ERCOT Monthly Operational Overview
(June 2025)

ERCOT Public
July 17, 2025

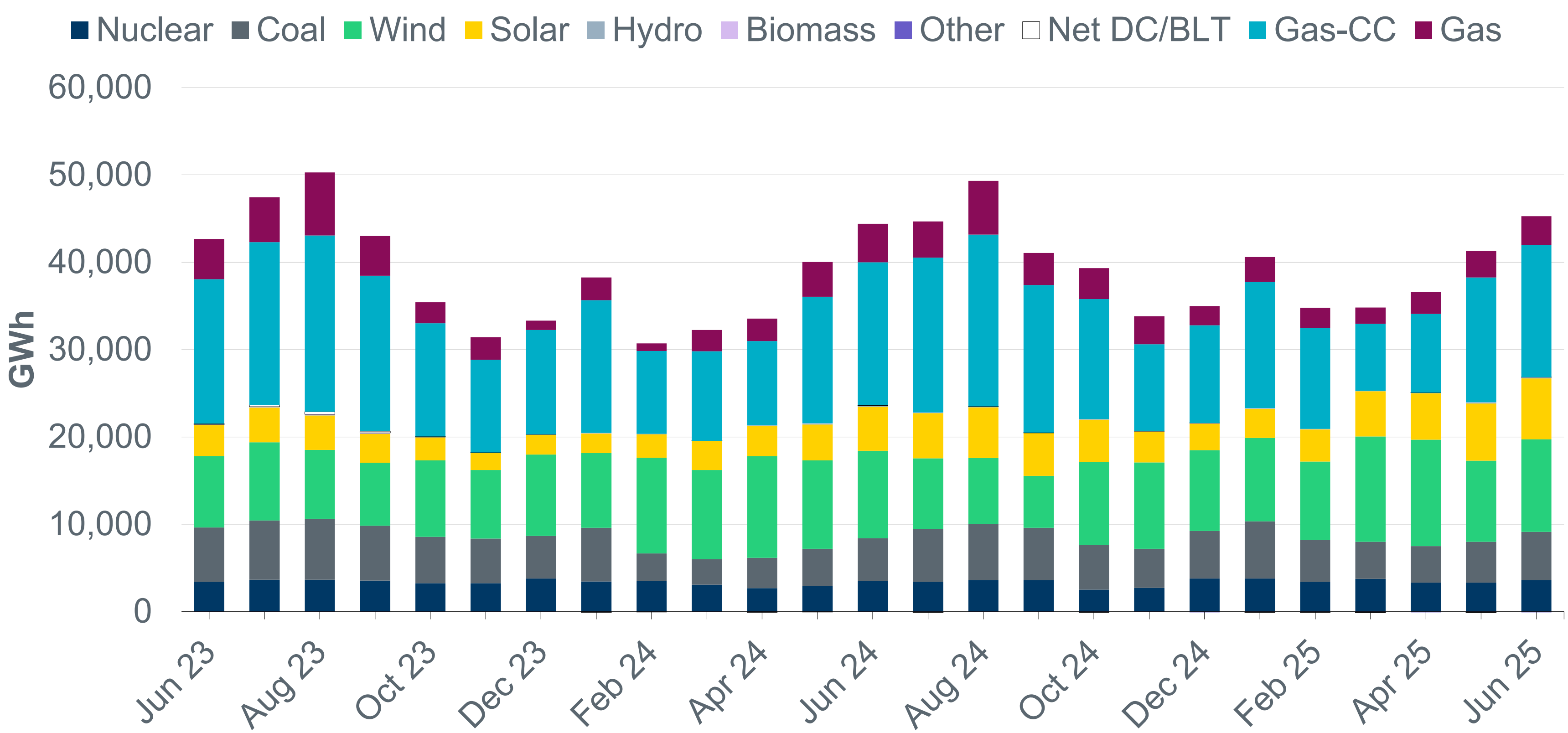
Highlights, Records and Notifications

- ERCOT's maximum peak demand for the month of June was 77,351 MW* on 6/19/25; this is 2,346 MW less than the June 2024 demand of 79,697 MW set on 6/30/24.

- ERCOT issued 4 notifications:
  - 1 Advisory – Due to ERCOT's Transient Security Assessment Tool being unavailable.
  - 1 Advisory – Due to the Space Weather Prediction Center issuing a GMD Alert of K7 on June 1, 2025.
  - 1 Watch – Due to wind gusts up to 90 mph in the North Texas area including the DFW area within the ERCOT Region from June 8, 2025, to June 9, 2025.
  - 1 Emergency Notice – Due to a post contingency overload in the Northwest Texas Region, ERCOT instructed a Load Curtailment totaling 10 MW in the Childress area of the ERCOT Region due to multiple Forced Outages causing severe post contingent overloads on June 8, 2025.

* Preliminary value from July Demand and Energy 2025 report.

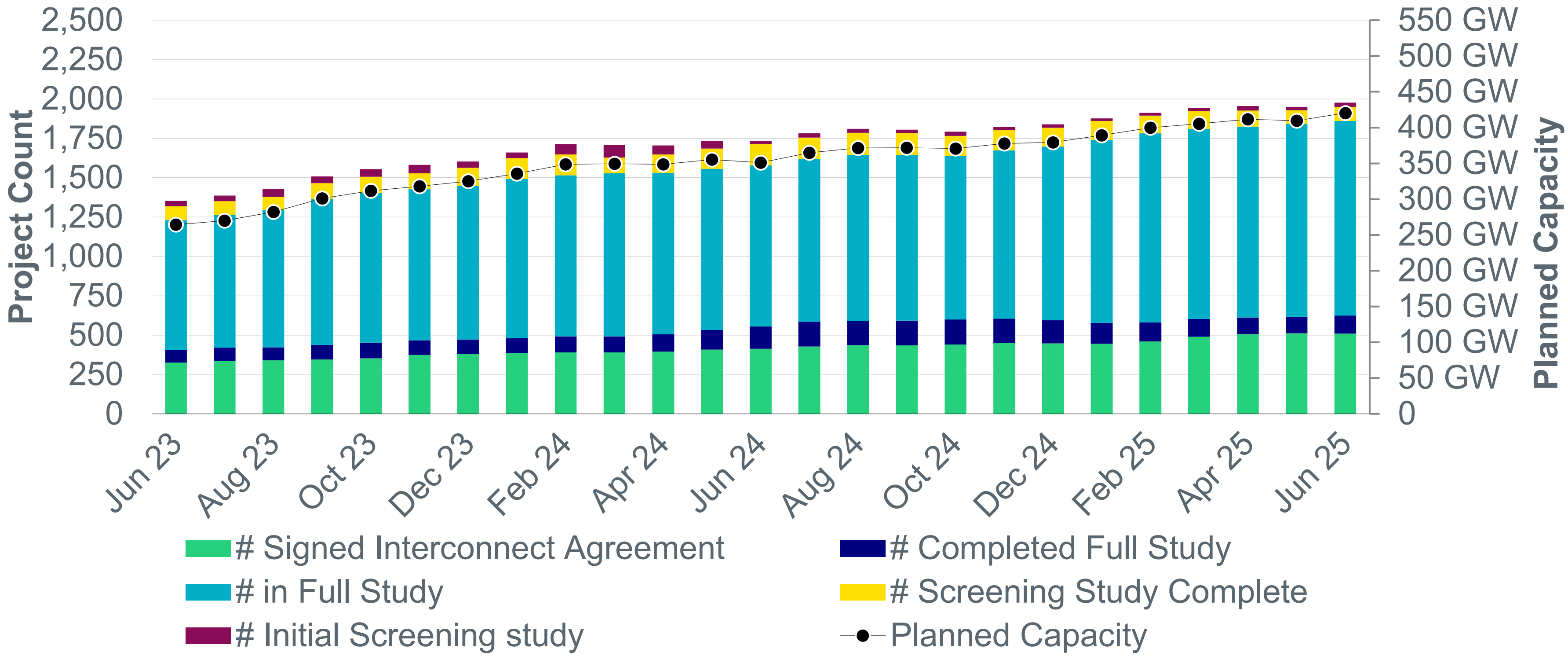
Monthly energy generation increased by 1.8% year-over-year to 45,166 GWh in June 2025, compared to 44,375 GWh in June 2024



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)

