ERCOT Monthly Operational Overview
(July 2025)

ERCOT Public
August 15, 2025

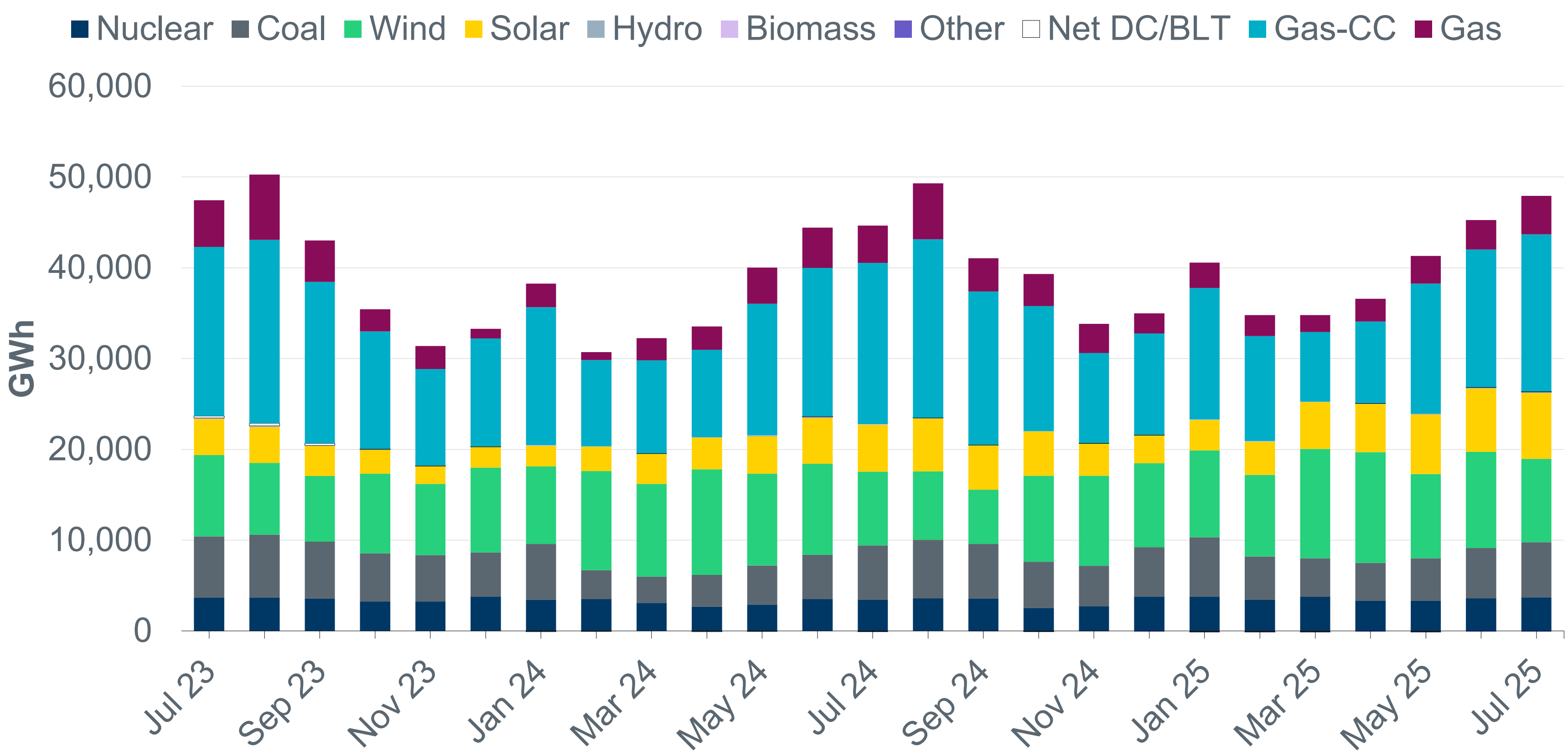
Highlights, Records and Notifications

- ERCOT's maximum peak demand for the month of July was 81,707 MW* on 7/30/25; this is 662 MW more than the July 2024 demand of 81,045 MW set on 7/1/24.

- ERCOT issued 0 notifications in July 2025

* Preliminary value from August Demand and Energy 2025 report.

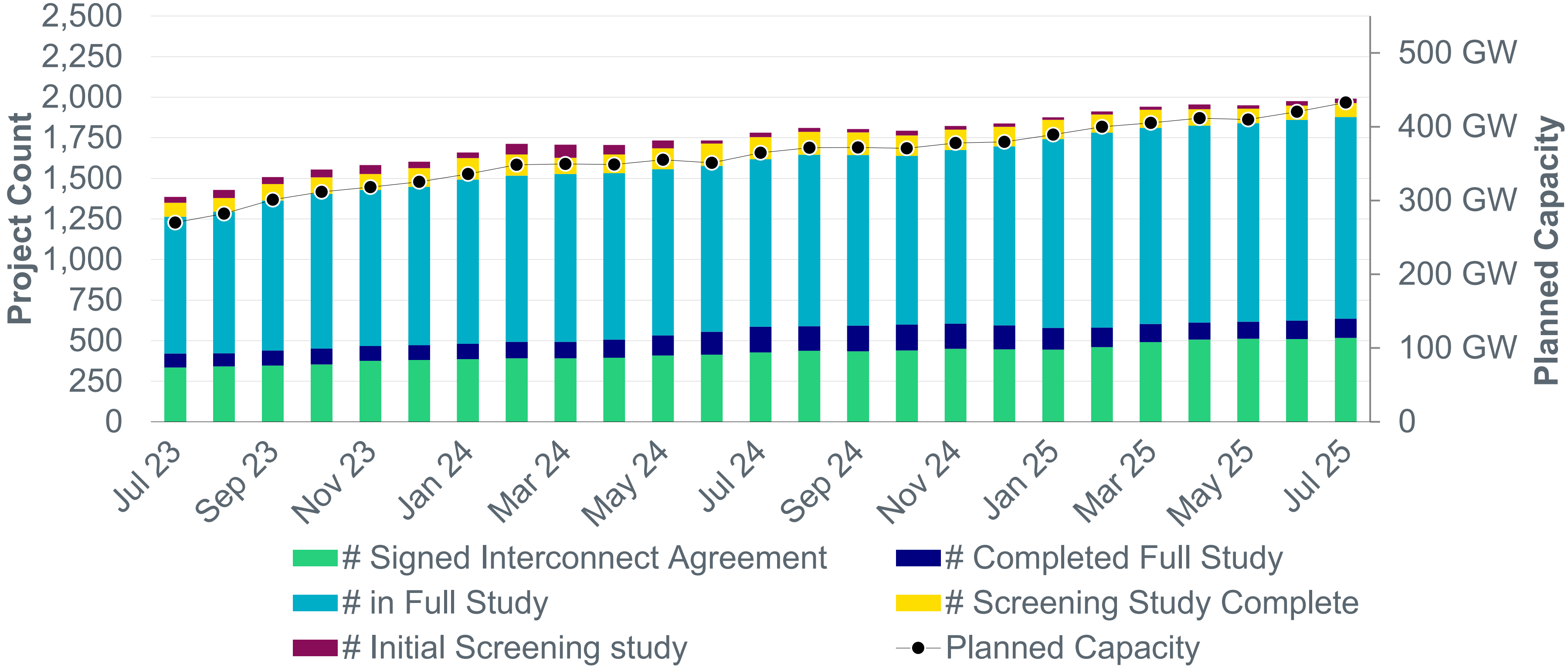
Monthly energy generation increased by 7.4% year-over-year to 47,848 GWh in July 2025, compared to 44,556 GWh in July 2024



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)

