ERCOT Monthly Operational Overview
(August 2025)

ERCOT Public
September 22, 2025

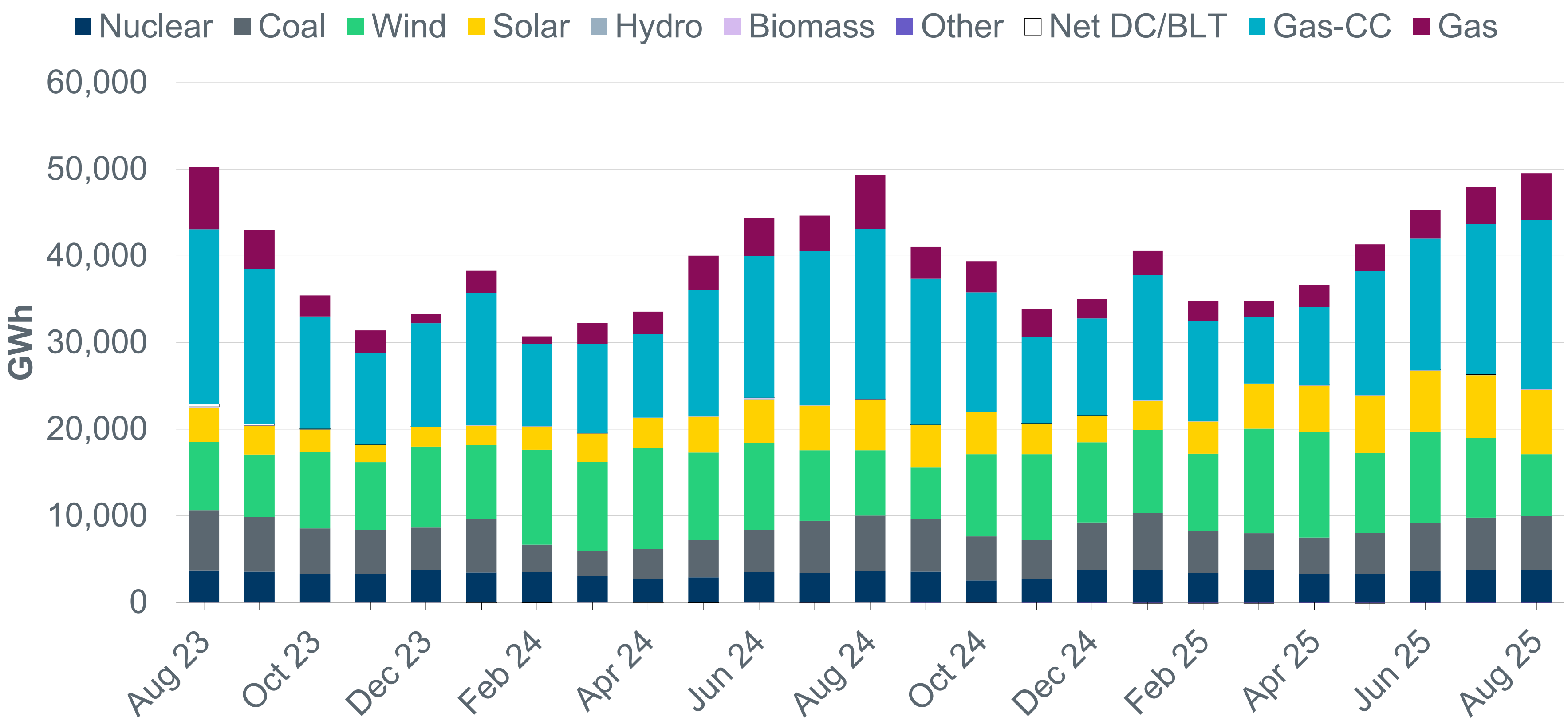
Highlights, Records and Notifications

- ERCOT's maximum peak demand for the month of August was 83,679 MW* on 8/18/25; this is 1,566 MW less than the August 2024 demand of 85,245 MW set on 8/20/24.

- ERCOT issued 1 notification:
  - 1 Advisory – Due to delaying DAM posting from system issues.