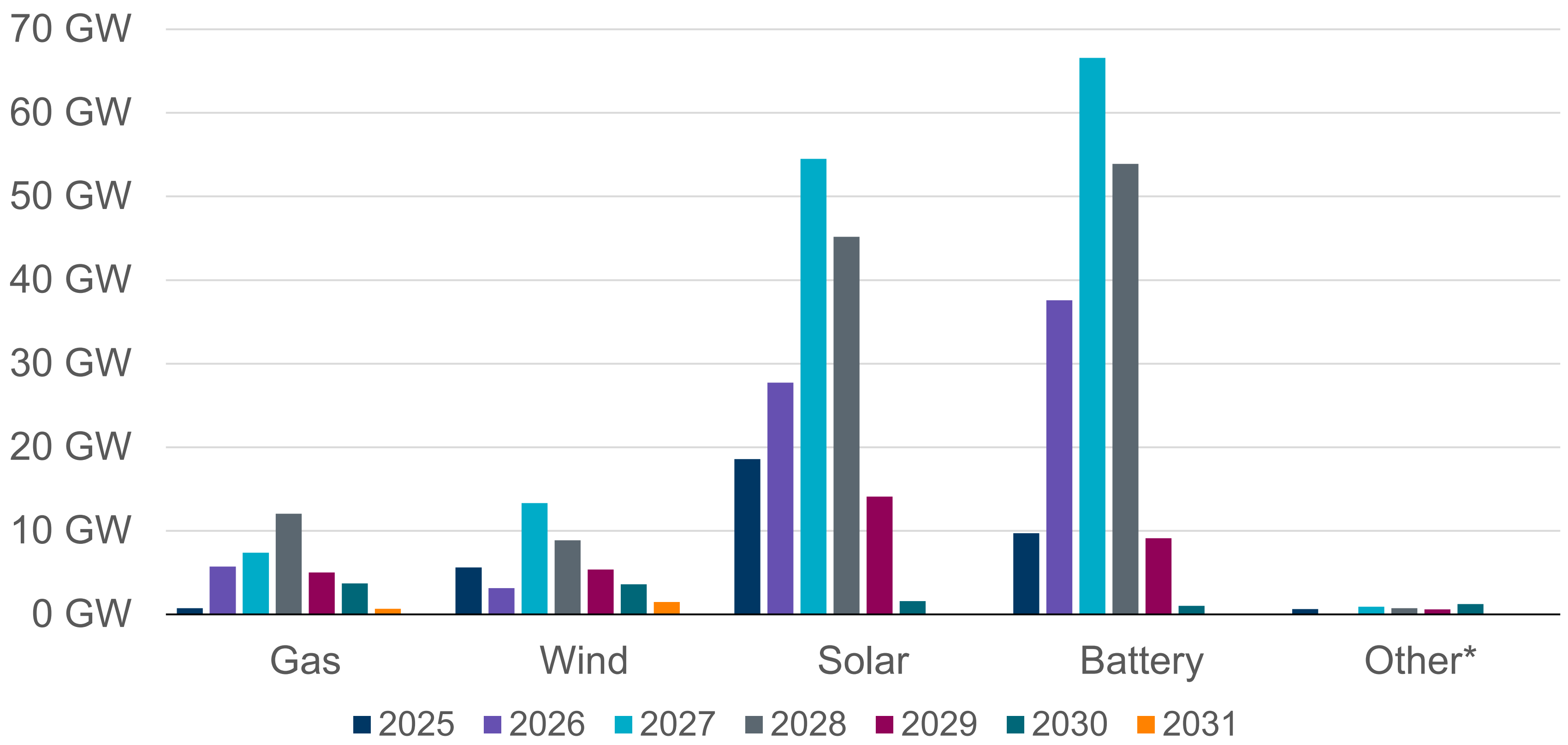


- There are an additional 50 “Small Generator” projects totaling 463 MW that are going through the simplified interconnection process.
- A break-out by fuel type can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: http://www.ercot.com/gridinfo/resource

Interconnection Queue Capacity by Fuel Type

Queue totals: Solar 162 GW (38.5%), Wind 41 GW (9.9%), Gas 35 GW (8.4%), Battery 178 GW (42.3%), Other 4 GW (1%)

(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 2,054 active generation interconnection requests totaling 420,381 MW as of June 30. This includes 161,677 MW of solar, 41,414 MW of wind, 177,929 MW of battery, and 35,260 MW of gas projects; 122 projects were categorized as inactive, down from 124 inactive projects in May 2025.

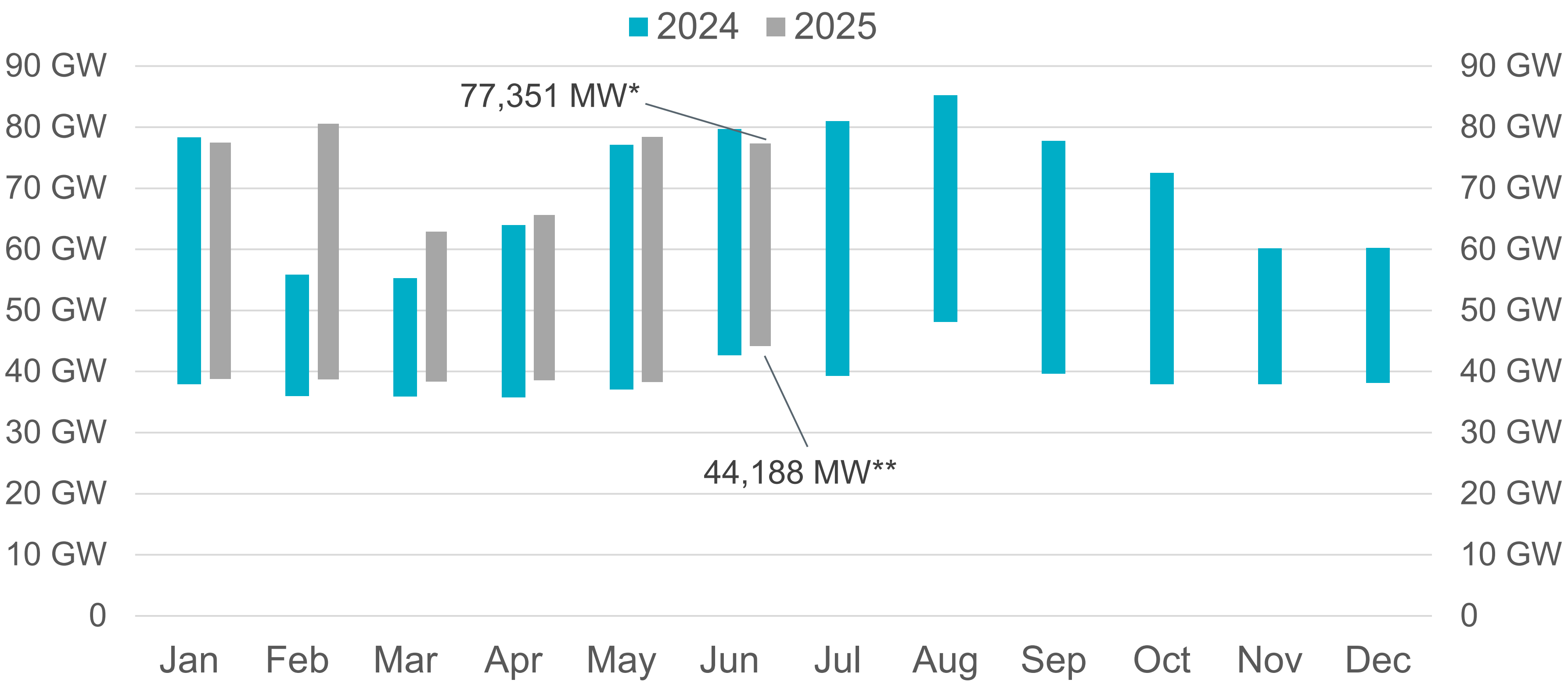
- ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $3.211 billion as of June 30, 2025.

- Transmission Projects endorsed in 2025 total $2.279 billion as of June 30, 2025.

- All projects (in engineering, routing, licensing and construction) total approximately $16.866 billion as of February 1, 2025.

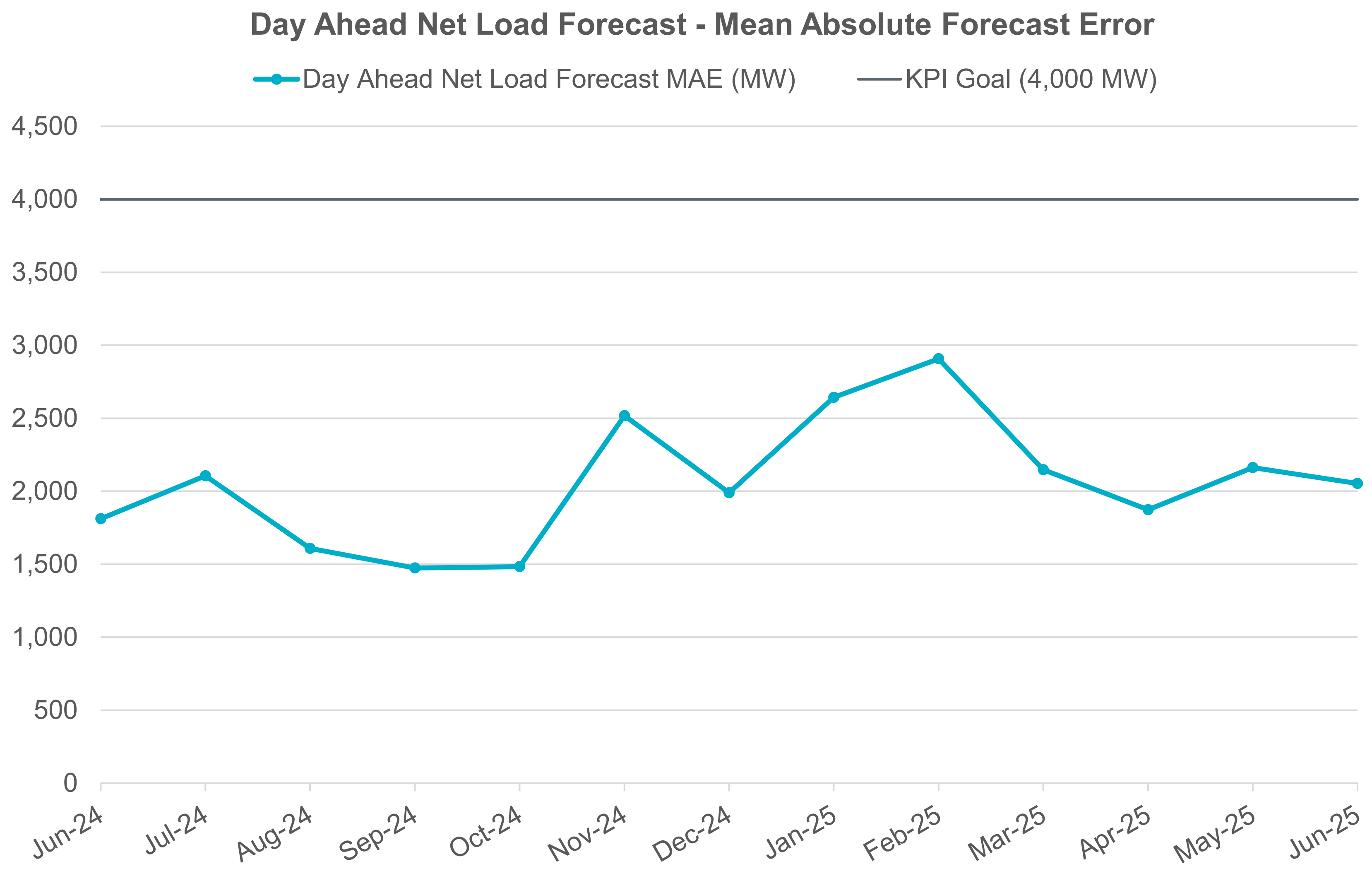
- Transmission Projects energized in 2025 total approximately $386.78 million as of February 1, 2025.