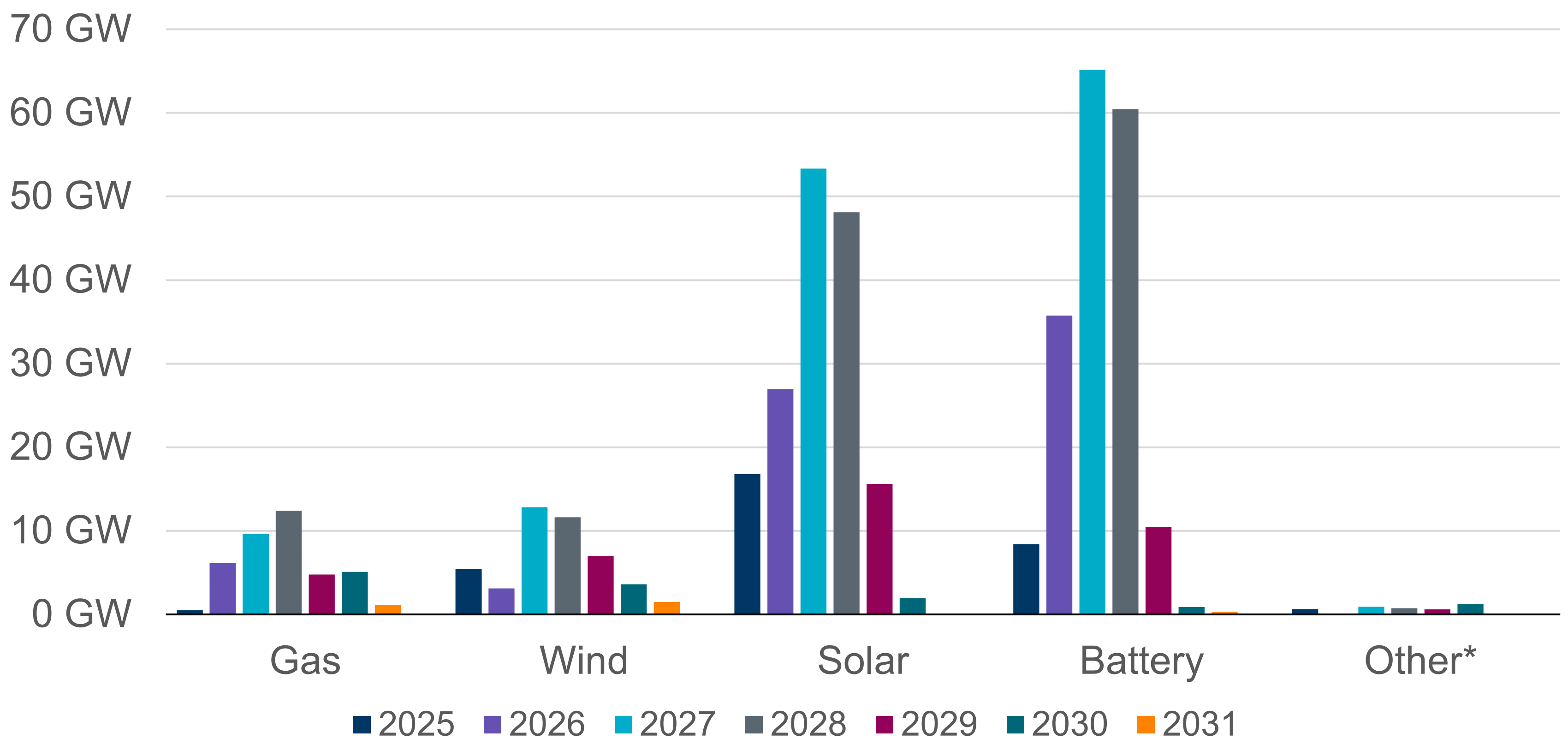


- There are an additional 52 “Small Generator” projects totaling 484 MW that are going through the simplified interconnection process.
- A break-out by fuel type can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: http://www.ercot.com/gridinfo/resource

Interconnection Queue Capacity by Fuel Type

Queue totals: Solar 163 GW (37.6%), Wind 45 GW (10.4%), Gas 40 GW (9.1%), Battery 181 GW (41.9%), 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 2,066 active generation interconnection requests totaling 432,804 MW as of July 31. This includes 162,703 MW of solar, 45,048 MW of wind, 181,394 MW of battery, and 39,558 MW of gas projects; 126 projects were categorized as inactive, up from 122 inactive projects in June 2025.

- ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $13.781 billion as of July 31, 2025.

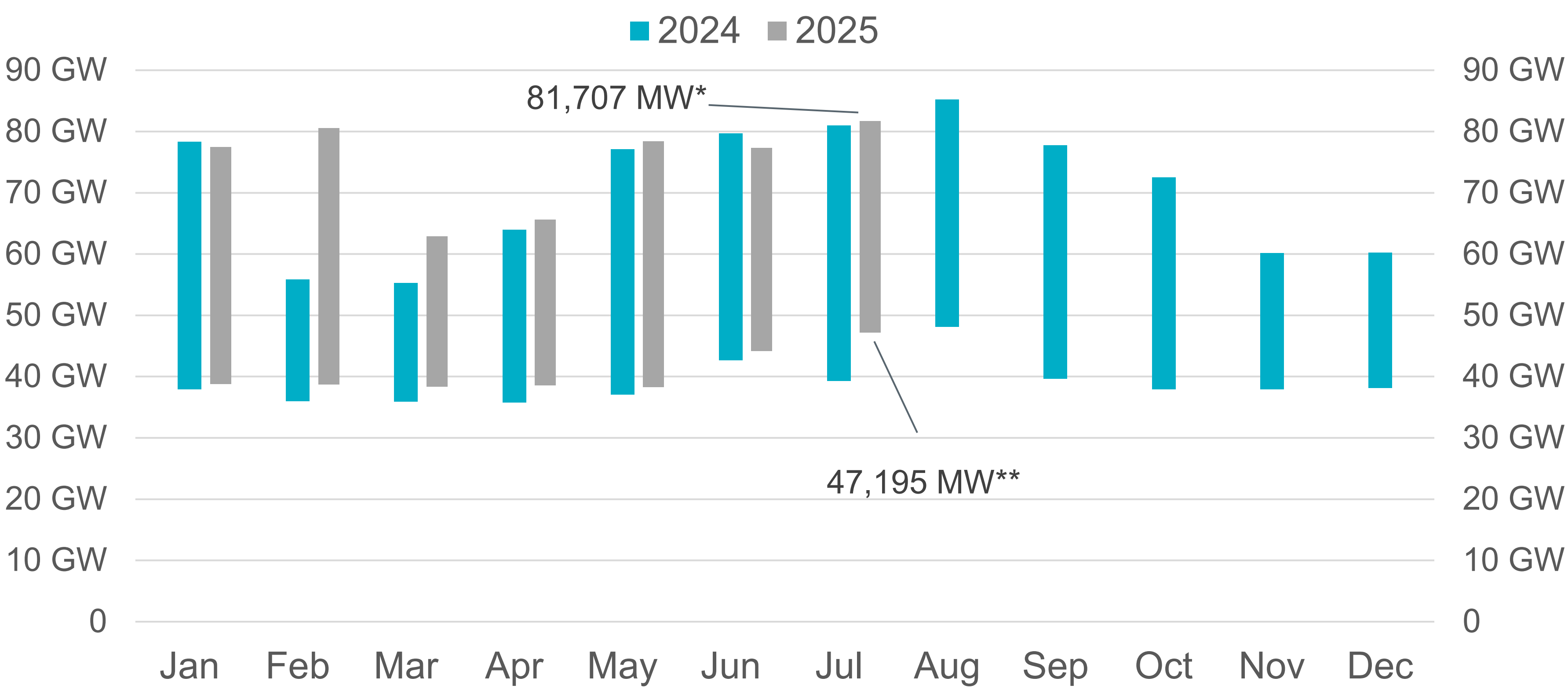
- Transmission Projects endorsed in 2025 total $2.389 billion as of July 31, 2025.

- 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.

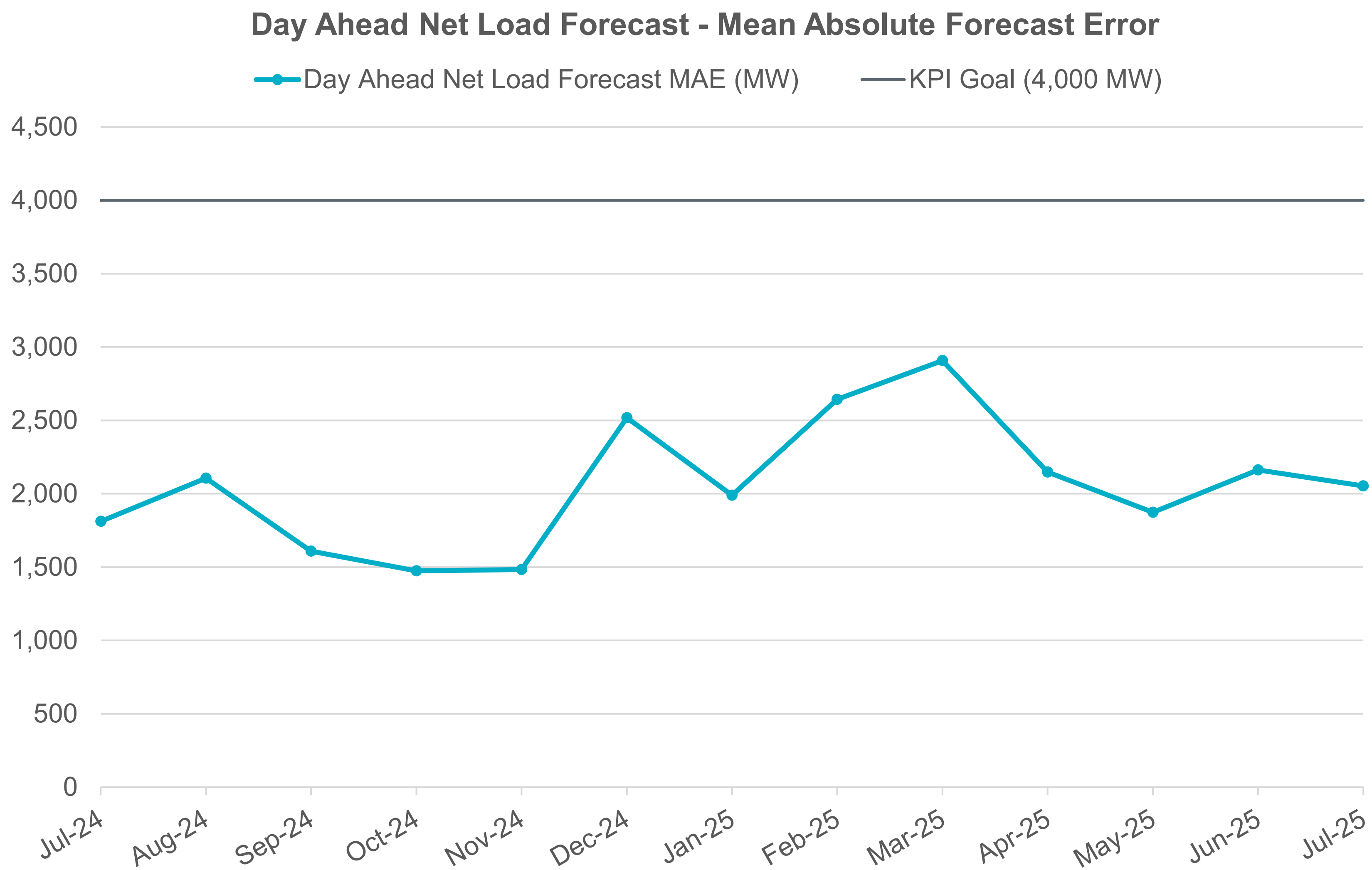
- Transmission Projects planned to energize during the remainder of 2025 total approximately $2.970 billion as of June 1, 2025.

