



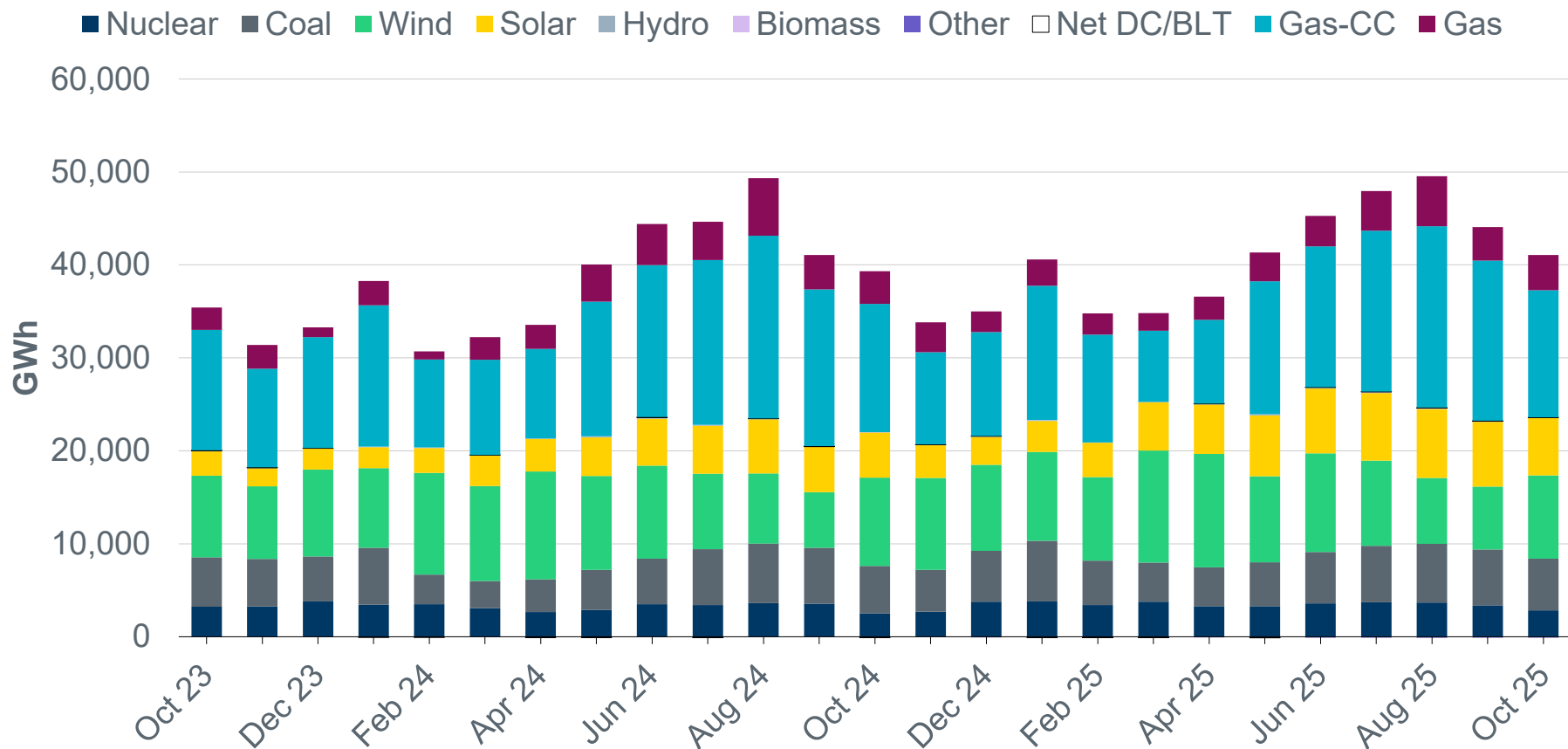
ERCOT Monthly Operational Overview (October 2025)

ERCOT Public
November 17, 2025

Highlights, Records and Notifications

- ERCOT's maximum peak demand for the month of October was 75,889 MW* on 10/2/25; this is 3,339 MW more than the October 2024 peak demand of 72,550 MW on 10/3/24.
- ERCOT issued 4 notifications:
 - 1 Advisory – Due to a GMD Warning for 10/02/2025 at 01:10 until 10/02/25 at 7:00.
 - 2 Watches – Due to failure of the SCED process on 10/07/20205 at 00:02 and 10/08/2025 at 08:10.
 - 1 OCN – Due to potential wildfire risk for Tuesday October 28, 2025 for a large portion of South Texas in the ERCOT region.

Monthly energy generation increased by 4.4% year-over-year to 40,949 GWh in October 2025, compared to 39,228 GWh in October 2024

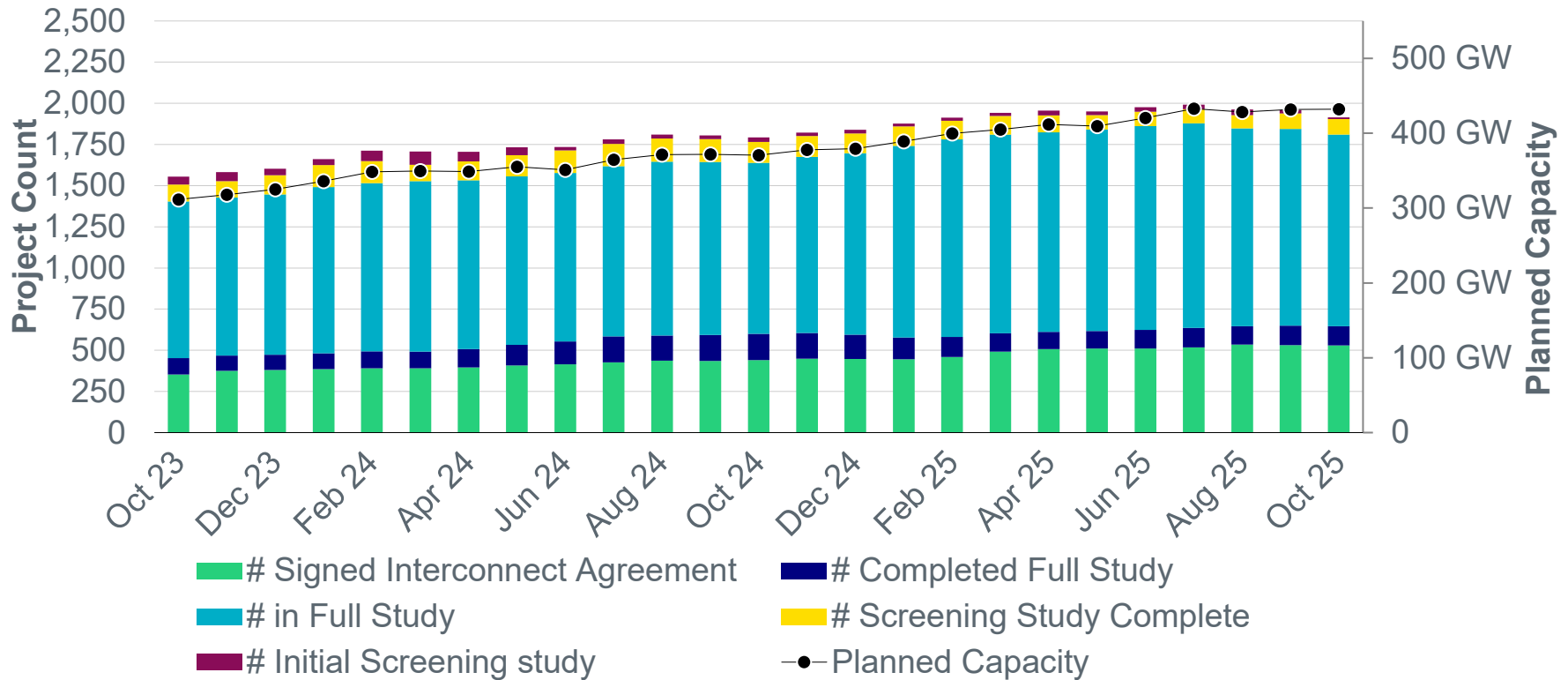


Data for latest two months are based on preliminary settlements.



Generation Interconnection activity by project phase

(Excludes capacity associated with projects designated as Inactive per Planning Guide Section 5.2.5)