ERCOT's maximum peak demand for the month of June was 77,351 MW* on 6/19/25; this is 2,346 MW less than the June 2024 demand of 79,697 MW set on 6/30/24.

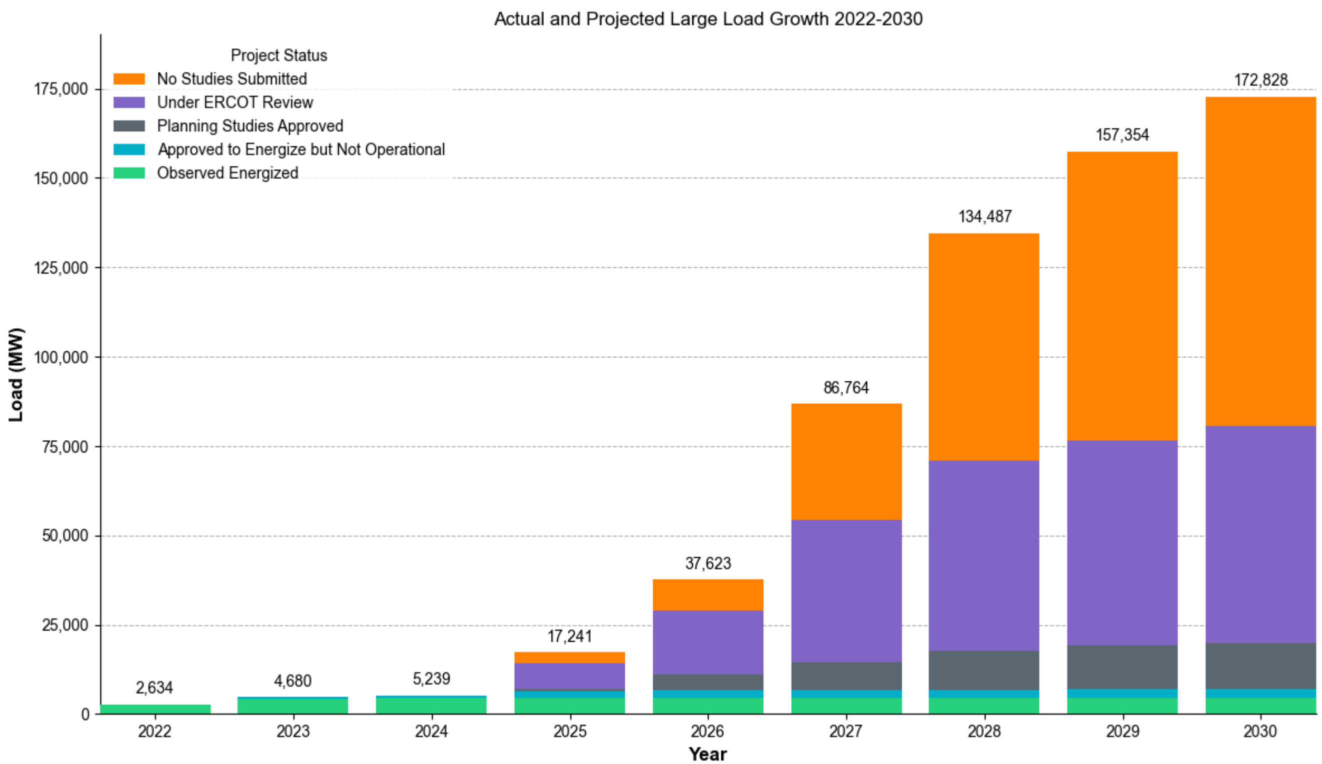


*Based on the maximum net system hourly value from the June 2025 Demand and Energy report.
**Based on the minimum net system 15-minute interval value from the June 2025 Demand and Energy report.
Data for latest two months are based on preliminary settlements.

Net Load Forecast Performance



Current Large Load Interconnection Queue



Project Status	2022	2023	2024	2025	2026	2027	2028	2029	2030
No Studies Submitted	0	0	0	3,047	8,794	32,425	63,430	80,680	92,081
Under ERCOT Review	0	0	0	7,027	17,649	39,712	53,524	57,391	60,824
Planning Studies Approved	0	0	0	623	4,484	7,931	10,837	12,287	12,927
Approved to Energize but Not Operational	0	569	623	1,928	2,080	2,080	2,080	2,380	2,380
Observed Energized	2,634	4,111	4,616	4,616	4,616	4,616	4,616	4,616	4,616
Total (MW)	**2,634**	**4,680**	**5,239**	**17,241**	**37,623**	**86,764**	**134,487**	**157,354**	**172,828**

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.

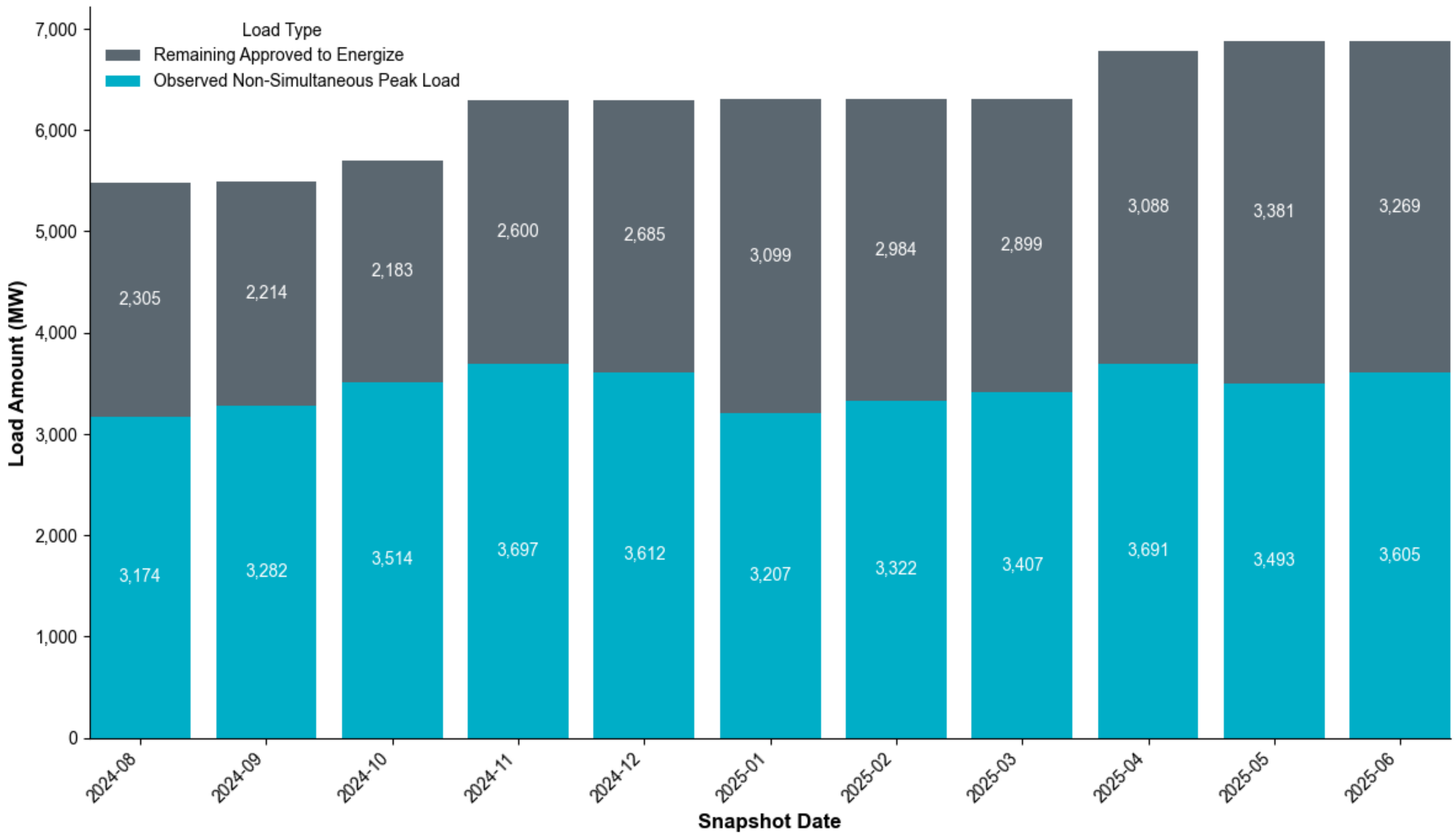
Planning Studies Approved – Projects that have received ERCOT approval of required interconnection studies. Any MWs that were not approved are reclassified as No Studies Submitted.

