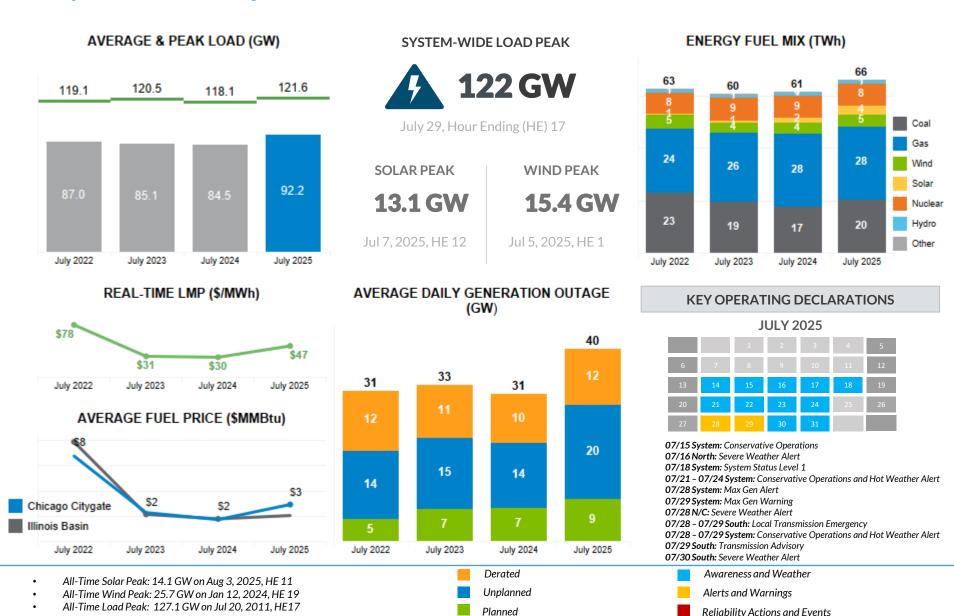


### MISO Monthly Operations Report

**July 2025** 

## Reliability, markets and operational functions performed as expected in July



#### **Dashboard**

Metric	Chart	July 2025	Jun ′25	May '25	Apr ′25	Metric	Chart	July 2025	Jun ′25	May '25	Apr ′25
Market Efficiency Metric	D	•	•	•	•	Unit Commitment Efficiency	Н	•	•	•	•
Percentage Price Deviation	А	<b>V</b>	•	•	•	Day Ahead Wind Generation Forecast Error	К	•	•	•	•
Monthly Average Gross Virtual Profitability	В	•	•	•	•	Day-Ahead Solar Generation Forecast Error	Т	•	•	•	•
FTR Funding	С	•	•	•	•	<u>Tie Line Error</u>	L	•	•	•	•
RSG per MWh to Energy Price	Е	•	•	•	•	Control Performance - BAAL	М	•	•	•	•
Day Ahead Mid-Term Load Forecast	F	•	•	•	<b>V</b>	Control Performance – CPS1 and CPS1 12-month rolling	N	•	•	•	•
Short-Term Load Forecast	G	•	•	•	•	ARS Deployment	Р	•	•	•	•
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	Absolute DA-RT price difference divided by DA LMP <=28.6%	37.0%	Review	Periods of congestion, especially on July 28th and July 30th, and Real-Time ancillary service product scarcity pricing throughout the month resulted in some price divergence between the Day-Ahead and Real-Time markets.



### Appendix

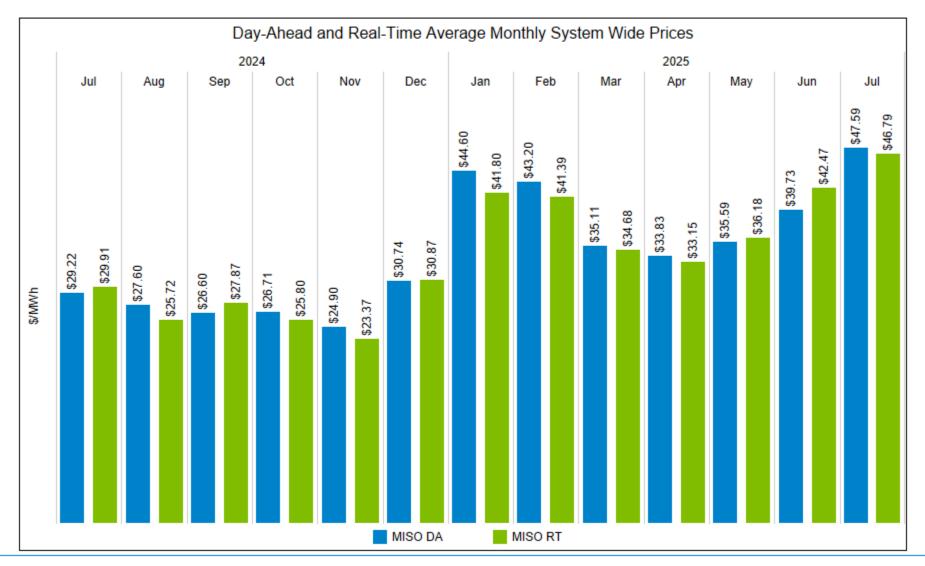


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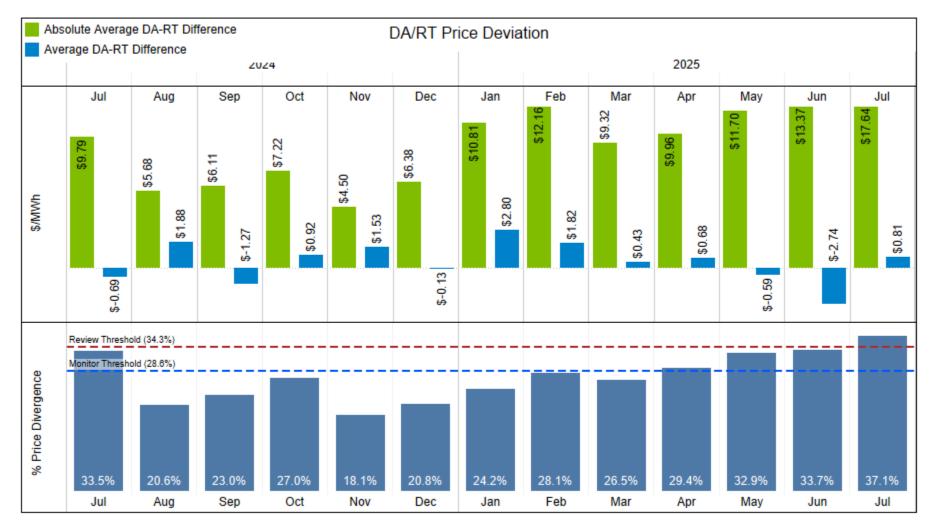


#### MISO System-wide Day-Ahead and Real-Time Locational Marginal Pricing





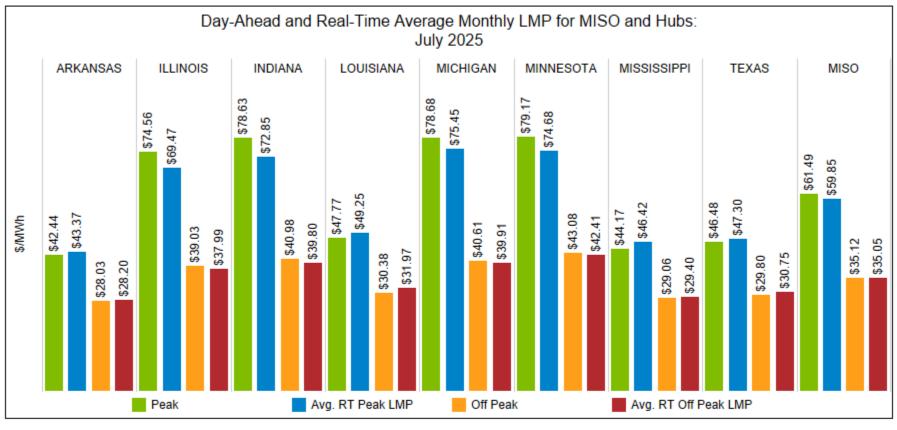
# Price Convergence: Day-Ahead and Real-Time Locational Marginal Pricing



<sup>\*</sup>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



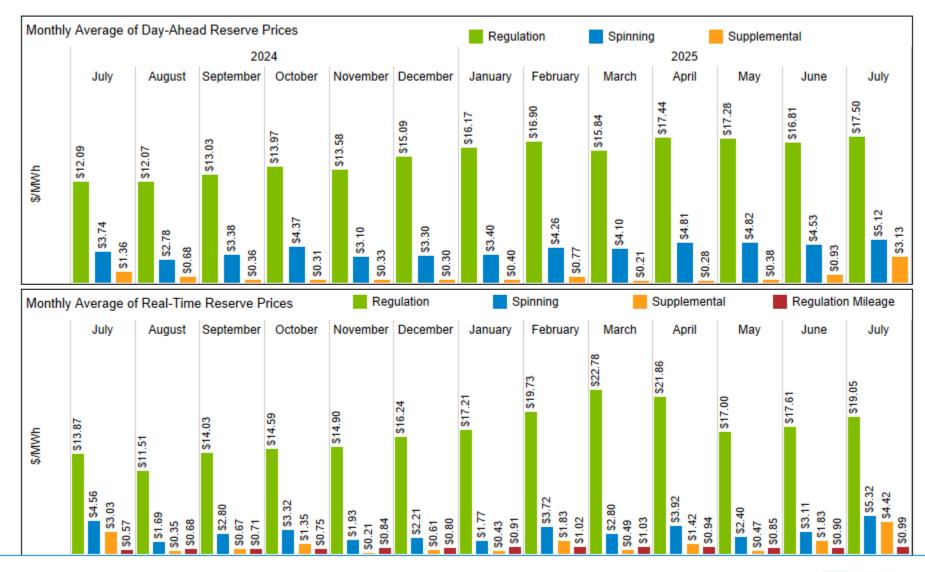
### MISO Day-Ahead and Real-Time Hub Locational Marginal Pricing



		ARKANSAS	ILLINOIS	INDIANA	LOUISIANA	MICHIGAN	MINNESOTA	MISSISSIPPI	TEXAS	MISO
Marginal	DA Peak	-30.03	-0.48	1.03	-27.70	0.85	4.21	-29.51	-28.40	-13.75
Congestion Component	RT Peak	-24.50	-0.48	0.57	-21.55	2.74	1.98	-22.84	-22.69	-10.85
of LMP	DA Off Peak	-9.83	0.05	0.56	-9.27	0.25	3.42	-9.58	-9.37	-4.22
(\$/MWh)	RT Off Peak	-8.98	-0.23	0.08	-7.17	0.18	3.32	-8.65	-7.91	-3.67