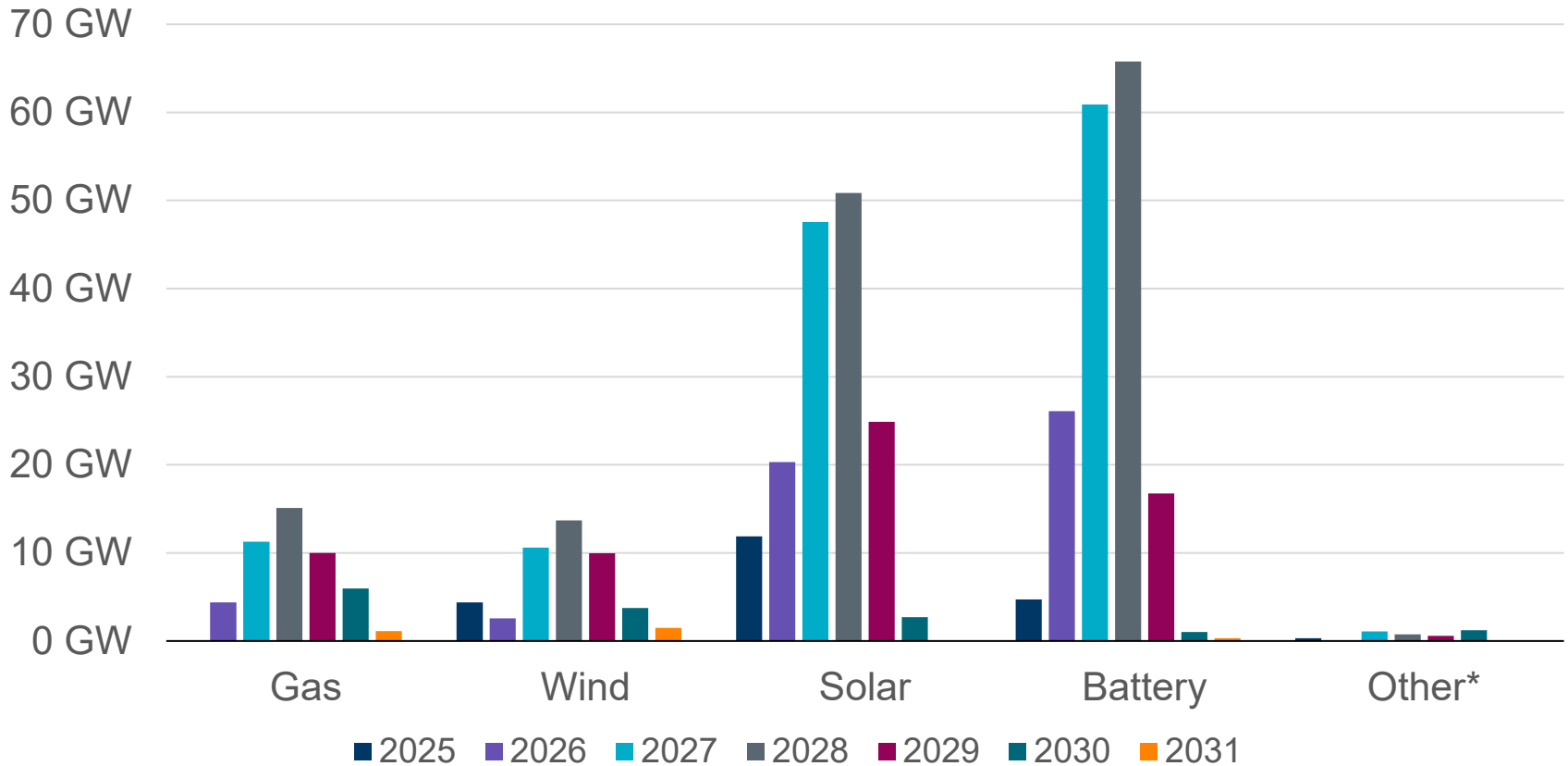
- There are an additional 56 “Small Generator” projects totaling 523 MW that are going through the simplified interconnection process.
- A break-out by fuel type can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page:

<http://www.ercot.com/gridinfo/resource>



Interconnection Queue Capacity by Fuel Type

Queue totals: Solar 158 GW (36.6%), Wind 46 GW (10.7%), Gas 48 GW (11.1%), Battery 176 GW (40.6%), Other 4 GW (0.9%)
 (Excludes capacity associated with projects designated as Inactive per Planning Guide Section 5.2.5)



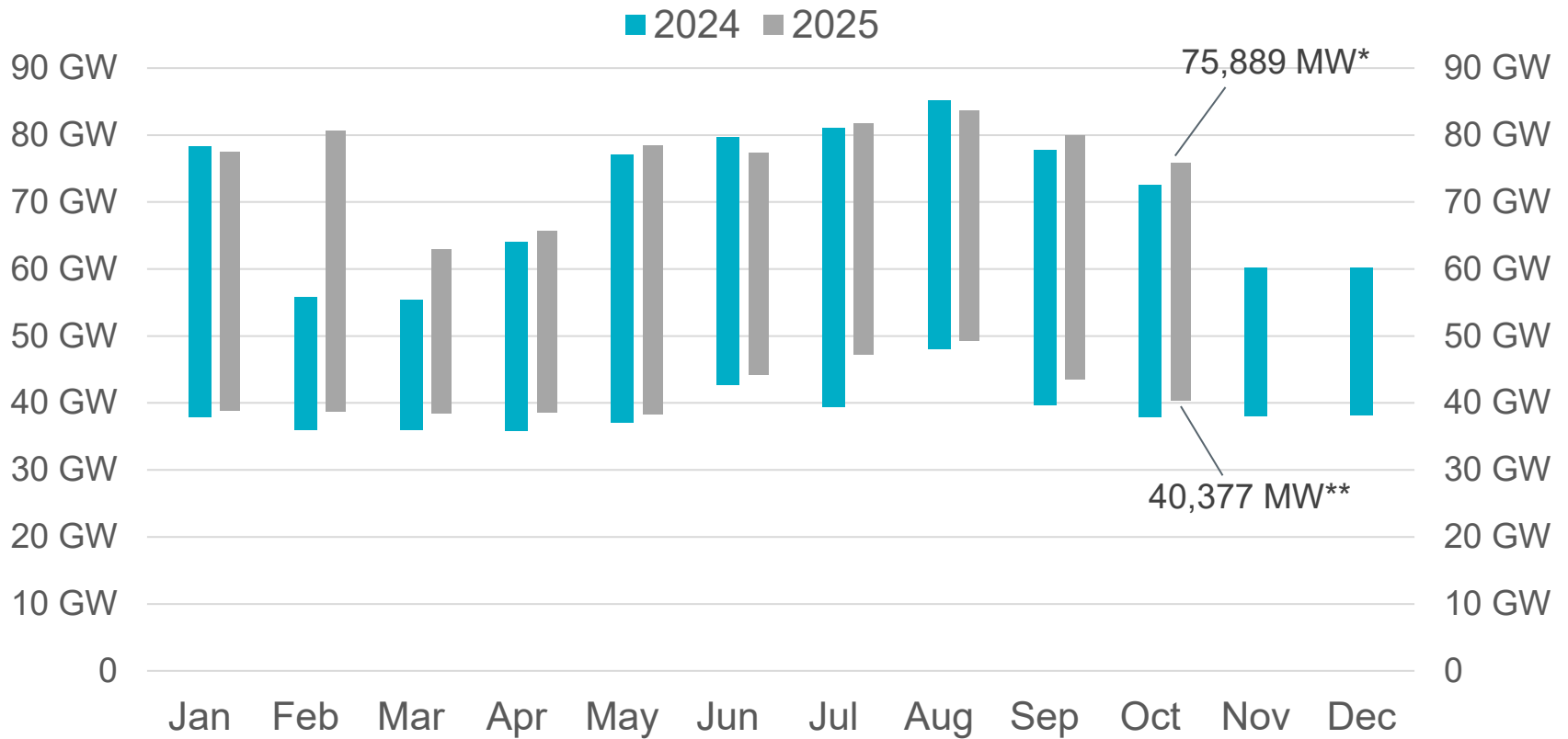
A break-out by zone can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: <http://www.ercot.com/gridinfo/resource>

* Other includes petroleum coke (pet coke), hydroelectric, fuel oil, nuclear, geothermal energy, other miscellaneous fuels reported by developers, and fuel cells that use fuels other than natural gas.

Planning Summary

- ERCOT is tracking 1,999 active generation interconnection requests totaling 431,985 MW as of October 31. This includes 158,151 MW of solar, 46,422 MW of wind, 175,579 MW of battery, and 47,848 MW of gas projects; 142 projects were categorized as inactive, up from 137 inactive projects in September 2025.
- ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of \$14.089 billion as of October 31, 2025.
- Transmission Projects endorsed in 2025 total \$3.626 billion as of October 31, 2025.
- All projects (in engineering, routing, licensing and construction) total approximately \$16.866 billion as of February 1, 2025.
- Transmission Projects energized in 2025 total approximately \$1.354 billion as of June 1, 2025.
- Transmission Projects planned to energize during the remainder of 2025 total approximately \$2.970 billion as of June 1, 2025.

ERCOT's maximum peak demand for the month of October was 75,889 MW* on 10/2/25; this is 3,339 MW more than the October 2024 peak demand of 72,550 MW on 10/3/24.



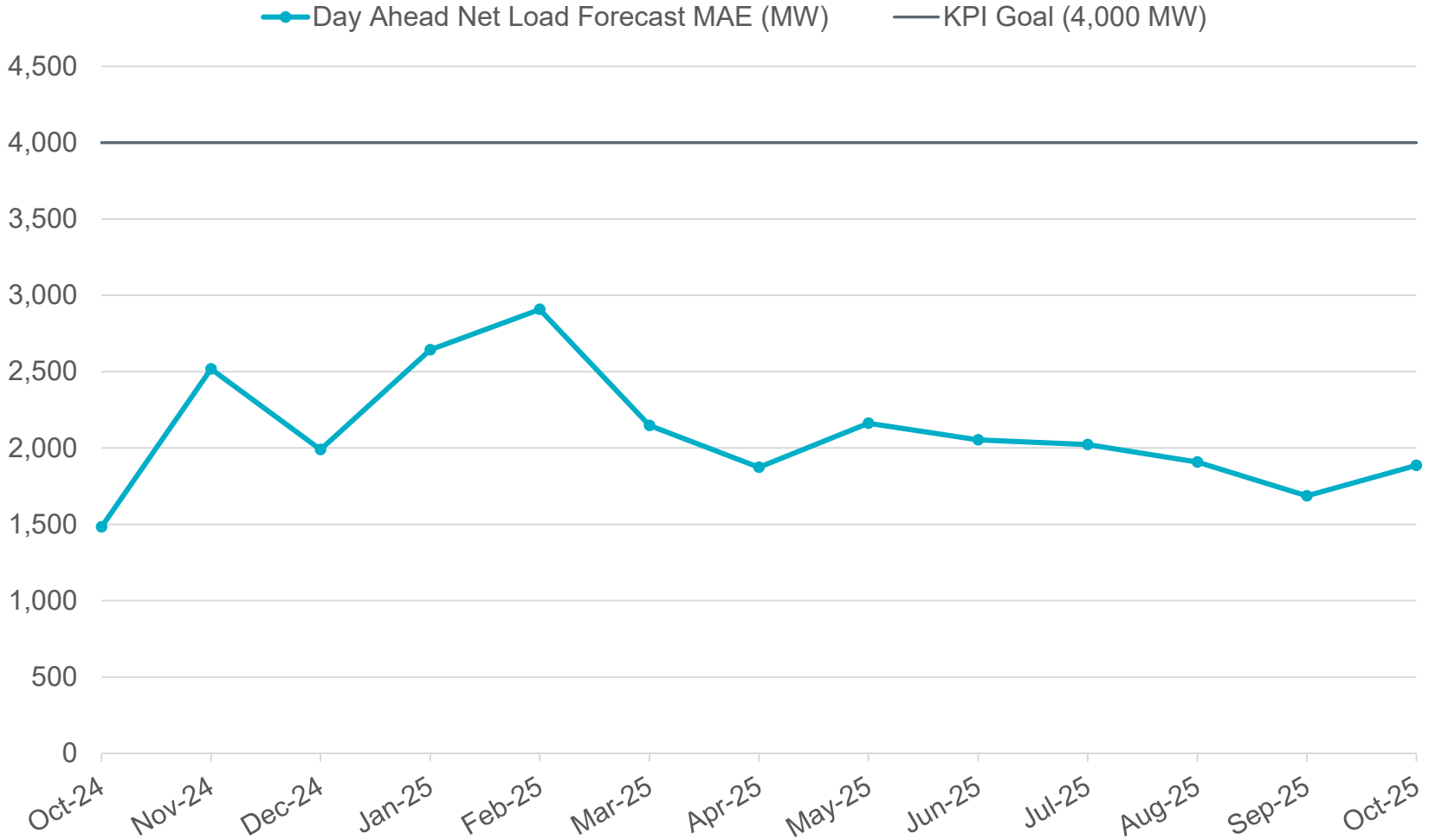
*Based on the maximum net system hourly value from the October 2025 Demand and Energy report.