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

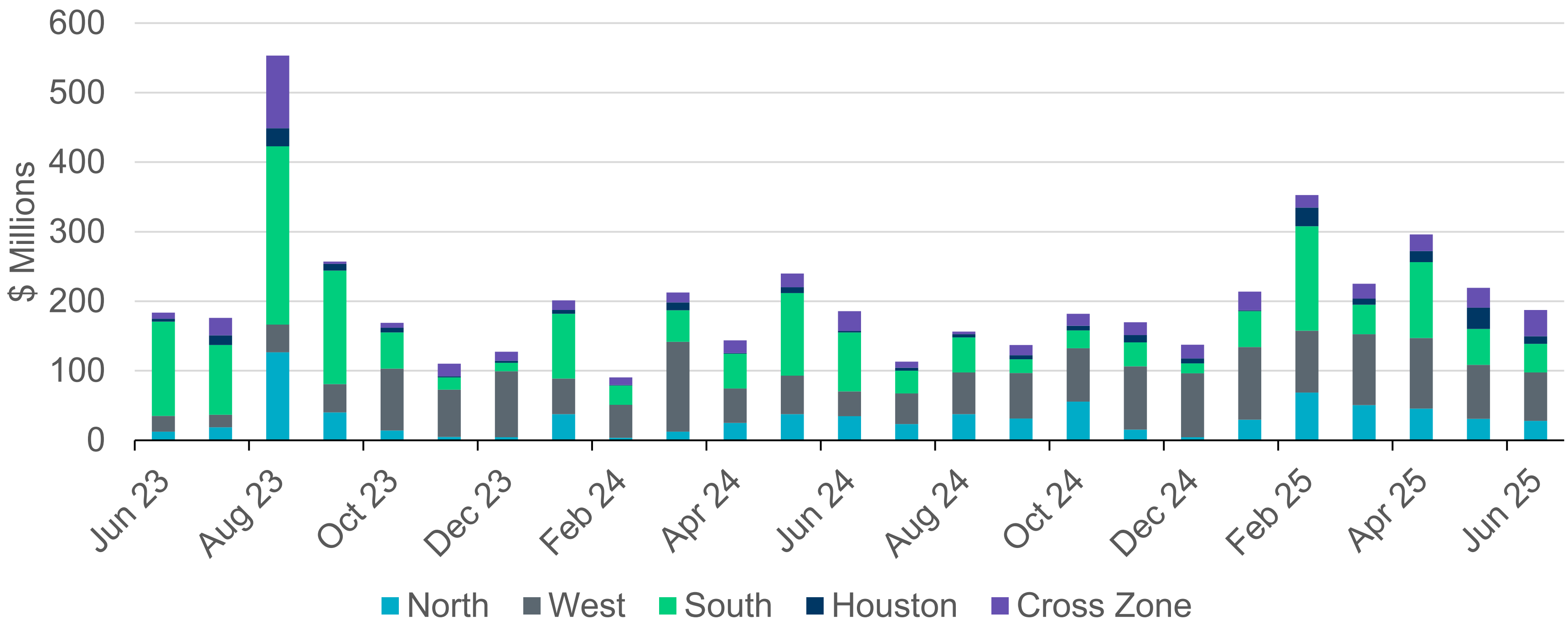
No Studies Submitted – Projects that are tracked by ERCOT but that have not yet provided sufficient information for ERCOT to begin review. Additionally, MWs that were not approved by ERCOT after review of planning studies are included in this category until a path to interconnect these MWs is identified,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

Loads Approved to Energize – Observations

- Of the 6,874 MW that have received Approval to Energize, ERCOT has observed a **non-simultaneous** monthly peak consumption of 3,605 MW in June 2025, which is a slight increase since May 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.



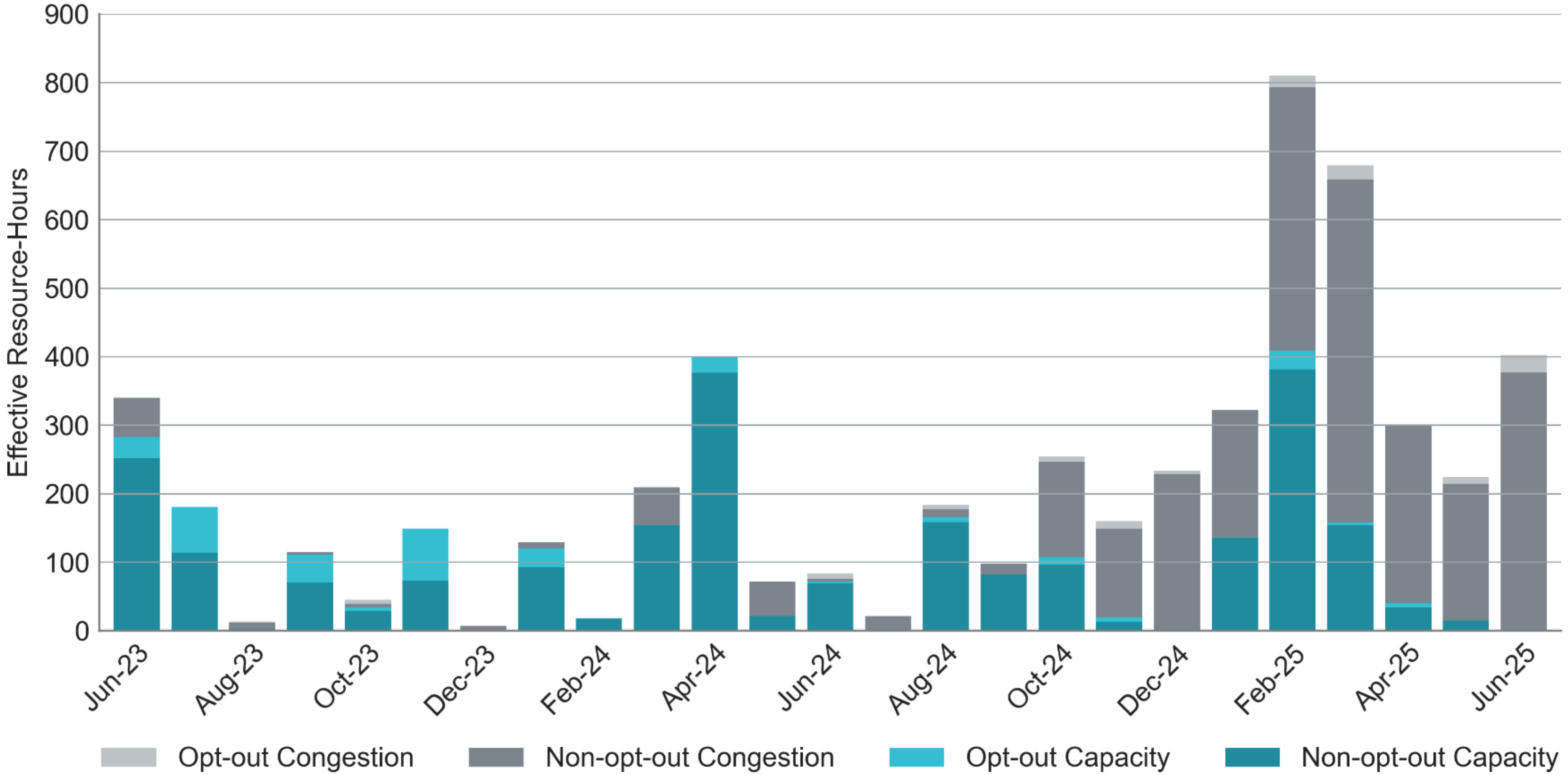
Real-Time Congestion Rent by Zone



- Total Real-Time congestion rent decreased in June compared to May, with the highest congestion rent in the West and South Zones.
  - Congestion rent in the West Zone was primarily driven by a constraint representing the loss of the 345 kV double circuit lines from Bakersfield to Cedar Canyon which would overload the 345 kV line from Longshore Switch to Consavvy Switch.
  - Congestion rent in the South Zone was primarily driven by a constraint representing the loss of the 345kV double circuit from North Edinburg to Bonilla and the 138kV line from Rio Hondo to Primera which would overload the 138kV line from La Palma to Haine Drive.

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.

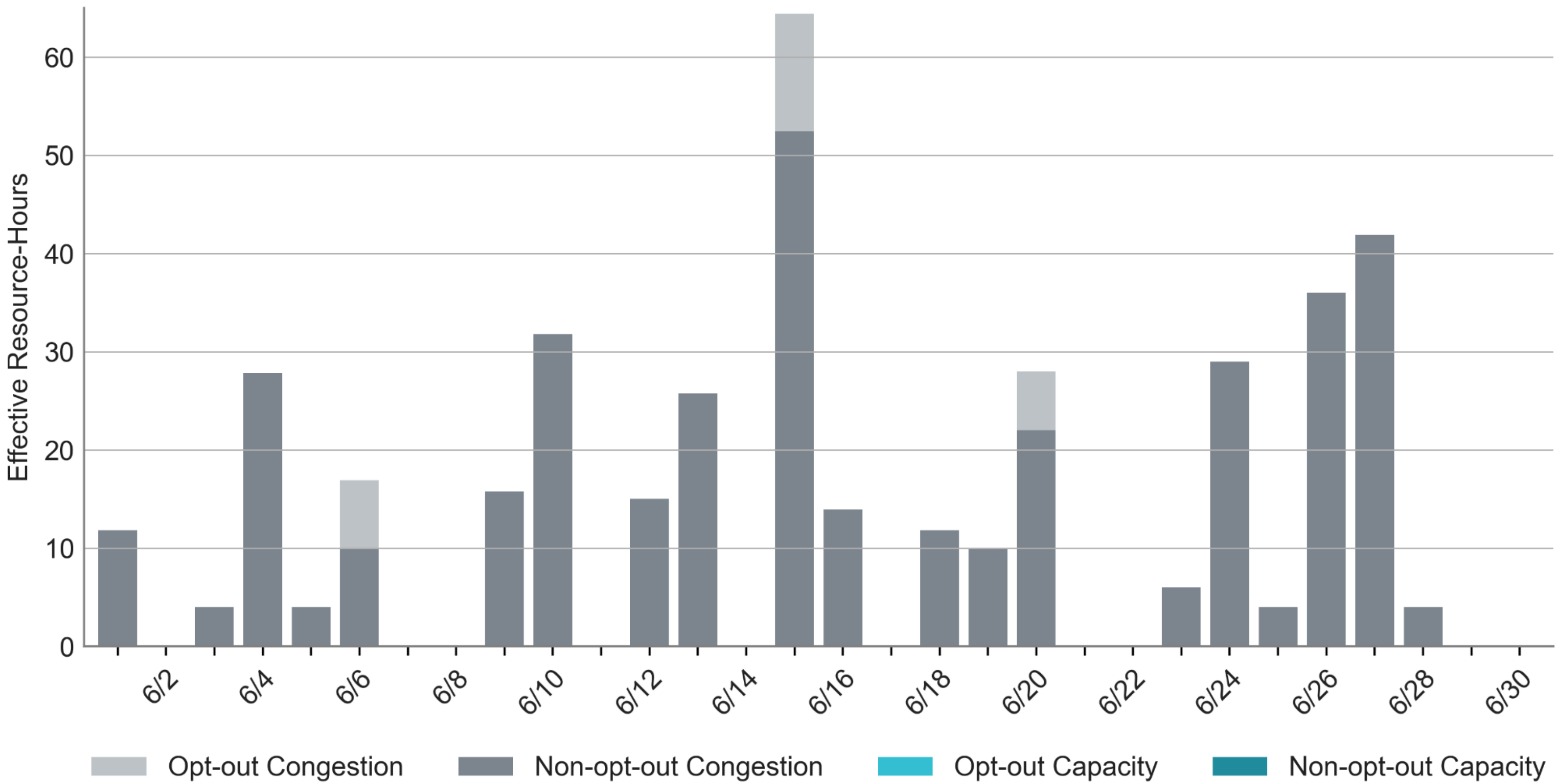
RUC Activity Increased in June Compared to May, Nominally for Managing Congestion



