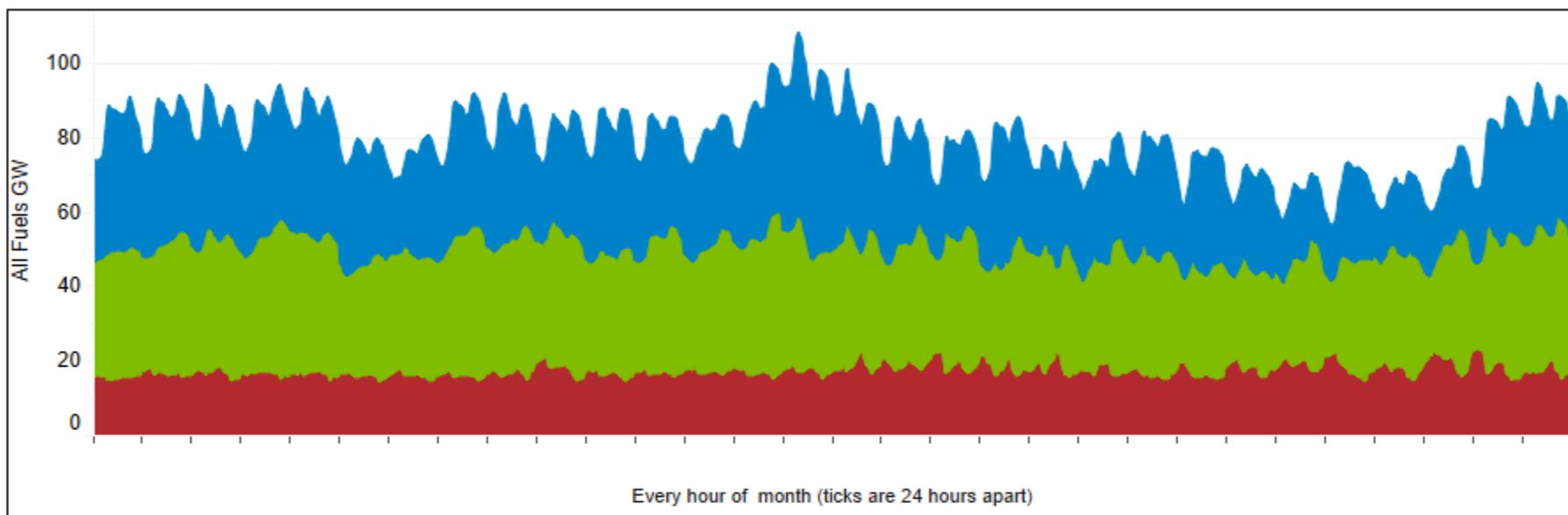
Day-Ahead Supply and Real-Time Load Obligation at the Peak Load Hour



Date	12/1	12/2	12/3	12/4	12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14	12/15	12/16	12/17	12/18	12/19	12/20	12/21	12/22	12/23	12/24	12/25	12/26	12/27	12/28	12/29	12/30	12/31
Incremental GW Committed in Real-Time	1.69	0.31	-4.23	-0.09	-0.07	-0.16	4.02	3.38	-3.27	-6.77	0.85	4.34	-2.85	-5.94	-4.77	-5.17	-2.53	-1.10	1.89	-3.05	2.16	4.95	1.78	-7.83	-4.44	5.09	5.42	-5.95	-3.04	-0.05	-0.01

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

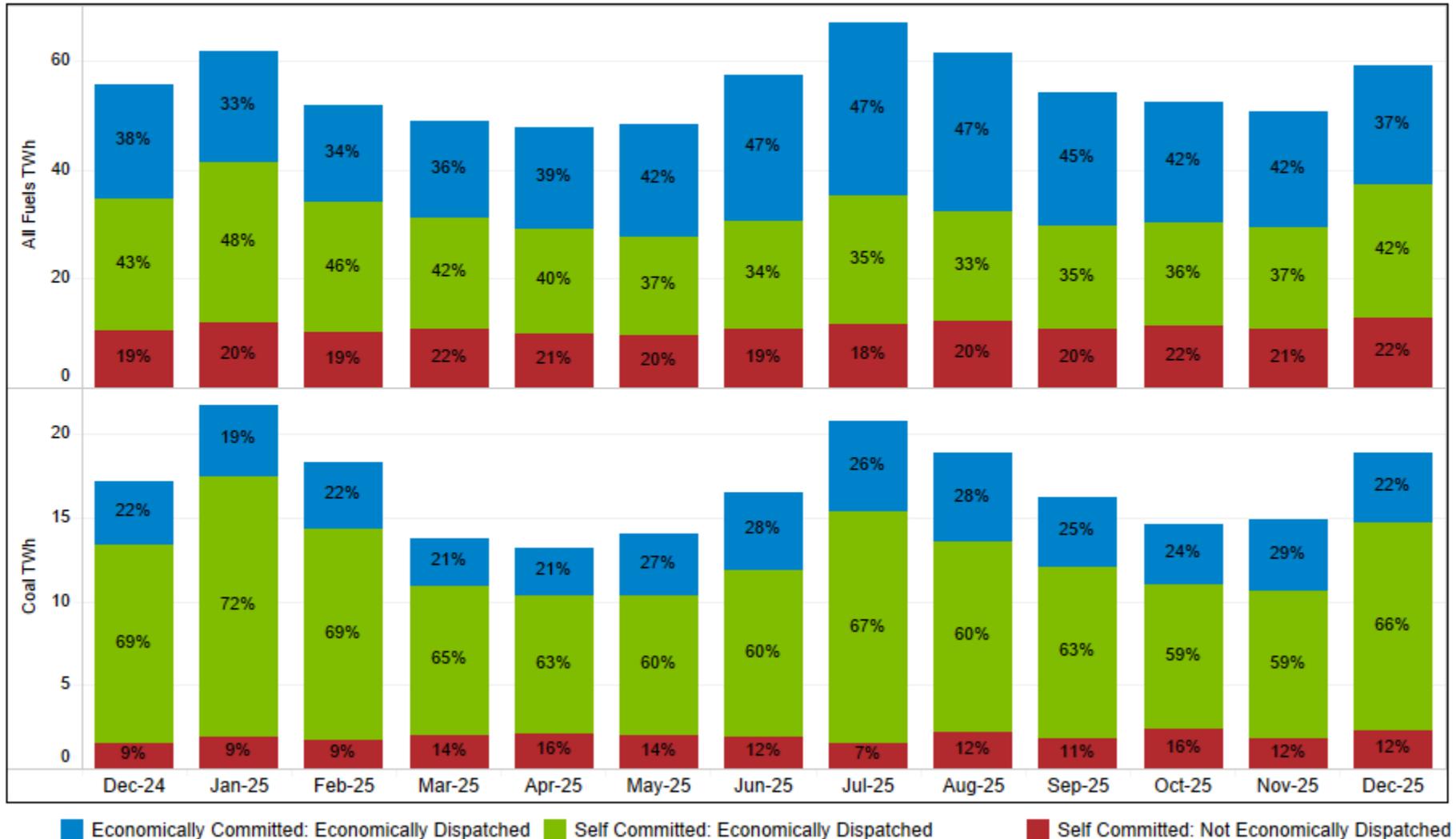
Self Committed and Economically Dispatched Energy - December 2025



	All Fuels		Coal		Gas	
	TWh	%	TWh	%	TWh	%
Economically Committed: Economically Dispatched	21.9	37%	4.2	22%	13.1	66%
Self Committed: Economically Dispatched	24.5	42%	12.5	66%	5.4	27%
Self Committed: Not Economically Dispatched	12.7	22%	2.2	12%	1.3	6%
Grand Total	59.1	100%	18.9	100%	19.8	100%

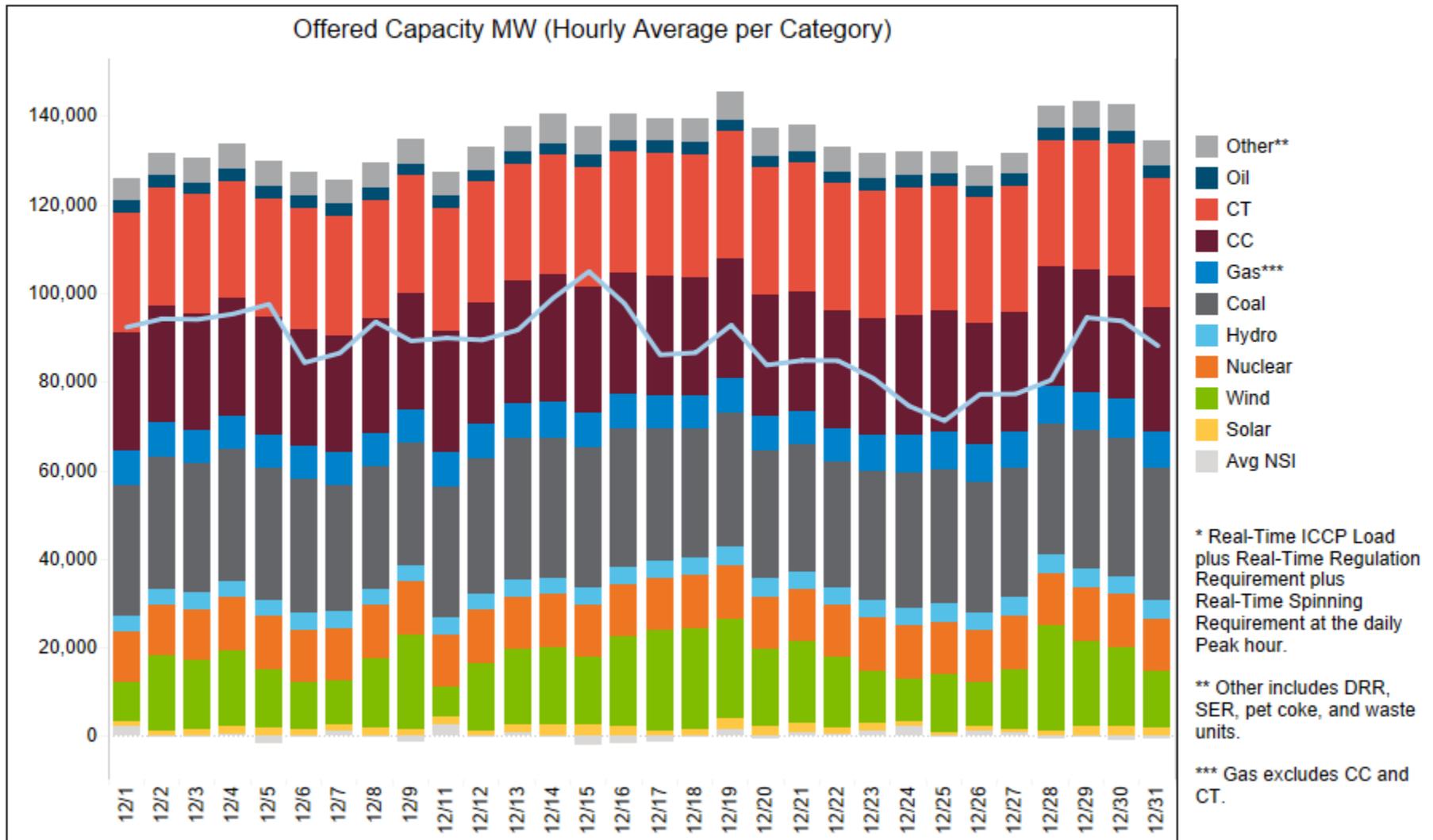
- Economically Committed: Economically Dispatched
 Generation committed by MISO and dispatched on economic offers.
- Self Committed: Economically Dispatched
 Generation that is self-committed, but Resource Owners allow MISO to dispatch economically after the self-schedule portion of their resource offer 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