**Based on the minimum net system 15-minute interval value from the October 2025 Demand and Energy report.

Data for latest two months are based on preliminary settlements.

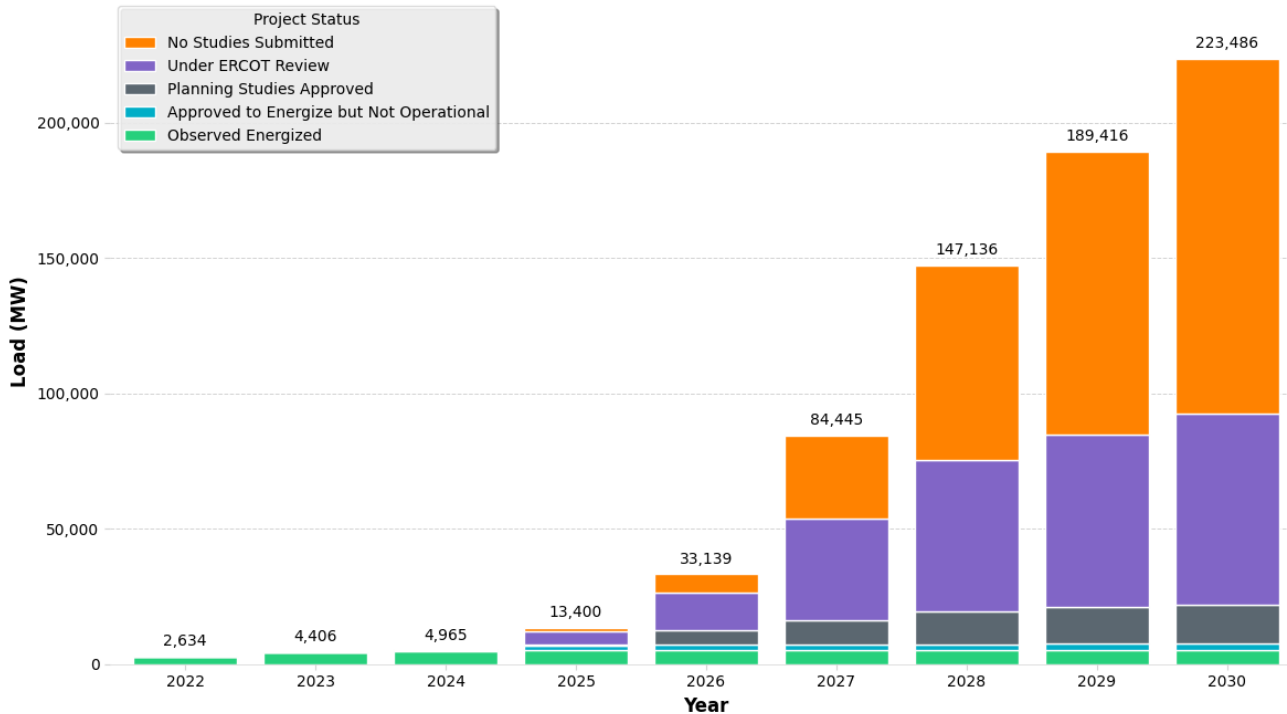
Net Load Forecast Performance

Day Ahead Net Load Forecast - Mean Absolute Forecast Error



Current Large Load Interconnection Queue

Actual and Projected Large Load Growth 2022-2030



Project Status	2022	2023	2024	2025	2026	2027	2028	2029	2030
No Studies Submitted	0	0	0	1,414	6,885	30,730	71,859	104,699	131,058
Under ERCOT Review	0	0	0	4,720	13,935	37,648	55,859	63,822	70,630
Planning Studies Approved	0	0	0	637	5,118	8,866	12,217	13,394	14,297
Approved to Energize but Not Operational	0	79	133	1,329	1,901	1,901	1,901	2,201	2,201
Observed Energized	2,634	4,327	4,832	5,300	5,300	5,300	5,300	5,300	5,300
Total (MW)	2,634	4,406	4,965	13,400	33,139	84,445	147,136	189,416	223,486

Observed Energized – Projects that have received Approval to Energize from ERCOT Operations and are fully operational. Represented by all time non-simultaneous peak load consumption.

Approved to Energize but Not Operational – Projects that have received Approval to Energize from ERCOT Operations but are not observed to be operational.

Planning Studies Approved – Projects that have received ERCOT approval of required interconnection studies. Any MWs that were not approved are reclassified as No Studies Submitted.

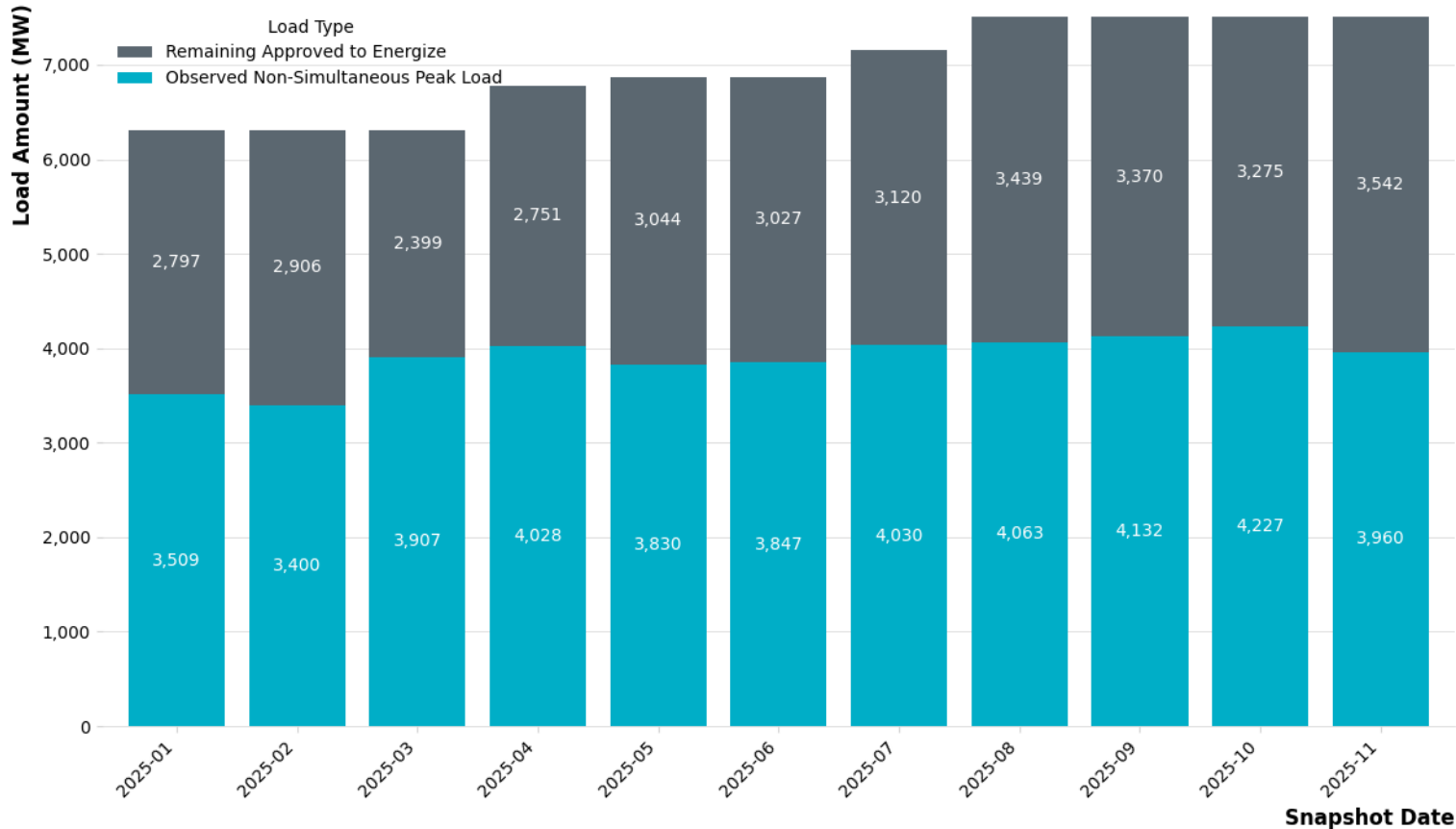
Under ERCOT Review – Projects that have studies under review by ERCOT.

No Studies Submitted – Projects that are tracked by ERCOT but that have not yet provided sufficient information for ERCOT to begin review. Additionally, MWs that were not approved by ERCOT after review of planning studies are included in this category until a path to interconnect these MWs is identified, or the customer cancels the interconnection request.