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 June 2025

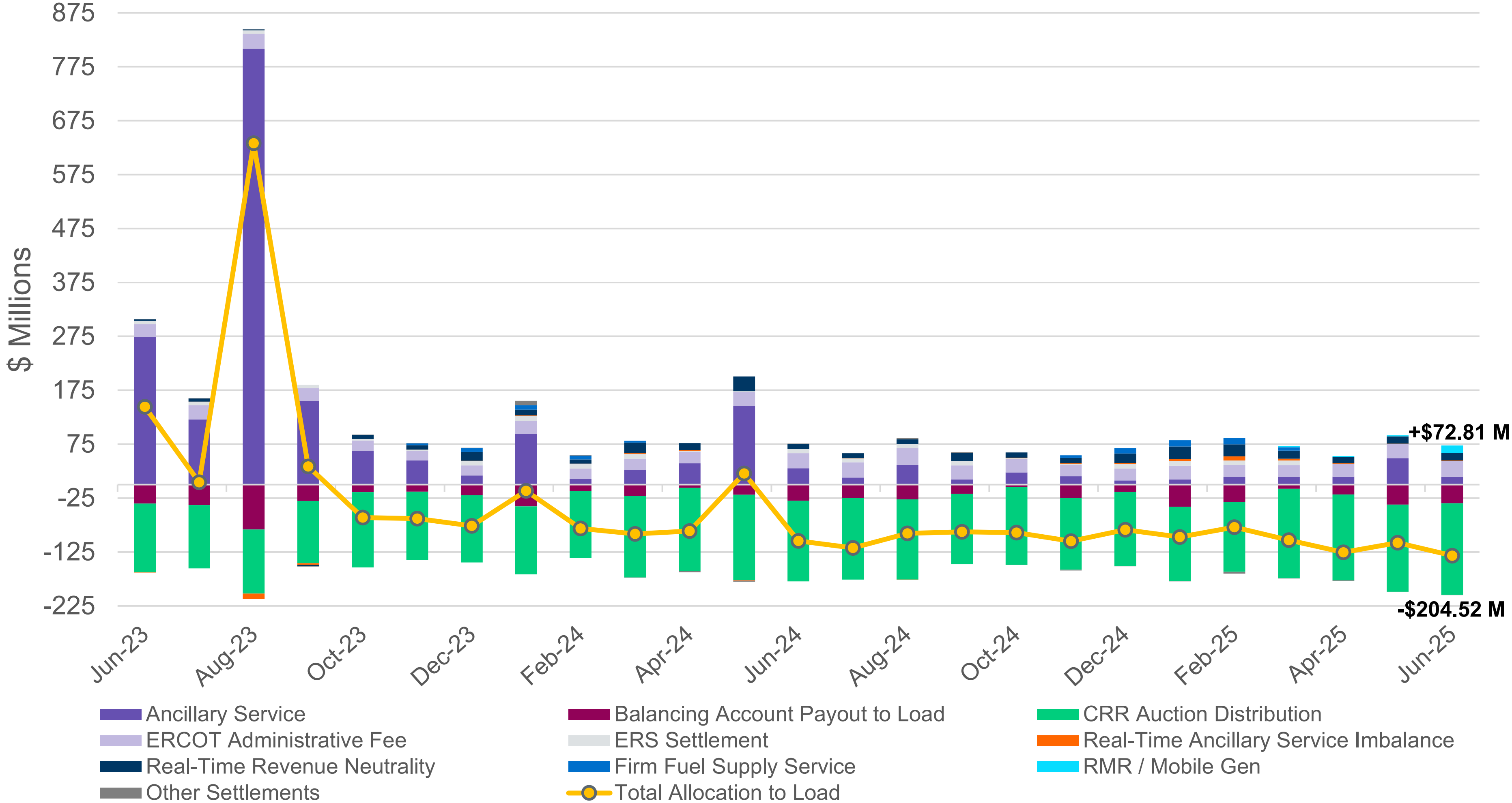
- 94.5% of RUC Effective Resource-hours were committed to manage transmission constraints in South Texas



Twenty-Three Resources were Committed in June, Nominally for Managing Congestion

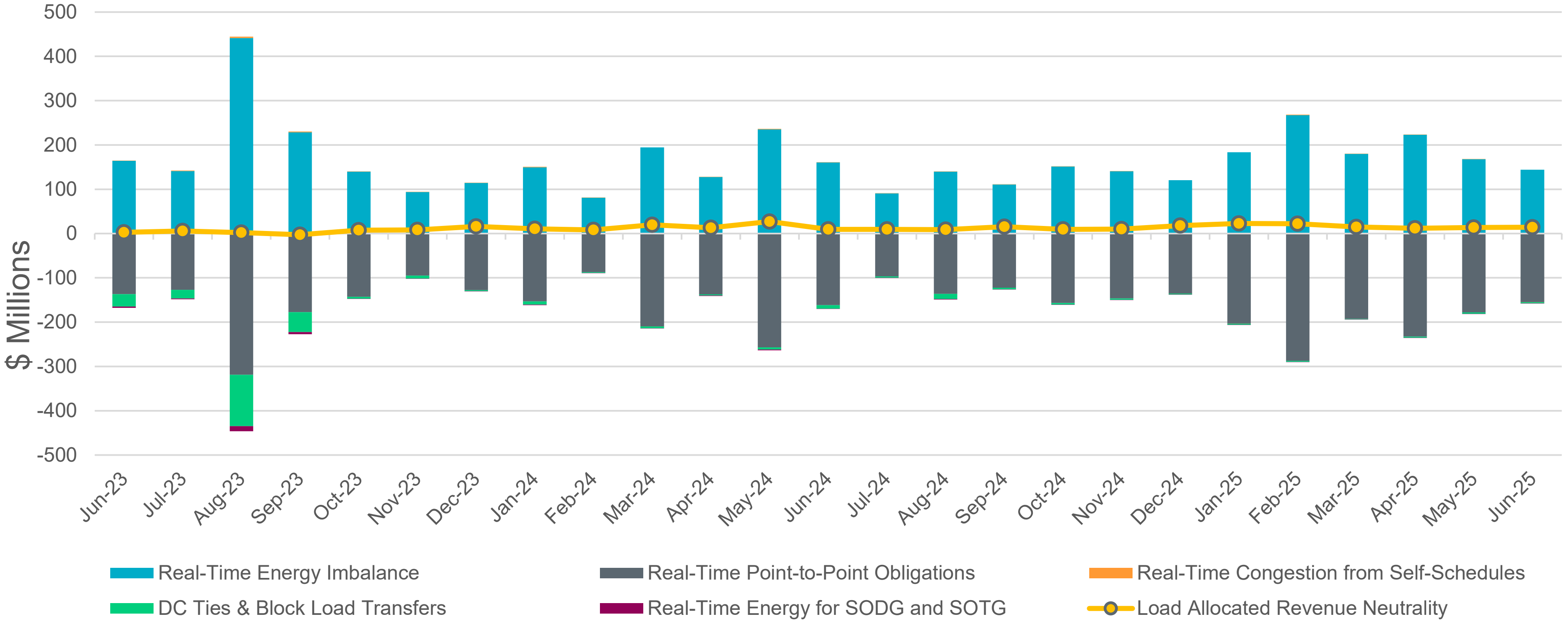
Resource #	Effective Resource-hours	For Congestion		For Capacity	
		Opt-Out	Non-Opt-Out	Opt-Out	Non-Opt-Out
1	5.0	0.0	5.0	0.0	0.0
2	7.9	0.0	7.9	0.0	0.0
3	12.0	0.0	12.0	0.0	0.0
4	6.0	6.0	0.0	0.0	0.0
5	24.0	0.0	24.0	0.0	0.0
6	31.0	0.0	31.0	0.0	0.0
7	27.0	7.0	20.0	0.0	0.0
8	4.0	0.0	4.0	0.0	0.0
9	13.0	0.0	13.0	0.0	0.0
10	23.8	0.0	23.8	0.0	0.0
11	15.8	8.0	7.8	0.0	0.0
12	41.6	0.0	41.6	0.0	0.0
13	25.7	0.0	25.7	0.0	0.0
14	19.5	4.0	15.5	0.0	0.0
15	4.0	0.0	4.0	0.0	0.0
16	39.7	0.0	39.7	0.0	0.0
17	15.7	0.0	15.7	0.0	0.0
18	11.8	0.0	11.8	0.0	0.0
19	1.0	0.0	1.0	0.0	0.0
20	7.9	0.0	7.9	0.0	0.0
21	15.8	0.0	15.8	0.0	0.0
22	41.8	0.0	41.8	0.0	0.0
23	8.0	0.0	8.0	0.0	0.0
Total	**402.0**	**25.0**	**377.0**	**0.0**	**0.0**