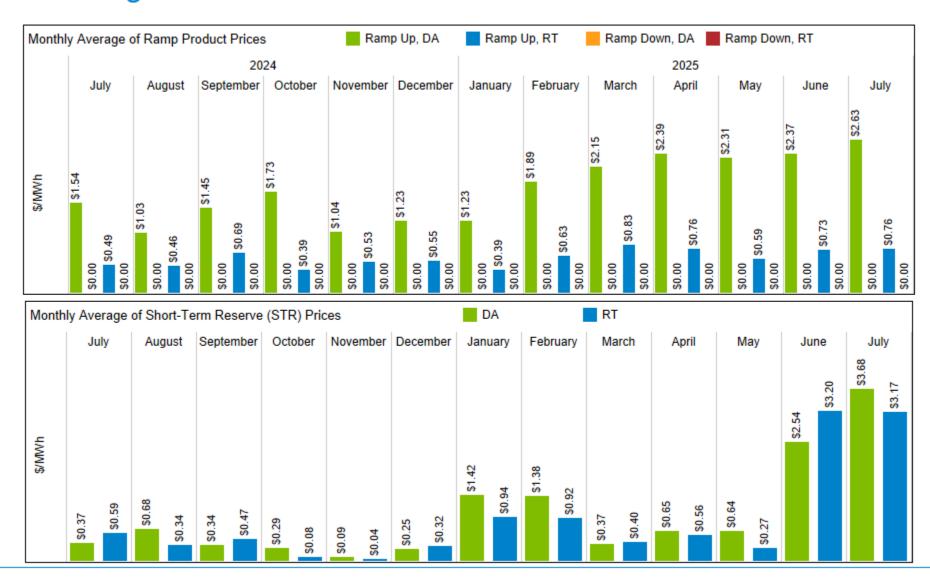


## Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



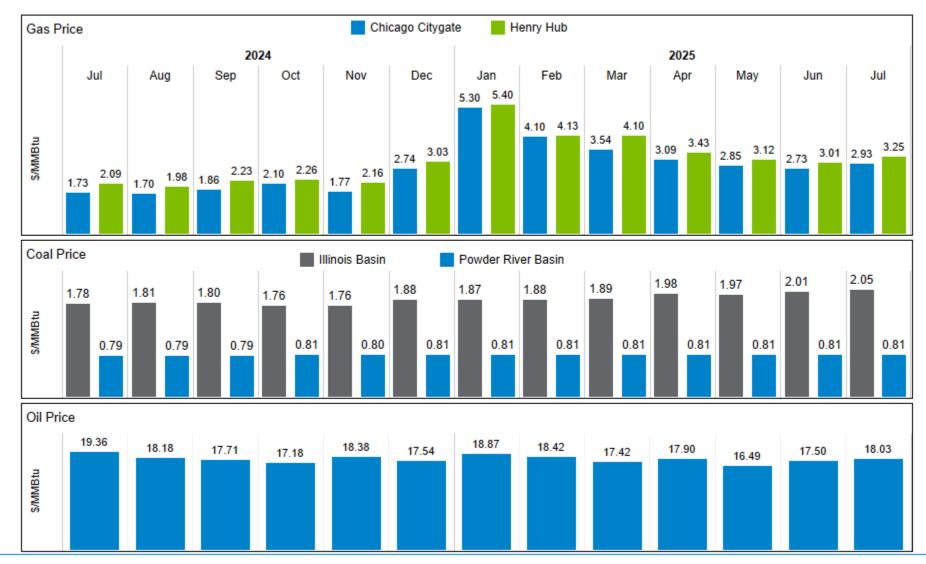


### Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



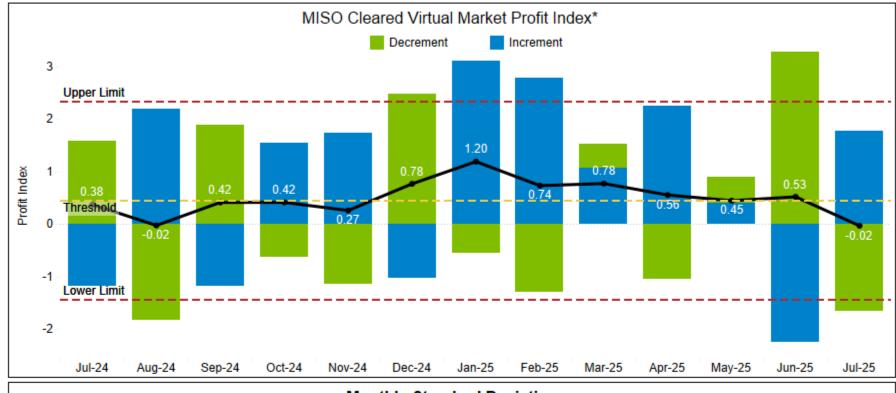


#### **Nominal Fuel Prices**





#### Monthly Average Gross Virtual Profitability



	Monthly Standard Deviation											
Jul-24 Aug-24 Sep-24 Oct-24 Nov-24 Dec-24 Jan-25 Feb-25 Mar-25 Apr-25 May-25 Jun-25 Jul-25											Jul-25	
2.96	0.86	1.32	1.21	1.74	1.50	2.60	2.21	1.16	1.15	2.04	1.61	2.64

<sup>\*</sup> 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.

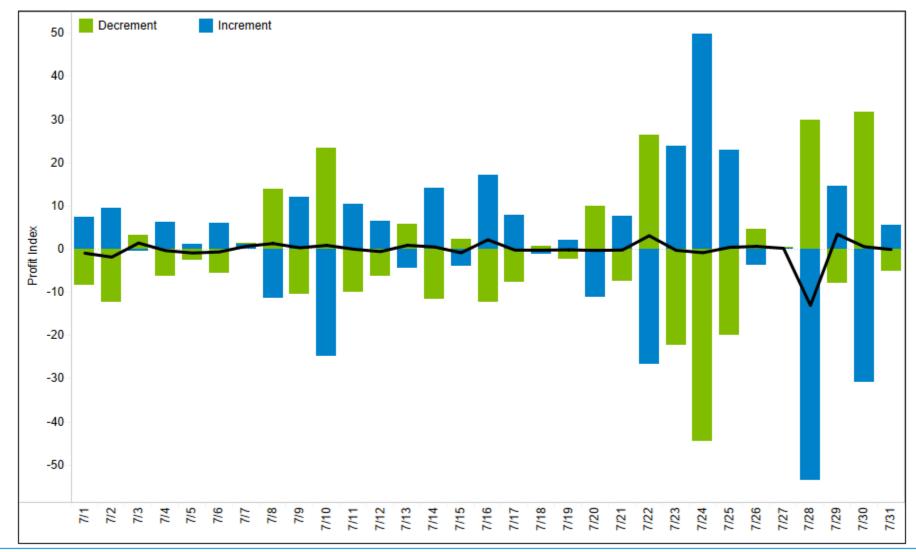
\* Virtual profits/losses are calculated by multiplying the cleared virtual MW and the imbalance between RT LMP and DA LMP for a cpnode, then summed across all cpnodes, all

<sup>\*</sup>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 inclusi.



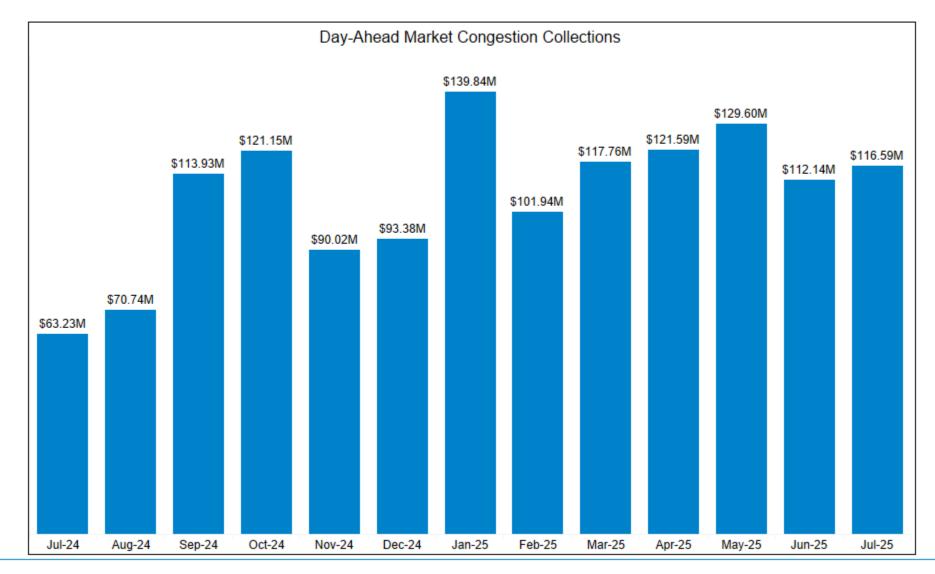
<sup>\*</sup> Upper Limit is Threshold (average of monthly indices from the previous year) plus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusive)