ERCOT's maximum peak demand for the month of July was 81,707 MW* on 7/30/25; this is 662 MW more than the July 2024 peak demand of 81,045 MW set 7/01/24.

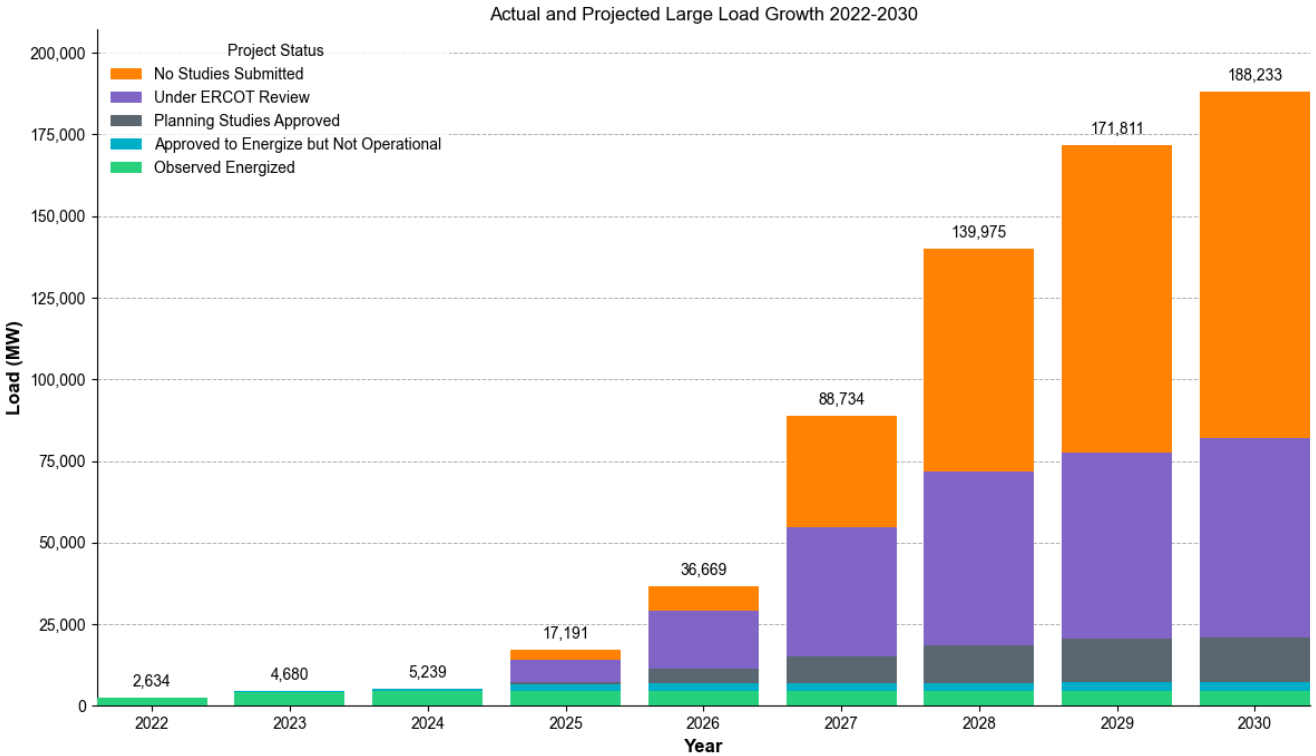


*Based on the maximum net system hourly value from the July 2025 Demand and Energy report.
**Based on the minimum net system 15-minute interval value from the July 2025 Demand and Energy report.
Data for latest two months are based on preliminary settlements.

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	7,640	33,862	68,038	94,288	106,247
Under ERCOT Review	0	0	0	6,772	17,644	39,740	53,199	57,035	60,858
Planning Studies Approved	0	0	0	674	4,535	8,282	11,888	13,338	13,978
Approved to Energize but Not Operational	0	569	623	2,082	2,234	2,234	2,234	2,534	2,534
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**	**17,191**	**36,669**	**88,734**	**139,975**	**171,811**	**188,233**

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.

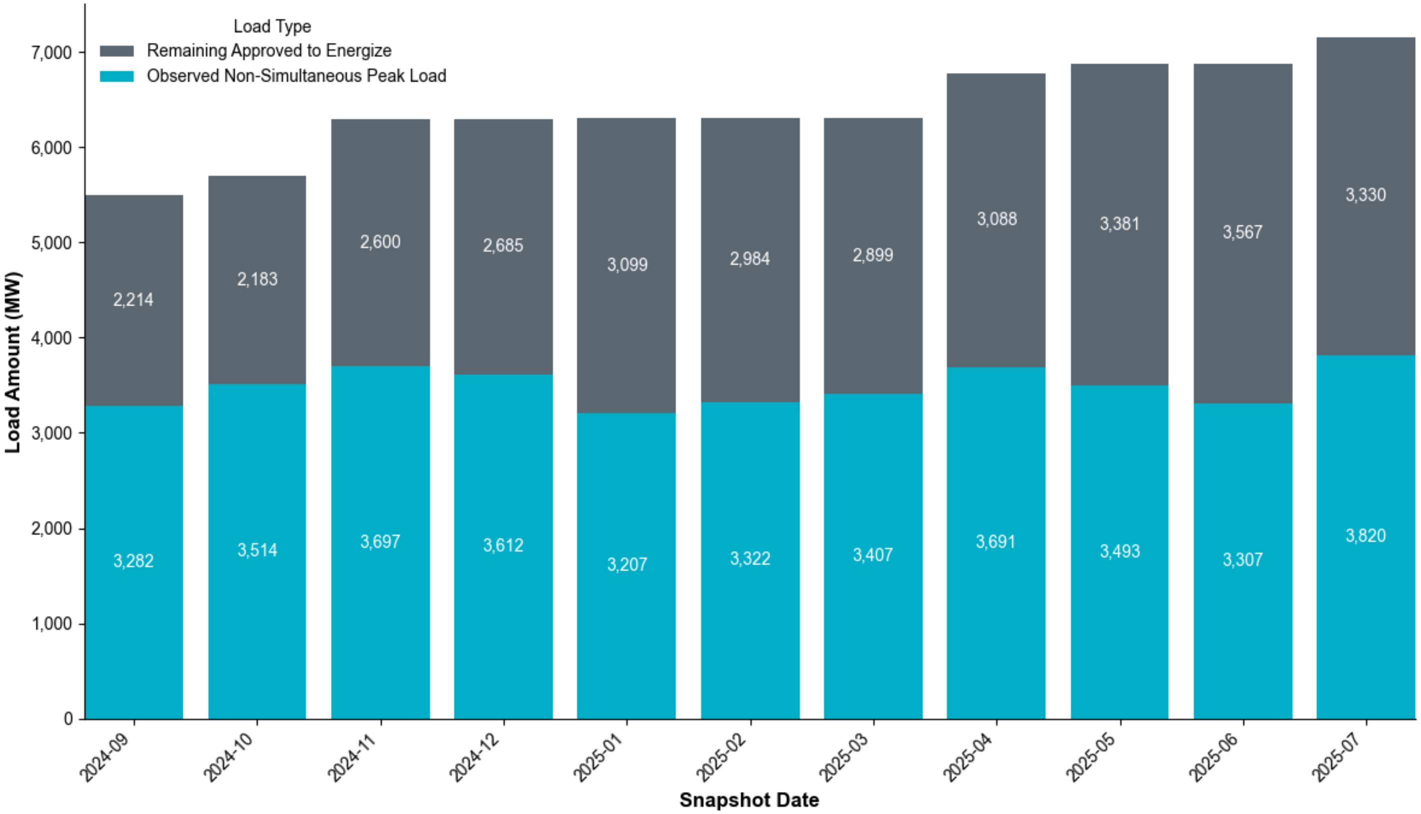
Planning Studies Approved – Projects that have received ERCOT approval of required interconnection studies. Any MWs that were not approved are reclassified as No Studies Submitted.