Net Allocation to Load in June 2025 was ($131.71) Million



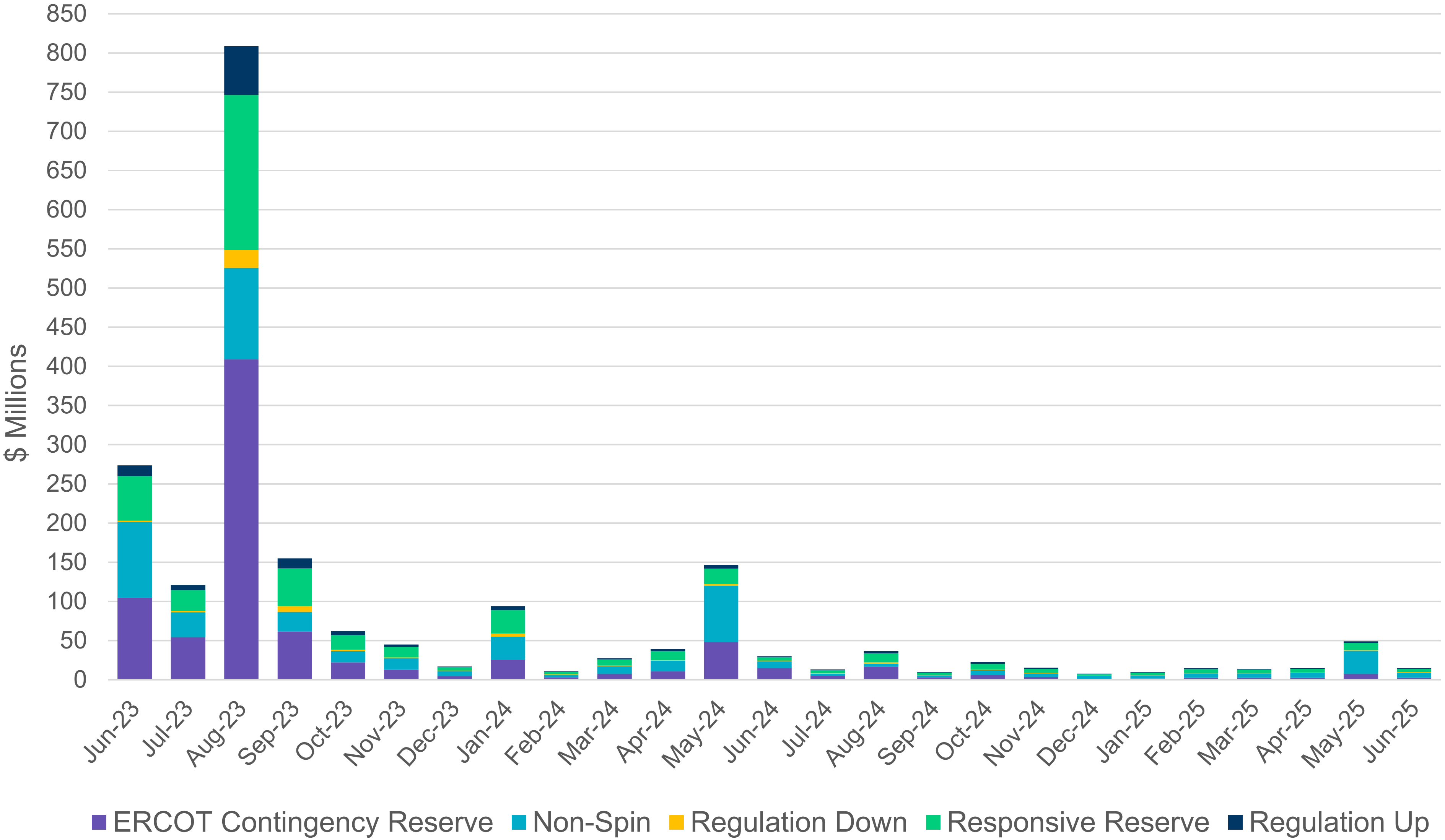
This information is available in tabular form in the Settlement Stability Report presented quarterly to the [Wholesale Market Subcommittee]

Real-Time Revenue Neutrality Allocated to Load was $14.27 M for June 2025

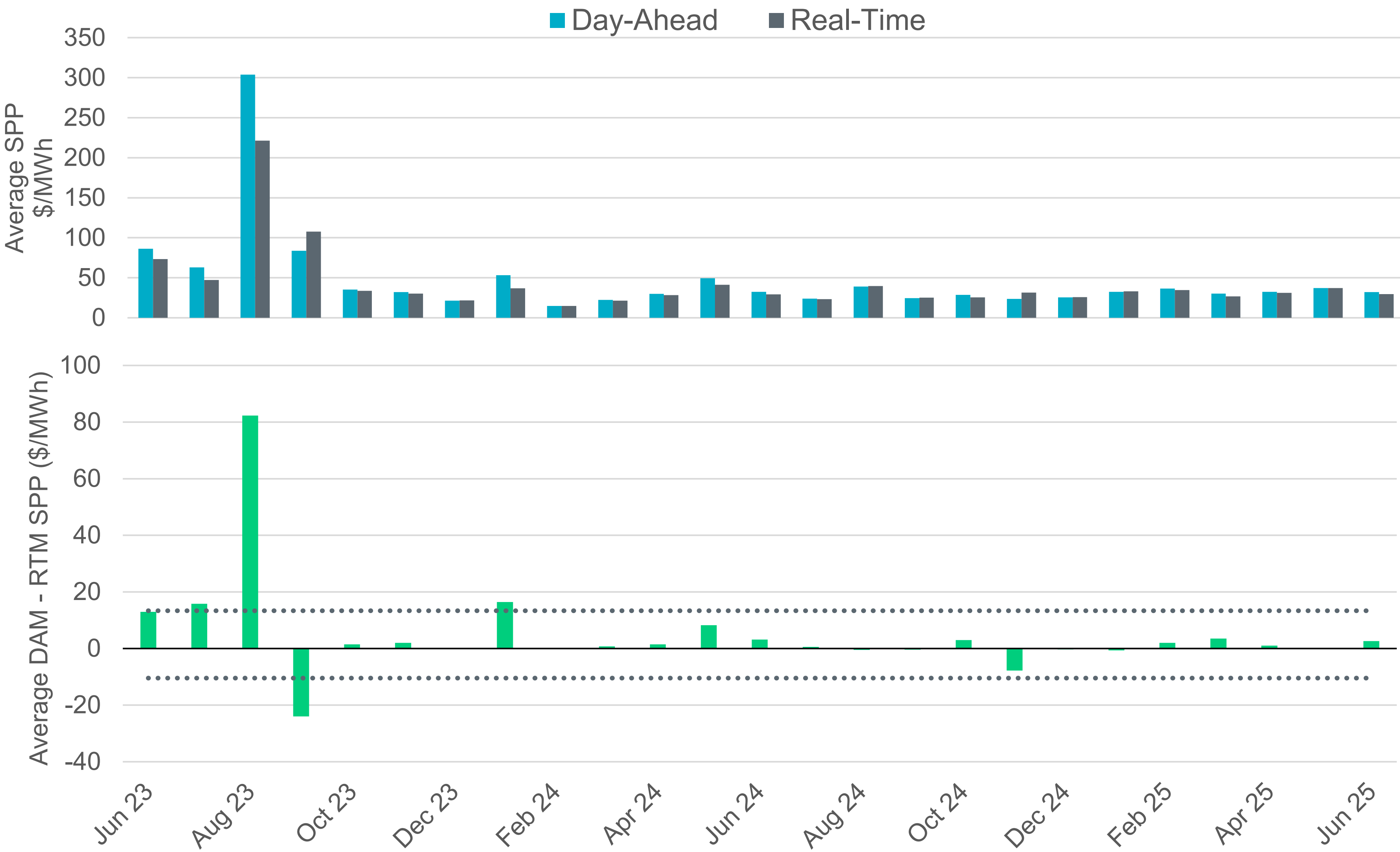


	June 2025 ($M)
Real-Time Energy Imbalance	$143.91
Real-Time Point-to-Point Obligation	($155.13)
Real-Time Congestion from Self-Schedules	($0.16)
DC Tie & Block Load Transfer	($2.1)
Real-Time Energy for SODG and SOTG	($0.8)
Load Allocated Revenue Neutrality	**$14.27**