* Preliminary value from September Demand and Energy 2025 report.

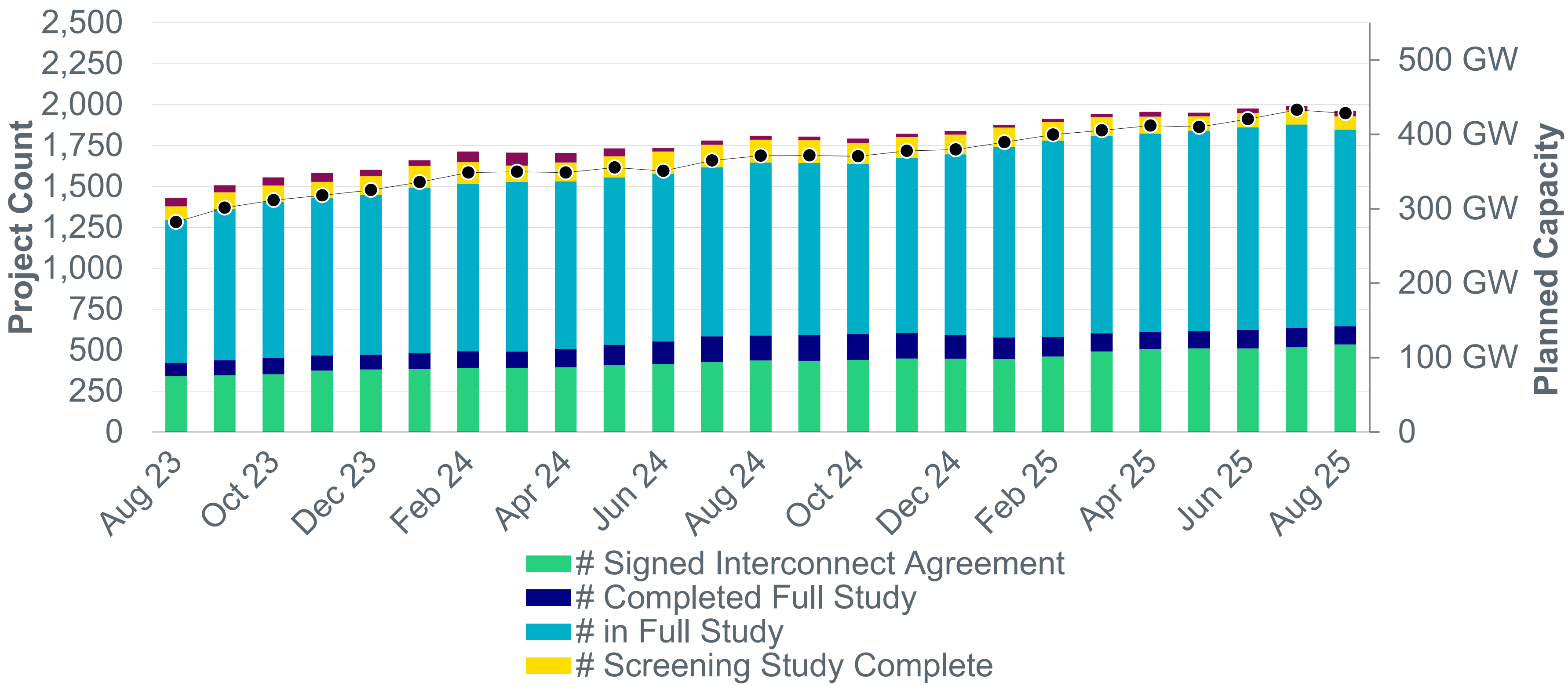
Monthly energy generation increased by 0.3% year-over-year to 49,417 GWh in August 2025, compared to 49,283 GWh in August 2024



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)