#### Daily Gross Cleared Virtual Profitability



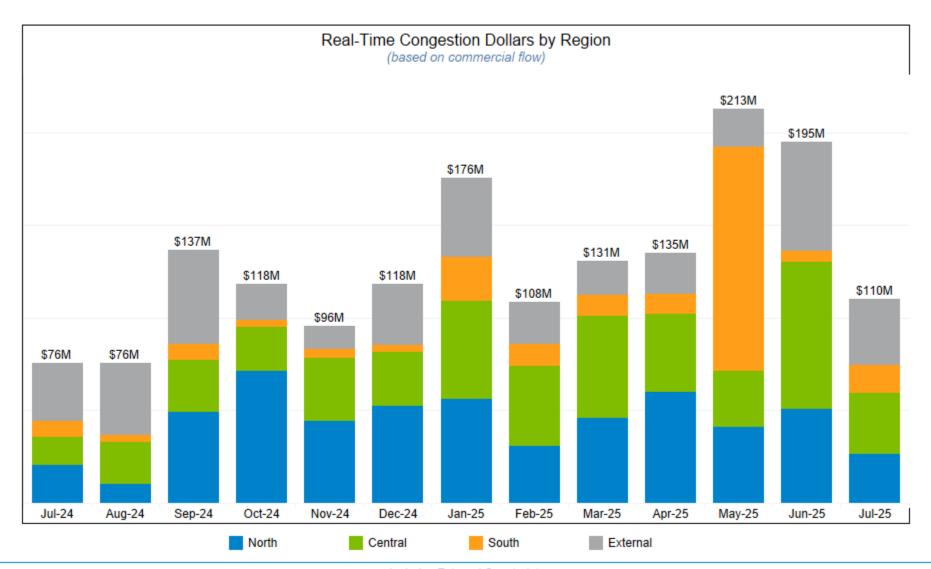


#### **Day-Ahead Congestion Collections**

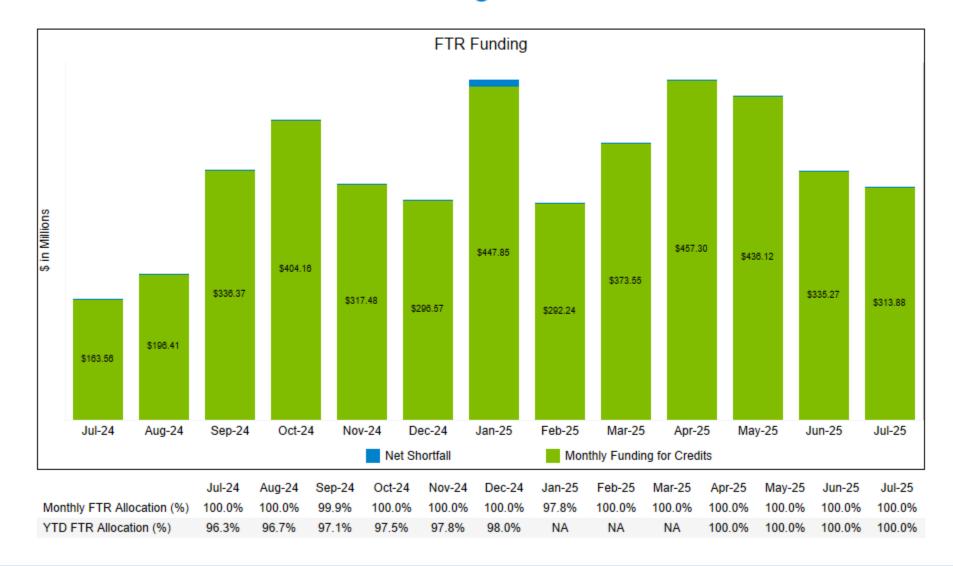




#### Real-Time Congestion Dollars by Region

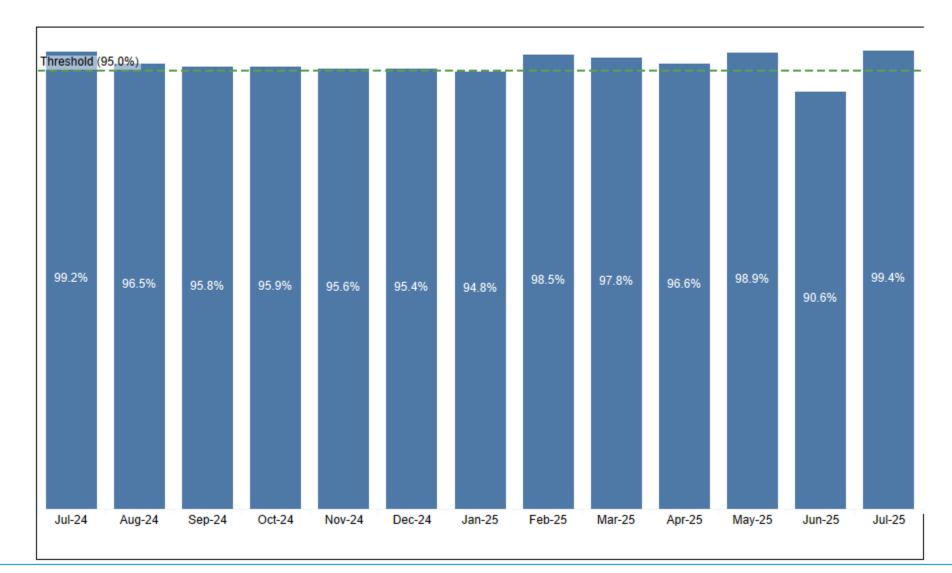


### Financial Transmission Rights, Monthly and Rolling Year-to-Date Allocation Funding



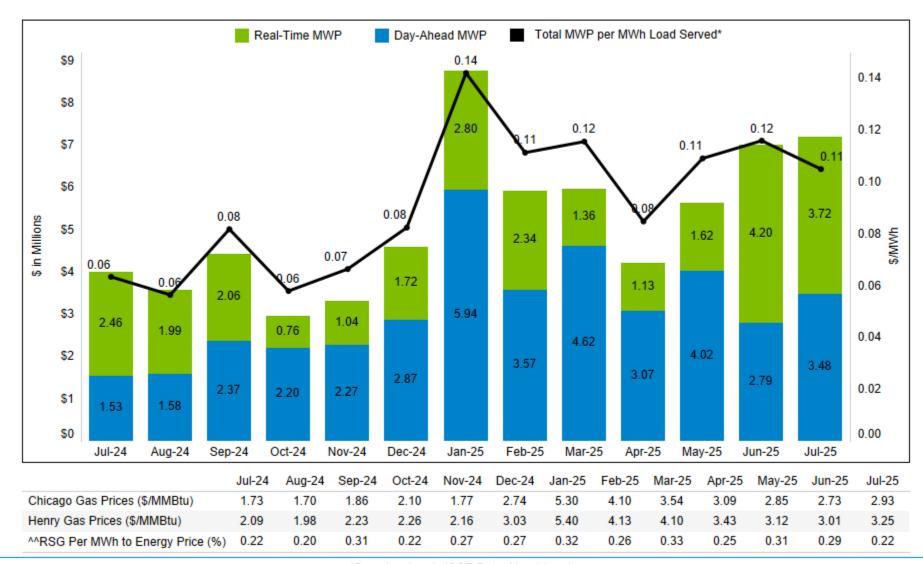


### Market Funding Efficiency



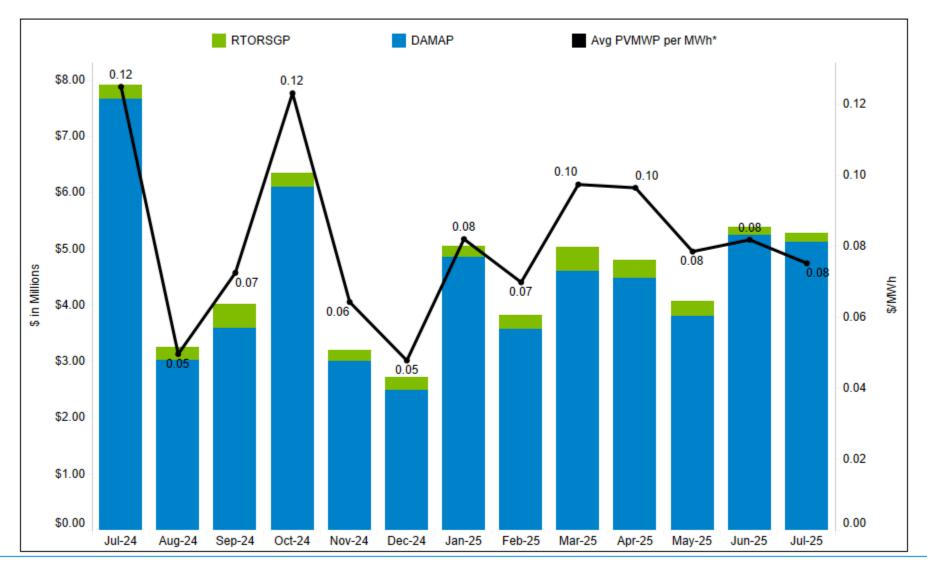


#### Day-Ahead and Real-Time Revenue Sufficiency Guarantee



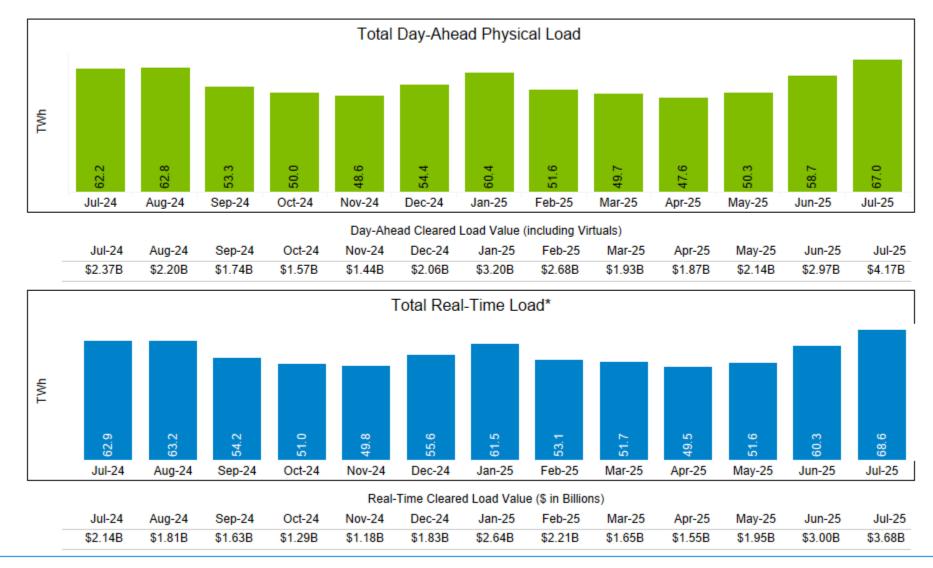


#### Price Volatility Make Whole Payment



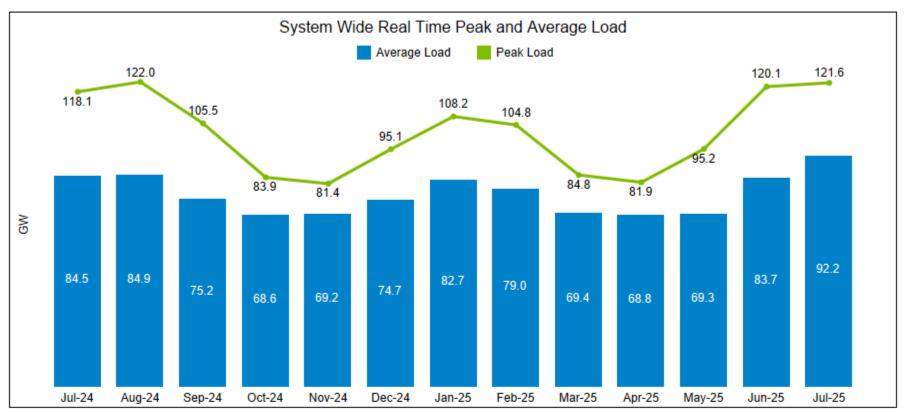


#### Day-Ahead and Real-Time Cleared Physical Energy





#### Monthly System Load and Temperature



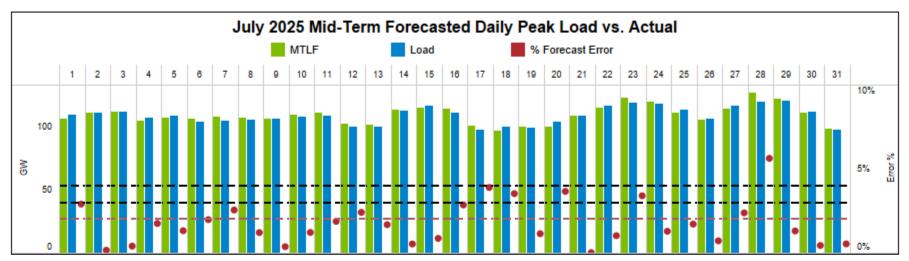
System Wide Load Weighted Temperature								
	Jul-24	Jun-25	Jul-25					
Average	78°F	76°F	81°F					
Maximum	98°F	100°F	99°F					
Minimum 61°F 52°F 66°								

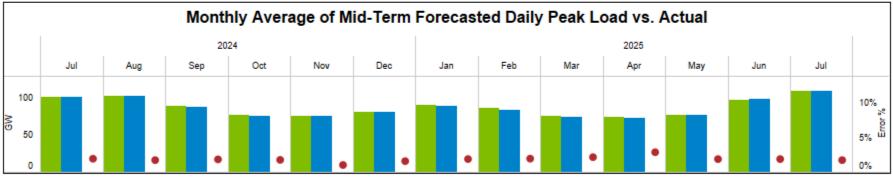
Load	Load Weighted Heating & Cooling Degree Days									
	Average HDD	Std Dev HDD	Average CDD	Std Dev CDD						
Jul-25	0.00	0.00	19.19	7.25						
Jun-25	0.14	0.94	14.60	8.60						
Jul-24	0.00	0.02	16.20	7.34						

Hours with Load Greater than:									
100 GW 80 GW 60 GW									
Jul-25	245	560	744						
Jun-25	110	415	709						
Jul-24	95 446 744								



#### Day-Ahead Mid-Term Load Forecast\*





		2024					2025						
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
% Std of Error (CV)	76.54	67.80	71.09	68.94	101.98	81.76	77.55	60.87	54.00	40.07	78.67	71.95	75.03
Mean of Error (MW)	1,980	1,845	1,700	1,418	814	1,334	1,742	1,674	1,671	2,191	1,474	1,852	1,950
Std of Error (MW)	1,515	1,251	1,209	978	830	1,090	1,351	1,019	902	878	1,159	1,332	1,463

<sup>\*</sup> Monthly data based on the average of the daily integrated peak hours in the month