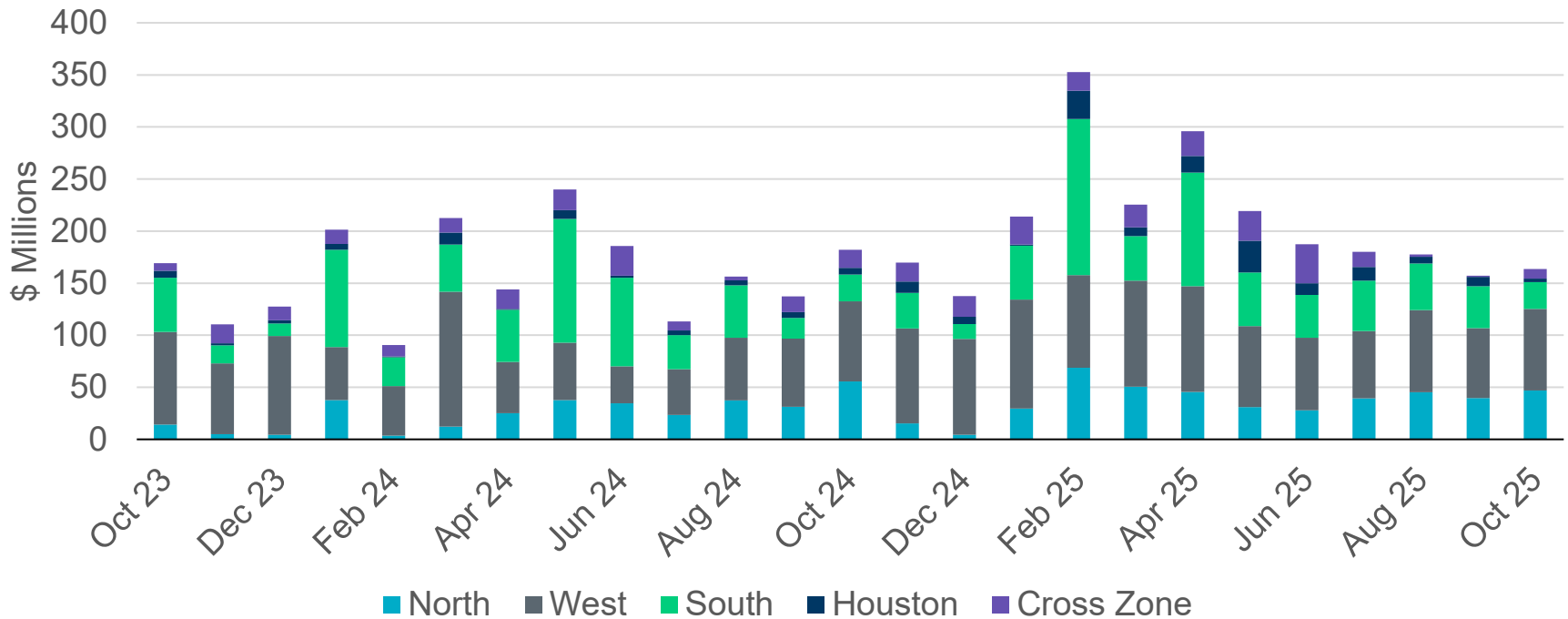


Loads Approved to Energize – Observations

- Of the 7502 MW that have received Approval to Energize, ERCOT has observed a **non-simultaneous** monthly peak consumption of 3960 MW in November 2025 which is a slight decrease since October 2025.
 - This is calculated as the sum of the maximum value for each individual load per month
 - This value represents how much approved load ERCOT believes is now operational



Real-Time Congestion Rent Slightly Increased This Month



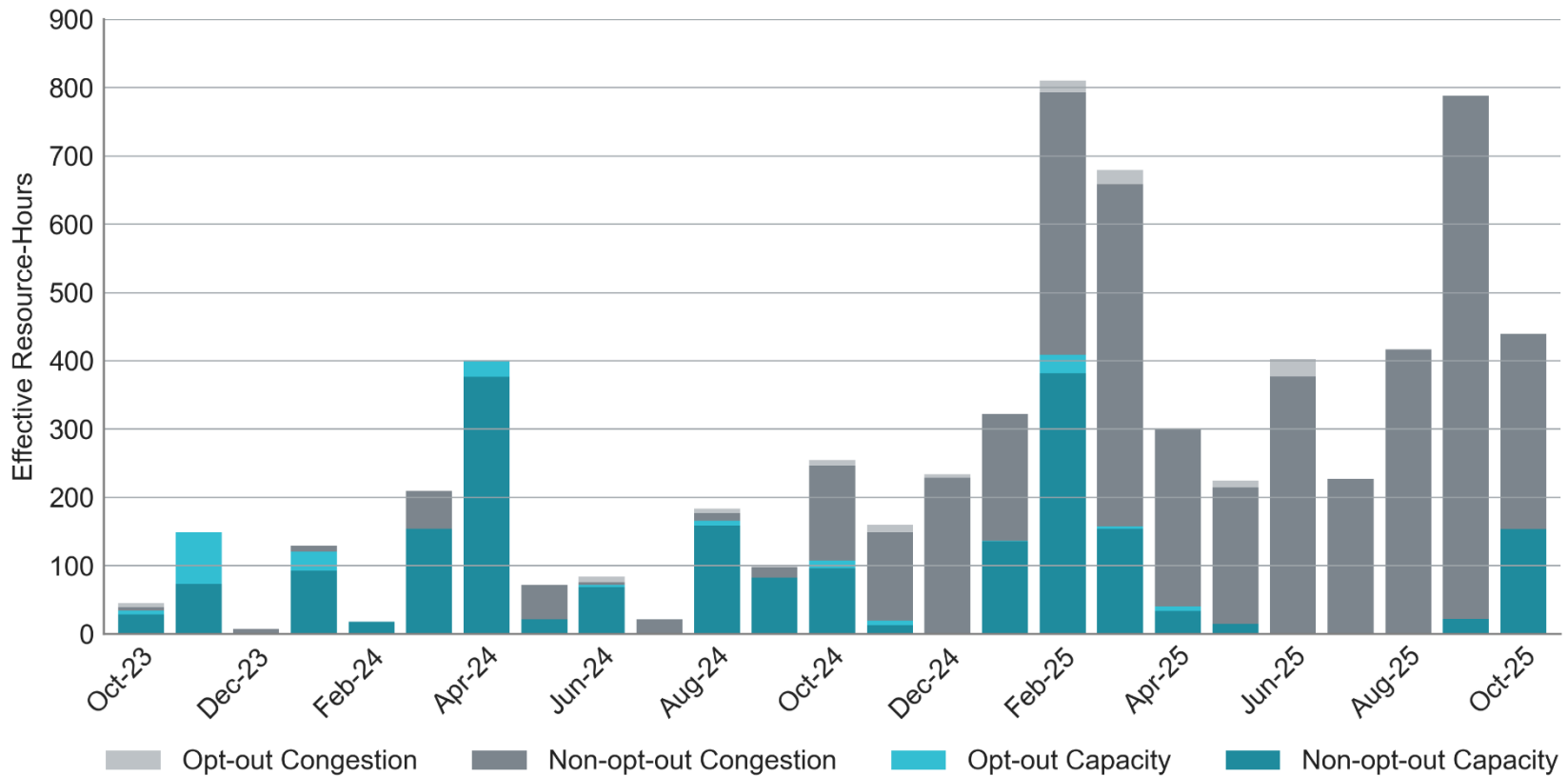
- Total Real-Time congestion rent slightly increased in October compared to September, with the highest congestion rent in the North and West Zones.
 - Congestion rent in the West Zone was primarily driven by a constraint representing the loss of the 345 kV line from Wett Long Draw to Volta line 1 which would overload the 138 kV line from Koch Tap to Vealmoor.
 - Congestion rent in the North Zone was primarily driven by the constraint representing the loss of the 345 kV line from Salado Switch to Hutto overloading the Bell County Switch-Salado Switch 138 kV line.

Notes:

1) Congestion rent is determined using the shadow prices and MW flows for individual constraints in SCED as well as the length in time of SCED intervals.

2) The "Cross Zone" category consists of cases in which the substations on either end of the constraint are in different zones.

RUC Activity nearly halved in October compared to September and was primarily attributed to managing congestion