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

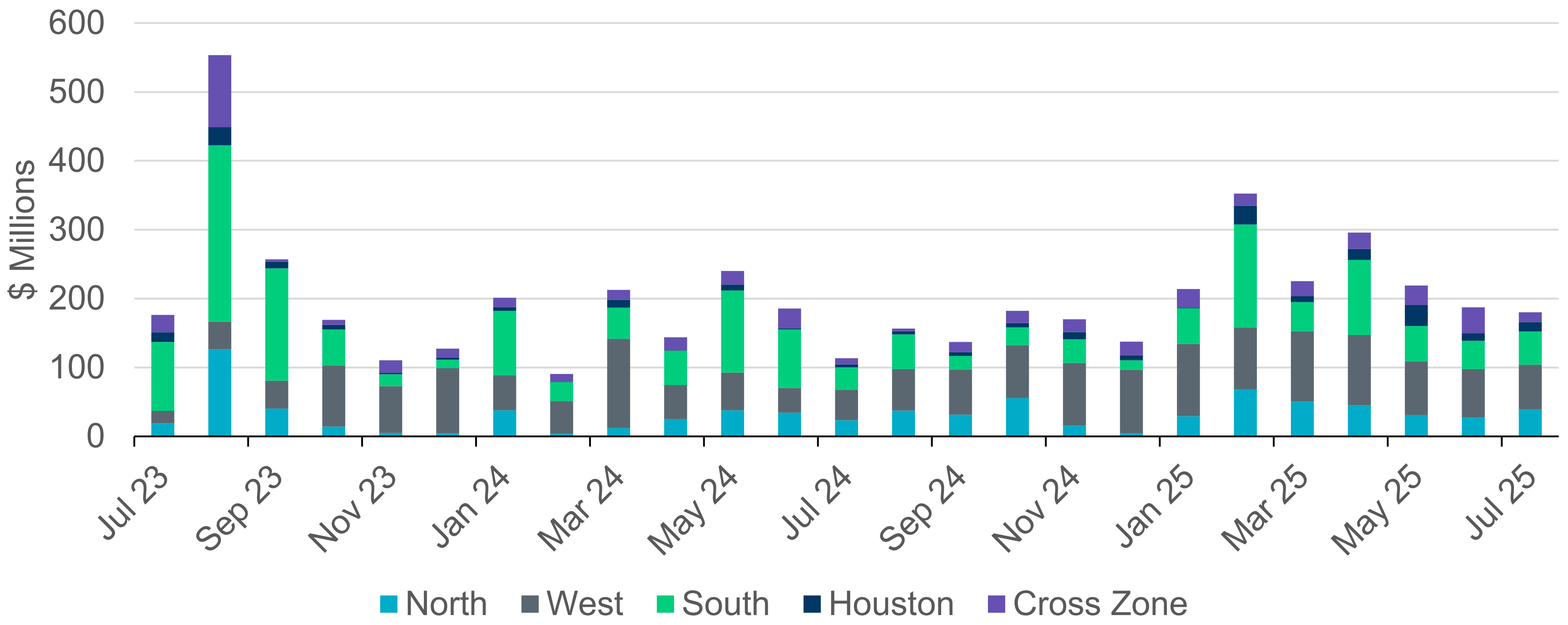
No Studies Submitted – Projects that are tracked by ERCOT but that have not yet provided sufficient information for ERCOT to begin review. Additionally, MWs that were not approved by ERCOT after review of planning studies are included in this category until a path to interconnect these MWs is identified,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

Loads Approved to Energize – Observations

- Of the 7150 MW that have received Approval to Energize, ERCOT has observed a **non-simultaneous** monthly peak consumption of 3820 MW in July 2025 which is a slight increase since June 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



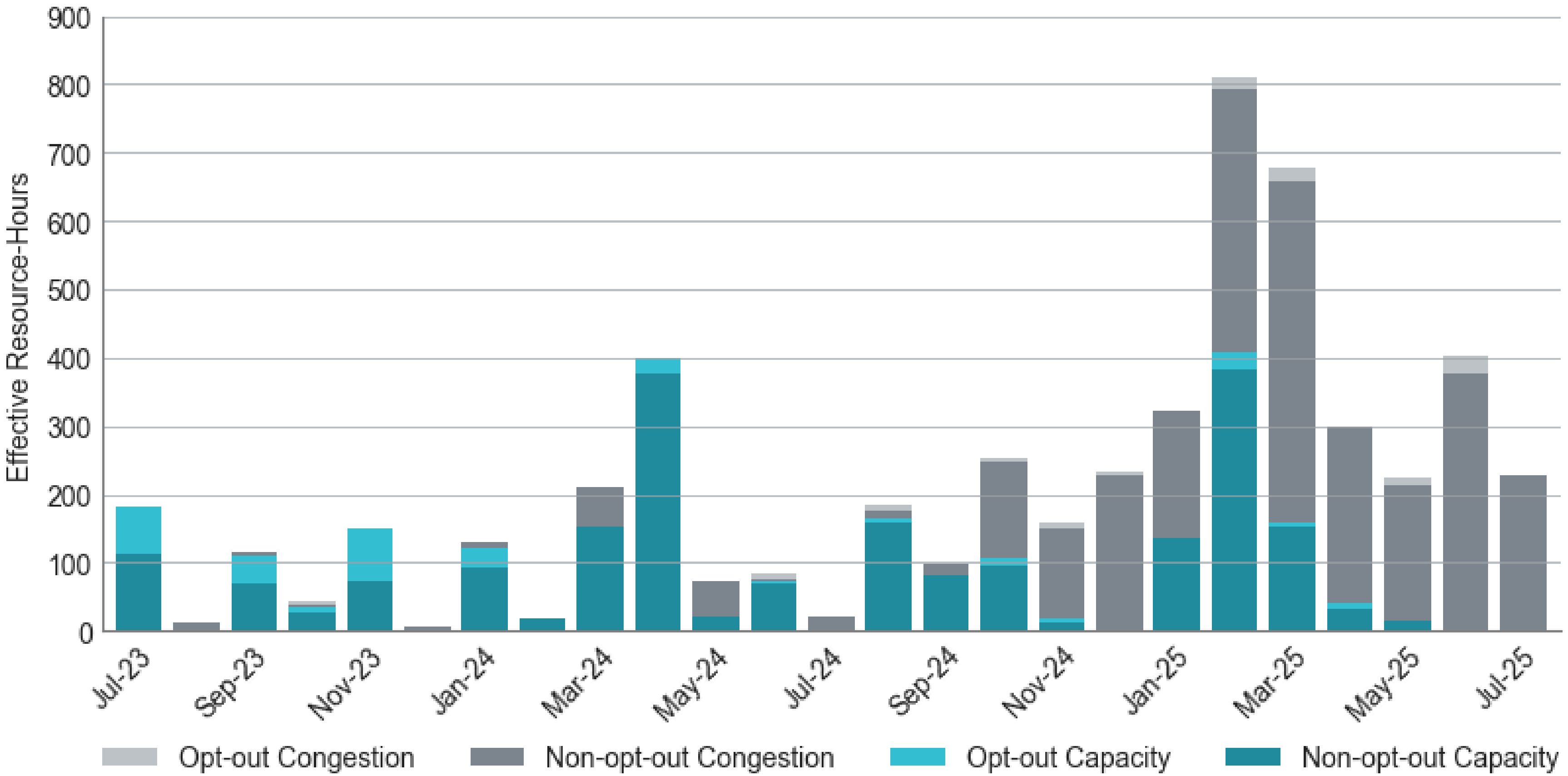
Real-Time Congestion Rent by Zone



- Total Real-Time congestion rent decreased slightly in July compared to June, 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 138 kV line from Hargrove to Twin Buttes.
  - Congestion rent in the South Zone was primarily driven by a constraint representing the loss of the 345kV double circuit from San Miguel and Lobo which would overload the 138kV line from Las Cruces to Laredo VFT North.

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.

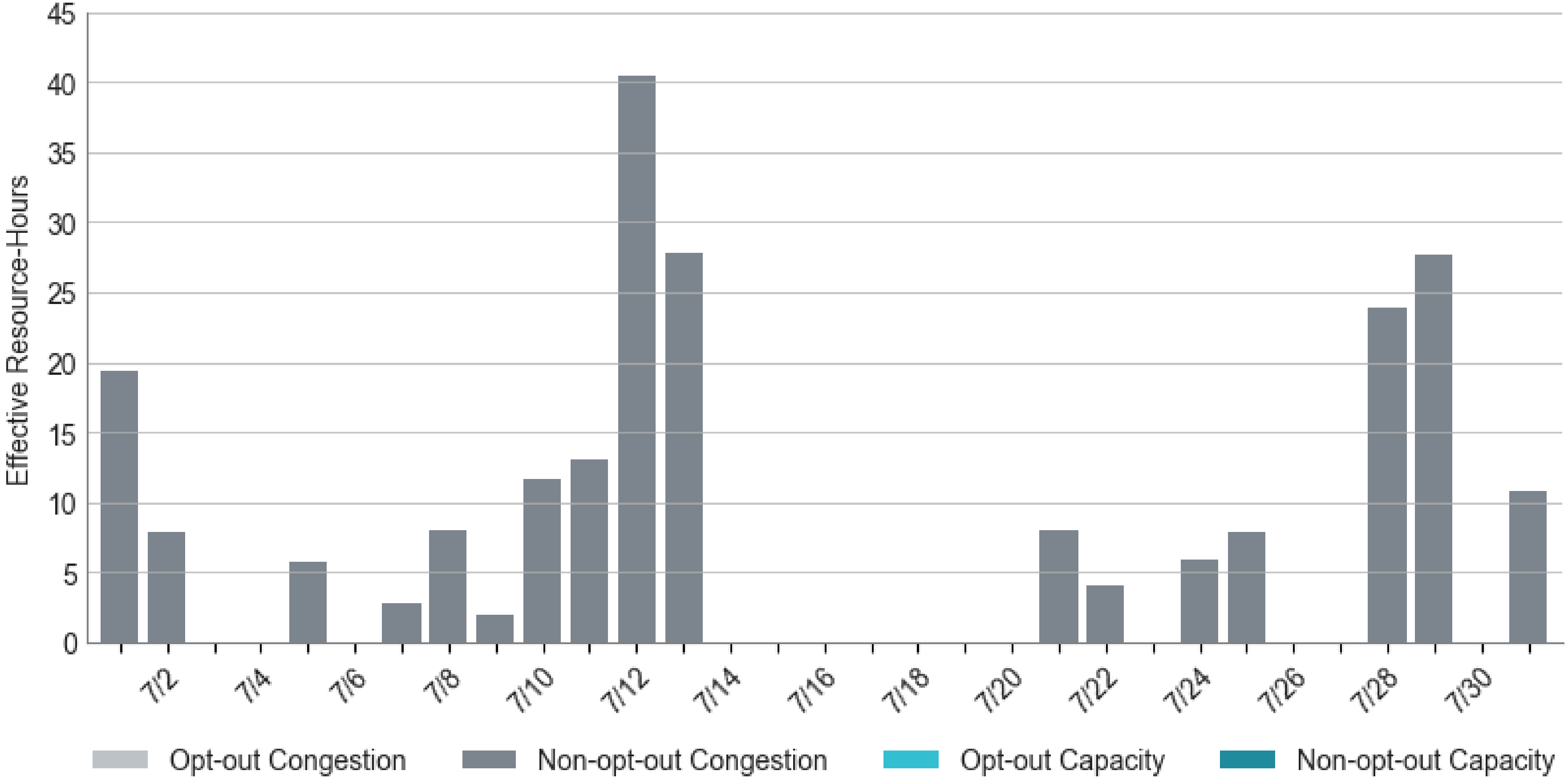
RUC Activity Decreased in July Compared to June, Nominally for Managing Congestion