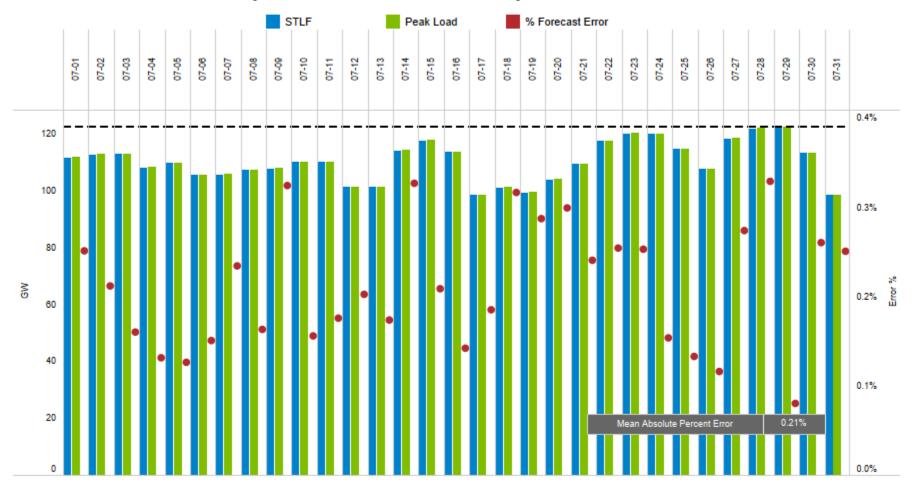


<sup>\*</sup> Daily data based on the integrated peak hour of the day

<sup>\*</sup> Peak Day and Hour End based on Hourly Integrated Peak Load Hour

#### Short-Term Load Forecast\*

#### July 2025 Short-Term Forecasted Daily Peak Load vs Actual

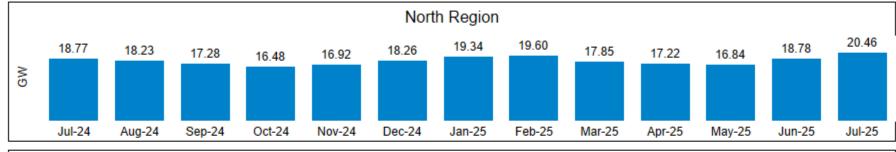


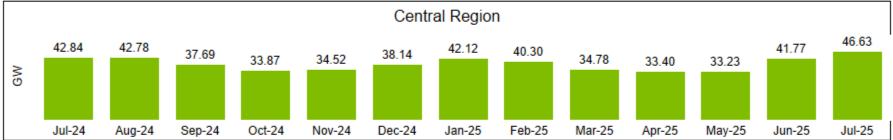
Daily data based on the average of five-minute interval data at the peak hour of the day Error Threshold calculated as 95% quantile of Forecast Error from Jan-Dec of the previous year

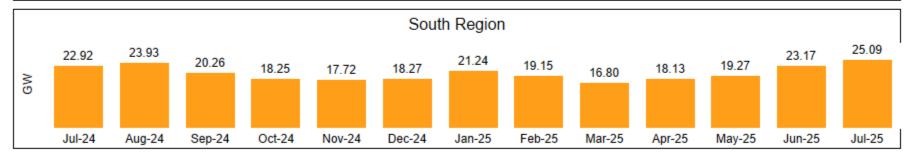
Peak Day and Hour End based on Hourly Integrated Peak Load Hour



#### Average Load by Region





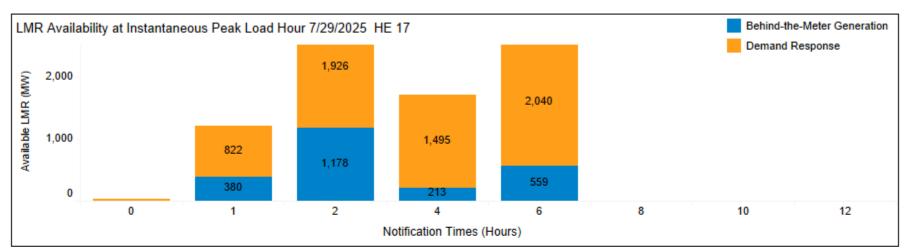


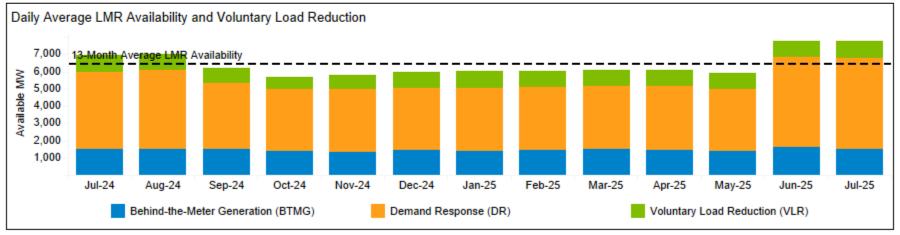
Hourly Integrated System Load Peak Hour Ending: 07/29/2025 17 EST

North	26.22 GW
Central	64.60 GW
South	33.55 GW
MISO	120.94 GW



#### Market Participant entered Load Modifying Resource (LMR) Availability

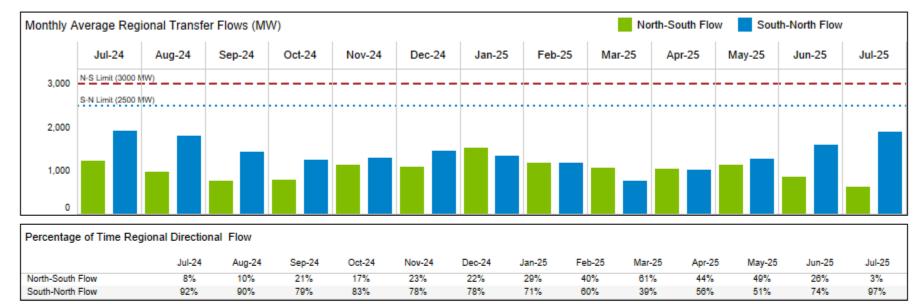


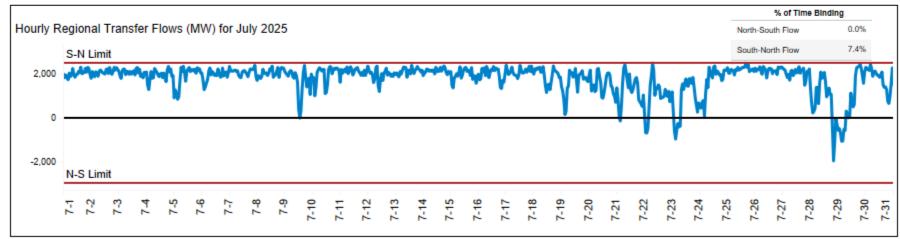


PRA Auction	BTMG (MW)	DR (MW)	Total BTMG and DR (MW)
Summer 2024	4,144	8,109	12,253
Summer 2025	4,283	9,004	13,287



#### Regional Directional Transfer\*\*

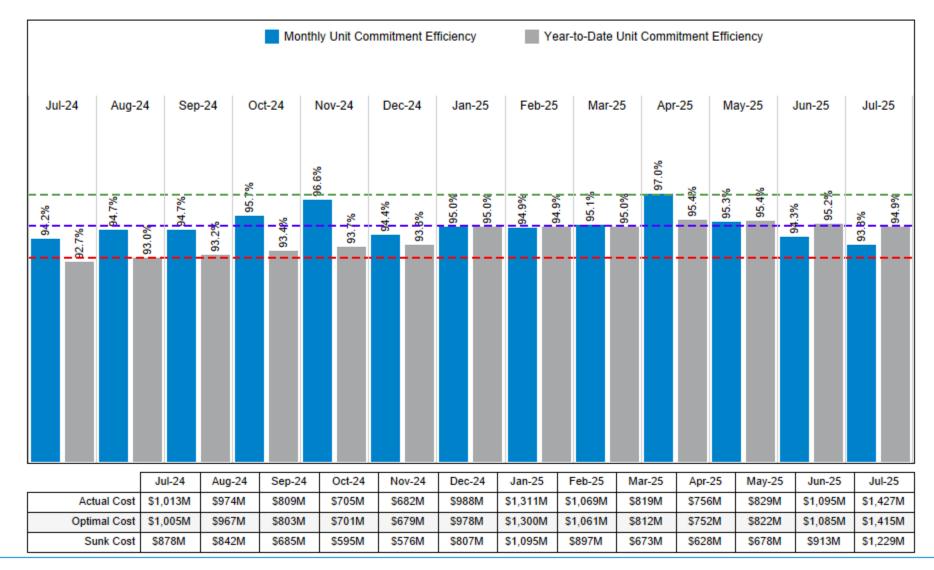






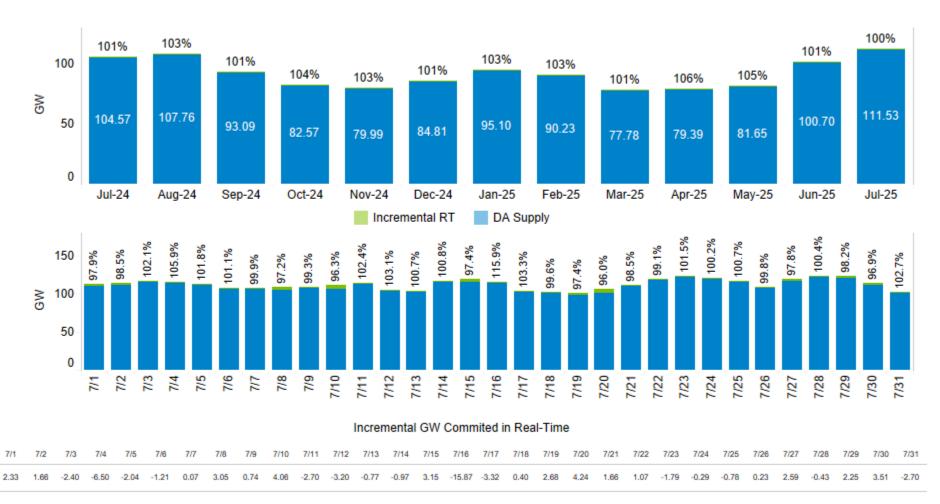
#### **Unit Commitment Efficiency**

Effectively commit generation to meet demand obligations and mitigate constraints





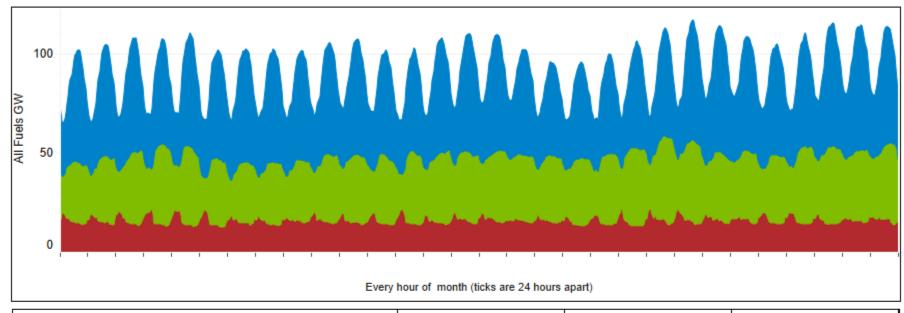
### Day-Ahead Supply and Real-Time Load Obligation at the Peak Load Hour



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 - July 2025



	All Fuels		Coal		Gas	;
	TWh	%	TWh	%	TWh	%
Economically Committed: Economically Dispatched	31.7	47%	5.4	25%	22.0	77%
Self Committed: Economically Dispatched	23.5	35%	14.3	67%	5.4	19%
Self Committed: Not Economically Dispatched	11.7	18%	1.5	7%	1.0	4%
Grand Total	66.9	100%	21.2	100%	28.4	100%

Economically Committed: Economically Dispatched

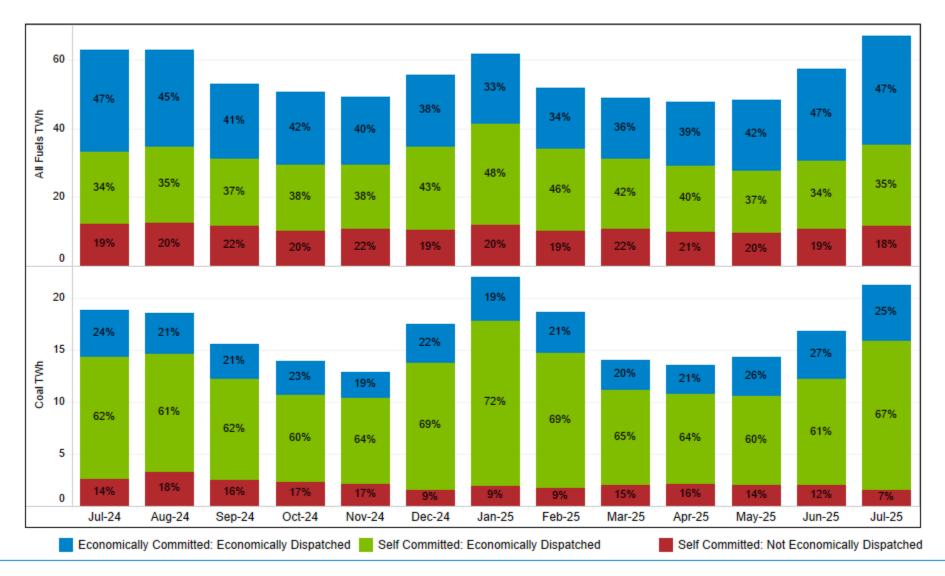
Generation committed by MISO and dispatched on economic offers.