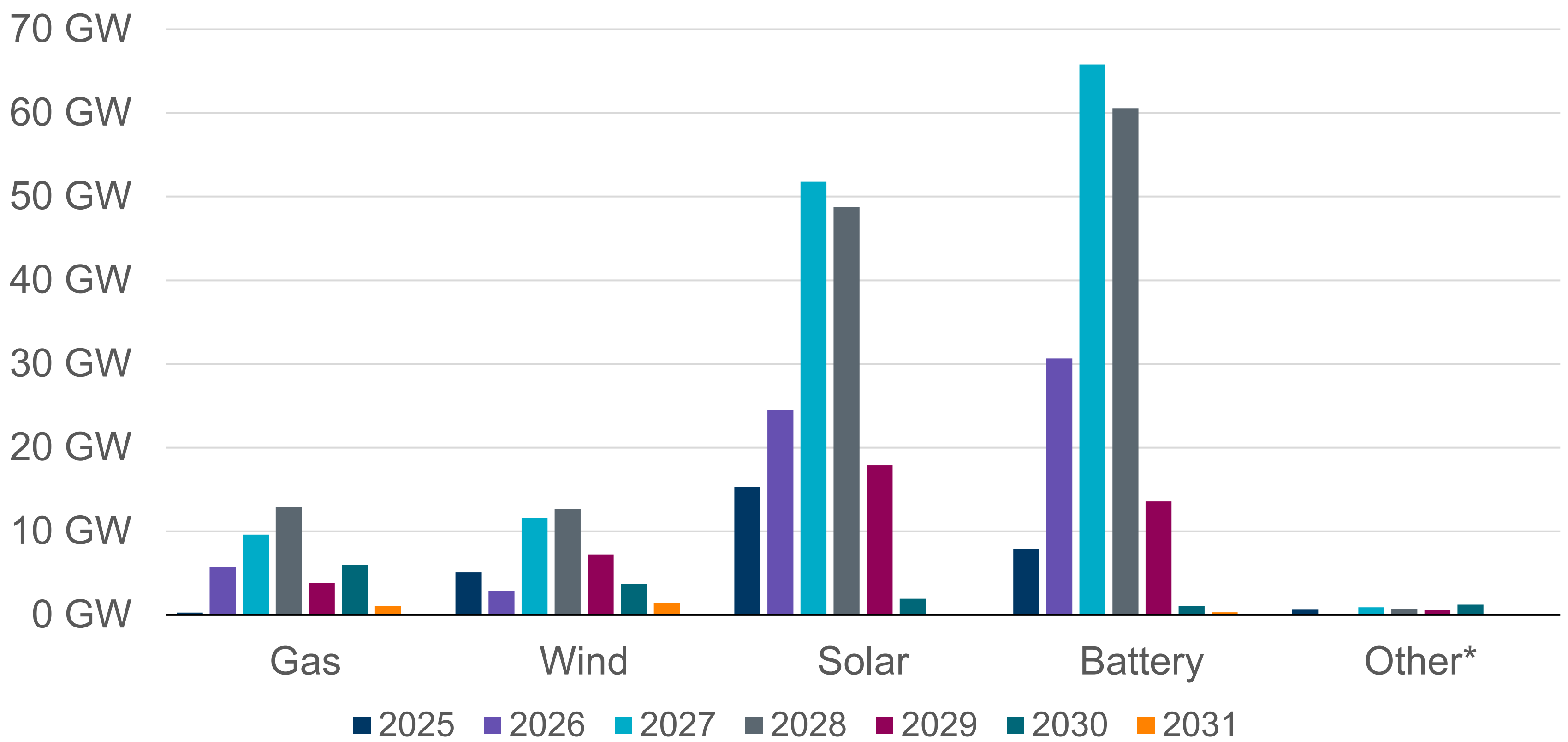


- There are an additional 56 "Small Generator" projects totaling 523 MW that are going through the simplified interconnection process.
- A break-out by fuel type can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: http://www.ercot.com/gridinfo/resource

Interconnection Queue Capacity by Fuel Type

Queue totals: Solar 160 GW (37.4%), Wind 45 GW (10.4%), Gas 39 GW (9.2%), Battery 180 GW (42%), 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 2,041 active generation interconnection requests totaling 428,183 MW as of August 31. This includes 160,192 MW of solar, 44,649 MW of wind, 179,838 MW of battery, and 39,403 MW of gas projects; 129 projects were categorized as inactive, up from 126 inactive projects in July 2025.

- ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $14.279 billion as of August 31, 2025.

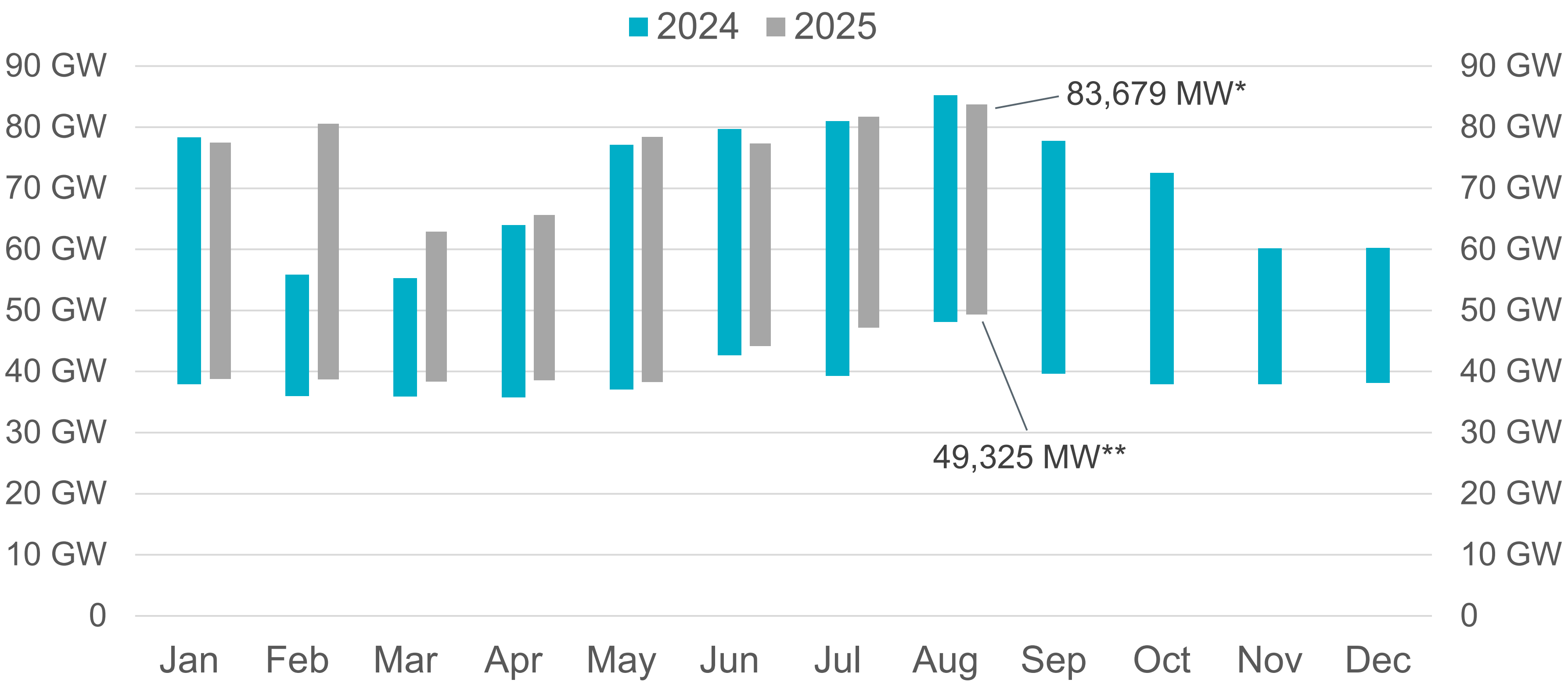
- Transmission Projects endorsed in 2025 total $2.545 billion as of August 31, 2025.

- 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.