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 July 2025

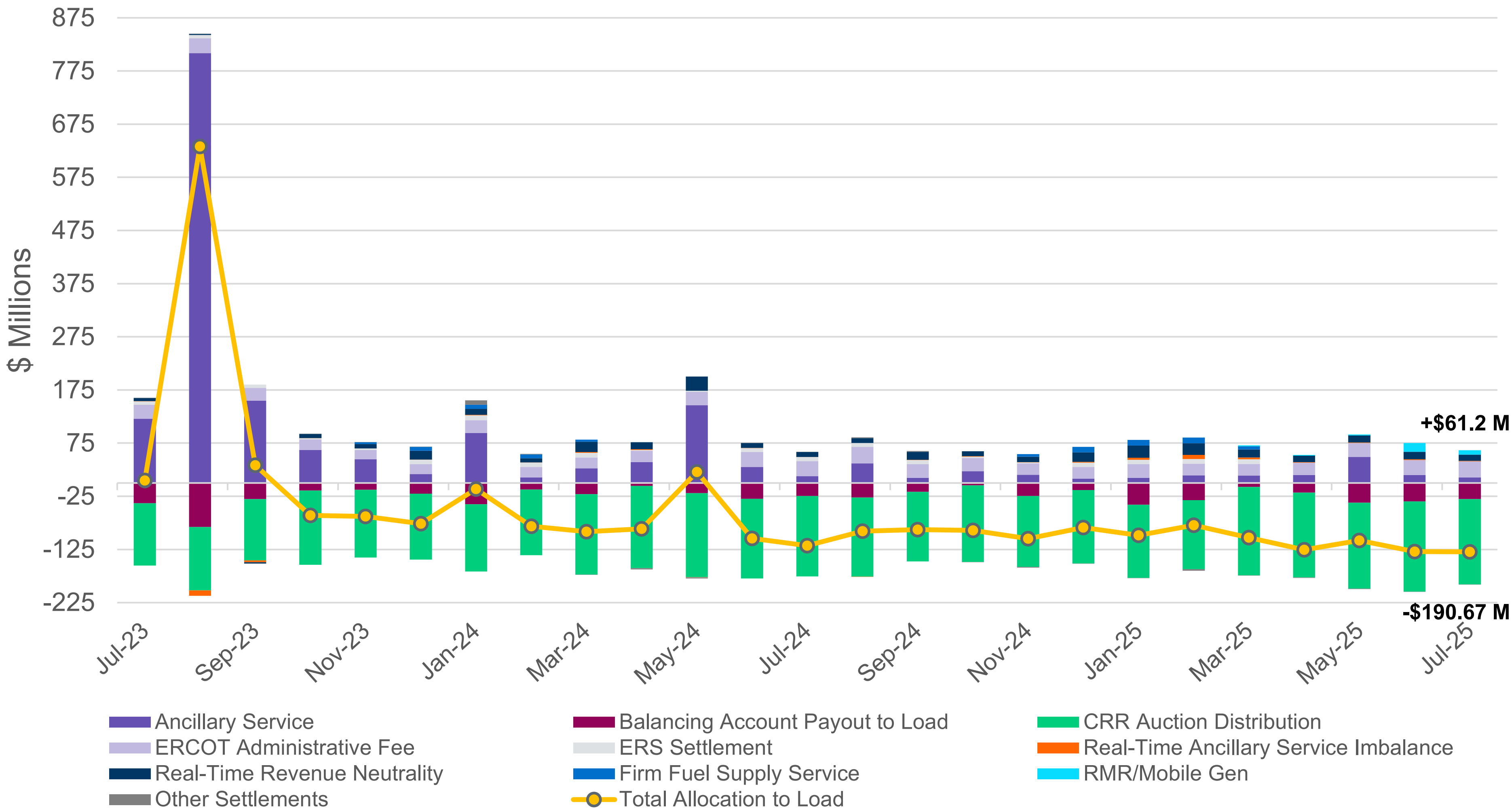
- ~88% of RUC Effective Resource-hours were nominally committed to manage transmission constraints in South Texas



Fifteen Resources were Committed in July, Nominally for Managing Congestion

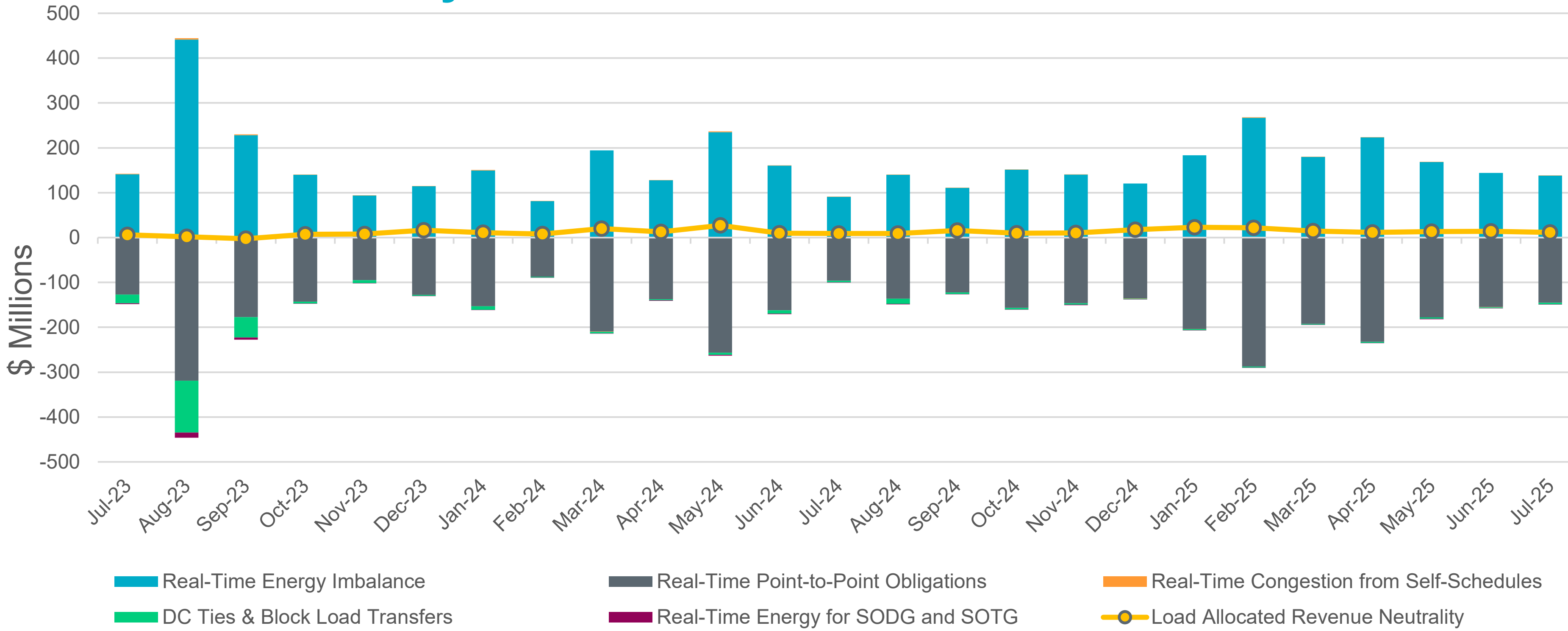
Resource #	Effective Resource-hours	For Congestion		For Capacity	
		Opt-Out	Non-Opt-Out	Opt-Out	Non-Opt-Out
1	13.6	0.0	13.6	0.0	0.0
2	10.3	0.0	10.3	0.0	0.0
3	11.0	0.0	11.0	0.0	0.0
4	8.0	0.0	8.0	0.0	0.0
5	8.0	0.0	8.0	0.0	0.0
6	12.0	0.0	12.0	0.0	0.0
7	12.0	0.0	12.0	0.0	0.0
8	8.0	0.0	8.0	0.0	0.0
9	17.8	0.0	17.8	0.0	0.0
10	33.8	0.0	33.8	0.0	0.0
11	9.0	0.0	9.0	0.0	0.0
12	48.7	0.0	48.7	0.0	0.0
13	7.8	0.0	7.8	0.0	0.0
14	19.1	0.0	19.1	0.0	0.0
15	7.8	0.0	7.8	0.0	0.0
Total	**226.9**	**0.0**	**226.9**	**0.0**	**0.0**