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.

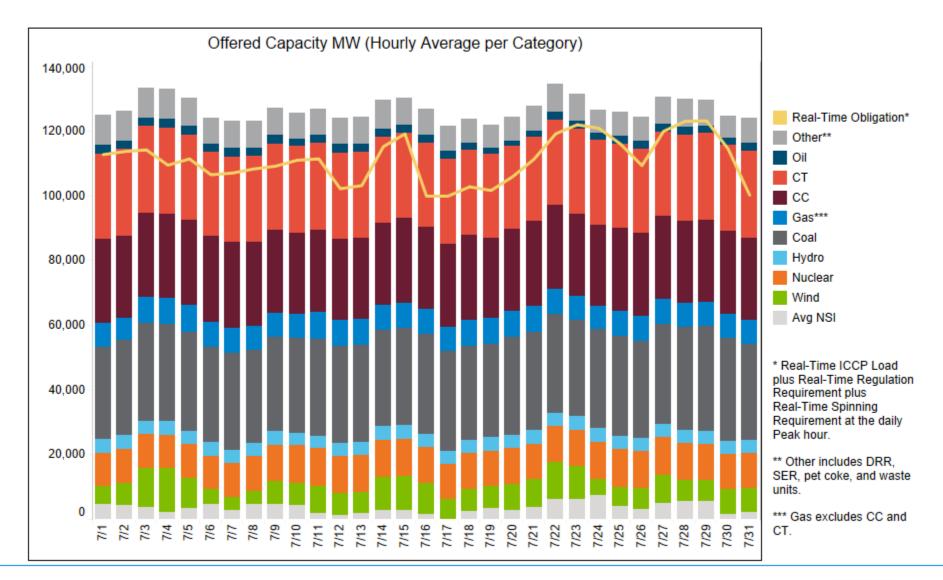


#### Monthly Trend - Self Committed and Economically Dispatched Energy



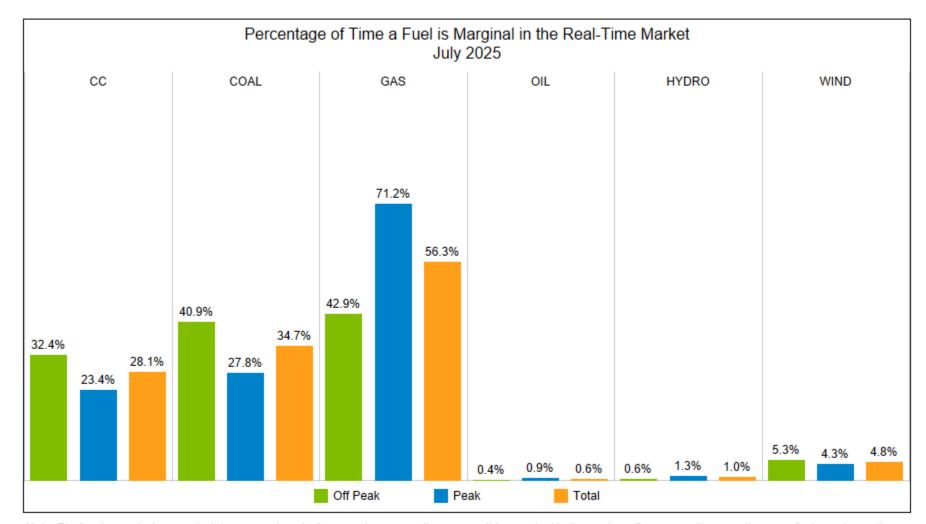


#### Offered Capacity and Real-Time Peak Load Obligation





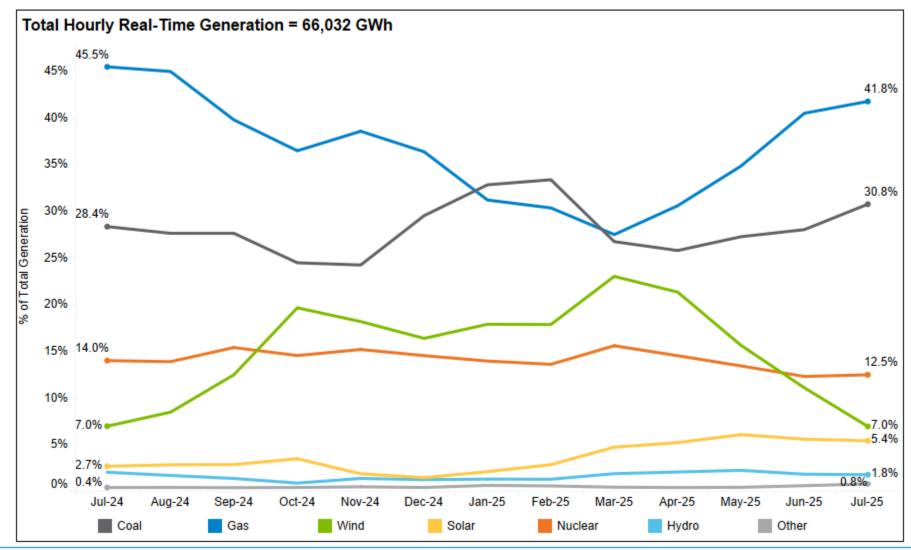
#### Marginal Fuel



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%.

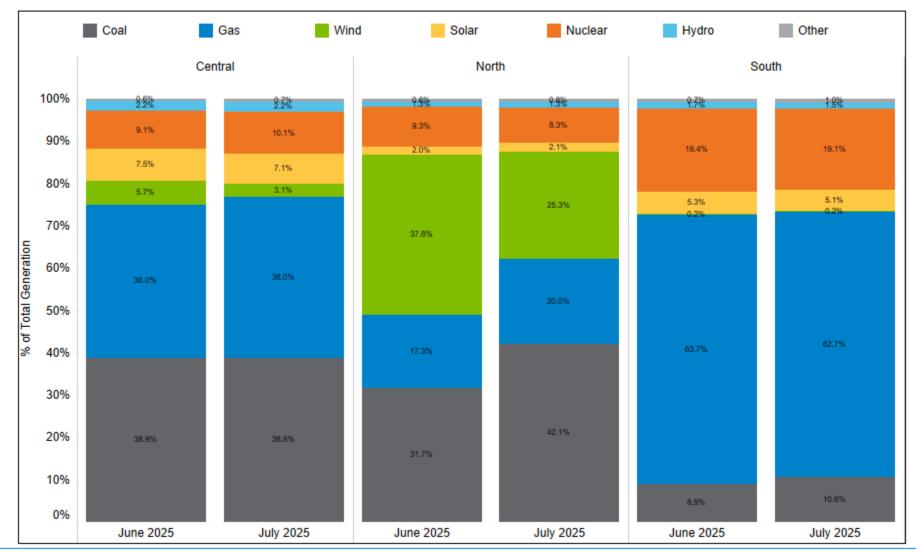


#### Real-Time Generation Fuel Mix





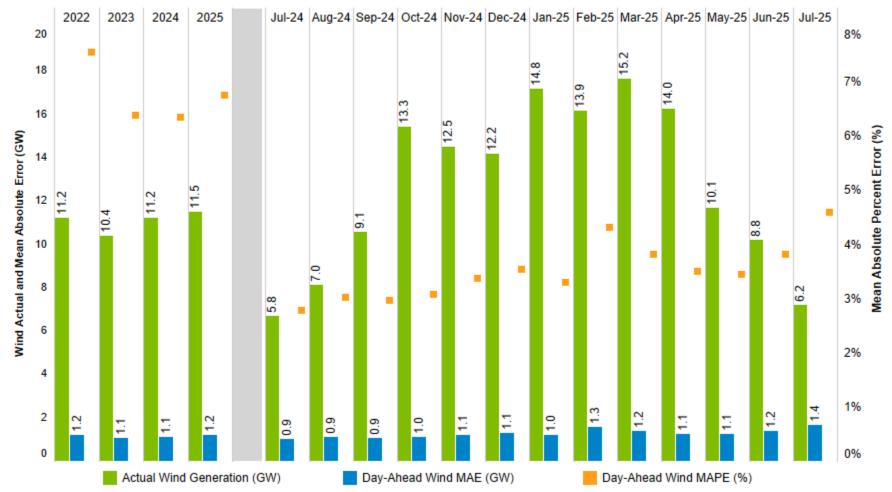
#### Real-Time Generation Fuel Mix by Region





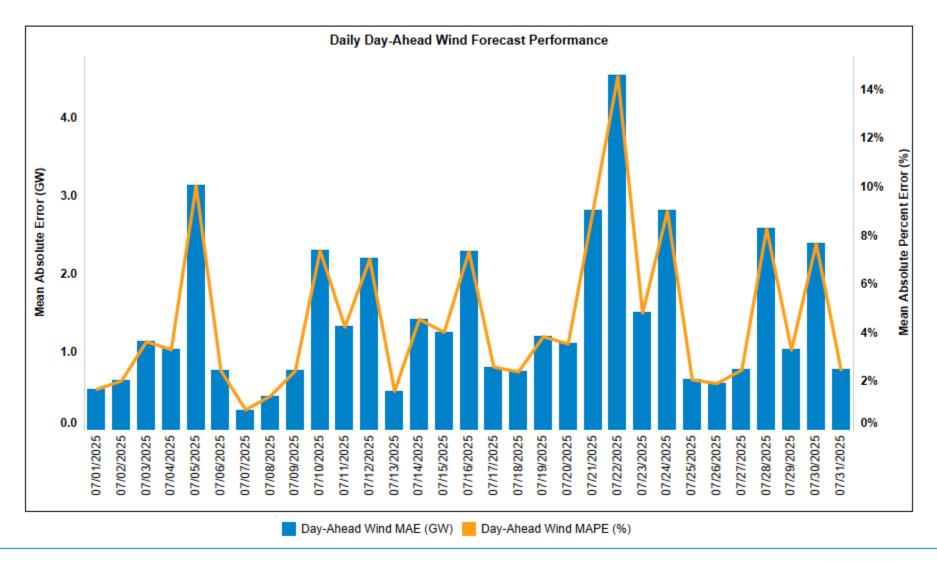
# Monthly Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)