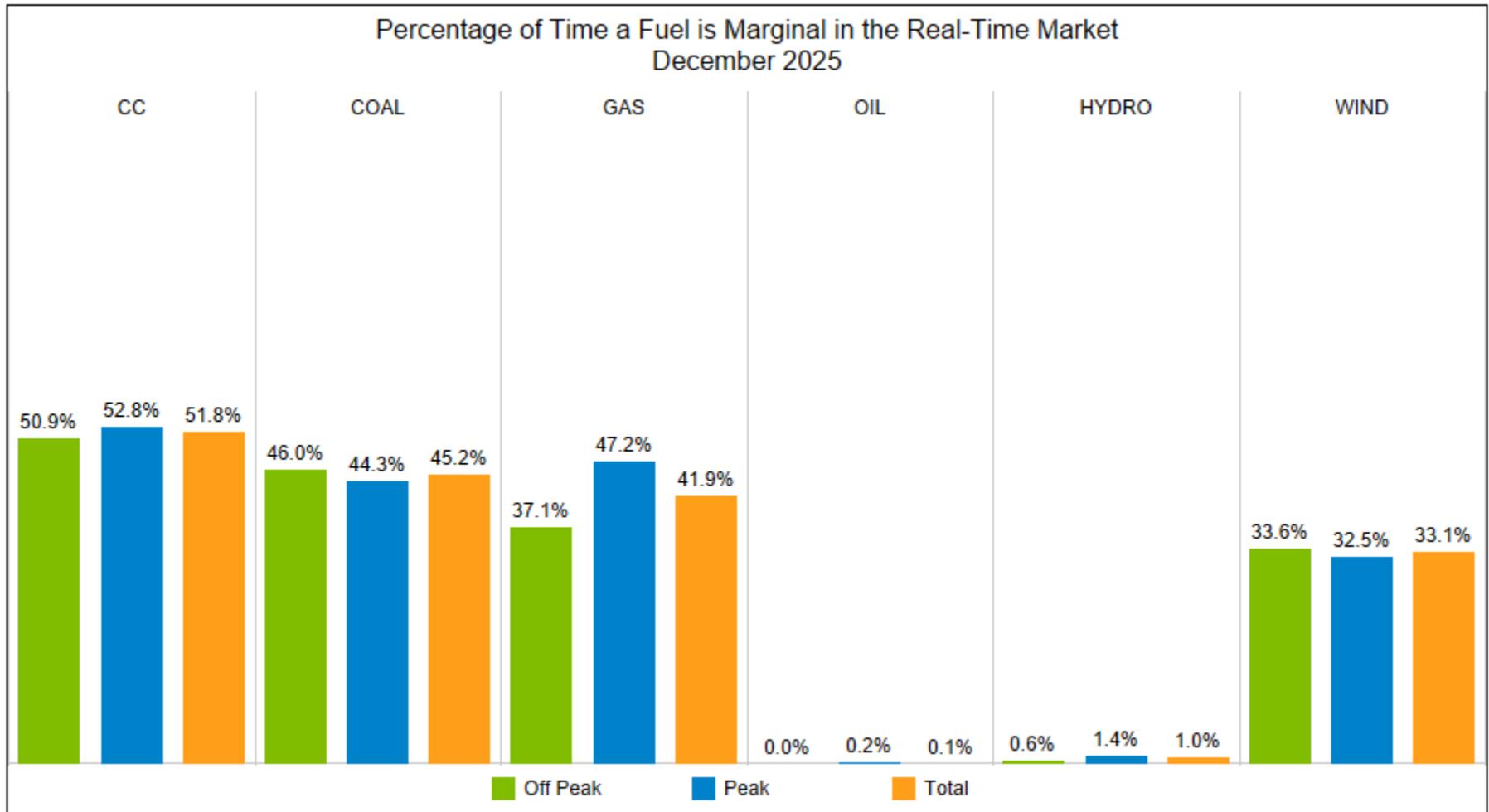


Source: MISO Market and Operations Analytics Department

Offered Capacity and Real-Time Peak Load Obligation

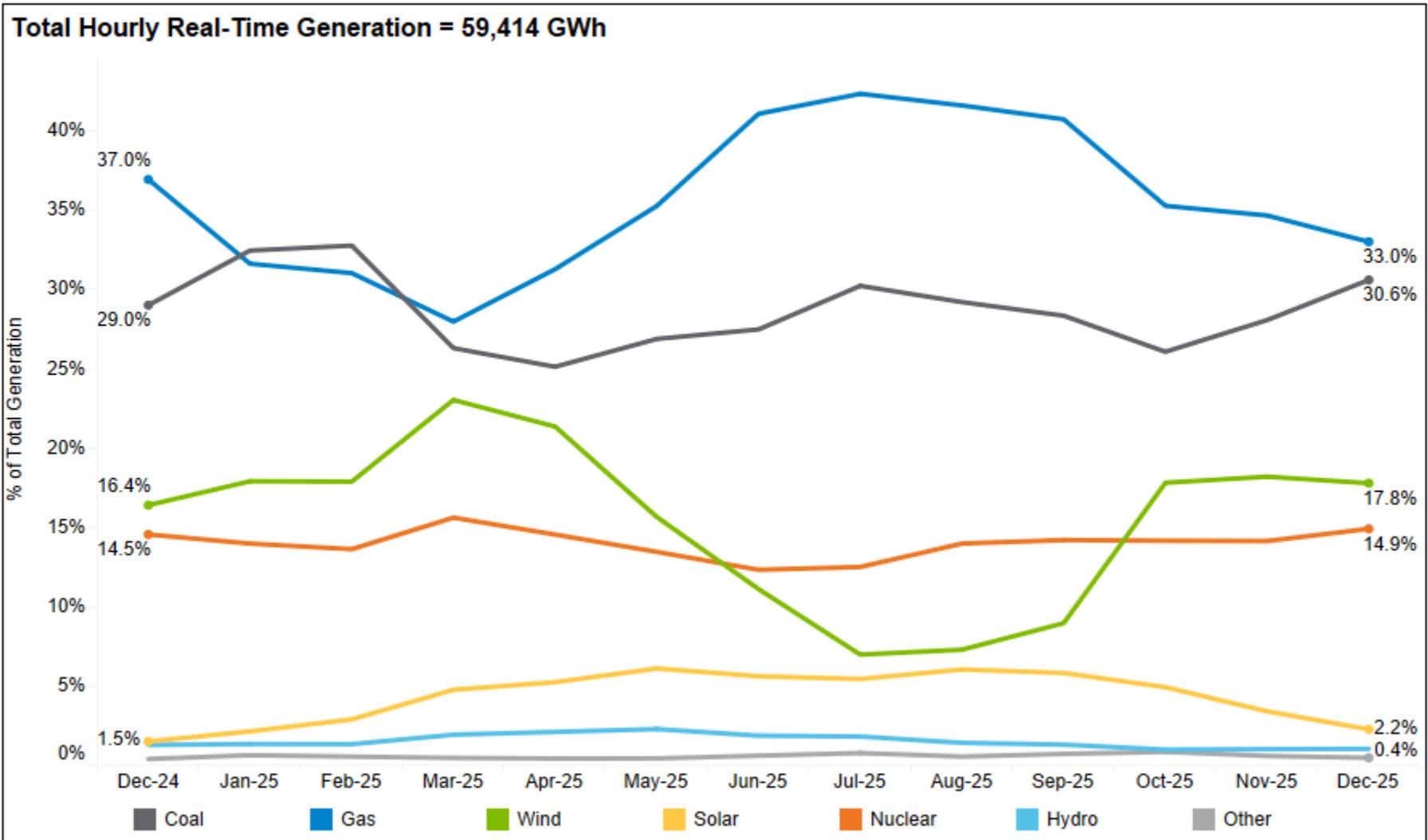


Marginal Fuel



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%.

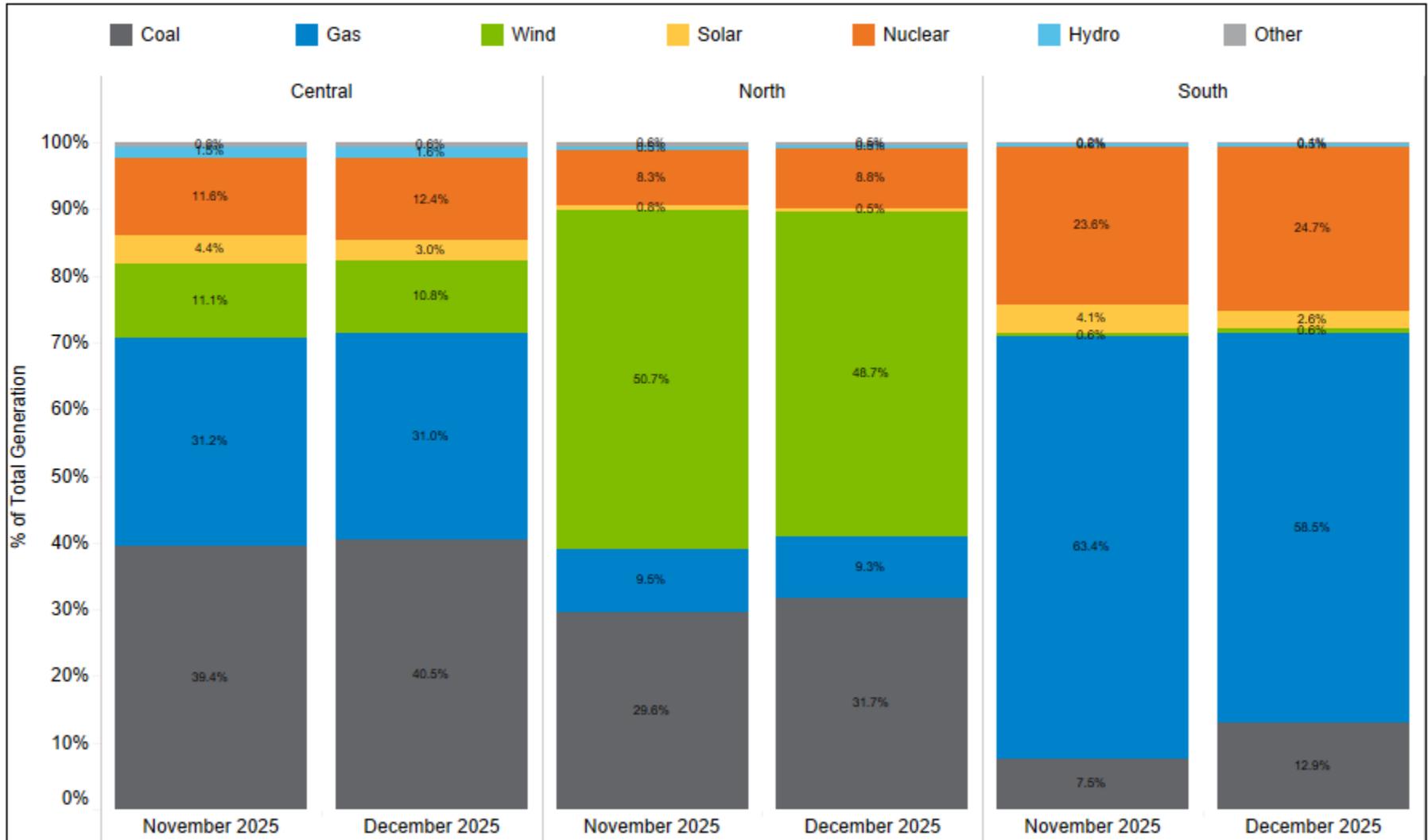
Real-Time Generation Fuel Mix



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



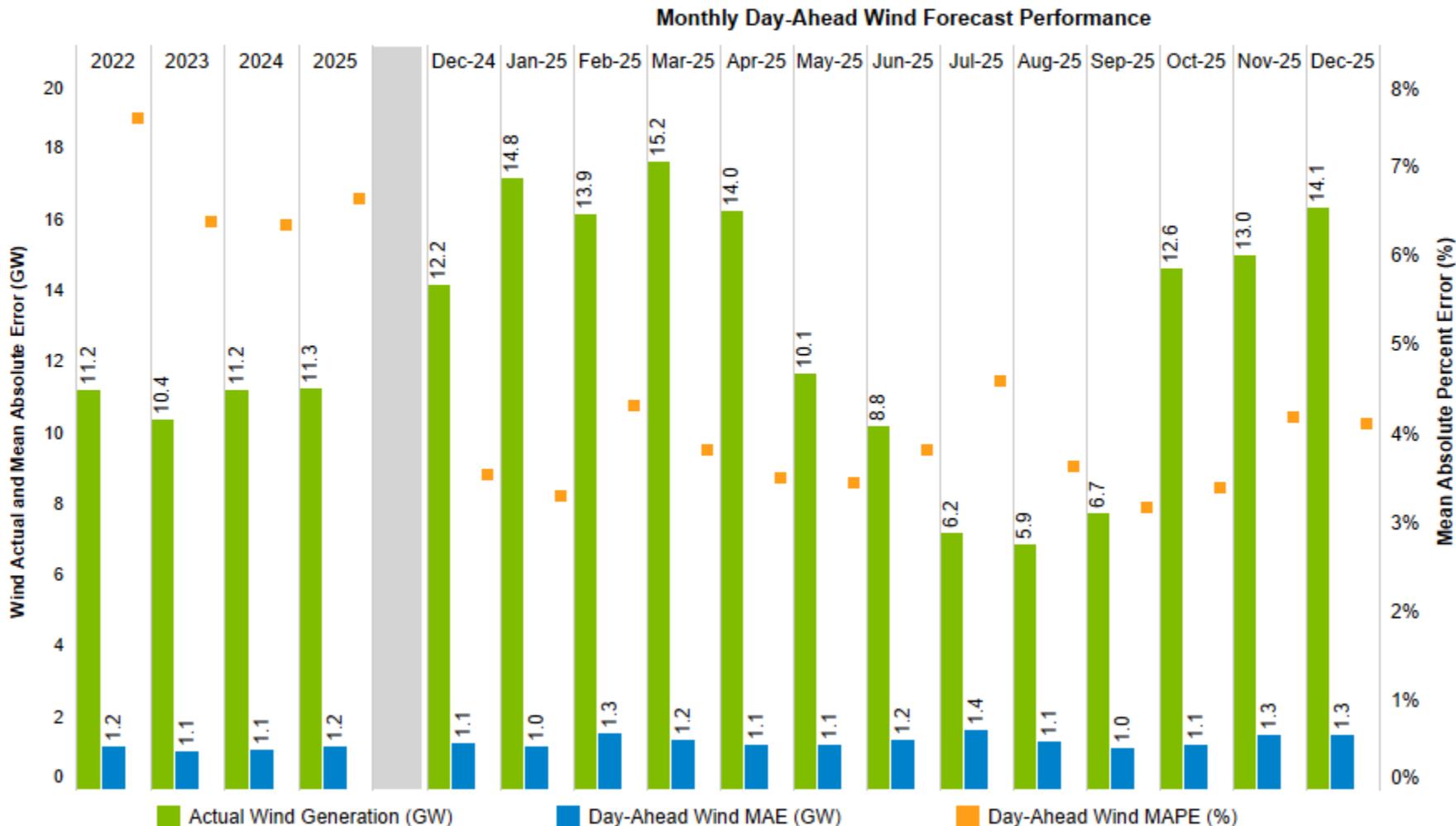
Based on hourly unit level state estimator data