Net Allocation to Load in July 2025 was ($129.47) Million



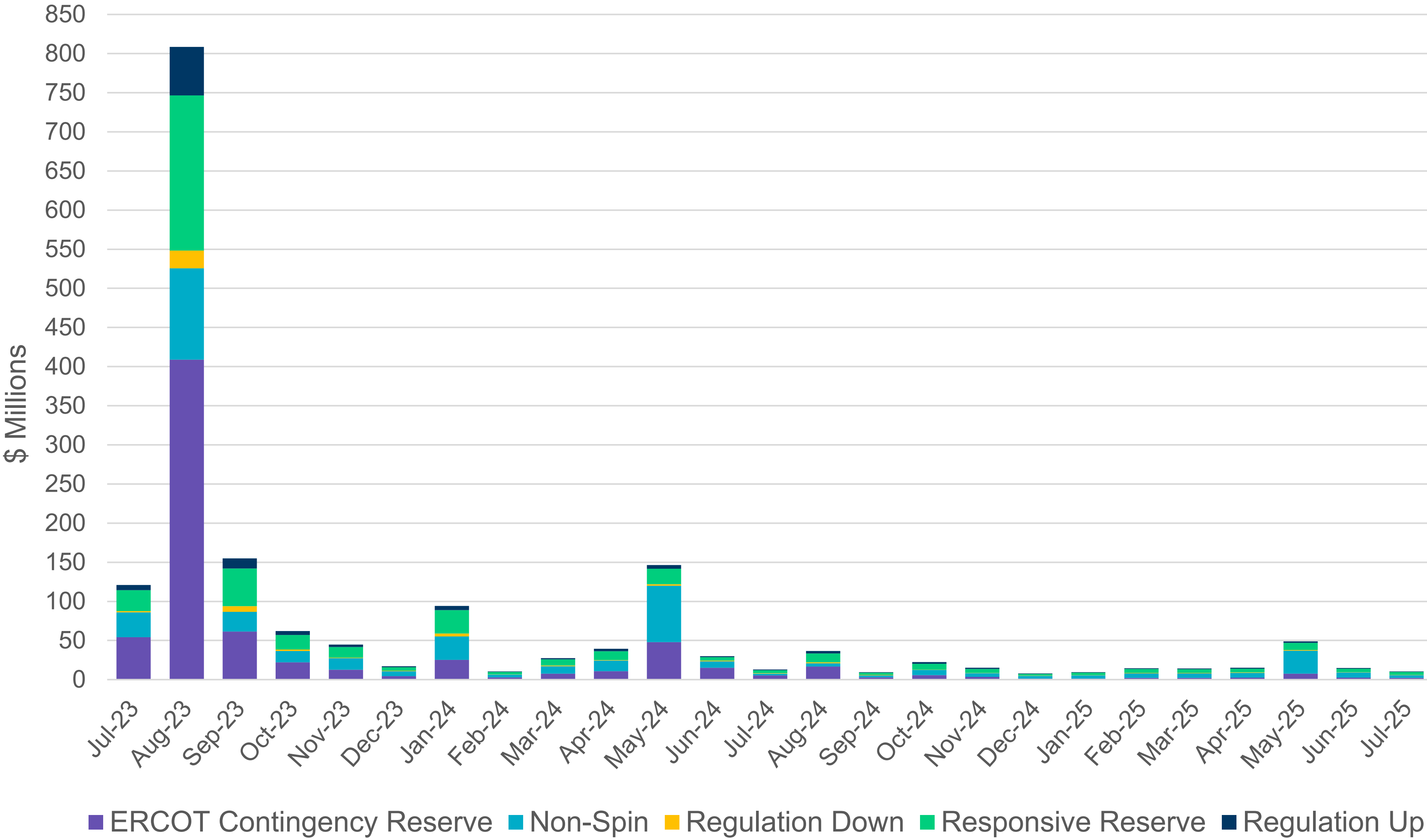
This information is available in tabular form in the Settlement Stability Report presented quarterly to the [Wholesale Market Subcommittee]

Real-Time Revenue Neutrality Allocated to Load was $11.59 M for July 2025

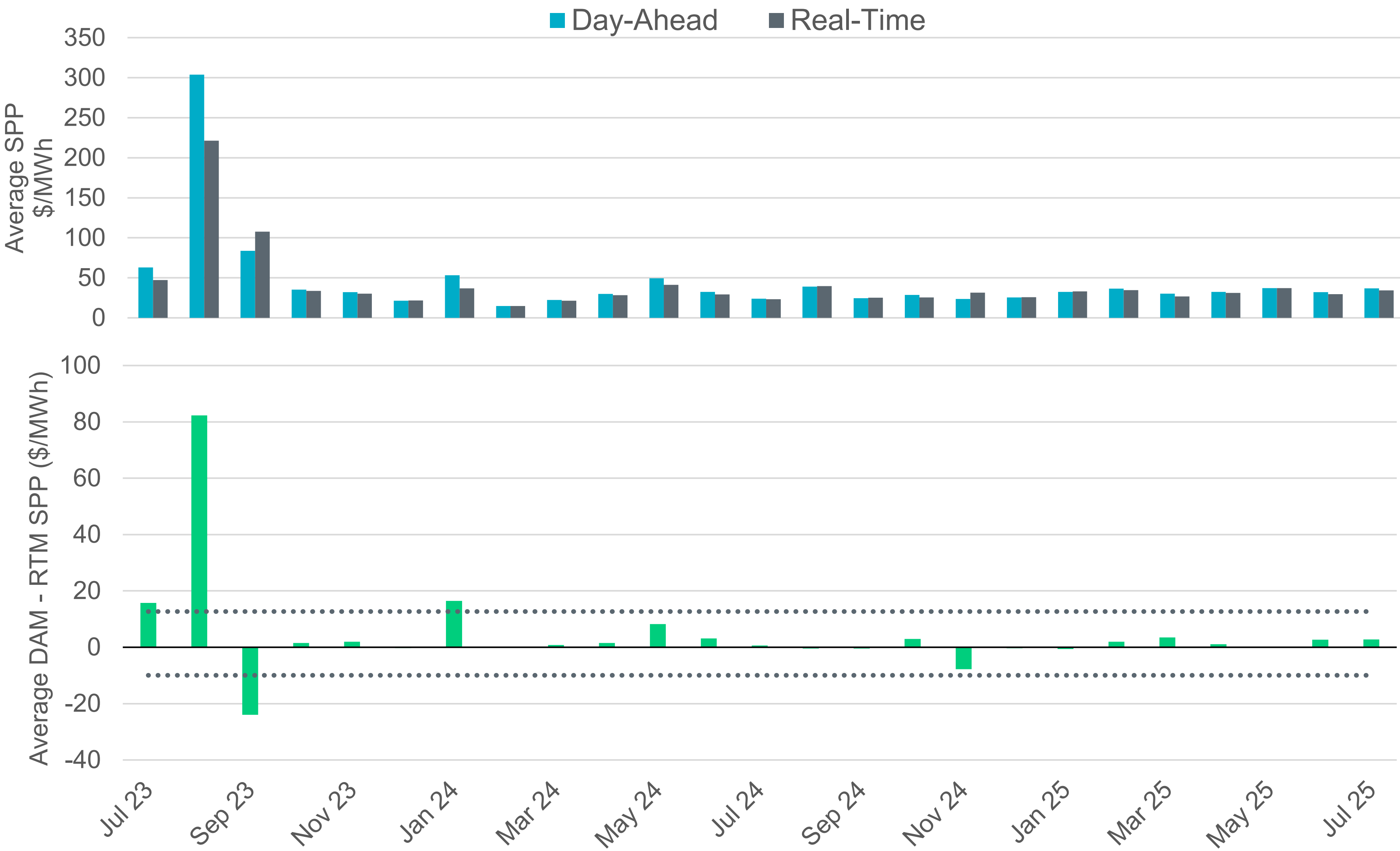


	July 2025 ($M)
Real-Time Energy Imbalance	$137.79
Real-Time Point-to-Point Obligation	($145.26)
Real-Time Congestion from Self-Schedules	$0.2
DC Tie & Block Load Transfer	($3.35)
Real-Time Energy for SODG and SOTG	($0.97)
Load Allocated Revenue Neutrality	**$11.59**