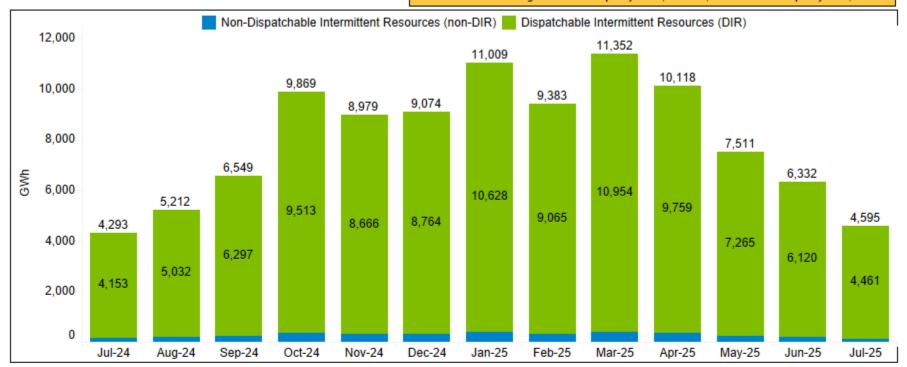
### Daily Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)





#### Monthly Wind Energy Generation

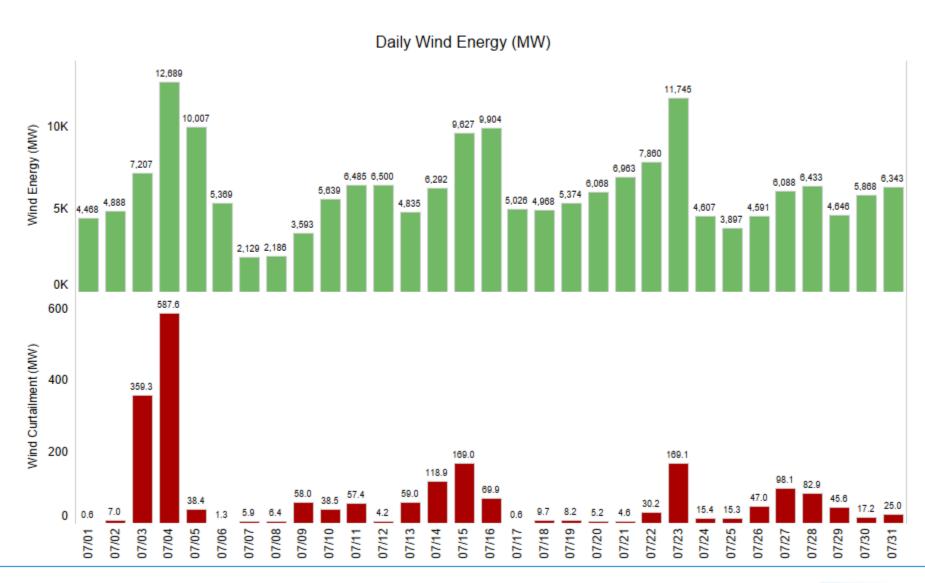
As of 06/04/2025
Registered Wind Capacity = 31,650 MW; Inservice Wind Capacity = 31,315 MW
Registered DIR Capacity = 30,122 MW; Inservice DIR Capacity = 29,787 MW



	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25
Peak Wind Date and Hour Ending	7/1 23	8/6 4	9/12 24	10/30 2	11/20 16	12/4 11	1/28 21	2/28 22	3/23 15	4/28 19	5/16 21	6/21 15	7/5 1
Peak hourly wind output (MW)	18,465	15,418	16,944	22,683	21,272	24,044	25,218	24,646	24,172	23,582	22,803	21,086	15,404
Peak wind output as % of MISO load in that hour	24.0%	21.2%	24.2%	36.1%	29.0%	28.7%	31.2%	34.1%	34.6%	28.6%	28.6%	19.3%	19.2%
Wind Energy as a percent of MISO Energy	7.3%	8.8%	12.8%	19.9%	18.4%	16.3%	18.2%	18.1%	23.2%	21.5%	15.6%	11.3%	7.3%
DIR dispatch below Max as % of avail. DIR	2.1%	2.7%	4.9%	4.0%	3.4%	2.3%	3.3%	2.0%	3.1%	4.3%	3.3%	3.3%	1.3%



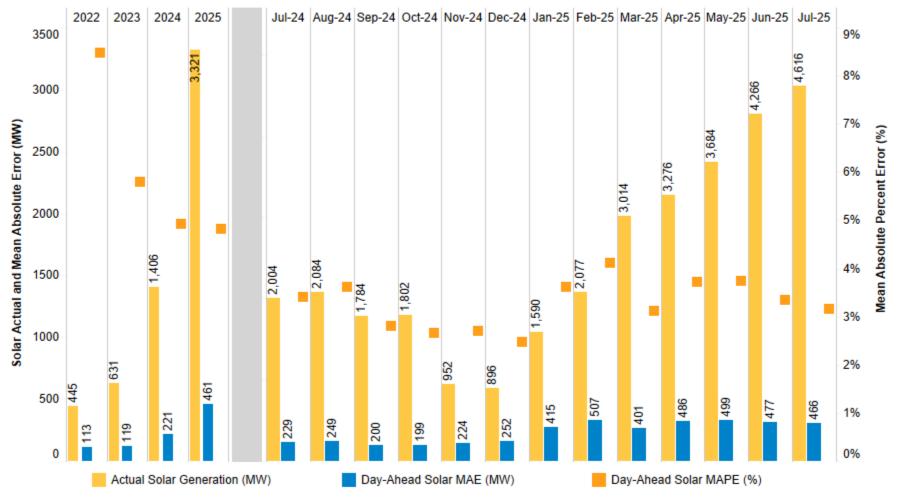
#### Daily Average Wind Energy and Curtailment





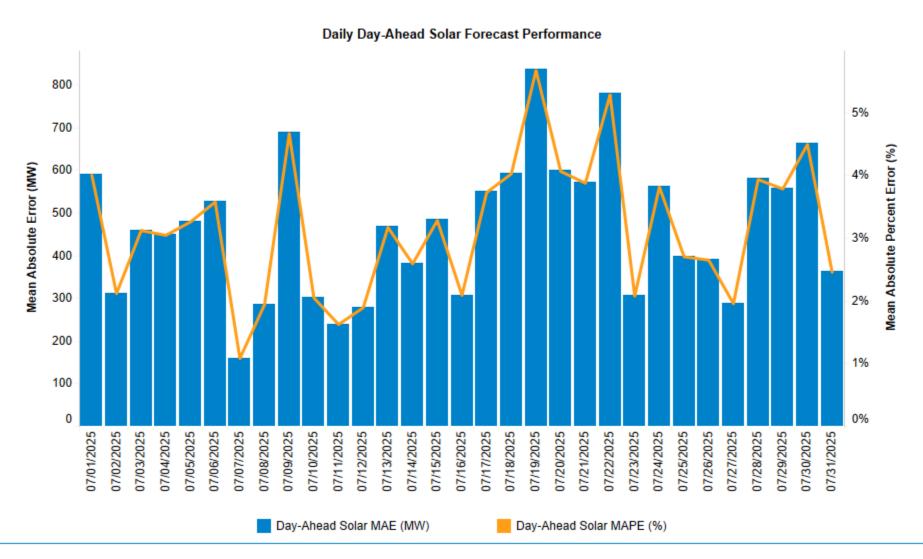
## Monthly Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)

#### Monthly Day-Ahead Solar Forecast Performance





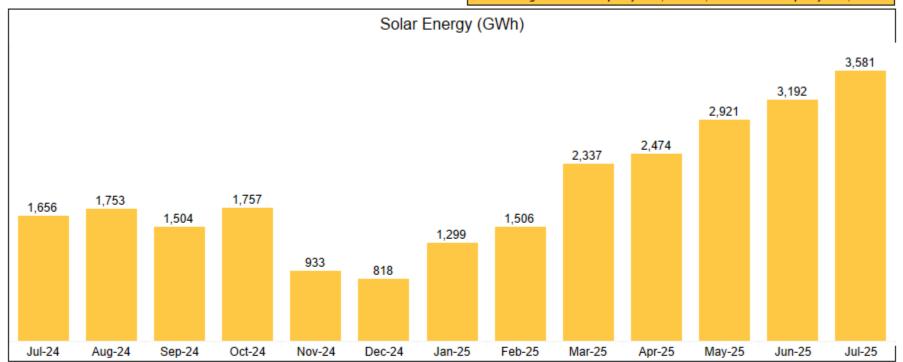
## Daily Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)





#### Monthly Solar Energy

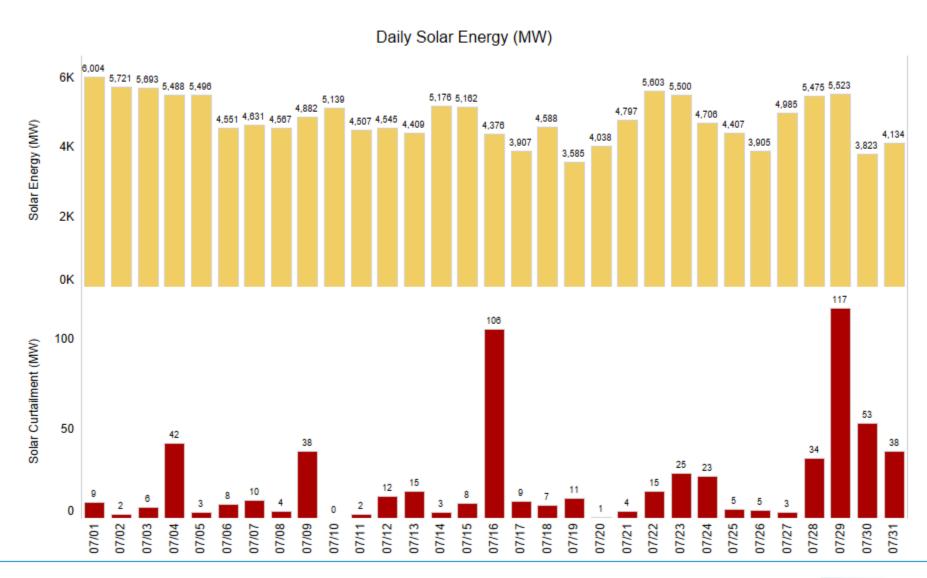
As of 06/04/2025 Registered Solar Capacity = 19,131 MW; Inservice Solar Capacity = 14,112 MW Registered DIR Capacity = 18,959 MW; Inservice DIR Capacity = 13,940 MW



Peak Solar Date and Hour Ending	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25
	7/13 12	8/22 12	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
Peak Hour Solar Output (MW)	6,168	6,835	7,054	7,919	6,813	6,898	8,308	11,360	12,061	12,342	13,366	12,872	13,129
Peak Solar Output as a % of MISO Load in that hour	6.5%	8.3%	9.1%	11.5%	9.6%	8.7%	8.4%	12.4%	18.8%	18.0%	19.2%	12.9%	13.3%
Solar Energy as a % of MISO Energy	3.2%	3.8%	3.5%	4.7%	2.6%	2.0%	2.6%	3.5%	6.0%	5.4%	6.0%	6.0%	5.5%
DIR Dispatch below MAX as a % of avail. DIR	-0.5%	-0.5%	0.4%	-0.3%	-0.6%	-3.1%	-1.9%	0.1%	1.1%	0.5%	-0.1%	-0.1%	-0.4%