Other includes: Battery, Oil, Pet Coke, Waste and Other fuels

Source: MISO Market and Operations Analytics Department

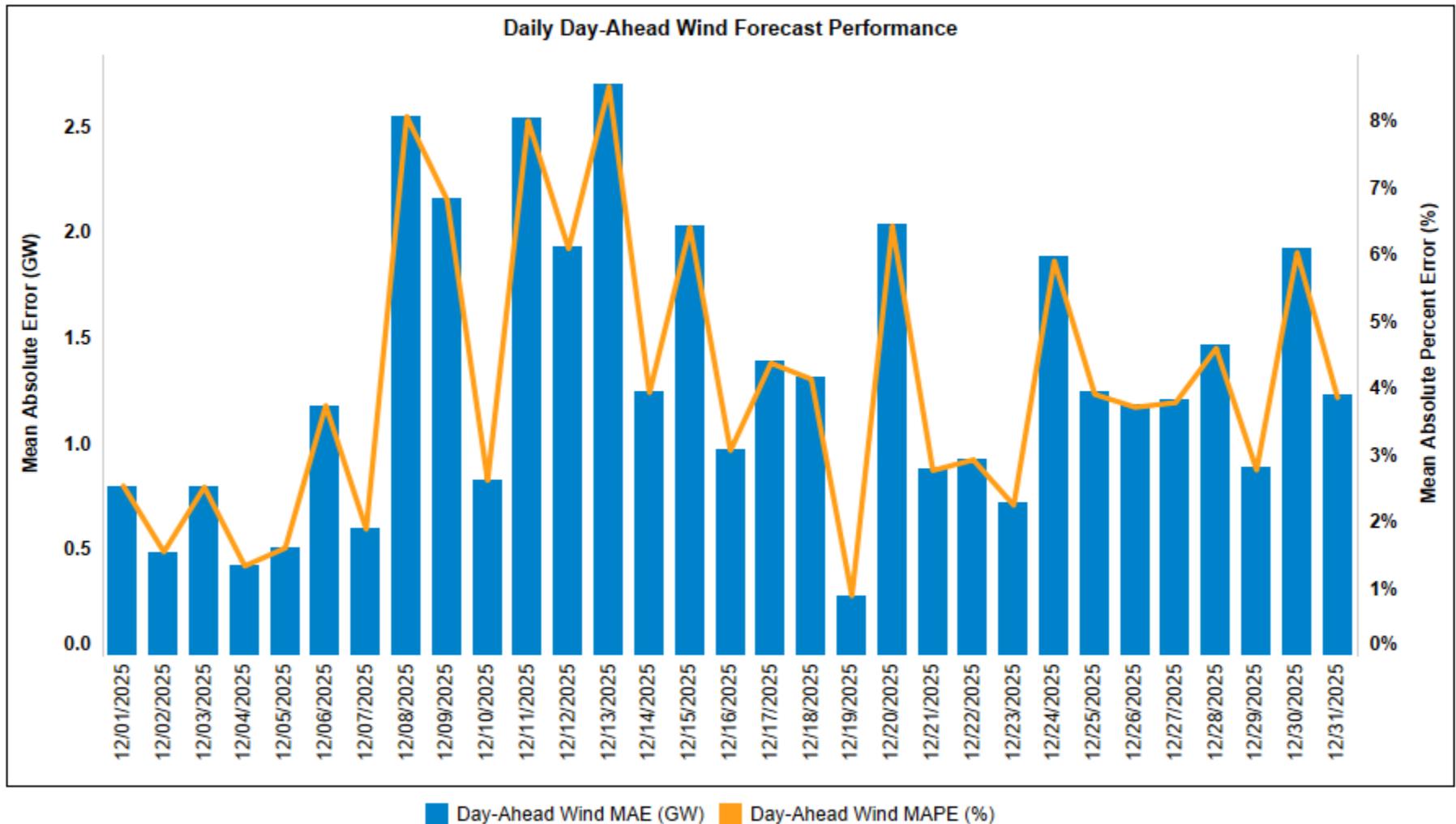


Monthly Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

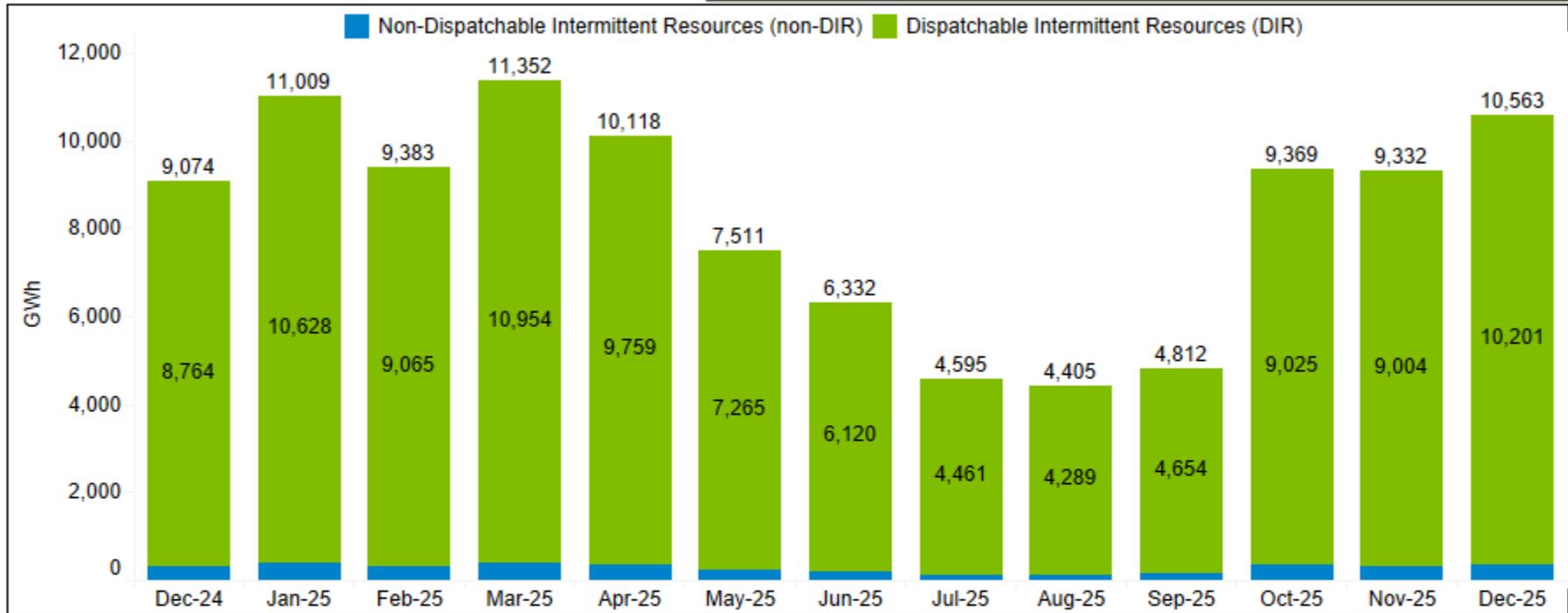
Daily Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

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



	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
Peak Wind Date and Hour Ending	12/4 11	1/28 21	2/28 22	3/23 15	4/28 19	5/16 21	6/21 15	7/5 1	8/8 7	9/5 6	10/21 13	11/26 13	12/28 24
Peak hourly wind output (MW)	24,044	25,218	24,646	24,172	23,582	22,803	21,086	15,404	15,824	20,284	22,614	23,562	25,841
Peak wind output as % of MISO load in that hour	28.7%	31.2%	34.1%	34.6%	28.6%	28.6%	19.3%	19.2%	19.4%	29.9%	29.8%	29.7%	35.8%
Wind Energy as a percent of MISO Energy	16.3%	18.2%	18.1%	23.2%	21.5%	15.6%	11.3%	7.3%	7.5%	9.2%	18.1%	18.2%	17.8%
DIR dispatch below Max as % of avail. DIR	2.3%	3.3%	2.0%	3.1%	4.3%	3.3%	3.3%	1.3%	2.6%	2.9%	2.9%	3.0%	2.7%

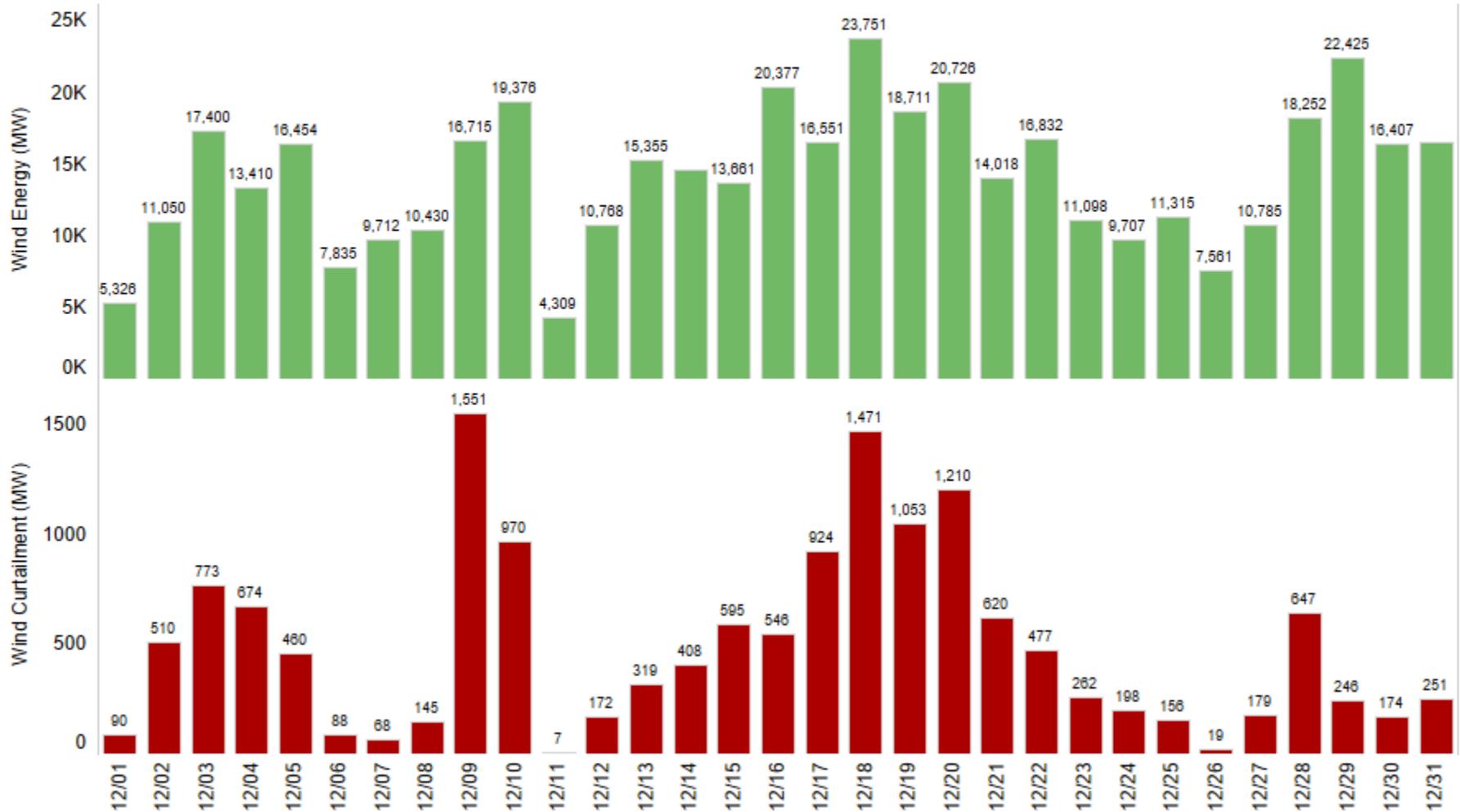
*Hourly State Estimator data

Source: MISO Market and Operations Analytics Department



Daily Average Wind Energy and Curtailment

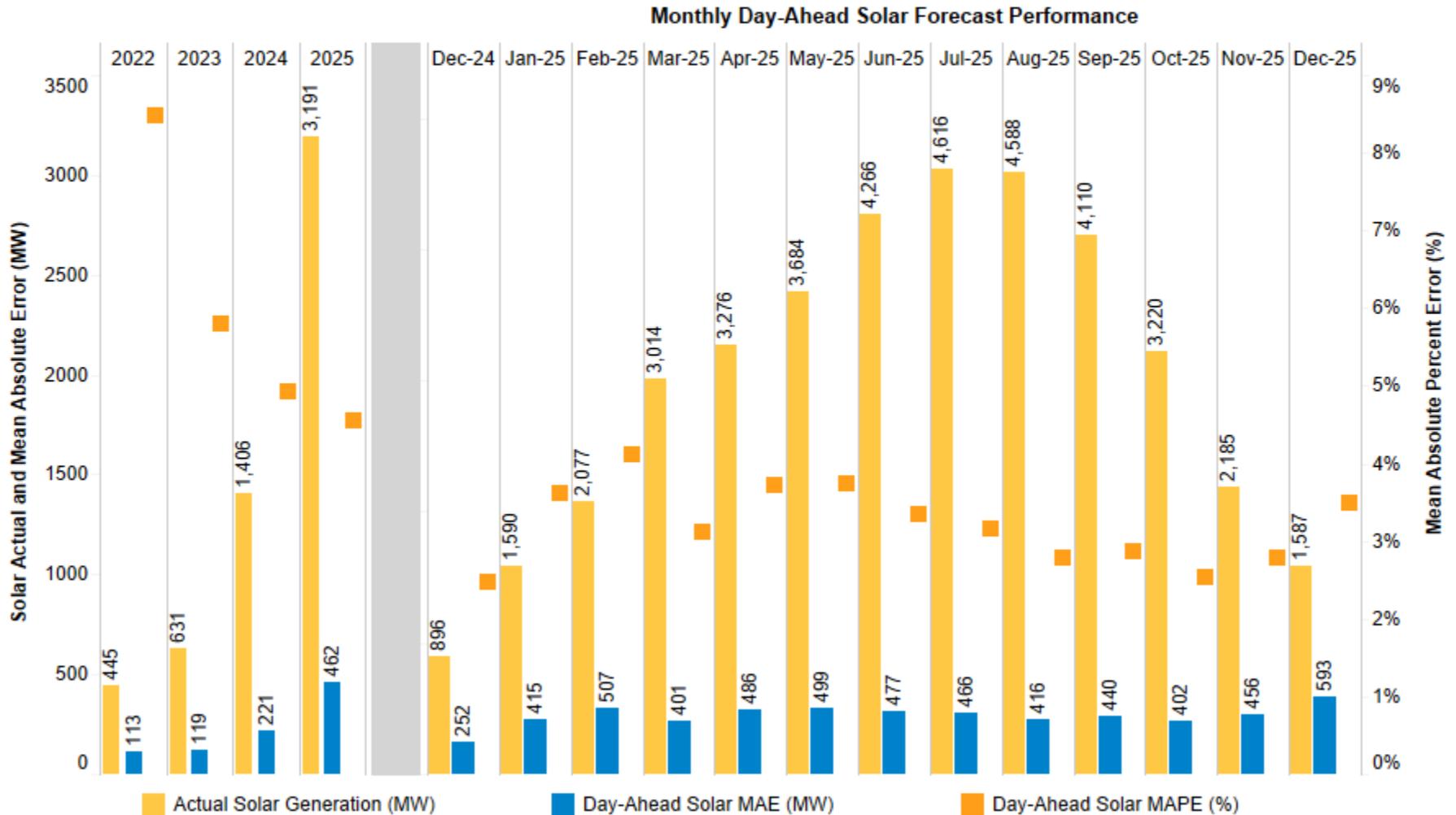
Daily Wind Energy (MW)