Ancillary Services for June 2025 totaled $14.75M

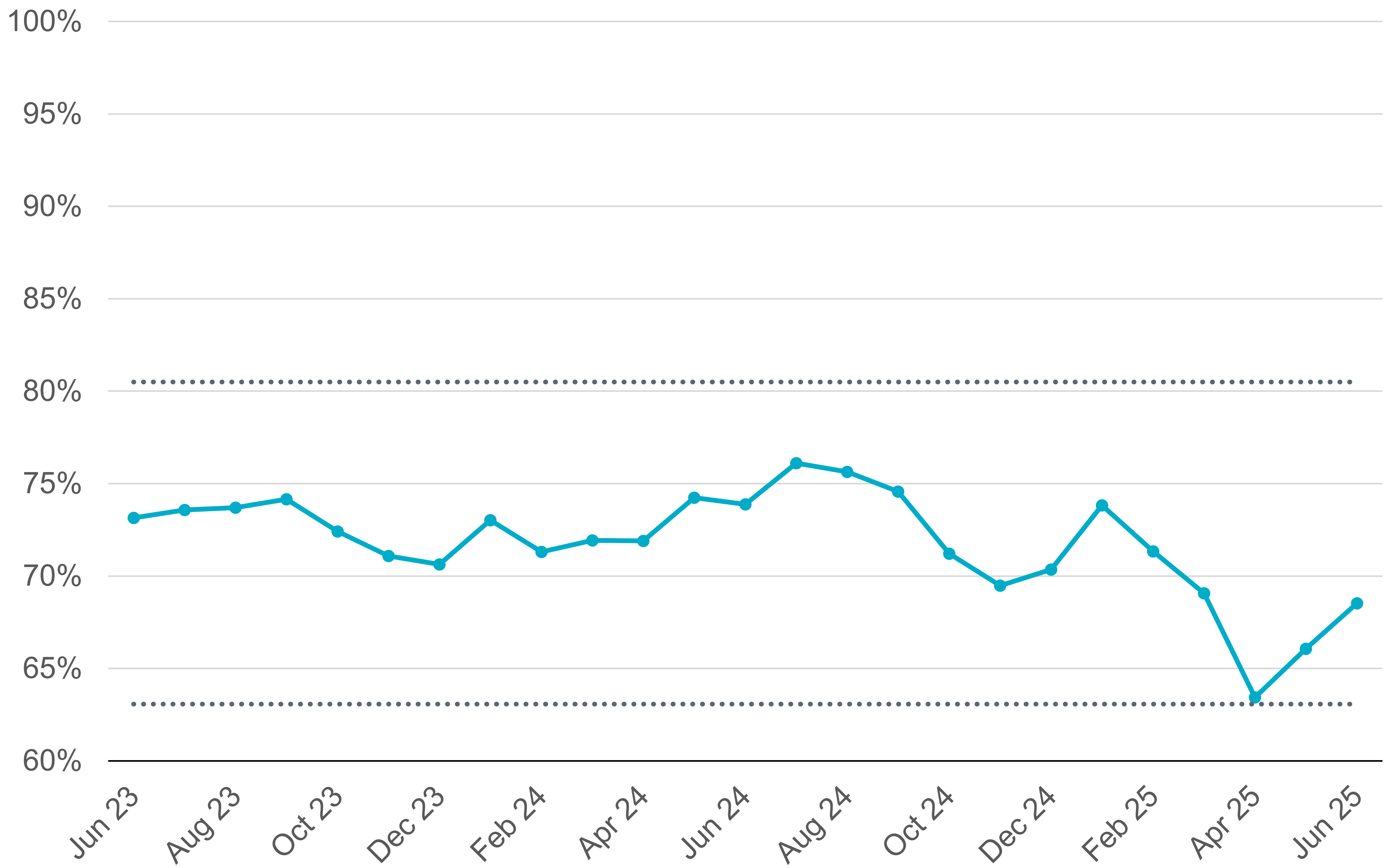


Real-Time prices were aligned with Day-Ahead prices, on average, in June



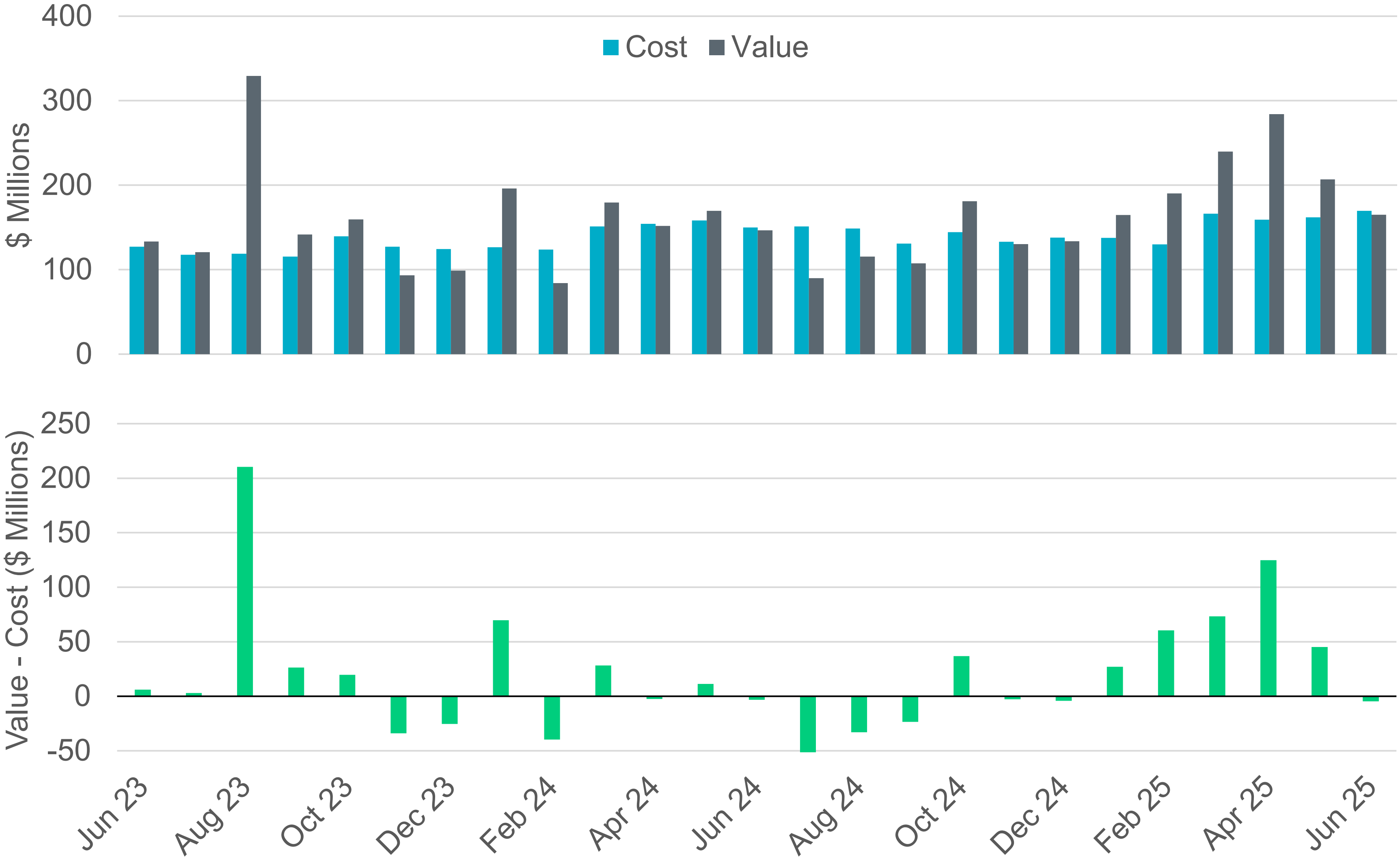
Notes:
1) The dotted lines represent the bounds for major outliers.
2) Averages are weighted by Real-Time Market Load.

Percentage of Real-Time Load Transacted in the Day-Ahead Market increased in June compared to May

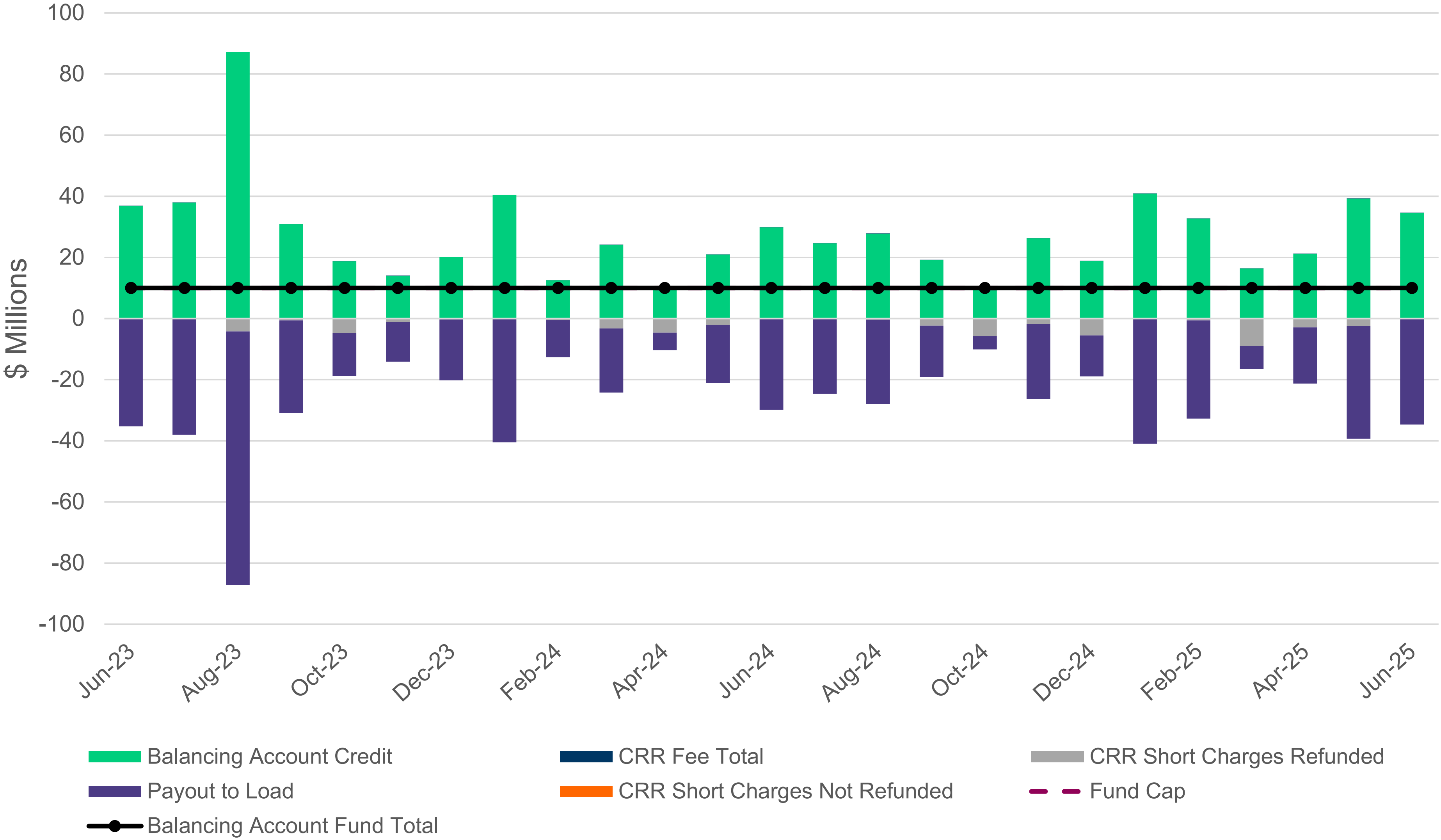


Notes:
1) The dotted lines represent the bounds for major outliers.