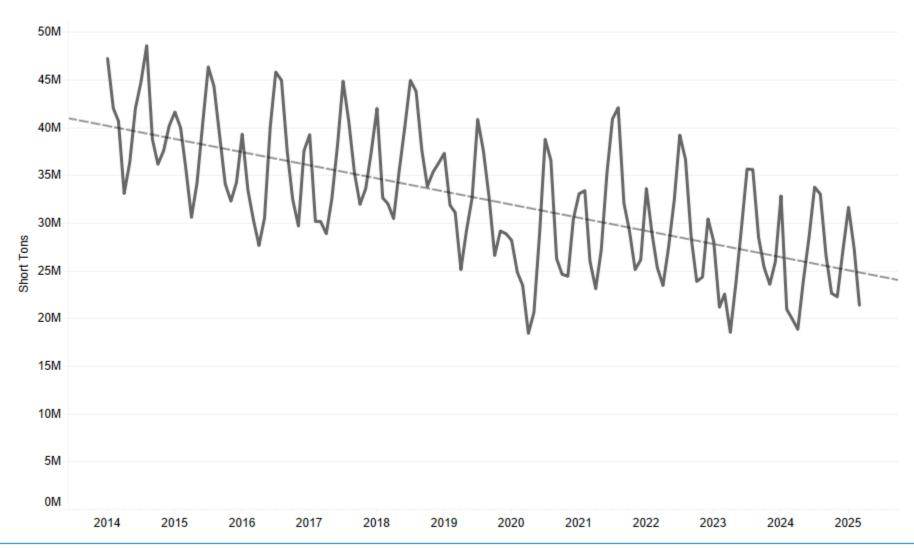


#### Daily Average Solar Energy and Curtailment

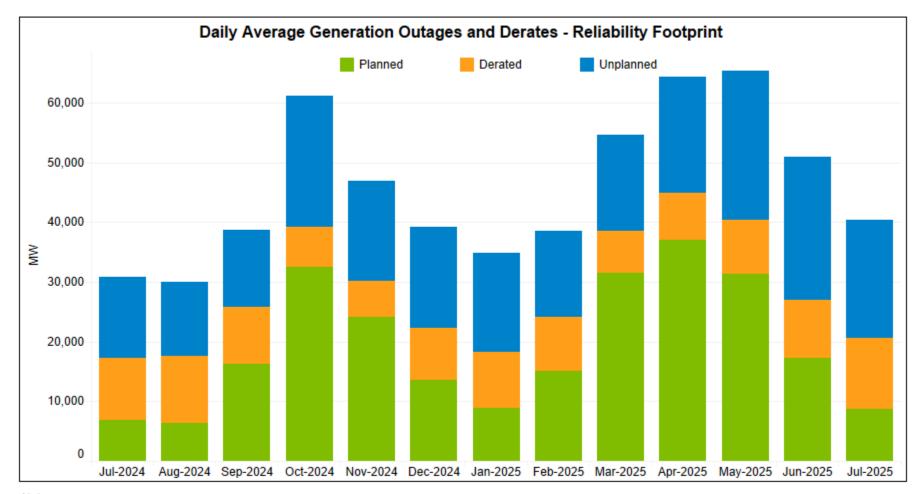




#### Carbon Emissions



#### **Generation Outages and Derates**

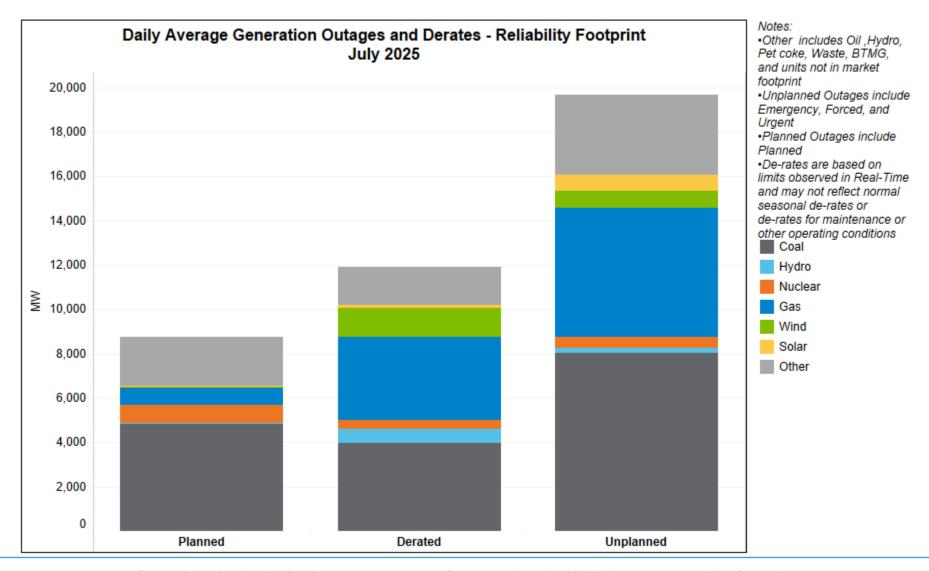


#### Notes:

- 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

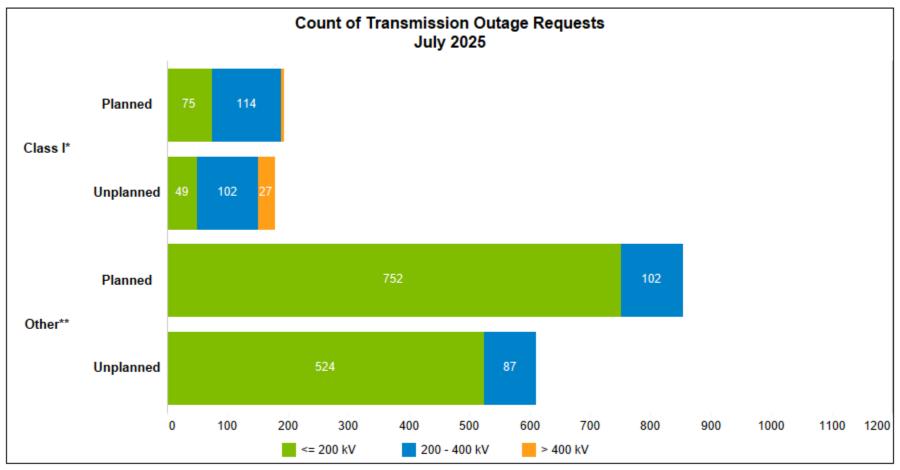


#### Generation Outages by Fuel





#### **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



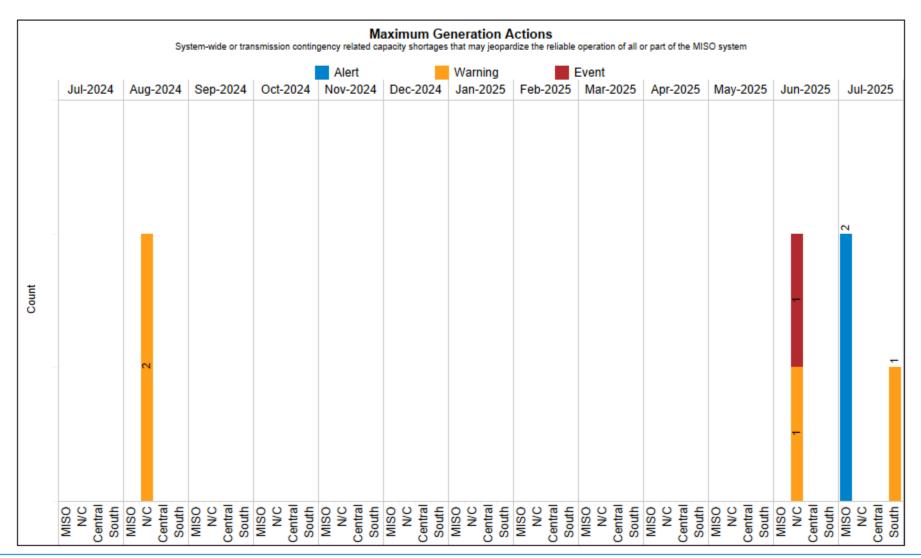
#### **MISO Inadvertent Balance**

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			
Running Total from 2009	-95,937	-88,521	-7,416

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



#### **Generation Notifications**



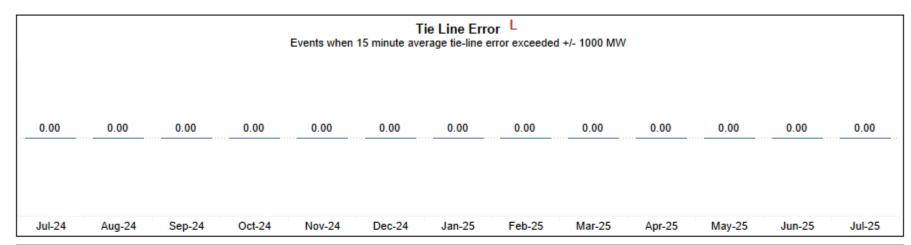
<sup>\*</sup> Alerts - forecasting specific emergency situations in a future time-frame

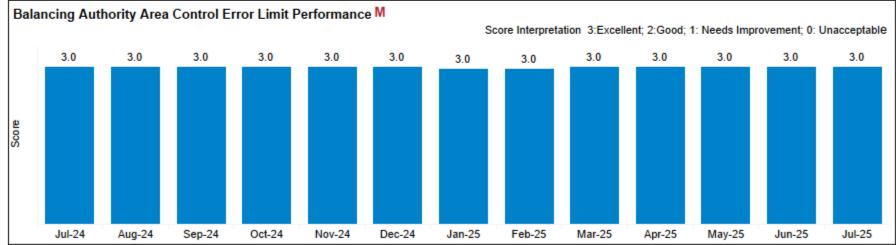


<sup>\*</sup> Warnings – experiencing initial stages of an emergency situation and taking action

<sup>\*</sup> Events – experiencing an emergency situation and taking action

#### Tie Line and BAAL Performance

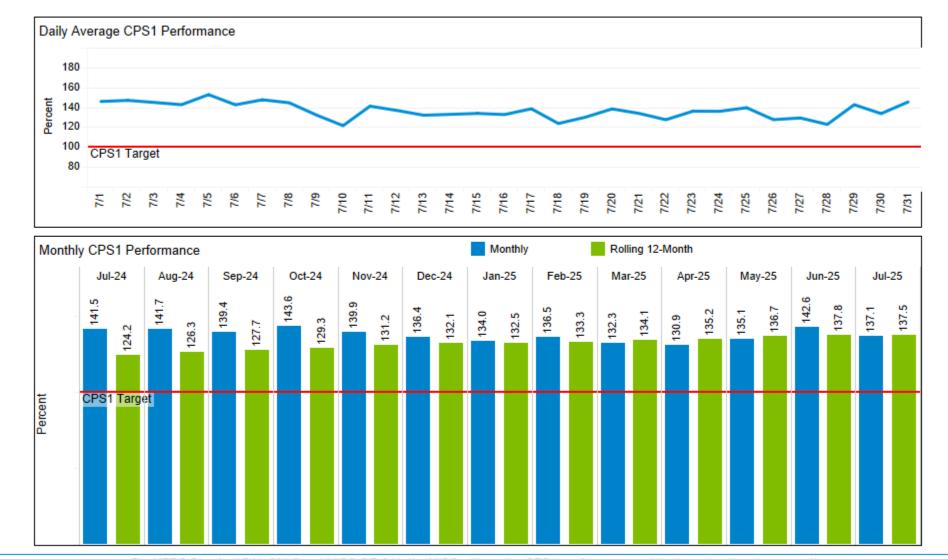




The Balancing Authority Area Control Error Limit (BAAL) measures control performance over the <u>short-term</u>. Exceeding BAAL for a continuous time period greater than 30 minutes constitutes a non-compliant event. The daily MISO BAAL performance rating is the lowest scored incident of the day.