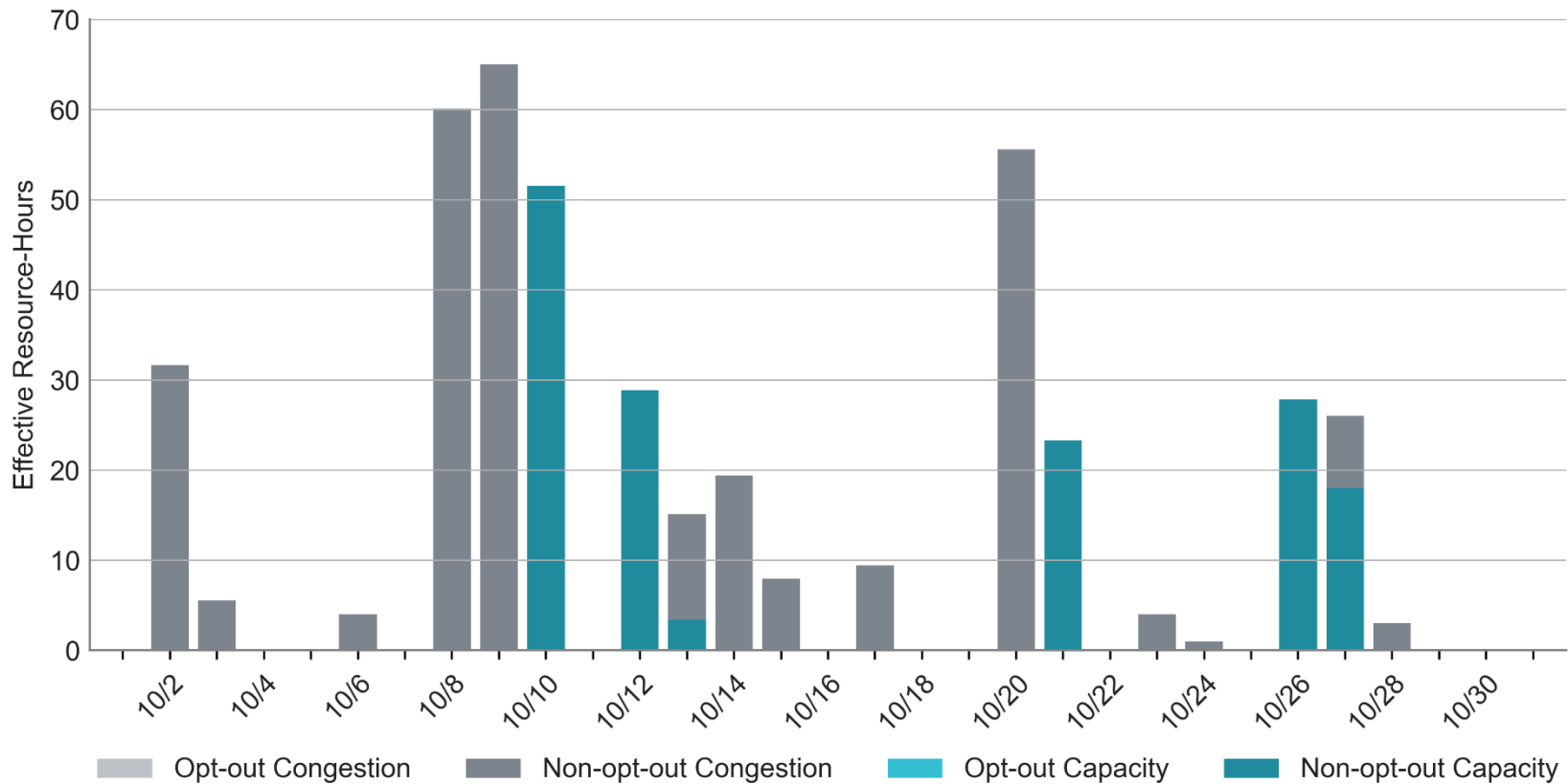


Notes:

1) "Effective Resource-Hours" excludes any period during a Reliability Unit Commitment hour when the RUC-committed Resource was starting up, shutting down, off-line, or otherwise not available for dispatch by SCED.

RUC Instruction Reasons in October 2025

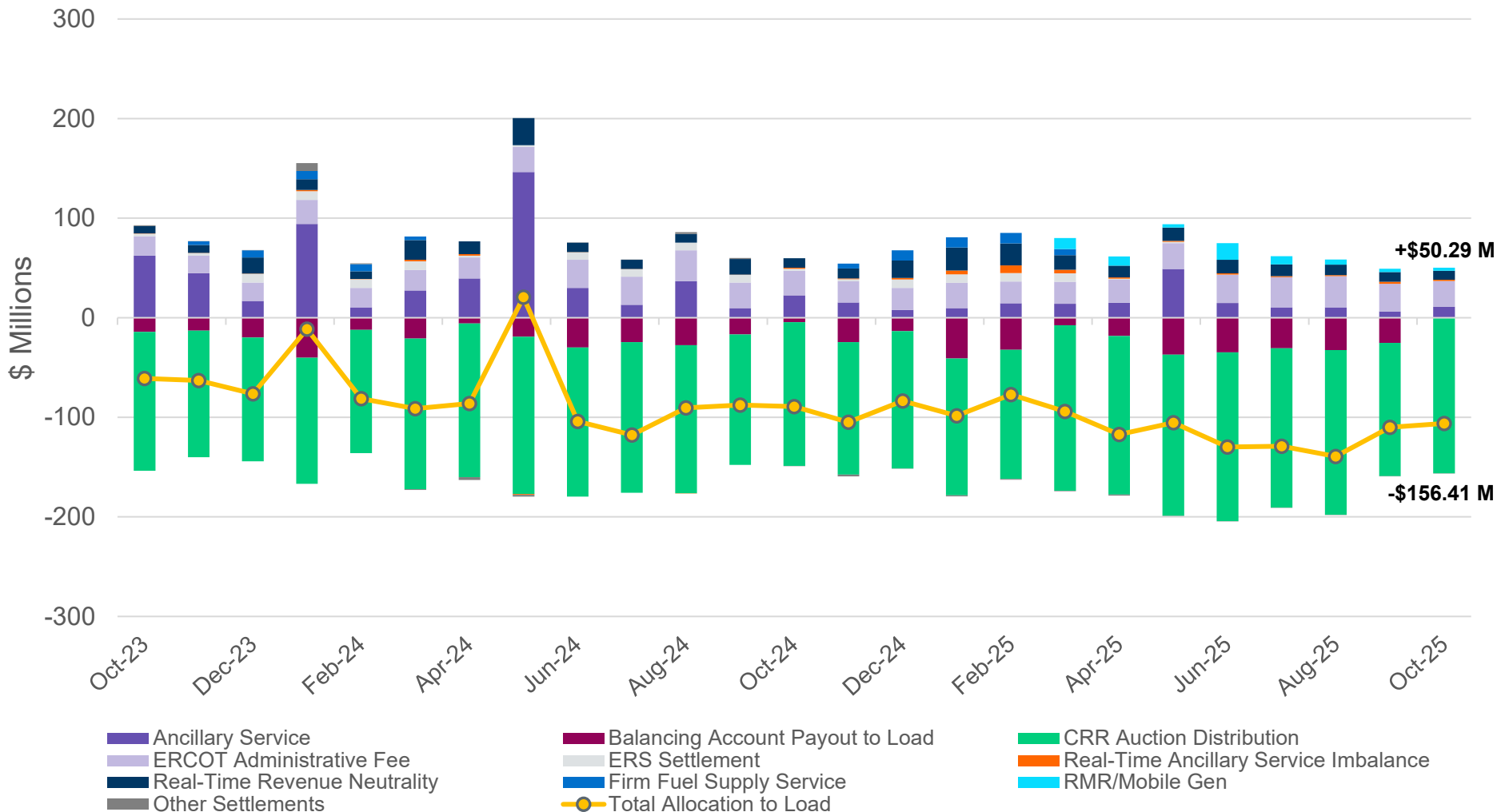
- In October there were 426.2 RUC effective Resource-hours.
 - 279.3 of these hours (65.5%) were for congestion.



Twenty-three Resources were Committed in October, Primarily for the purpose of Managing Congestion

Resource #	Effective Resource-hours	For Congestion		For Capacity	
		Opt-Out	Non-Opt-Out	Opt-Out	Non-Opt-Out
1	3.0	0.0	3.0	0.0	0.0
2	5.0	0.0	0.0	0.0	5.0
3	10.0	0.0	2.0	0.0	8.0
4	1.0	0.0	1.0	0.0	0.0
5	23.0	0.0	23.0	0.0	0.0
6	6.0	0.0	6.0	0.0	0.0
7	4.4	0.0	4.4	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0
9	16.0	0.0	12.0	0.0	4.0
10	21.2	0.0	5.2	0.0	16.0
11	32.0	0.0	8.0	0.0	24.0
12	29.3	0.0	29.3	0.0	0.0
13	39.7	0.0	31.8	0.0	7.9
14	47.5	0.0	39.6	0.0	7.9
15	8.0	0.0	4.0	0.0	4.0
16	8.4	0.0	5.0	0.0	3.4
17	31.7	0.0	23.8	0.0	7.9
18	63.3	0.0	39.6	0.0	23.8
19	30.4	0.0	19.2	0.0	11.3
20	34.2	0.0	18.5	0.0	15.7
21	0.0	0.0	0.0	0.0	0.0
22	8.0	0.0	4.0	0.0	4.0
23	4.0	0.0	0.0	0.0	4.0
Total	426.2	0.0	279.3	0.0	146.8

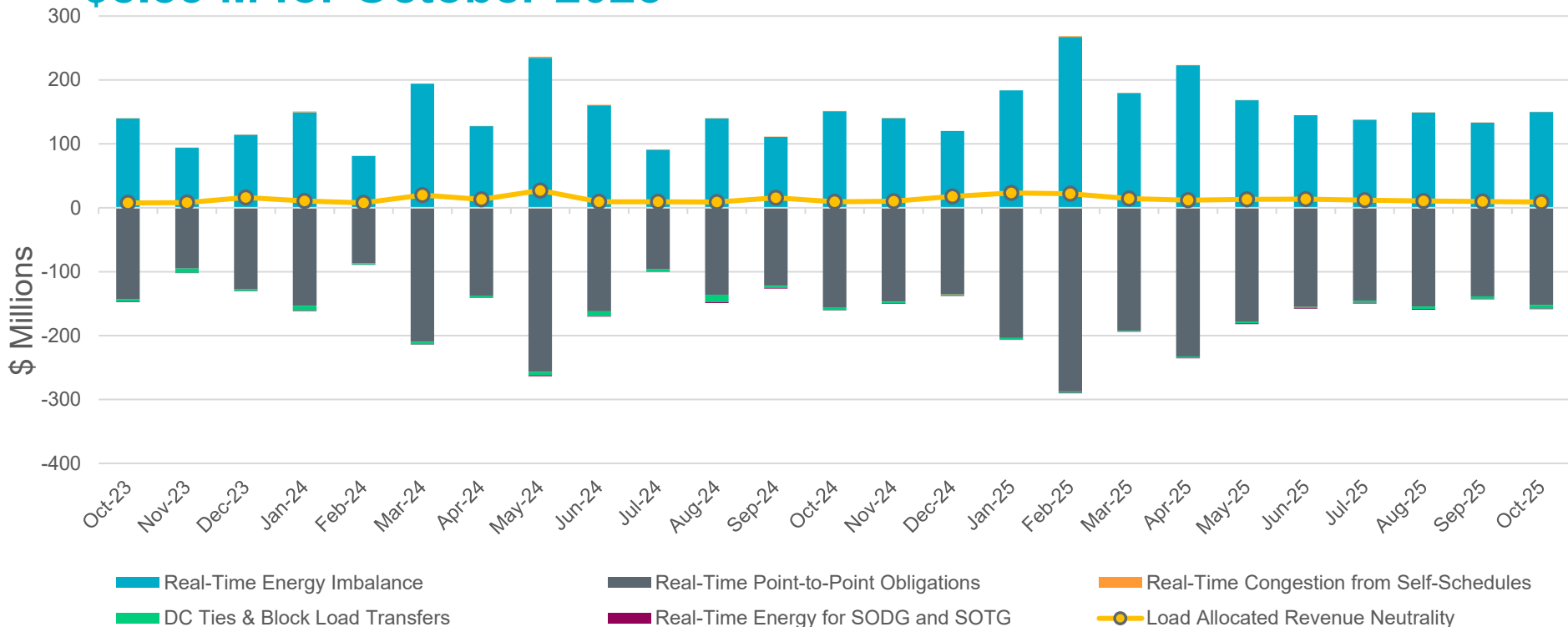
Net Allocation to Load in October 2025 was (\$106.13) Million