Ancillary Services for July 2025 totaled $10.49M

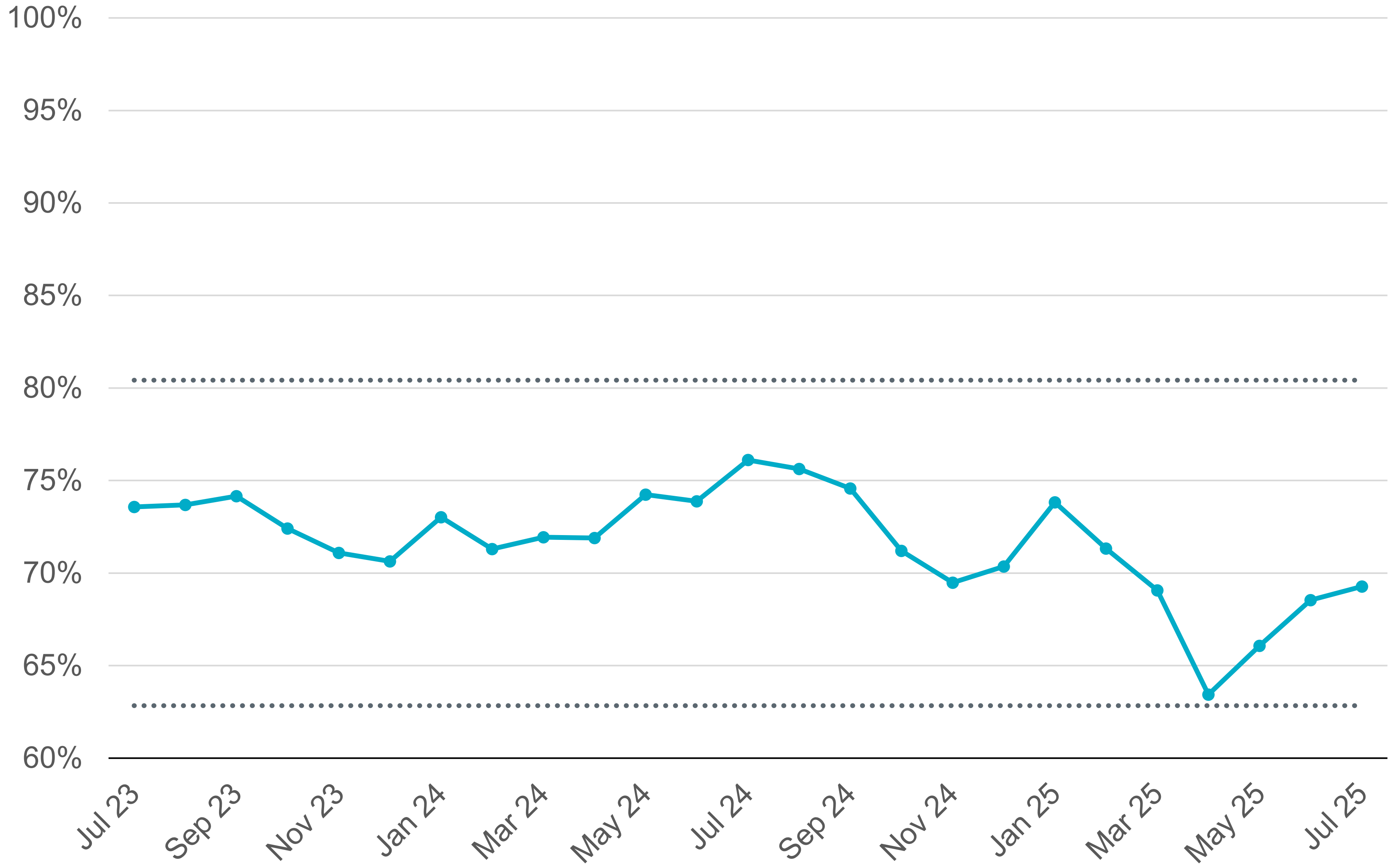


Real-Time prices were aligned with Day-Ahead prices, on average, in July



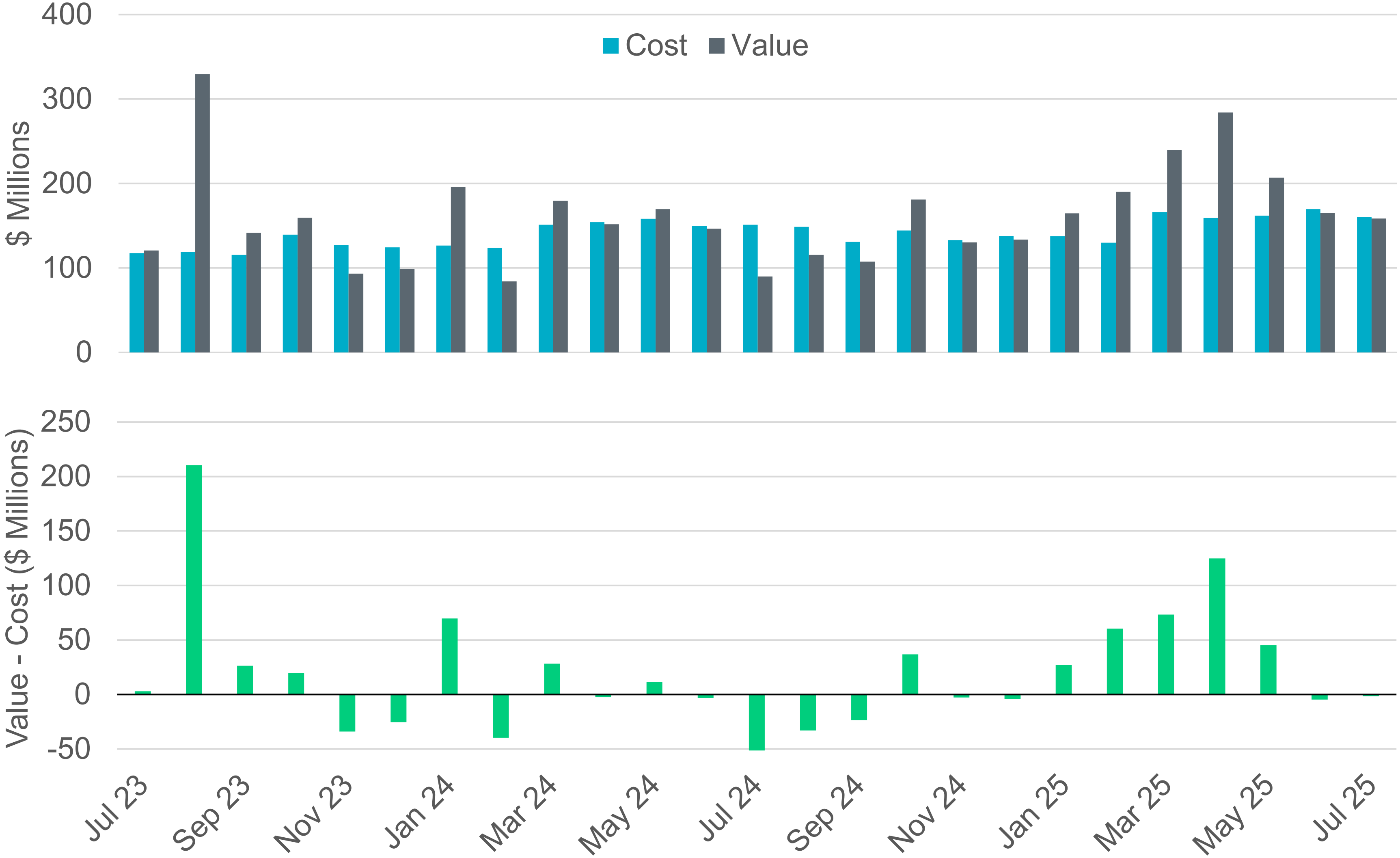
Notes:
1) The dotted lines represent the bounds for major outliers.
2) Averages are weighted by Real-Time Market Load.

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

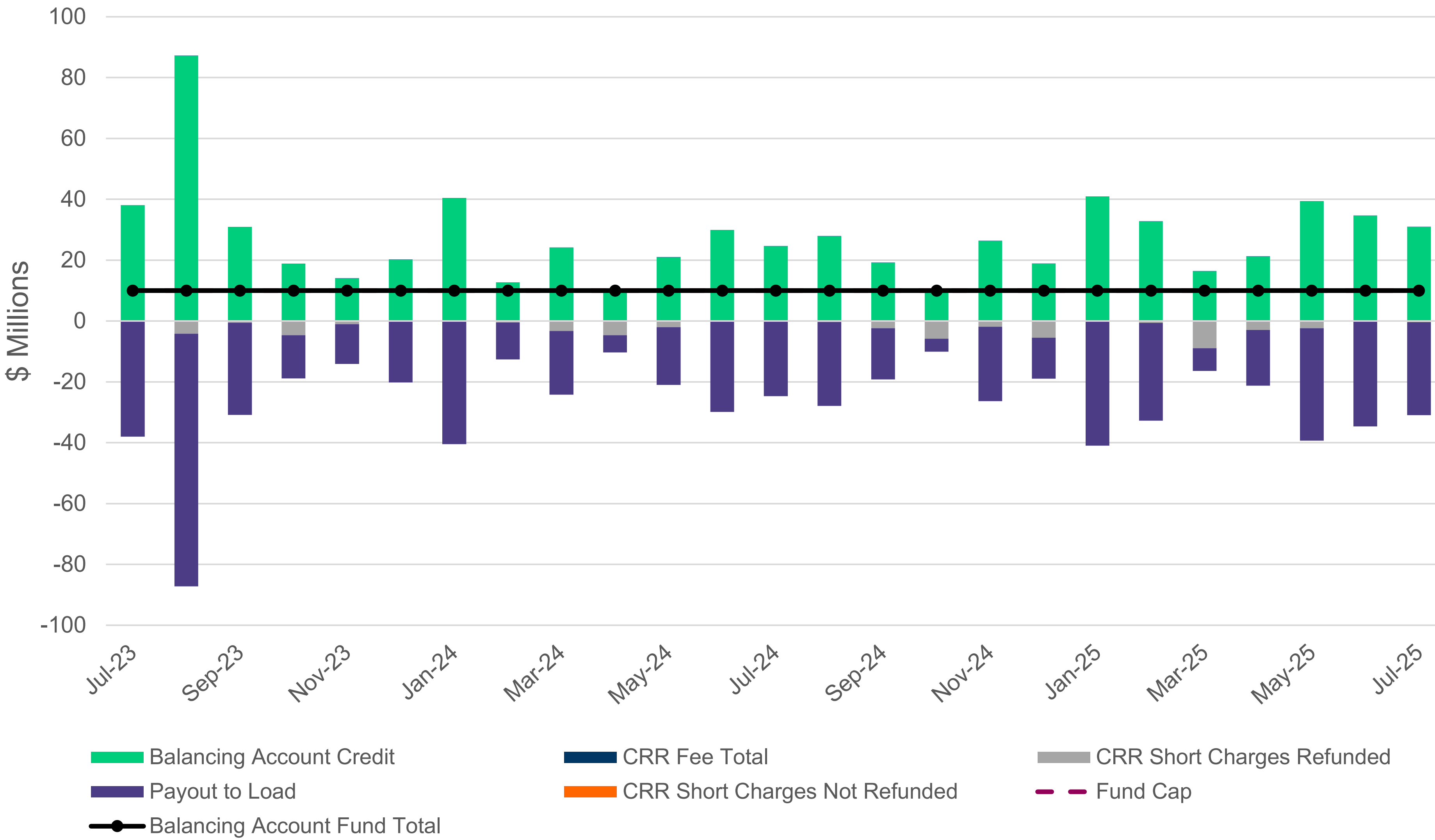


Notes:
1) The dotted lines represent the bounds for major outliers.