Source: MISO Market and Operations Analytics Department

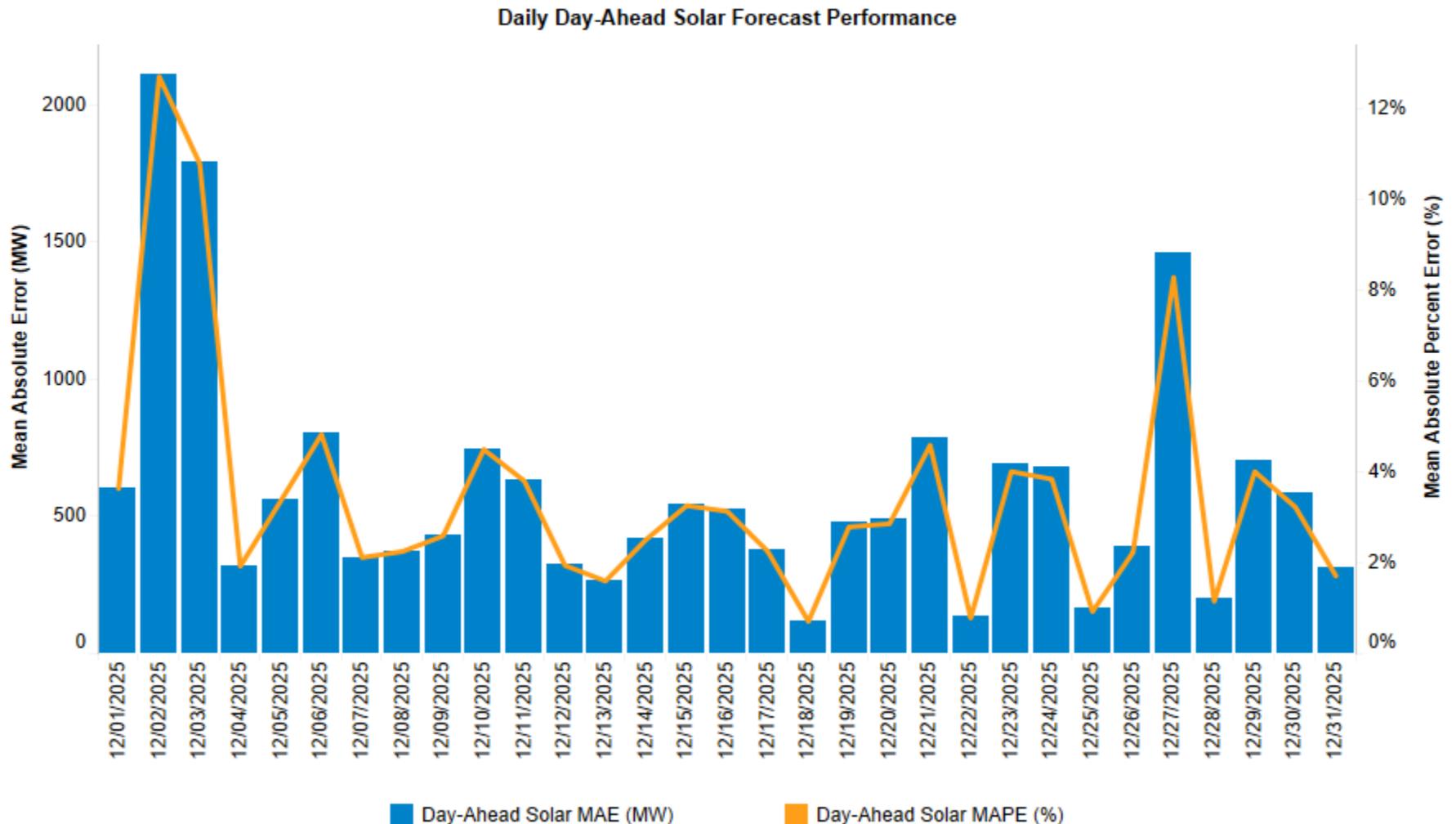


Monthly Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

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

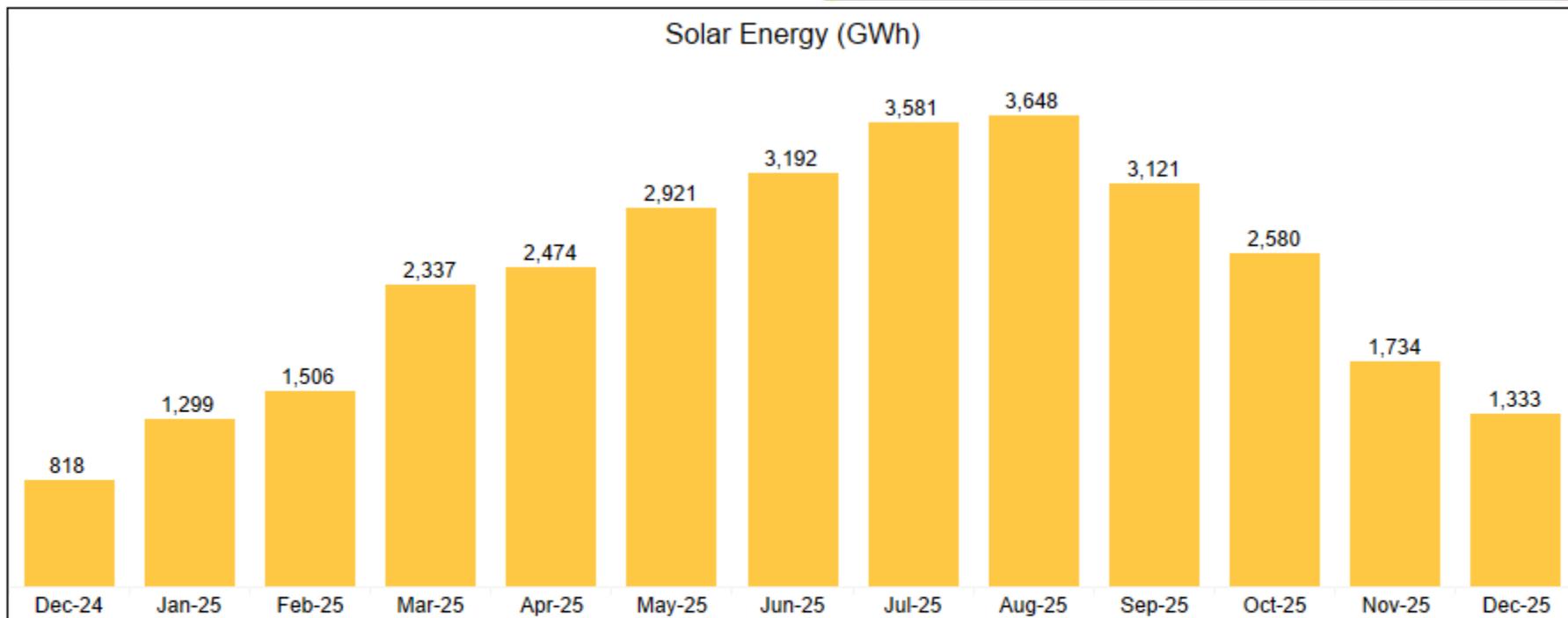


Source: MISO Operations Risk Management

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)



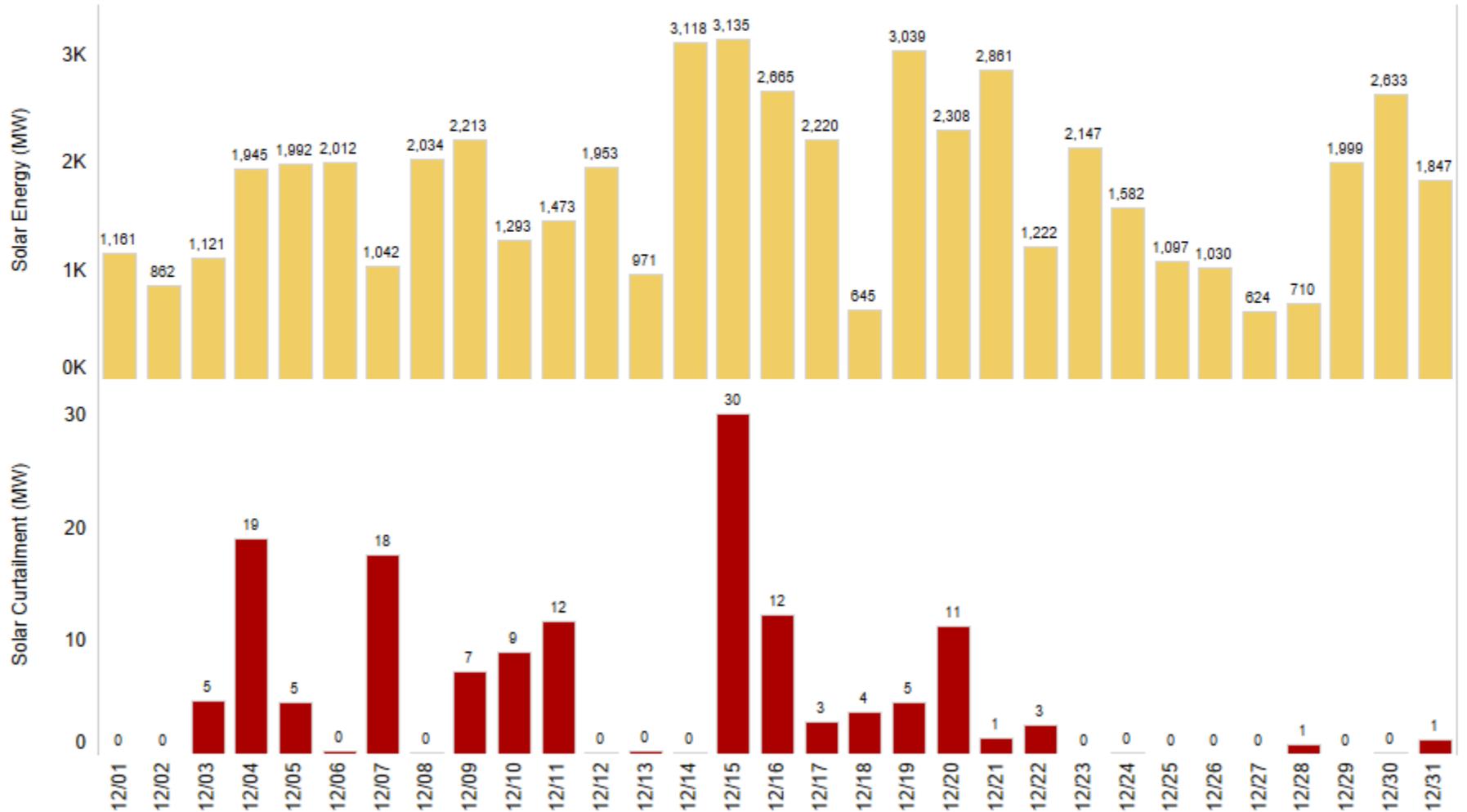
Peak Solar Date and Hour Ending	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
	12/21 12	1/20 12	2/21 12	3/22 15	4/16 14	5/31 13	6/22 11	7/1 12	8/3 11	9/7 11	10/9 15	11/3 16	12/14 15
Peak Hour Solar Output (MW)	6,898	8,308	11,360	12,061	12,342	13,366	12,872	13,129	13,821	14,315	13,673	12,914	11,036
Peak Solar Output as a % of MISO Load in that hour	8.7%	8.4%	12.4%	18.8%	18.0%	19.2%	12.9%	13.3%	18.6%	22.2%	17.9%	18.3%	12.7%
Solar Energy as a % of MISO Energy	2.0%	2.6%	3.5%	6.0%	5.4%	6.0%	6.0%	5.5%	6.3%	6.2%	5.4%	3.6%	3.5%
DIR Dispatch below MAX as a % of avail. DIR	-3.1%	-1.9%	0.1%	1.1%	0.5%	-0.1%	-0.1%	-0.4%	-0.1%	0.8%	1.5%	0.7%	1.0%

*Hourly State Estimator data
 Source: MISO Forecast Department



Daily Average Solar Energy and Curtailment

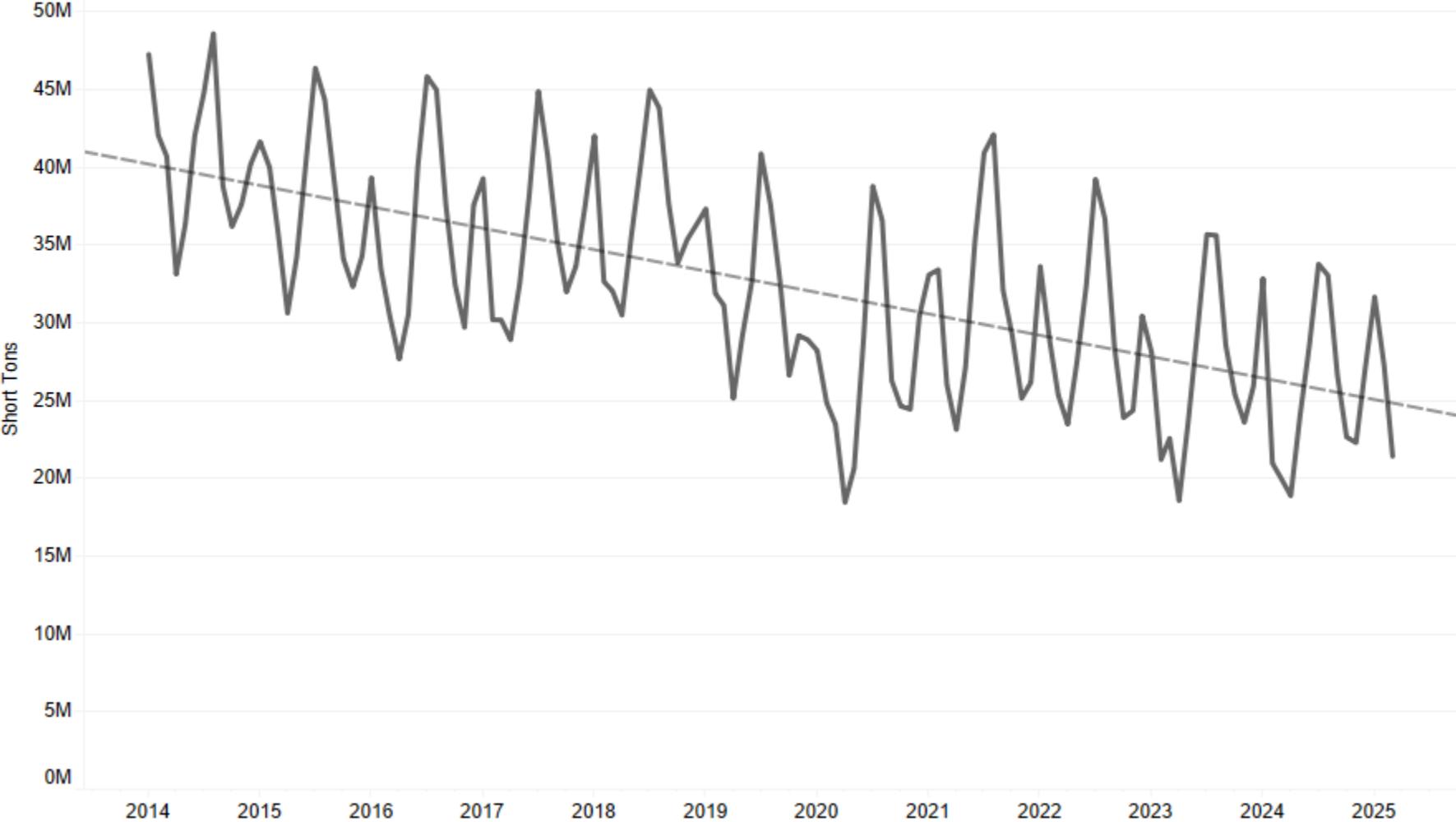
Daily Solar Energy (MW)