This information is available in tabular form in the Settlement Stability Report presented quarterly to the [Wholesale Market Subcommittee](#)



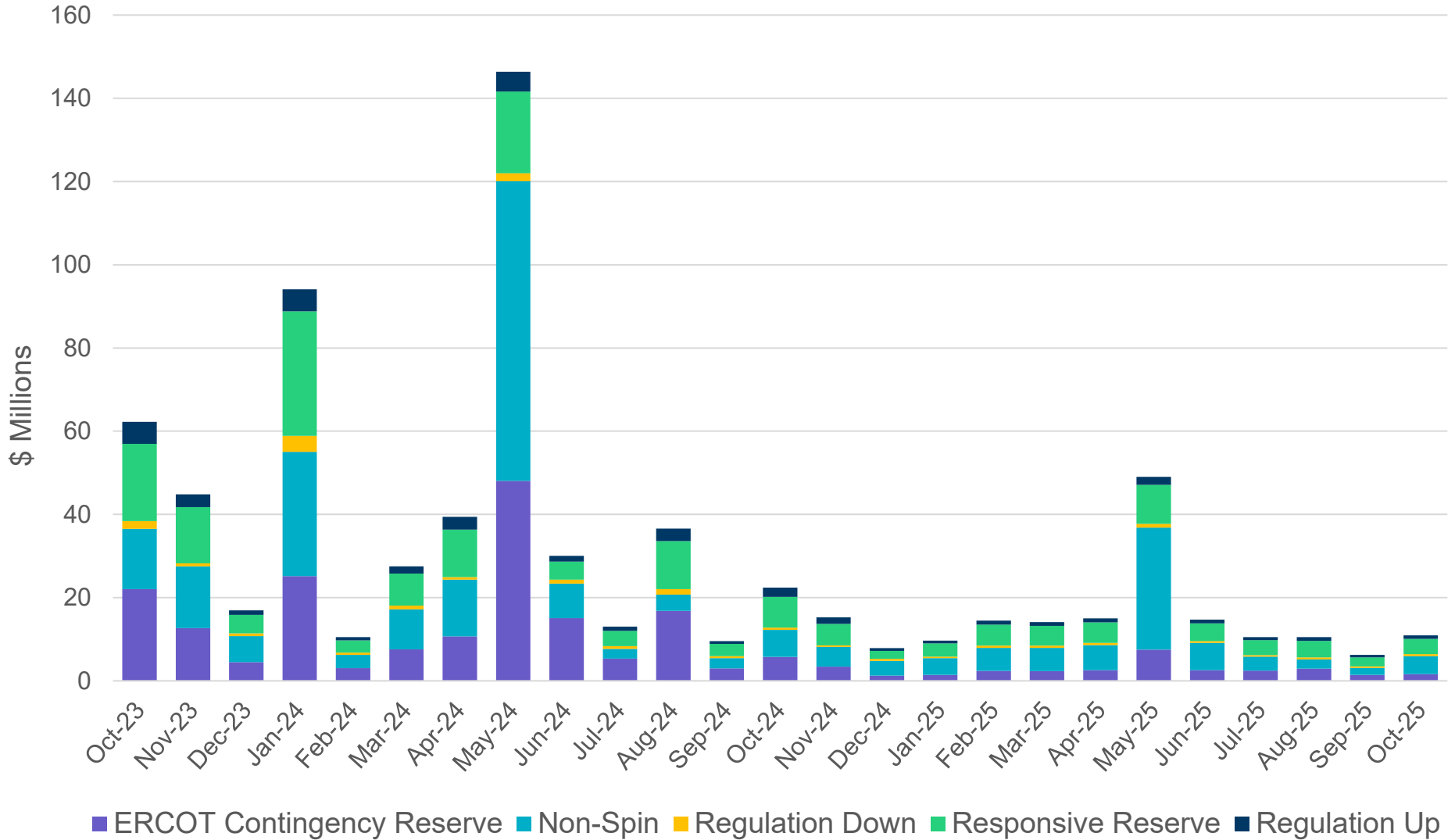
Real-Time Revenue Neutrality Allocated to Load was \$8.83 M for October 2025



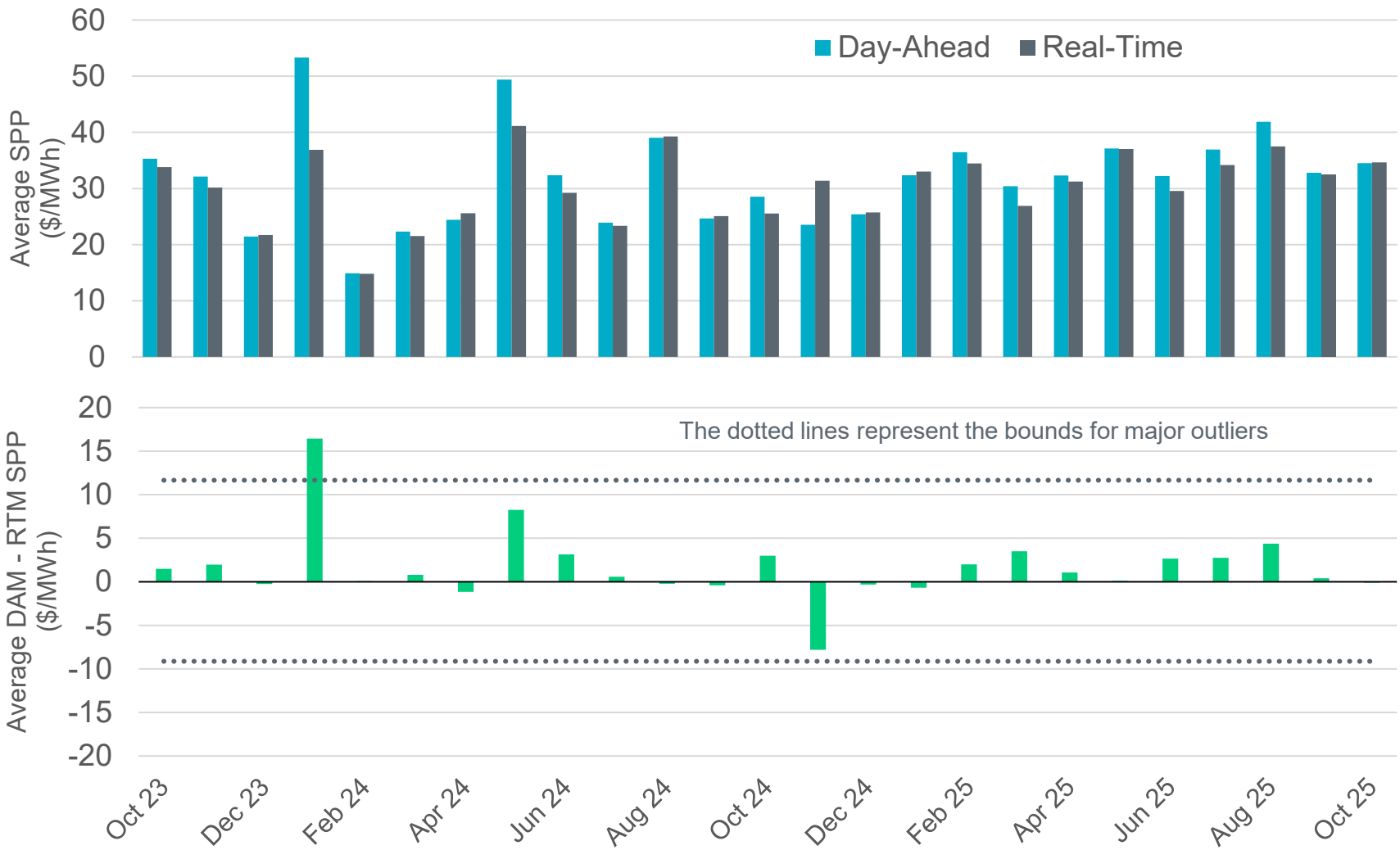
	October 2025 (\$M)
Real-Time Energy Imbalance	\$149.83
Real-Time Point-to-Point Obligation	(\$152.16)
Real-Time Congestion from Self-Schedules	\$0.18
DC Tie & Block Load Transfer	(\$5.80)
Real-Time Energy for SODG and SOTG	(\$0.88)
Load Allocated Revenue Neutrality	\$8.83