Congestion Revenue Right (CRR) cost aligned with value, on average, in July



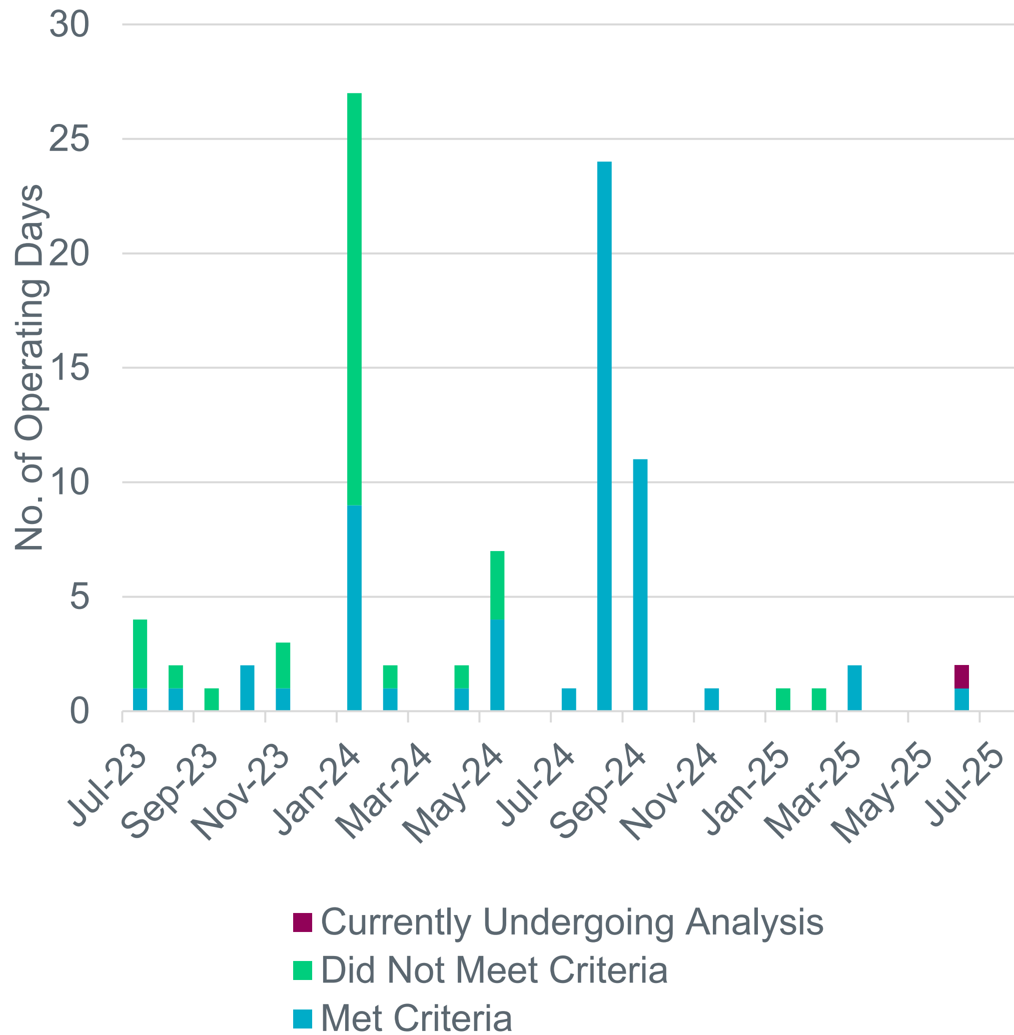
The CRR Balancing Account was fully-funded and excess amounts were allocated to Load



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.

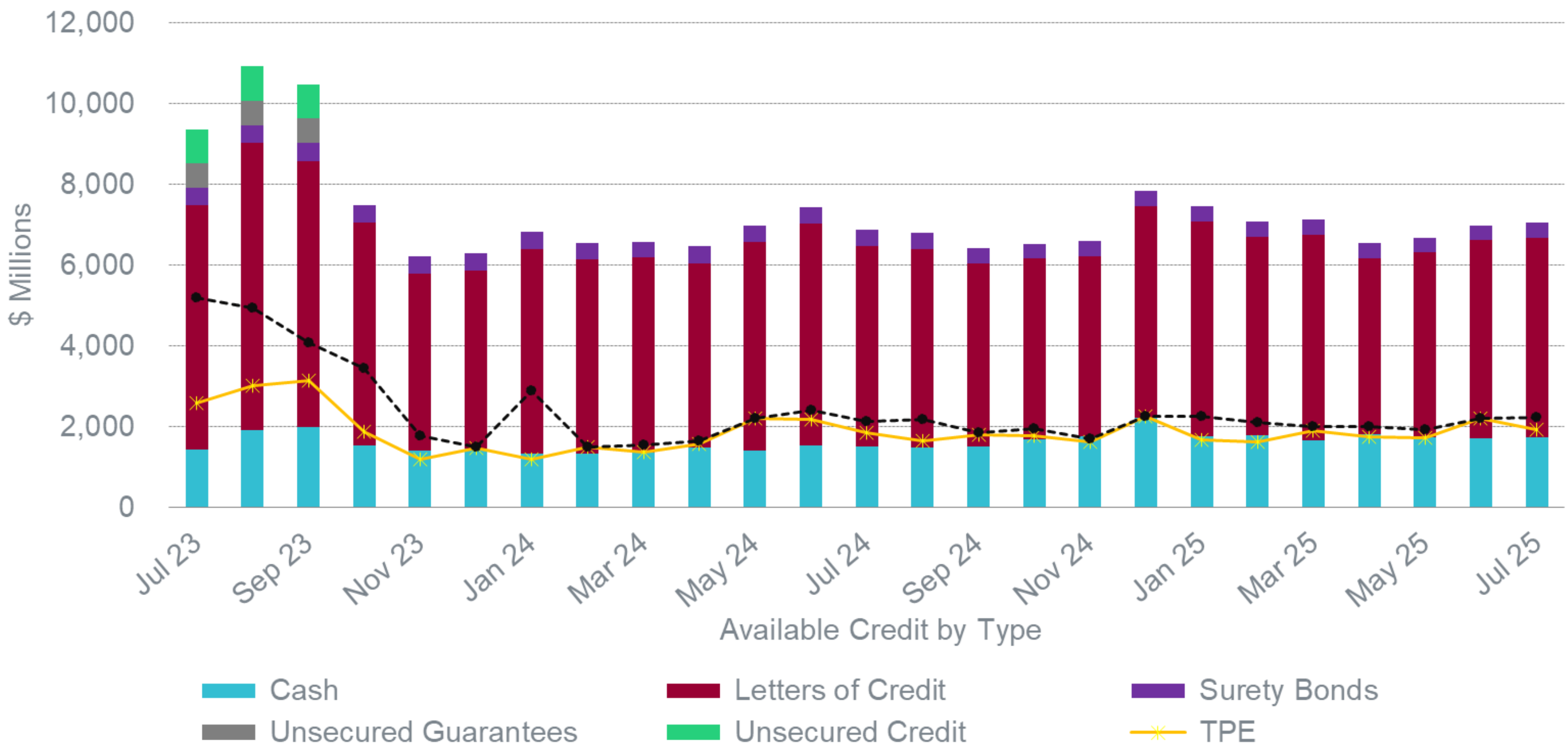


Details for Price Corrections Review

It was found that the Day-Ahead Market run for Operating Day June 27, 2025, used an incorrect transmission limit for Generic Transmission Constraint (GTC) SAMSW. This was due to a software defect in a tool that is used to calculate GTC limits. Analysis is currently being performed to see if the impact to Counter-Parties meets criteria for seeking ERCOT Board of Directors approval for price correction. See Market Notice M-C072525-01.

There were no price impact events during the month of July 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 – July 2025

	Year-To-Date		Transactions Received	
Transaction Type	July 2025	July 2024	July 2025	July 2024
Switches	852,231	762,243	121,440	114,296
Acquisitions	0	0	0	0
Move - Ins	1,725,834	1,878,530	282,238	269,449
Move - Outs	852,413	838,179	138,887	132,223
Continuous Service Agreements (CSA)	339,724	244,479	45,336	30,725
Mass Transitions	0	0	0	0
Total	3,770,202	3,723,431	587,901	546,693