Source: MISO Market and Operations Analytics Department



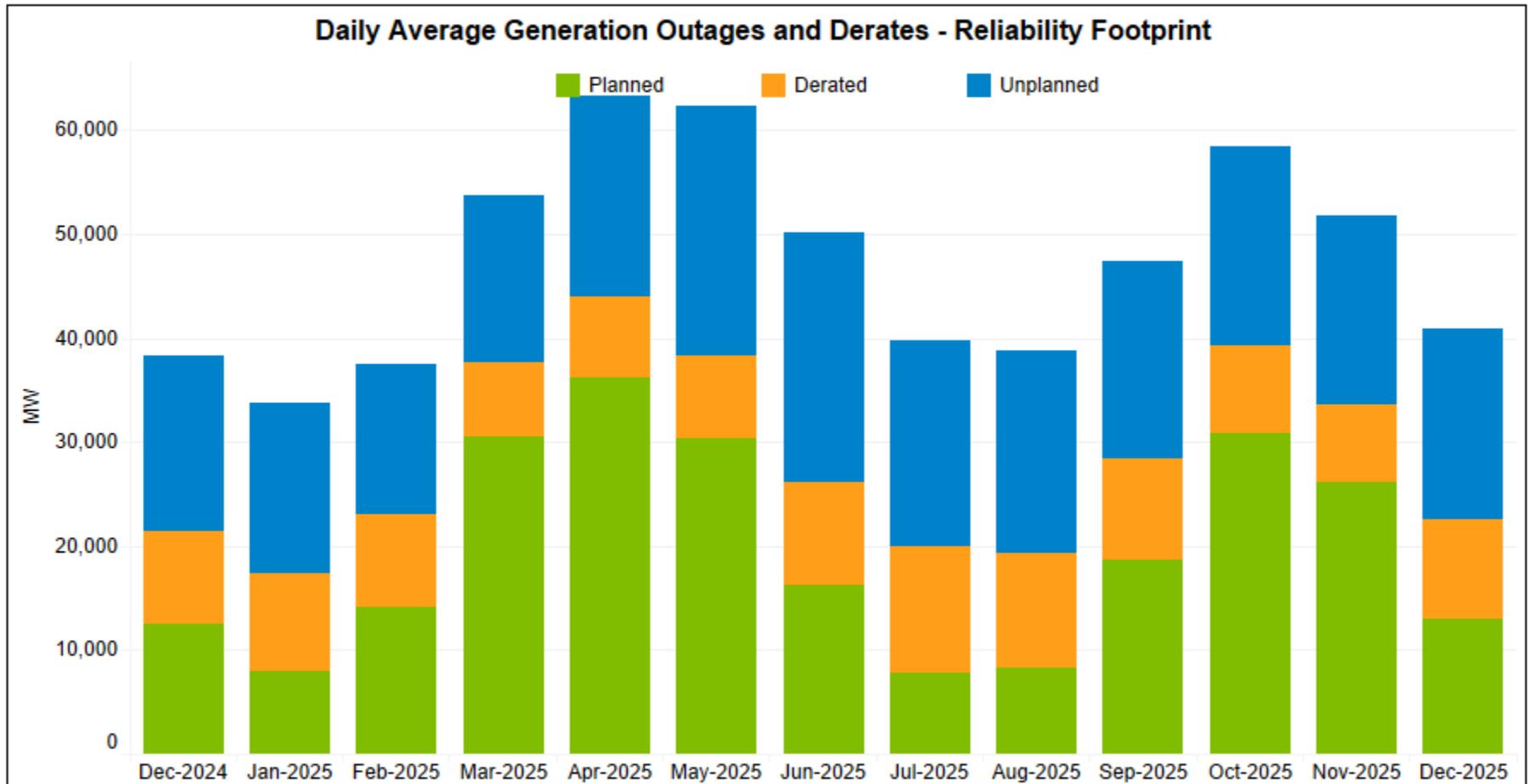
Carbon Emissions



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:

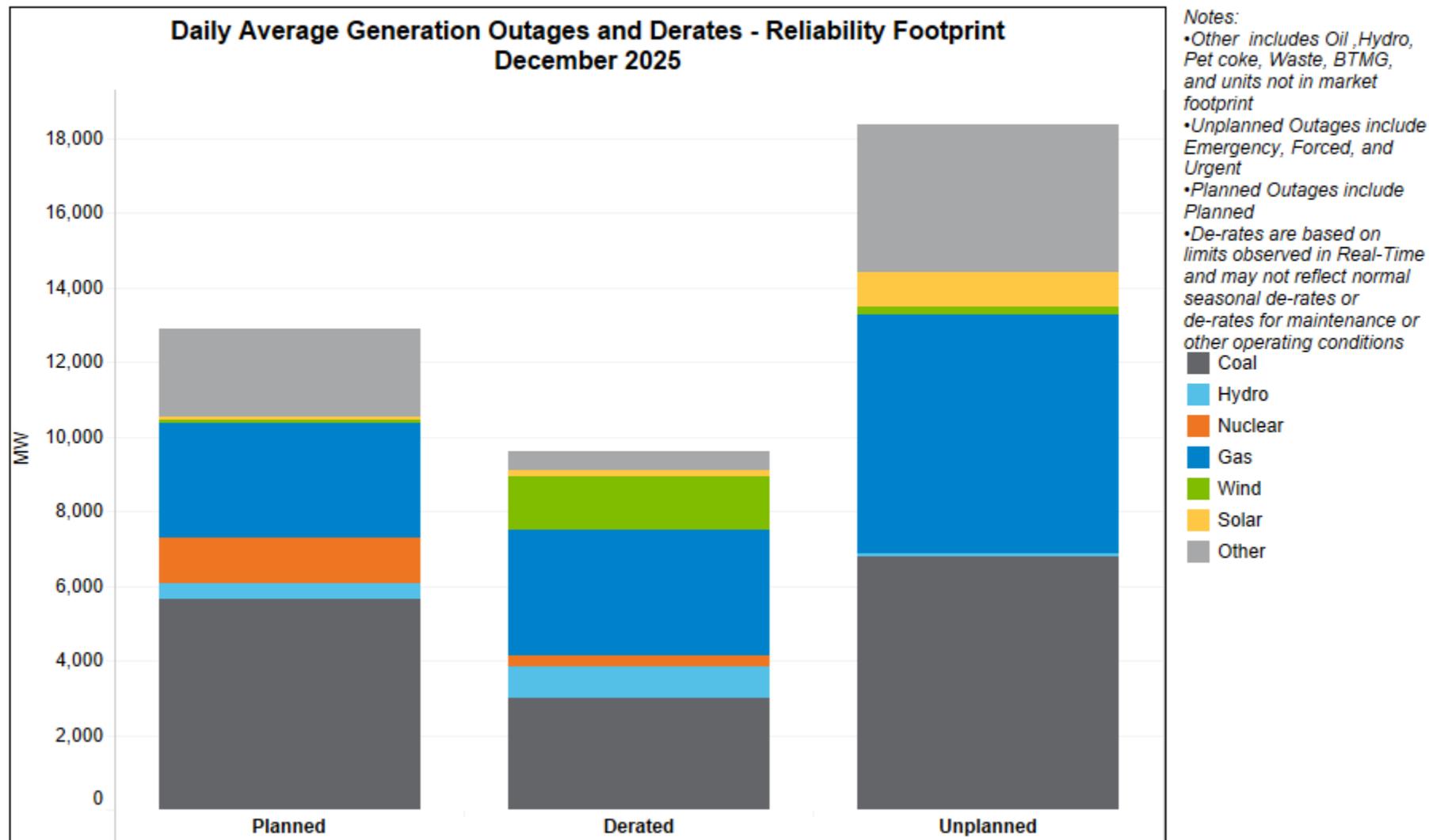
- Unplanned Outages include Emergency, Forced, and Urgent
- Planned Outages include Planned
- De-rates are based on limits observed in Real-Time and may not reflect normal seasonal de-rates or de-rates for maintenance or other operating conditions