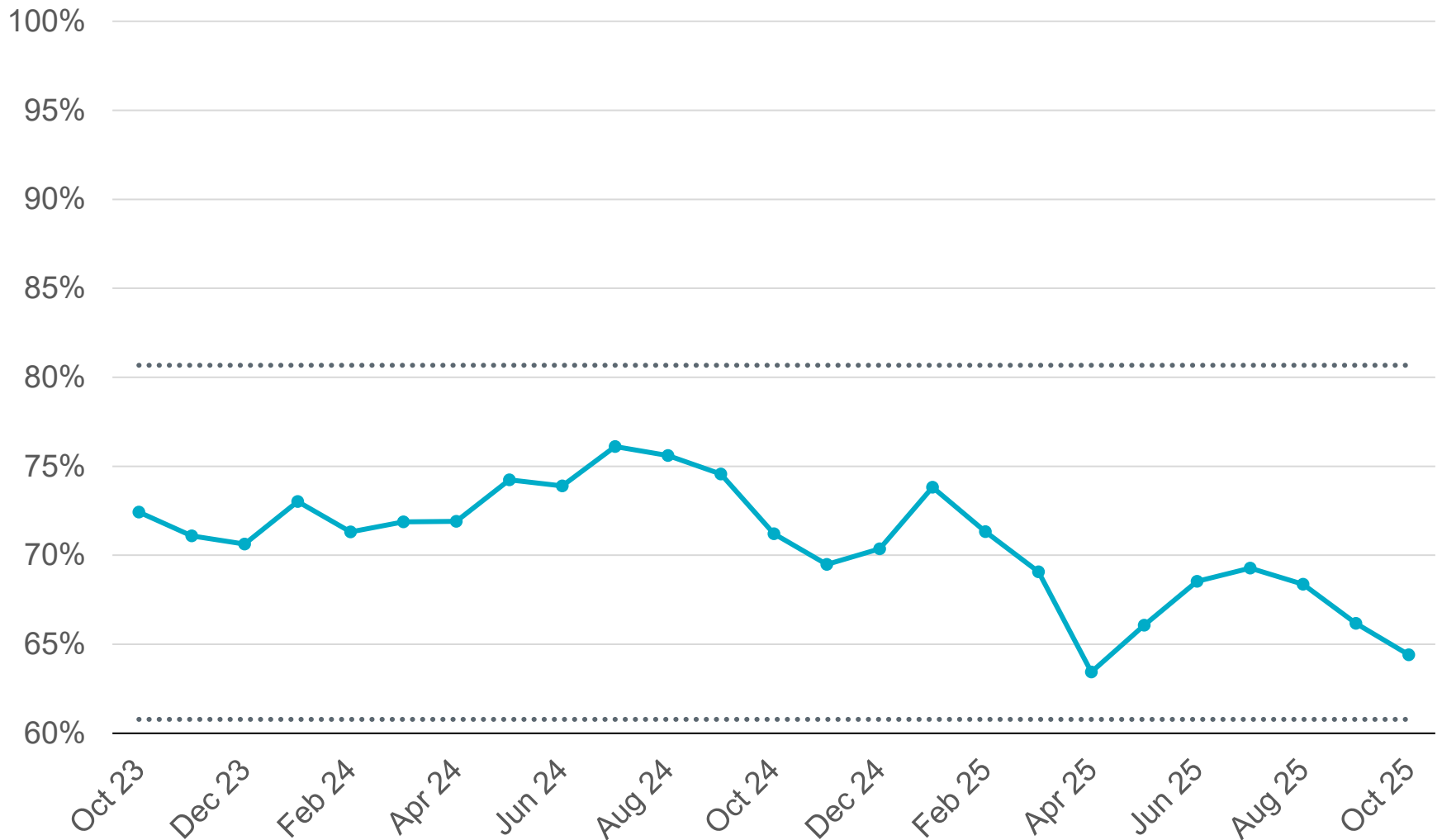
Ancillary Services for October 2025 totaled \$10.91M



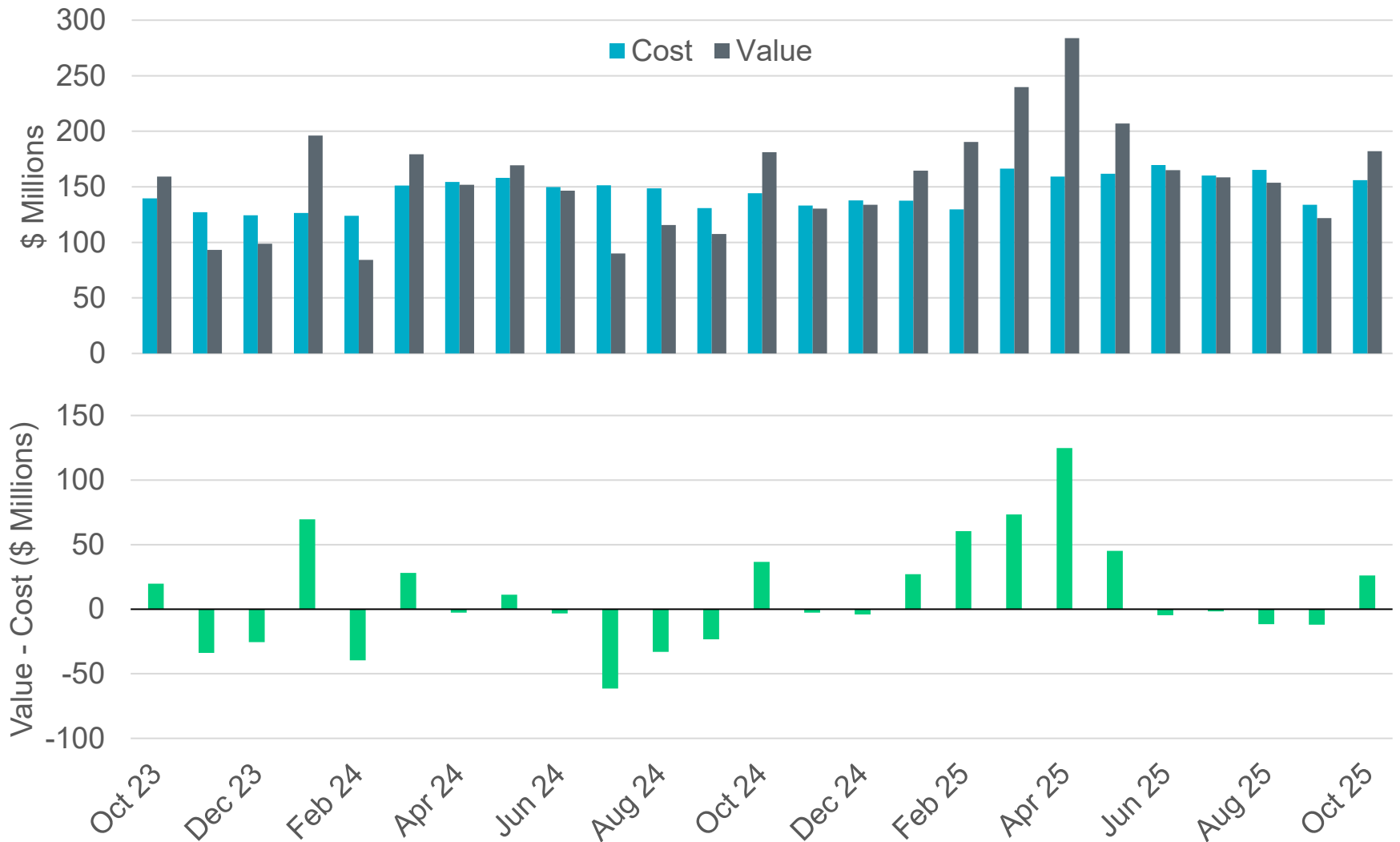
Real-Time prices were closely aligned with Day-Ahead prices in October



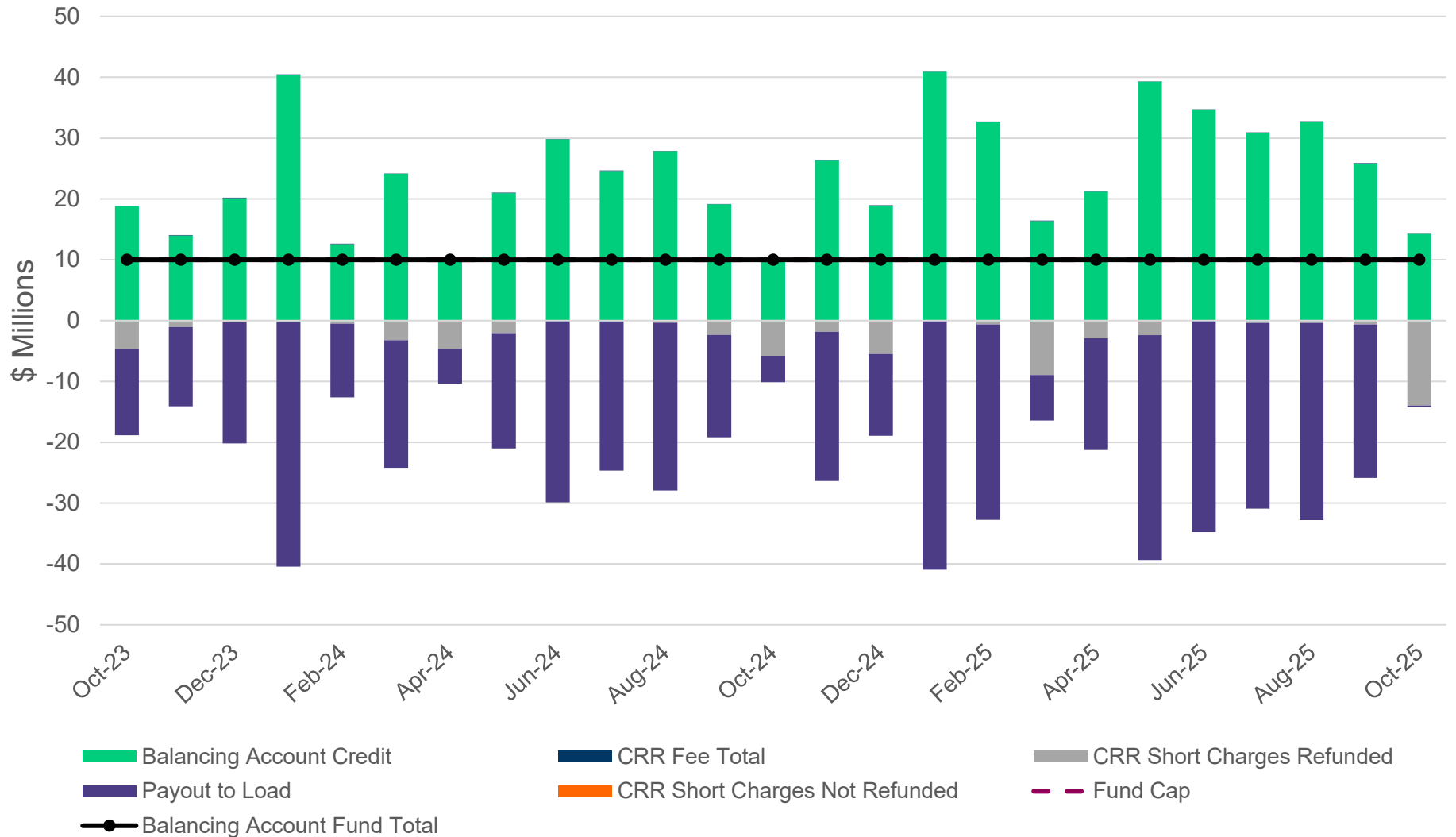
Percentage of Real-Time Load Transacted in the Day-Ahead Market Continues to Decline Since July