Congestion Revenue Right (CRR) cost exceeded value, albeit slightly, for the first time since December 2024



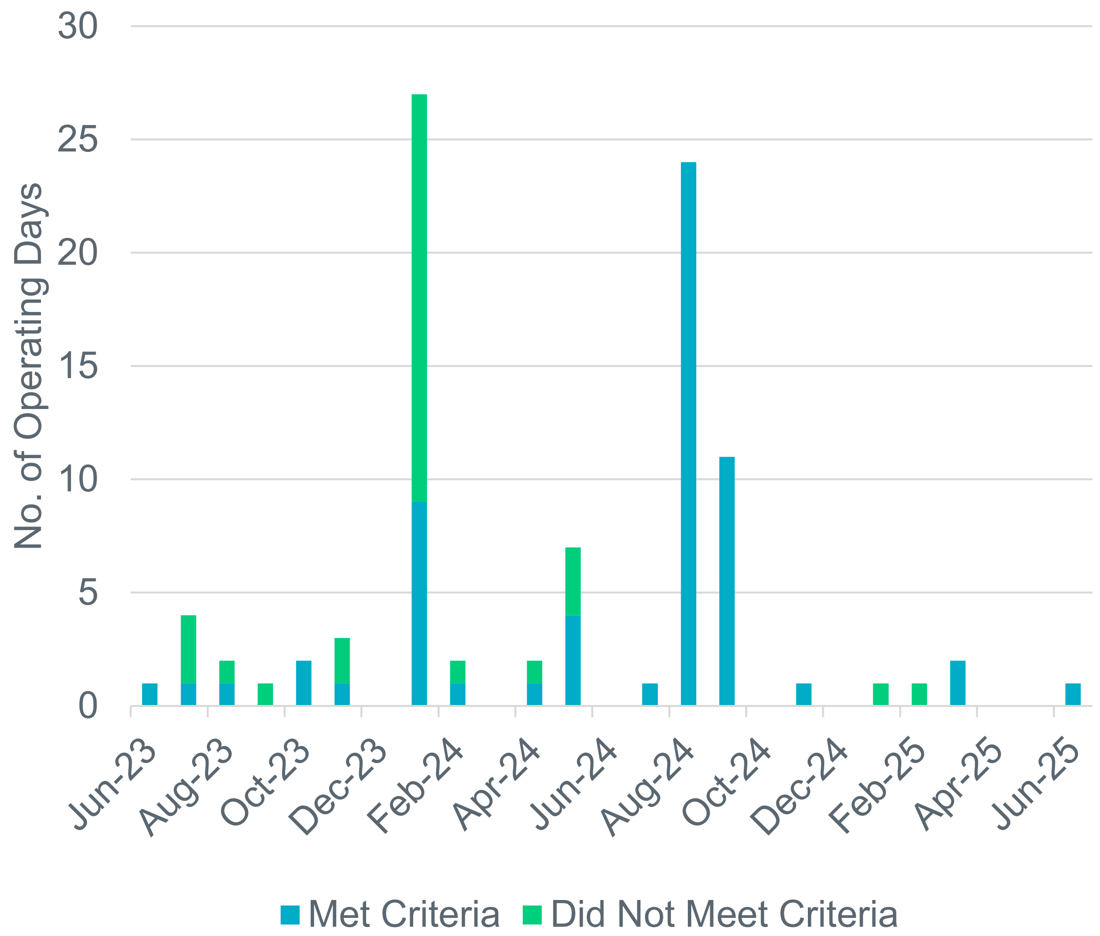
The CRR Balancing Account was fully-funded and excess amounts were allocated to Load



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 criteria for “significance” under NPRR1024 is met.

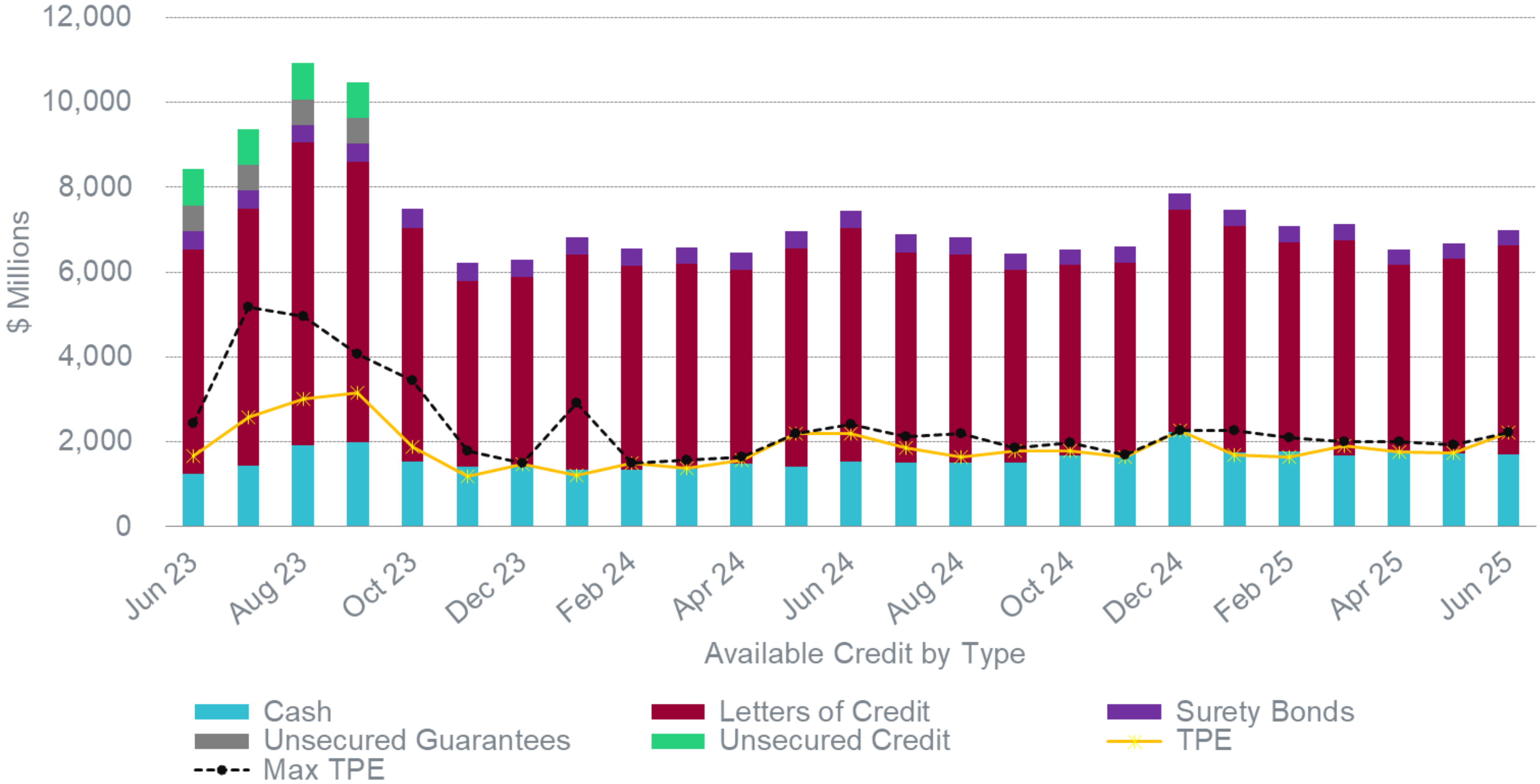


Details for Price Corrections Review

On June 30, 2025, during a software change deployment for the Market Management System (MMS), a software defect caused an unwarranted drop in Real-Time Online Reserves and Real-Time Offline Reserves, which resulted in an erroneous spike in both the Real-Time On-Line Reserve Price Adder and the Real-Time Off-Line Reserve Price Adder for the Security Constrained Economic Dispatch (SCED) interval 15:40 on Operating Day (OD) June 30, 2025. The software change was rolled back at 16:52 of the same OD. See Market Notice M-A070225-01.

The total estimated meter impact was approximately $30 million, meeting criteria for price correction. Prices were corrected before they became final at 4pm on July 2, 2025.

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



*Numbers are as of month end except for Max TPE

Retail Transaction Volumes – Summary – June 2025

	Year-To-Date		Transactions Received	
Transaction Type	**June 2025**	**June 2024**	**June 2025**	**June 2024**
Switches	730,791	647,947	124,872	106,772
Acquisitions	0	0	0	0
Move - Ins	1,443,596	1,609,081	257,580	255,906
Move - Outs	713,526	705,956	130,605	126,702
Continuous Service Agreements (CSA)	294,388	213,754	74,092	52,149
Mass Transitions	0	0	0	0
Total	**3,182,301**	**3,176,738**	**587,149**	**541,529**