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



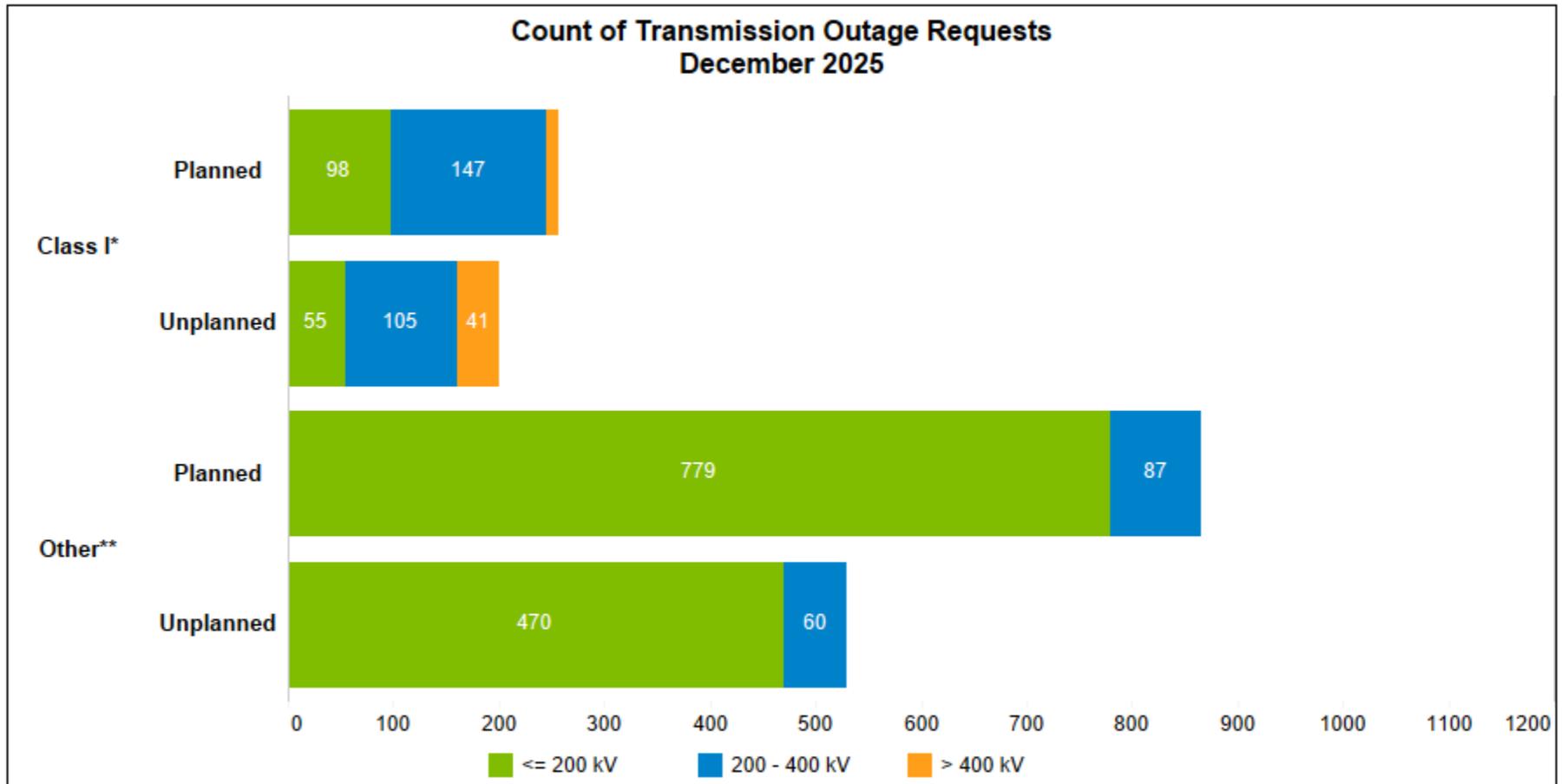
Generation Outages by Fuel



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

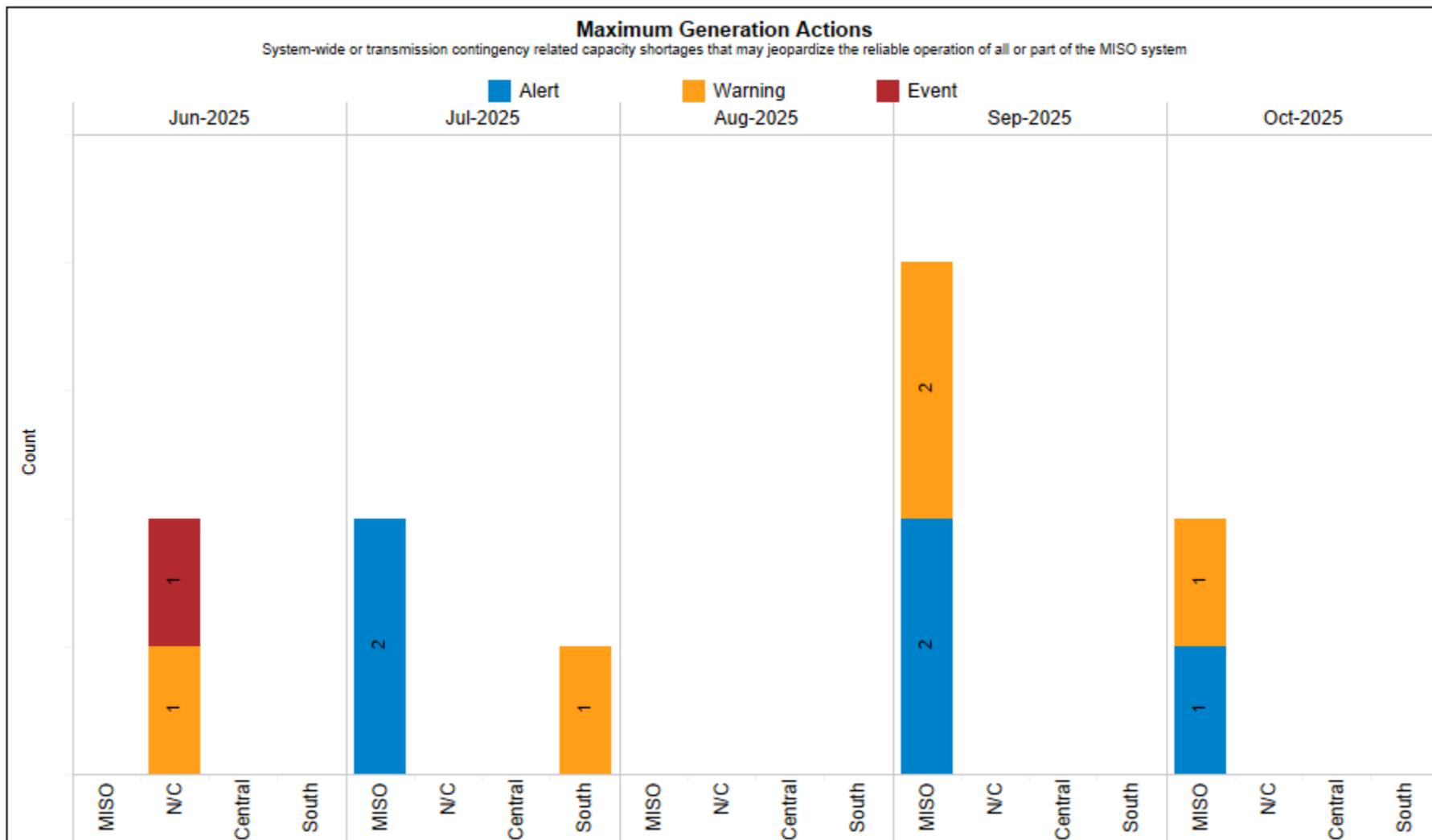


MISO Inadvertent Balance

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	23,852	17,127	6,725
3/1/2025	7,992	6,344	1,648
4/1/2025	22,512	14,664	7,848
5/1/2025	17,582	13,320	4,262
6/1/2025	9,239	6,344	2,895
7/1/2025	14,390	7,661	6,729
8/1/2025	-3,938	-5,525	1,587
9/1/2025	5,618	1,997	3,621
10/1/2025	23,968	9,295	14,673
11/1/2025			
12/1/2025			
Running Total from 2024	-84,981	-15,936	-69,045

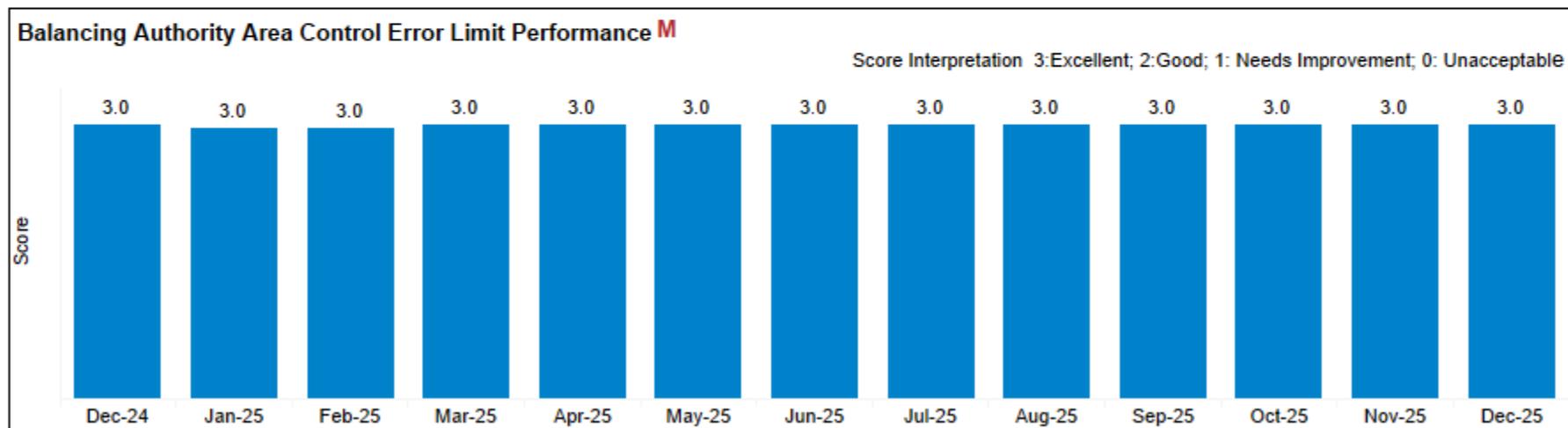
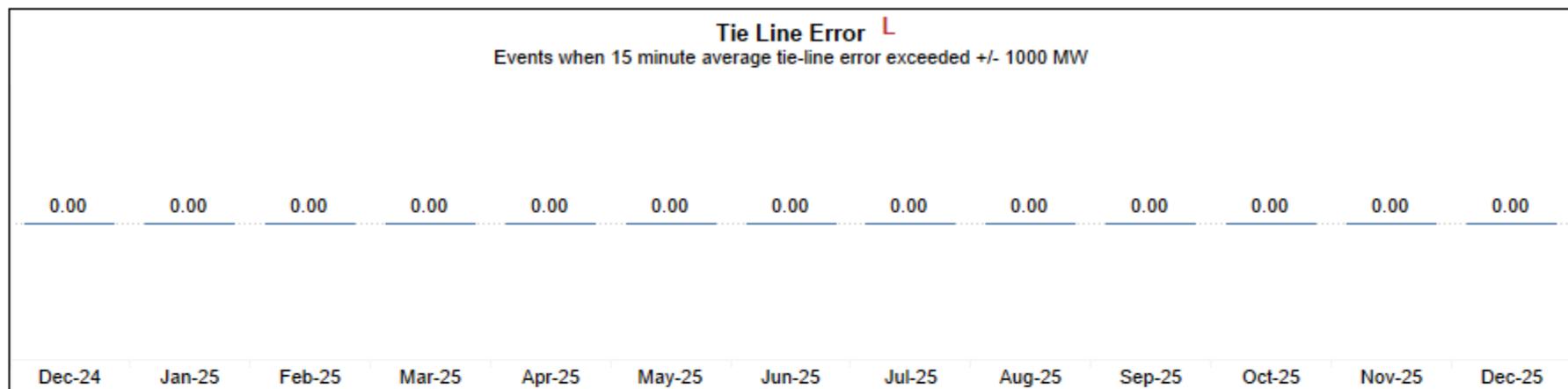
Source: NERC Tool (As of November 30, 2025)

Generation Notifications



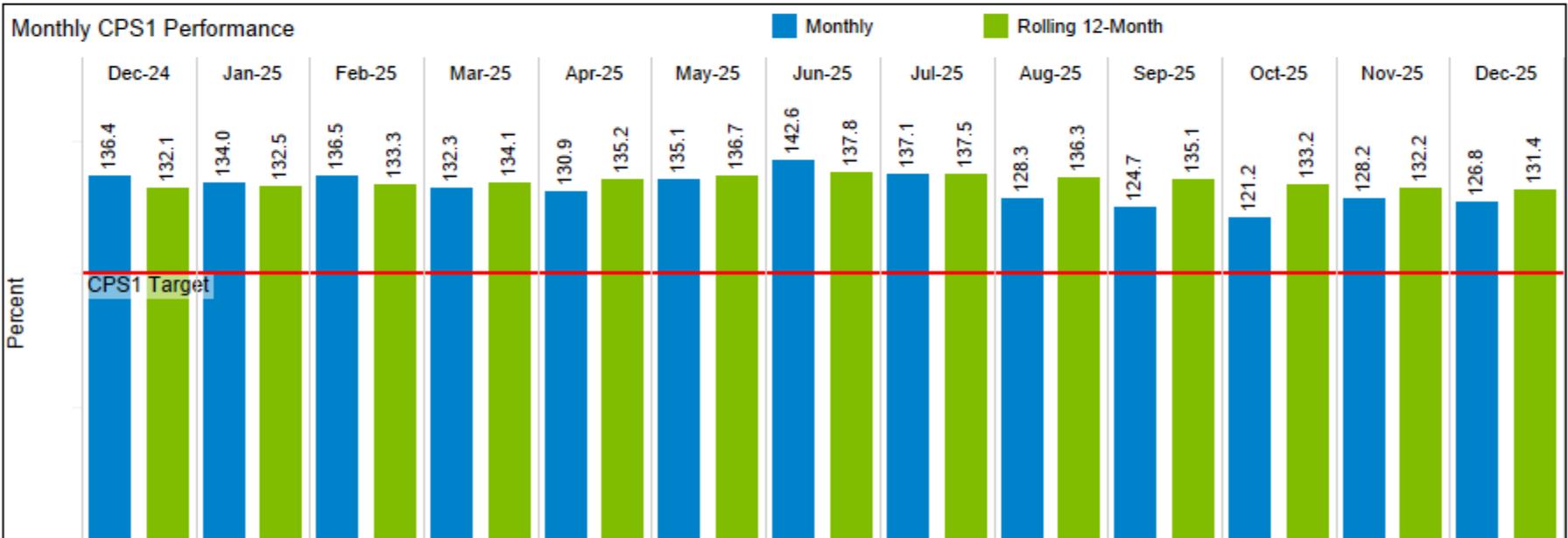
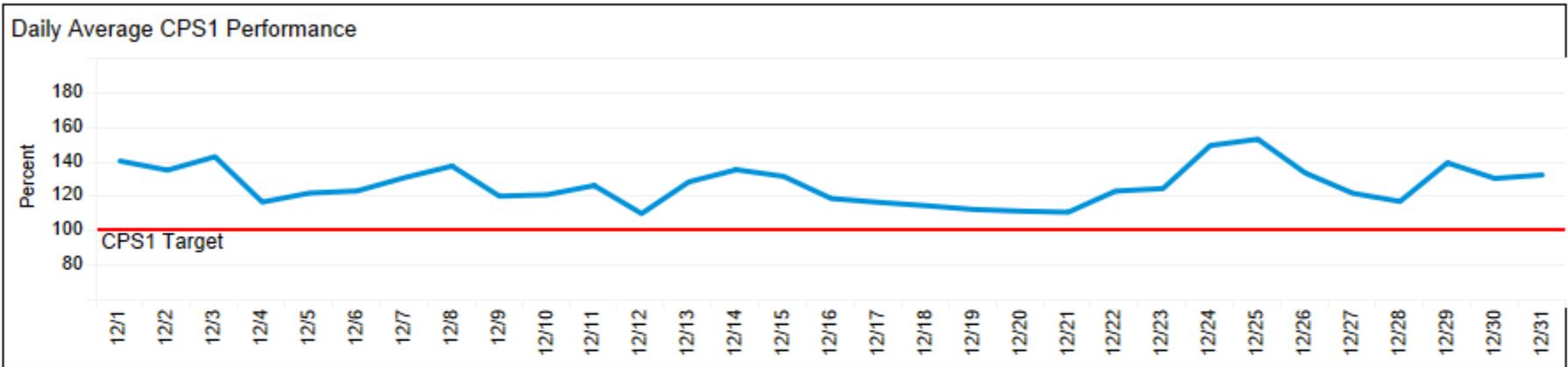
- * Alerts – forecasting specific emergency situations in a future time-frame
- * Warnings – experiencing initial stages of an emergency situation and taking action
- * Events – experiencing an emergency situation and taking action

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.