Congestion Revenue Right (CRR) Cost Increased from September, though CRR Value Exceeded Costs



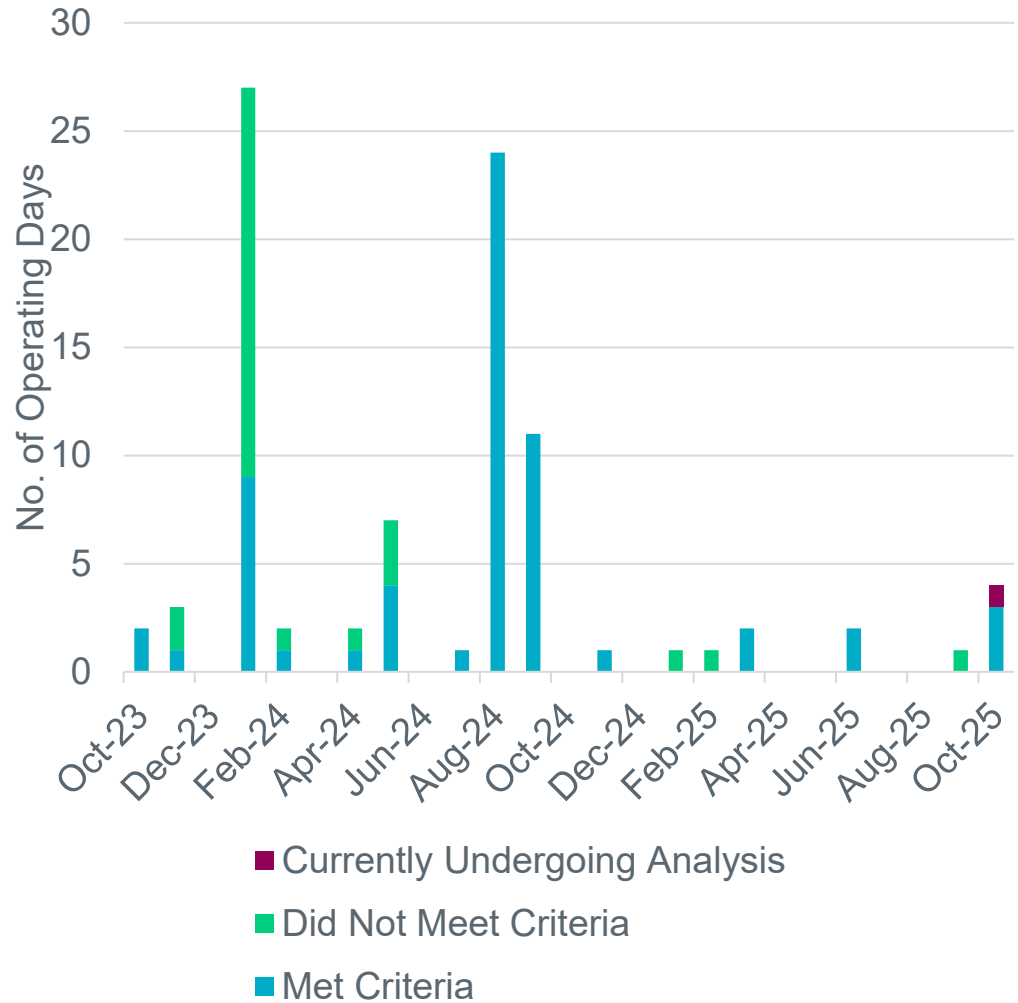
The CRR Balancing Account was fully-funded and excess amounts were allocated to Load



Price Issues and the Impact of Nodal Protocol Revision Request (NPRR) 1024 on Price Corrections

This graph looks at the recent history of price issues in the RTM or DAM and breaks the impacted Operating Days into three categories:

- Days that met the criteria for “significance” under NPRR1024 and were corrected;
- Days that were not corrected because they did not meet the criteria for “significance” under NPRR1024; and
- Days that are currently undergoing analysis to determine if they met criteria for “significance” under NPRR1024.



Details for Price Corrections Review

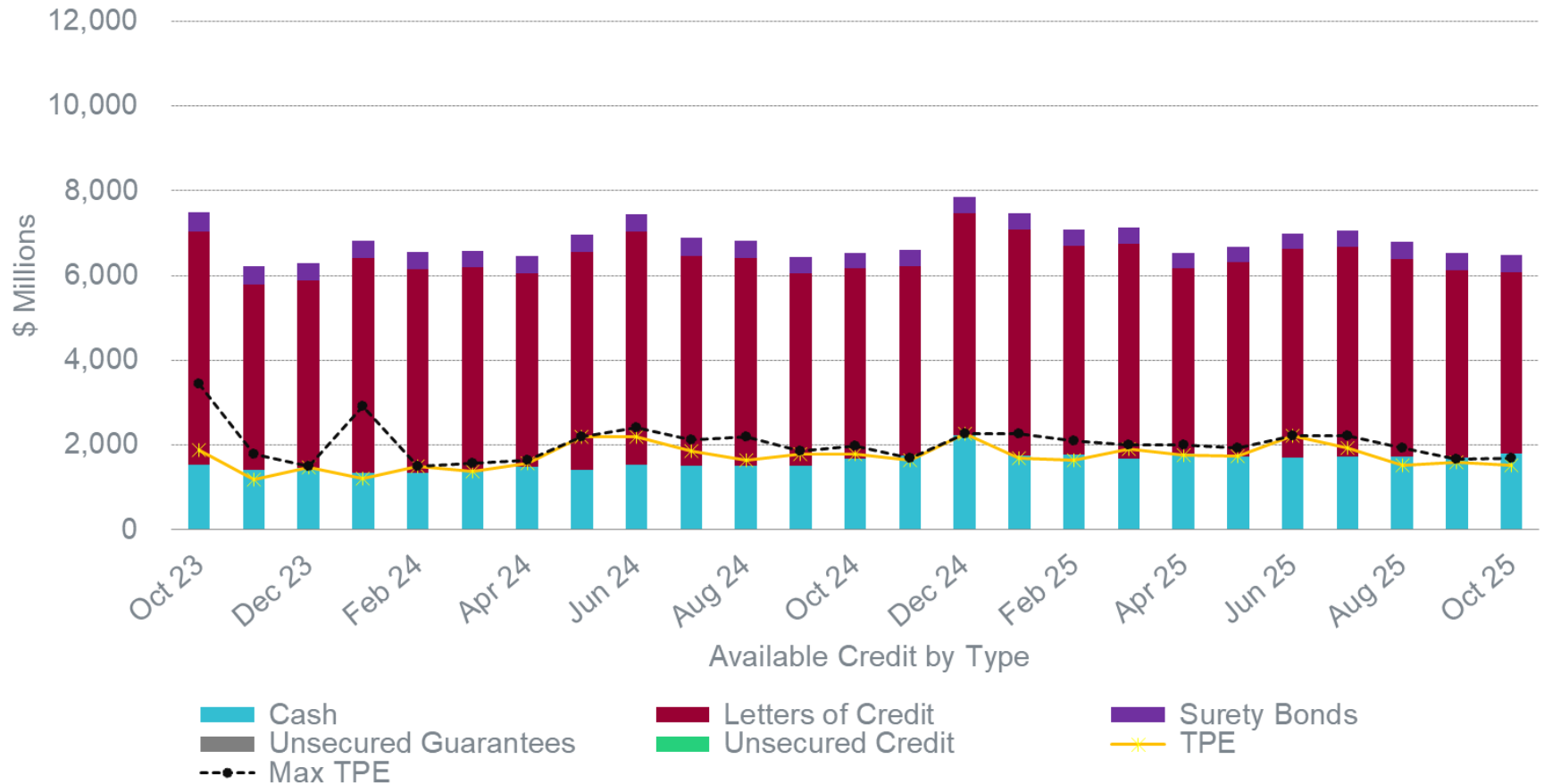
On Operating Day October 7, 2025, a software defect caused Security- Constrained Economic Dispatch (SCED) to fail to run for intervals 00:00 through 00:25. SCED subsequently ran successfully at 00:28. The root cause was determined to be a SCED software defect that was triggered during the creation of the capped and bounded Energy Offer Curve (EOC) of a Resource. Prices were corrected before becoming final on October 9 at 4 PM.

On Operating Day October 8, 2025, a software defect caused SCED to fail to run for intervals 08:05 through 08:40. SCED subsequently ran successfully at 08:44. The root cause was determined to be a Market Management System (MMS) software defect that was triggered when a Resource submitted its Three Part Offer, with NULL percentage values for Fuel Index Price (FIP) and Fuel Oil Price (FOP), after the Adjustment Period. Prices were corrected before becoming final on October 10 at 4 PM.

On Operating Day October 12, 2025, a memory issue resulted in SCED producing erroneous results for interval 8:20, that were not published to the market. The issue was fixed by the next SCED execution at 8:25. Interval 8:15 was treated as a long SCED run. Prices were corrected before becoming final on October 14 at 4 PM.

On Operating Day October 14, 2025, a software defect in EMS resulted in an incorrect value for Generation to be Dispatched (GTBD) being sent to SCED for multiple intervals between 20:10 and 21:15. ERCOT is currently performing analysis to determine if the impacted OD meets criteria for significance to pursue Board review for price correction.

Available Credit by Type Compared to Total Potential Exposure (TPE)



*Numbers are as of month end except for Max TPE



Retail Transaction Volumes – Summary – October 2025

Transaction Type	Year-To-Date		Transactions Received	
	October 2025	October 2024	October 2025	October 2024
Switches	1,246,584	1,051,226	141,210	86,198
Acquisitions	0	0	0	0
Move - Ins	2,526,834	2,693,988	253,263	270,801
Move - Outs	1,232,899	1,227,470	124,264	133,996
Continuous Service Agreements (CSA)	670,746	368,242	36,452	45,654
Mass Transitions	0	0	0	0
Total	5,677,063	5,340,926	555,189	536,649