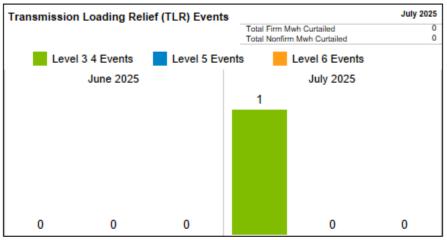


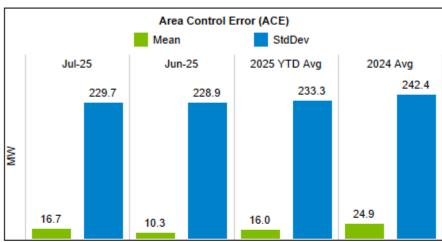
#### **CPS1** Performance

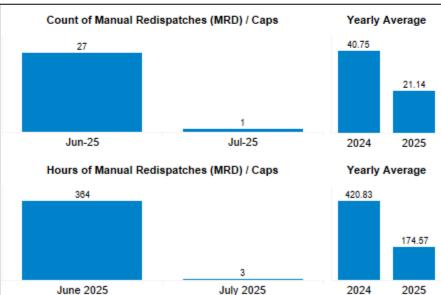


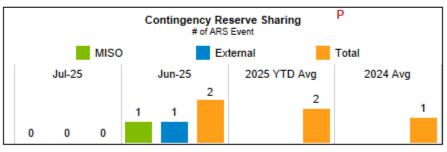


#### Reliability — Other Metrics



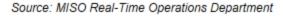






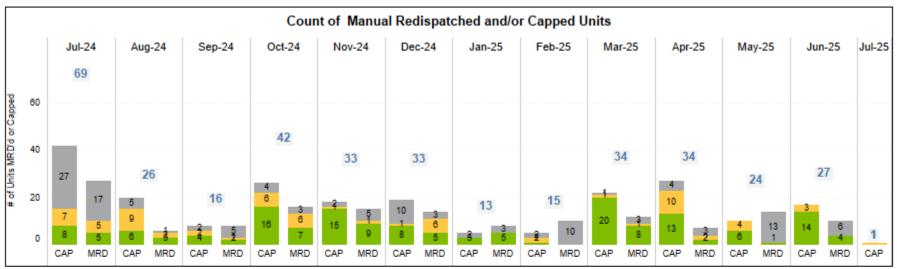
#### MISO deployed Contingency Reserves \*\*

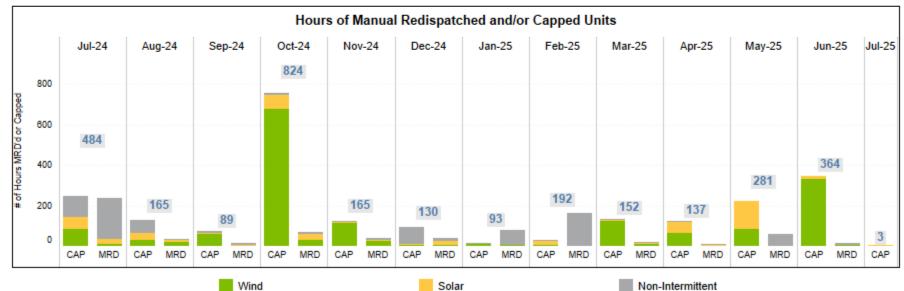
Date	HE	Deployment Type	MW
6/1/2025	19	OFFLINE	79
	15	ONLINE	1,227
01170005	-	OFFLINE	338
6/17/2025	5	ONLINE	961





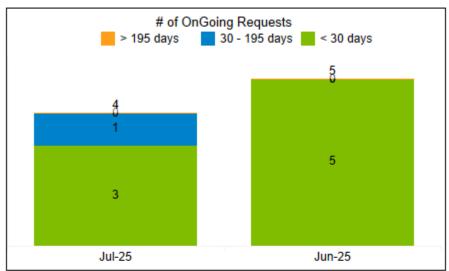
#### Operator Actions - Manual Redispatch and Caps

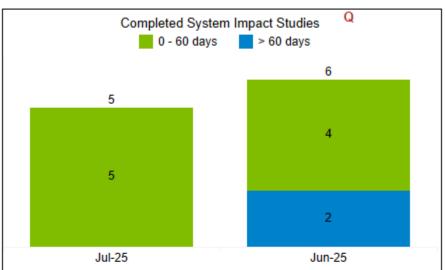


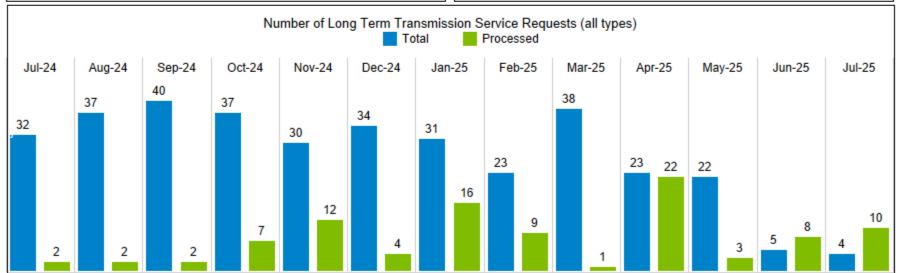




#### **Transmission Service Request**

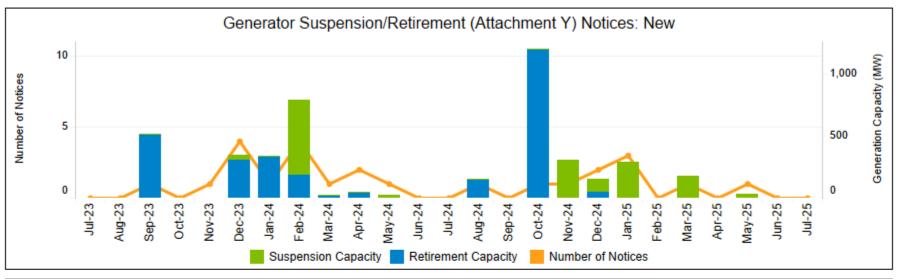


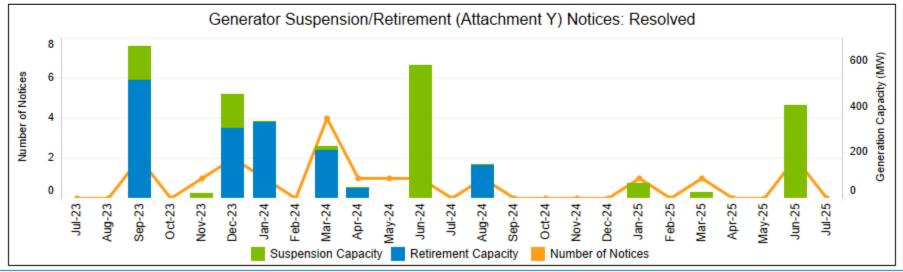






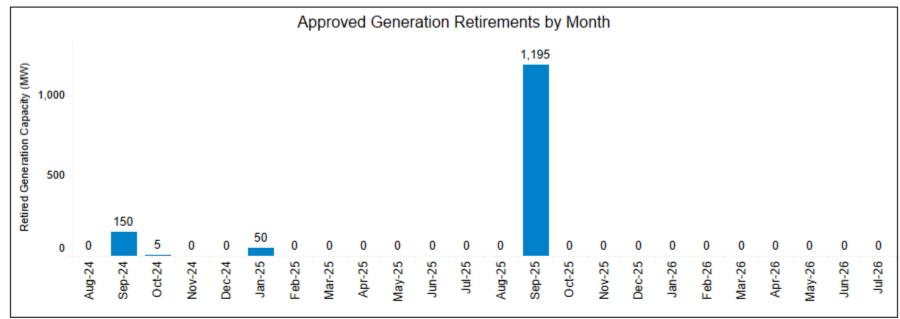
#### Generator Suspension/Retirement - New and Resolved

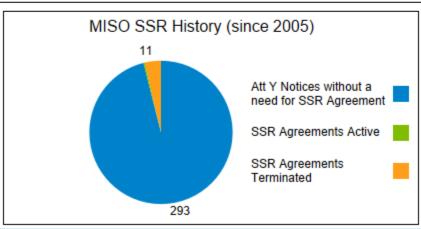






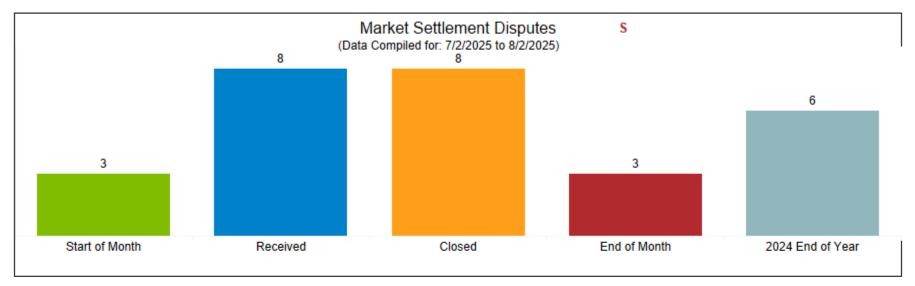
#### Generator Suspension/Retirement - Overall

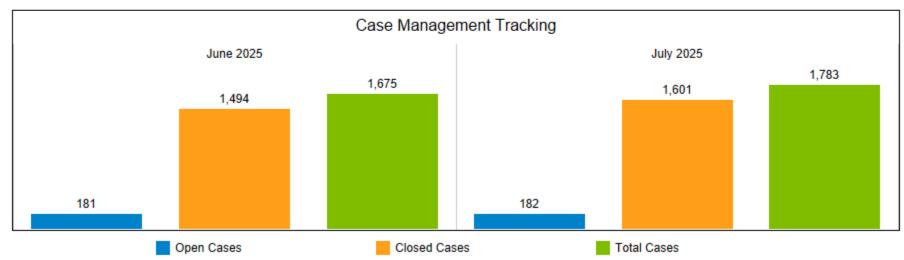






#### Settlements/Client Services and Readiness







# 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	<b>†</b>		99.5	
Customer Facing Applications – Portals (Availability Index)	10	10	10	10	<b>†</b>		10 of 10	
Markets (Availability Index)	4	4	4	4	<b>+</b>		4 of 4	
Reliability Targets (Availability Index)	3	3	3	3	<b></b>		3 of 3	

<sup>\*</sup>Trend lines represent quarter-over-quarter performance



<sup>\*\*</sup>ICCP = Inter-Control Center Communications Protocol

#### 2025 Dashboard Metric Criteria (1 of 2)

\*New or revised 2025 Metric

				Operational	Excellence				
Metric	Chart	<ul><li>Expected</li></ul>	Monitor	▼ Review	Metric	Chart	Expected	Monitor	▼ Review
Percentage Price Deviation*	Α	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*	н	>=93%		<93%
Monthly Average Gross Virtual Profitability*	В	Within the standard deviation bands (threshold \$0.44/MWh)	Outside the stand	lard deviation bands	Real-Time Obligation fulfilled by Day- Ahead Supply at the Peak Hour	1	>=95%	>=93% but <95%	<93%
FTR Funding	С	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	к	# 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	error exceeds 15% in
Market Efficiency Metric	D	>= 95%		<95%	Day Ahead Solar Generation Forecast Error	т	# 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	error exceeds 15% in
RSG per MWh to Energy Price*	Ε	<=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% > 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	М	Monthly performance score >=2	Monthly performance score<2 but >=1	Monthly performance score <1



#### 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	Р	DCS monthly average % recovery (APR) = 100%	Analysis of event not yet complete	DCS monthly average % recovery (APR) confirmed <1009
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	