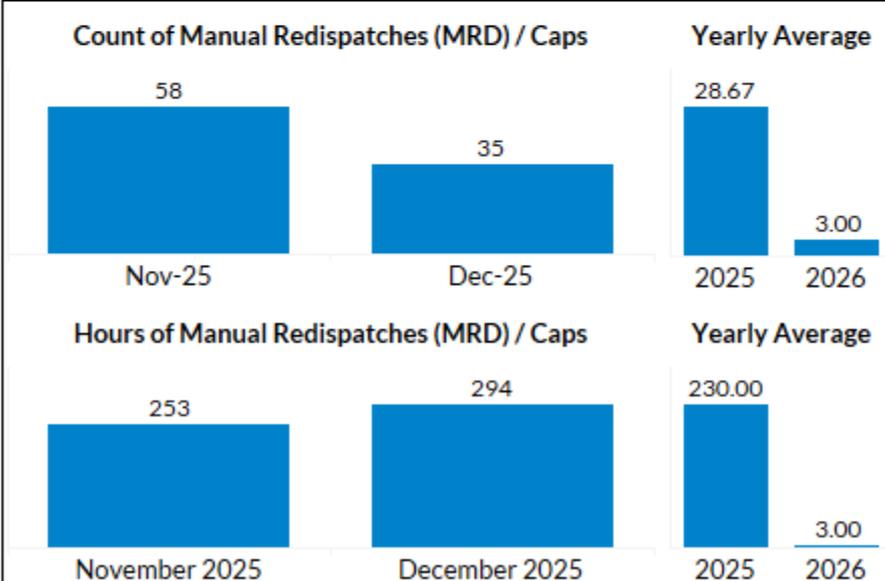
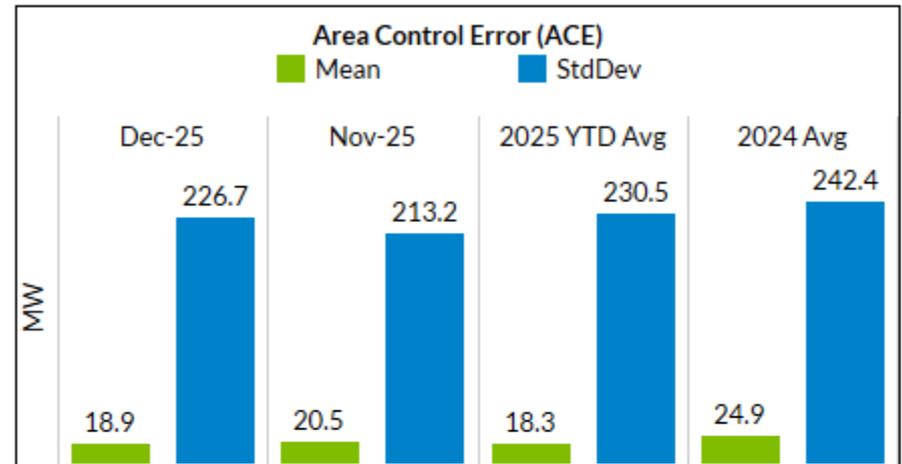
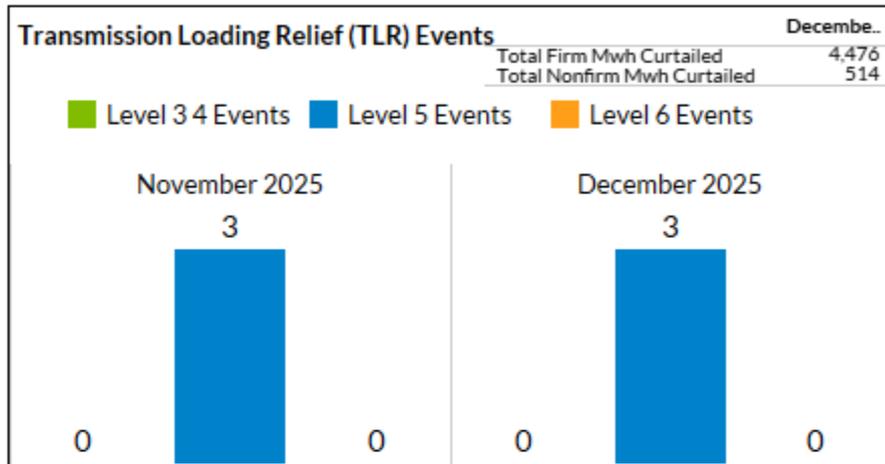
CPS1 Performance



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



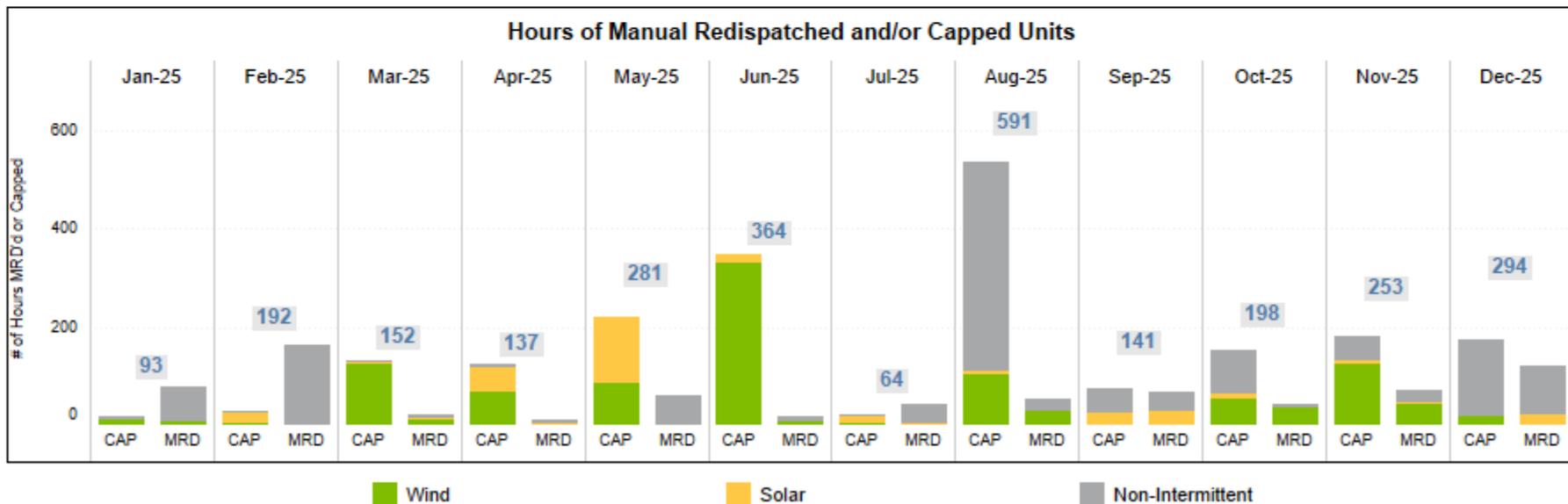
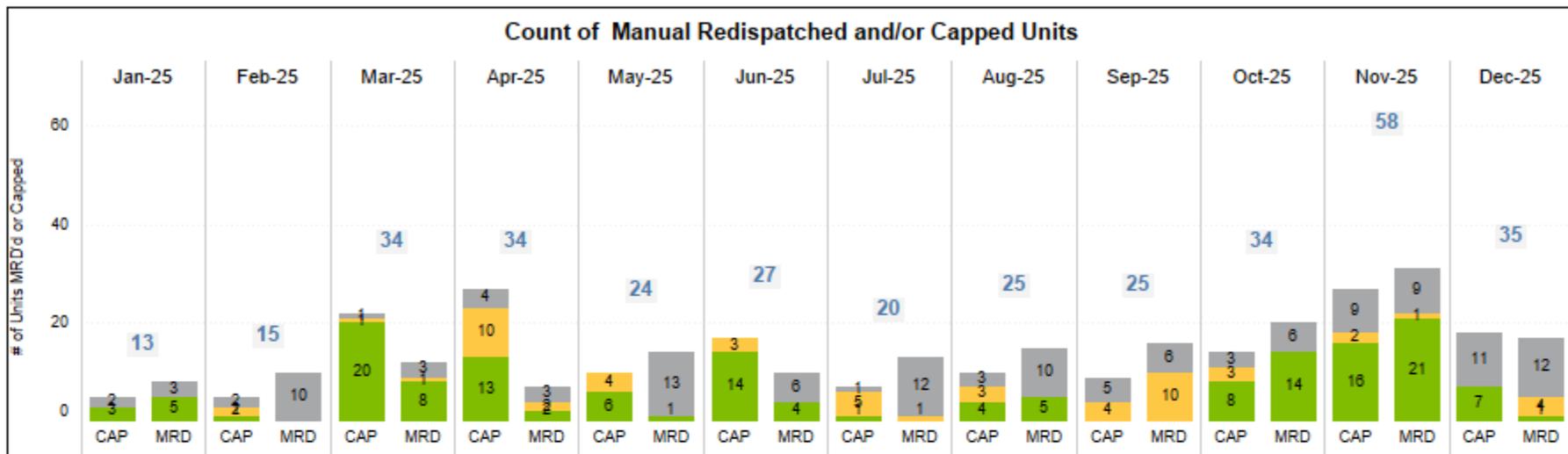
Reliability – Other Metrics



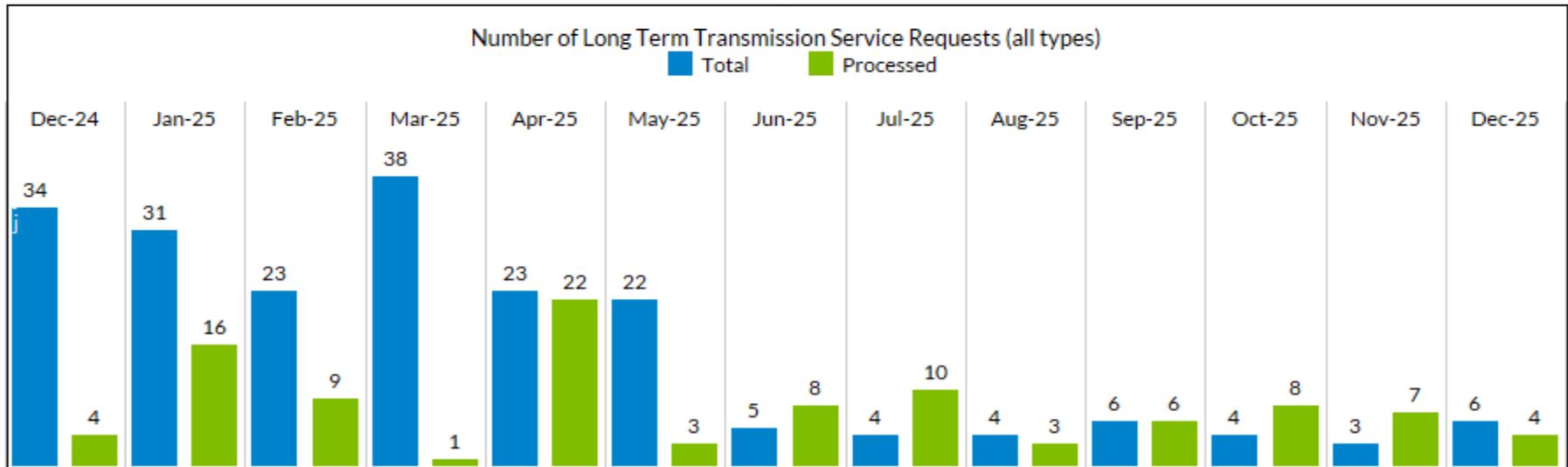
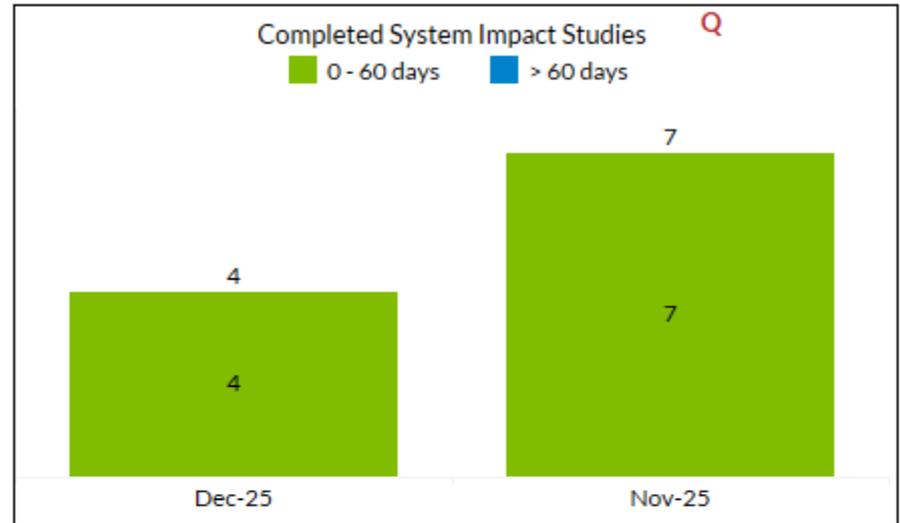
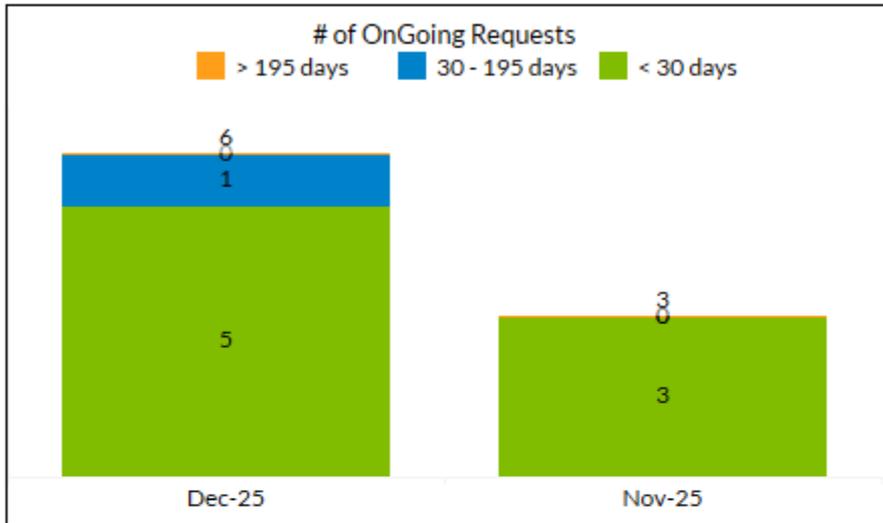
MISO deployed Contingency Reserves **

Source: MISO Real-Time Operations Department

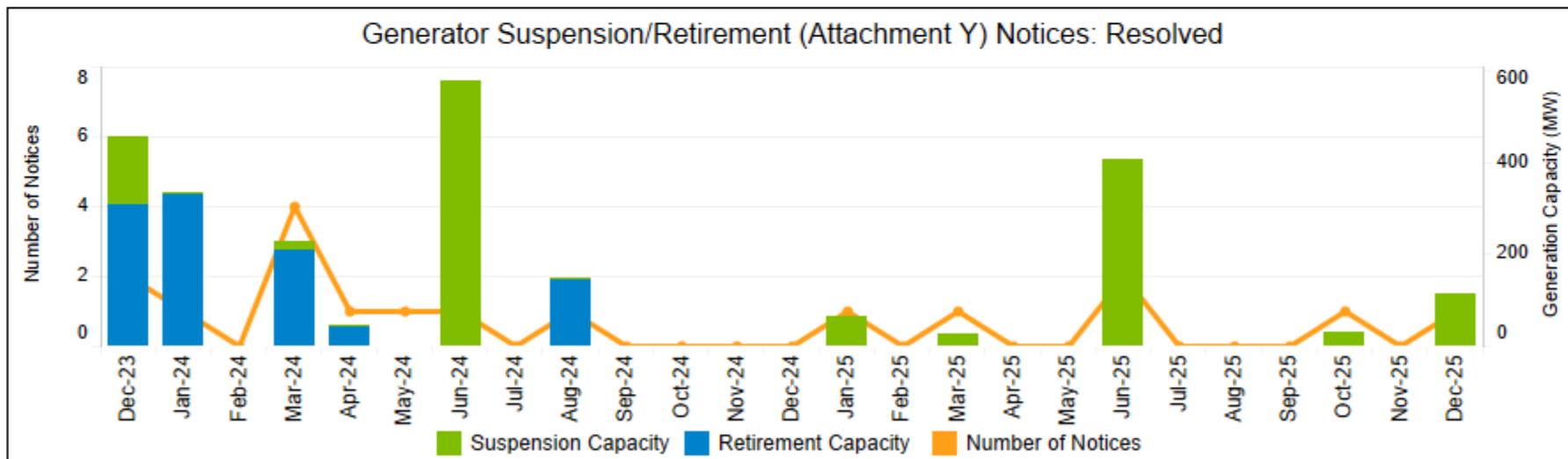
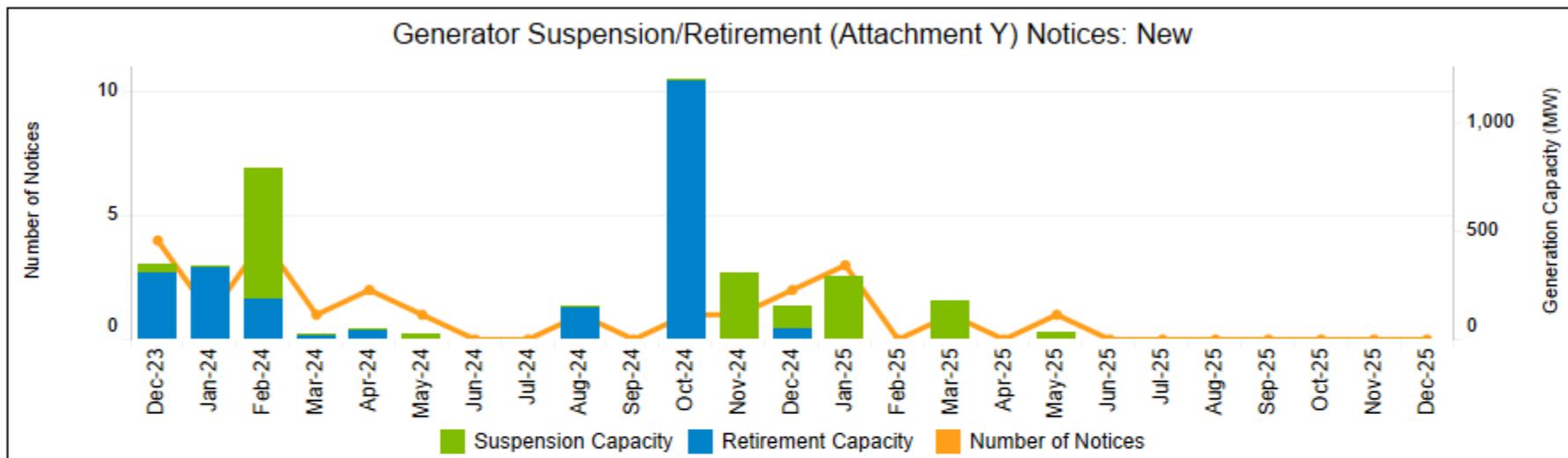
Operator Actions - Manual Redispatch and Caps



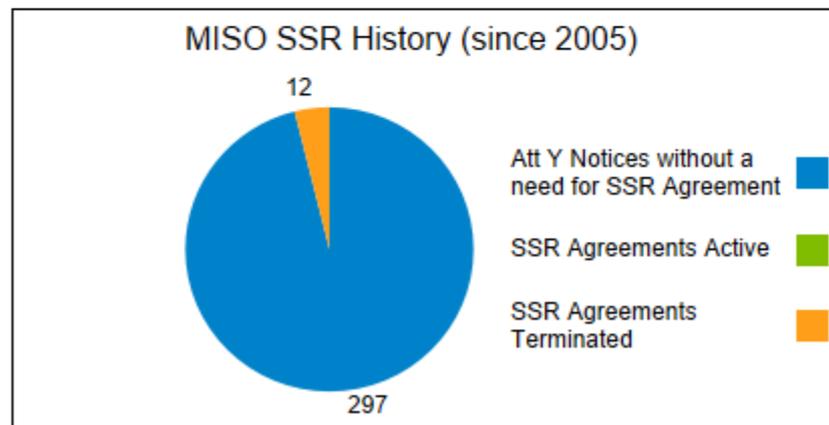
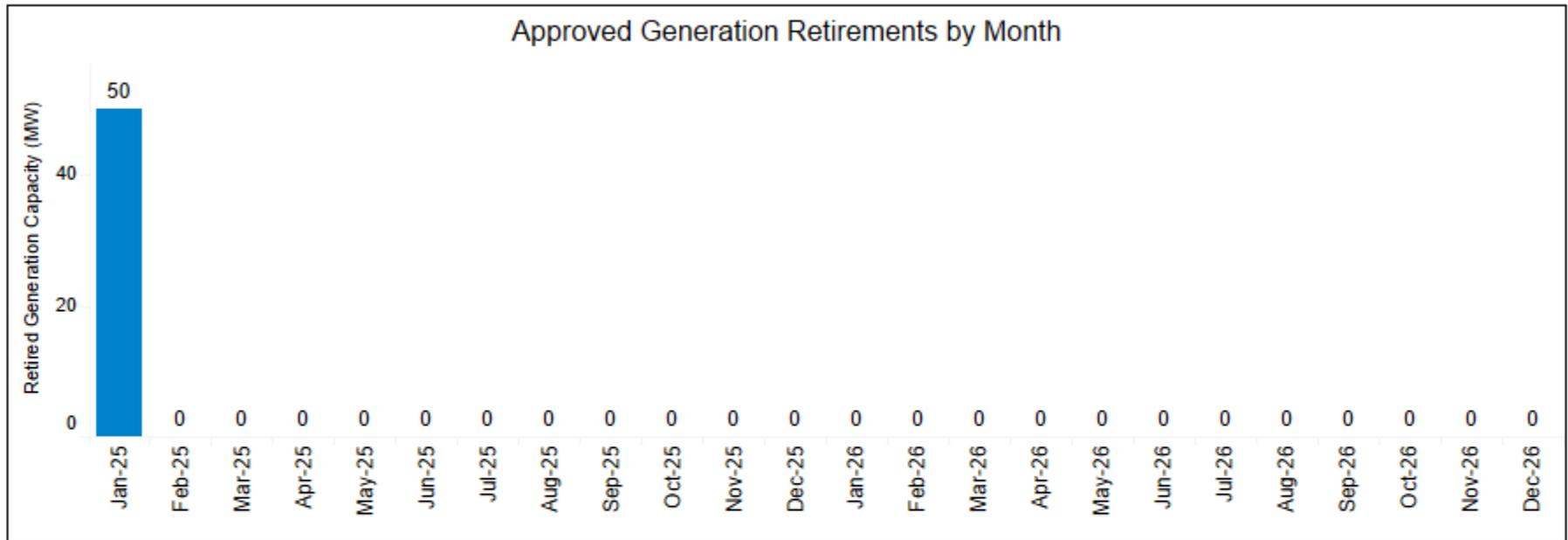
Transmission Service Request



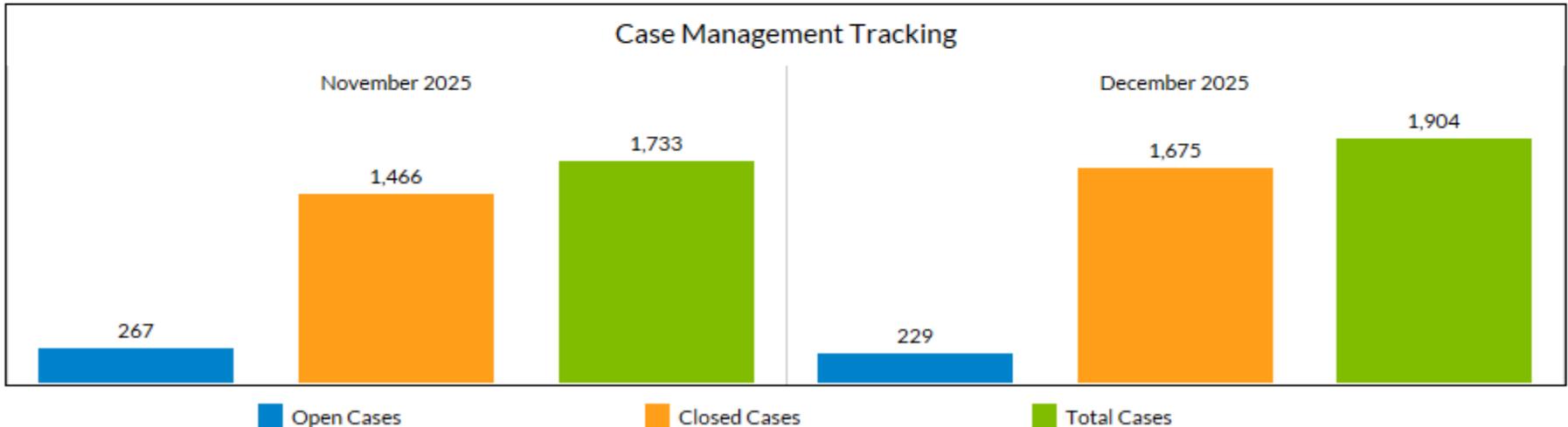
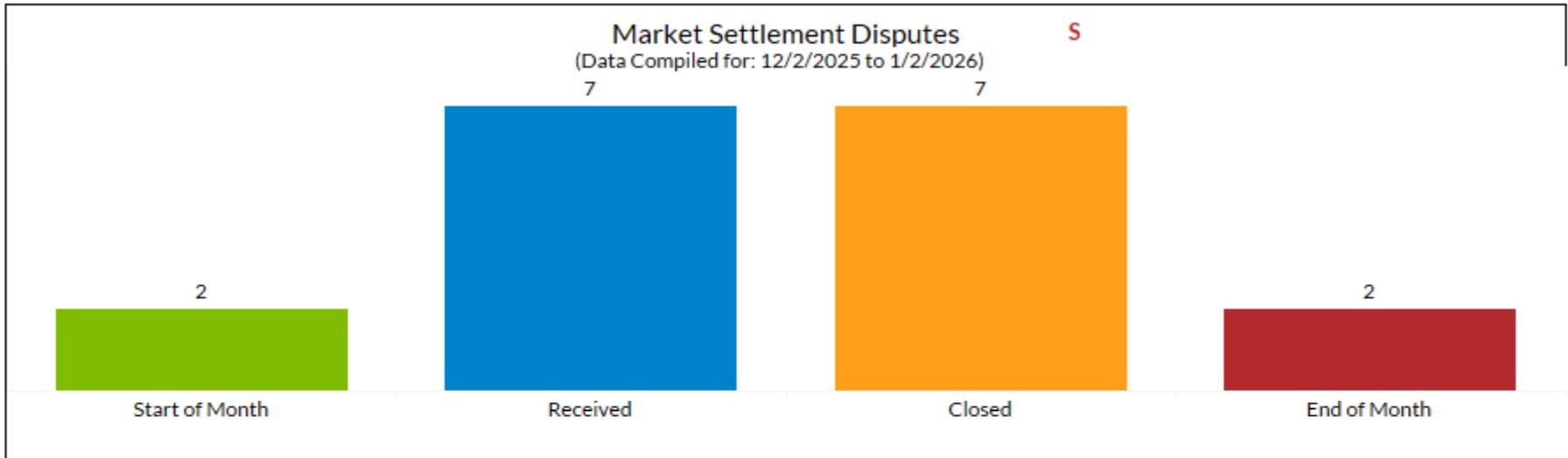
Generator Suspension/Retirement - New and Resolved



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

The Technology Committee reviews the performance requirements for system availability, and the results are evaluated in the Human Resources Committee

2025 Metrics

Short-Term Incentive Metrics	JAN25	FEB25	MAR25	APR25	MAY25	JUNE25	JULY25	AUG25	SEPT25	OCT25	NOV25	DEC25	YTD	Threshold Target Excellent
Critical Systems Availability (Downtime in Hours)	0	0	1.5	0	0	0.1	0	0	0	0	0	0	1.6	4 Hours 3 Hours 2 Hours
Number of Critical System Incidents Exceeding 30 Minutes	0	0	1	0	0	0	0	0	0	0	0	0	1	2 1 0

Other Availability Metrics	JAN25	FEB25	MAR25	APR25	MAY25	JUNE25	JULY25	AUG25	SEPT25	OCT25	NOV25	DEC25	Monthly Target
ICCP (Availability %)	100	100	100	100	100	100	100	100	100	100	100	100	99.5
Customer Facing Applications - Portals (Availability Index)	10	10	10	9	10	10	9	10	10	10	10	10	10 of 10
Markets (Availability Index)	4	4	4	4	4	4	4	4	4	4	4	4	4 of 4
Reliability Targets (Availability Index)	3	3	3	3	3	3	3	3	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 <=28.6%	Absolute DA-RT price difference divided by DA LMP is >28.6% but <=34.3%	Absolute DA-RT price difference divided by DA LMP >34.3%	Unit Commitment Efficiency*	H	>=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	>=95%	>=93% but <95%	<93%
FTR Funding	C	Monthly FTR Allocation % is >=92% and YTD FTR Allocation % is >=96%	Not in good status AND Monthly FTR Allocation % is >=87% AND Rolling 12-month FTR Allocation % is >=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% <= 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	>= 95%		<95%	Day Ahead Solar Generation Forecast Error	T	# of days that the hourly average forecast error exceeds 10% <= 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	<=0.38%	>0.38% and <=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% <=6 AND # days that forecast error exceeds 4% <=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				
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..*