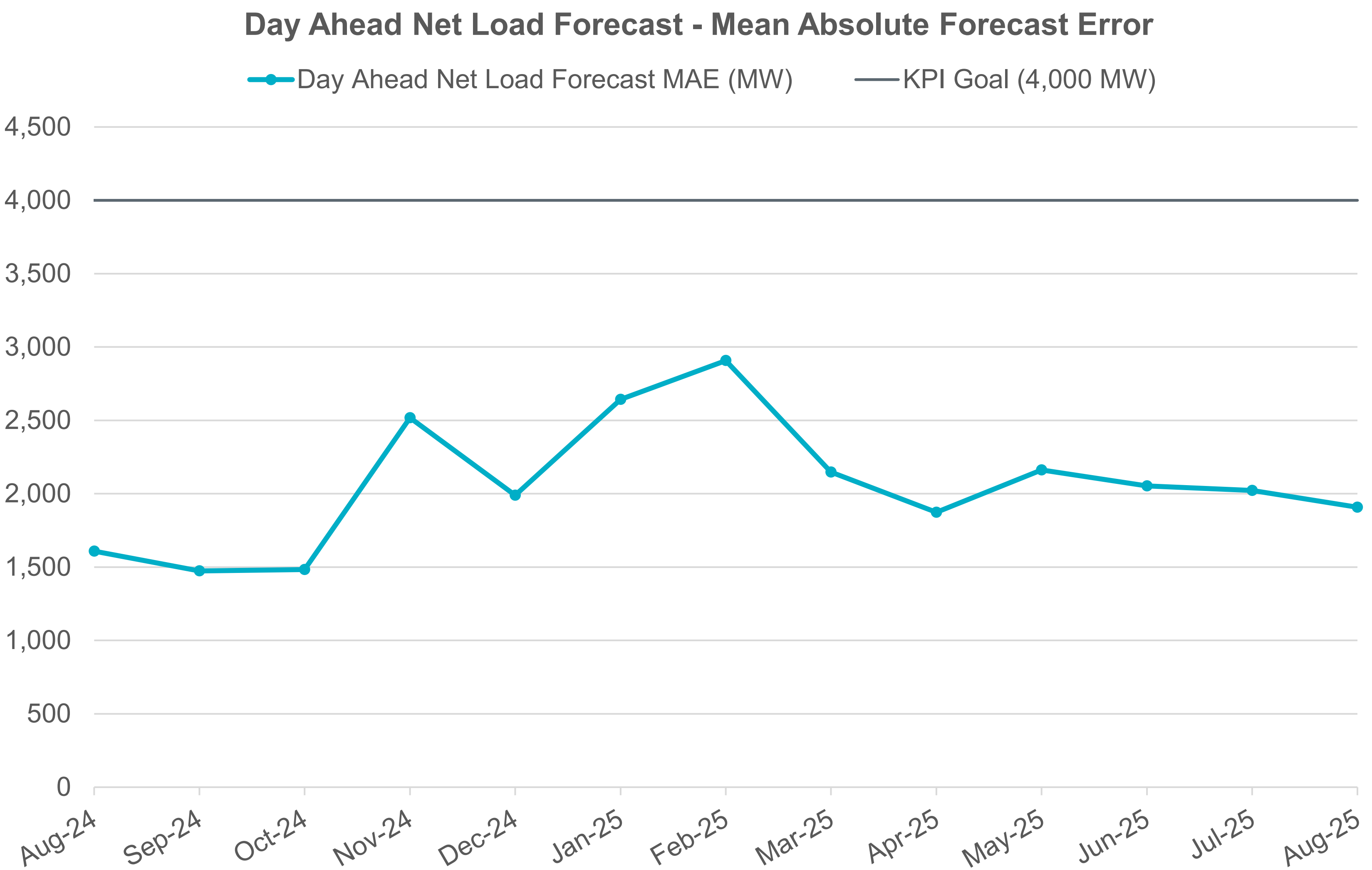
- Transmission Projects planned to energize during the remainder of 2025 total approximately $2.970 billion as of June 1, 2025.

ERCOT's maximum peak demand for the month of August was 83,679 MW* on 8/18/25; this is 1,566 MW less than the August 2024 peak demand of 85,245 MW on 8/20/24.

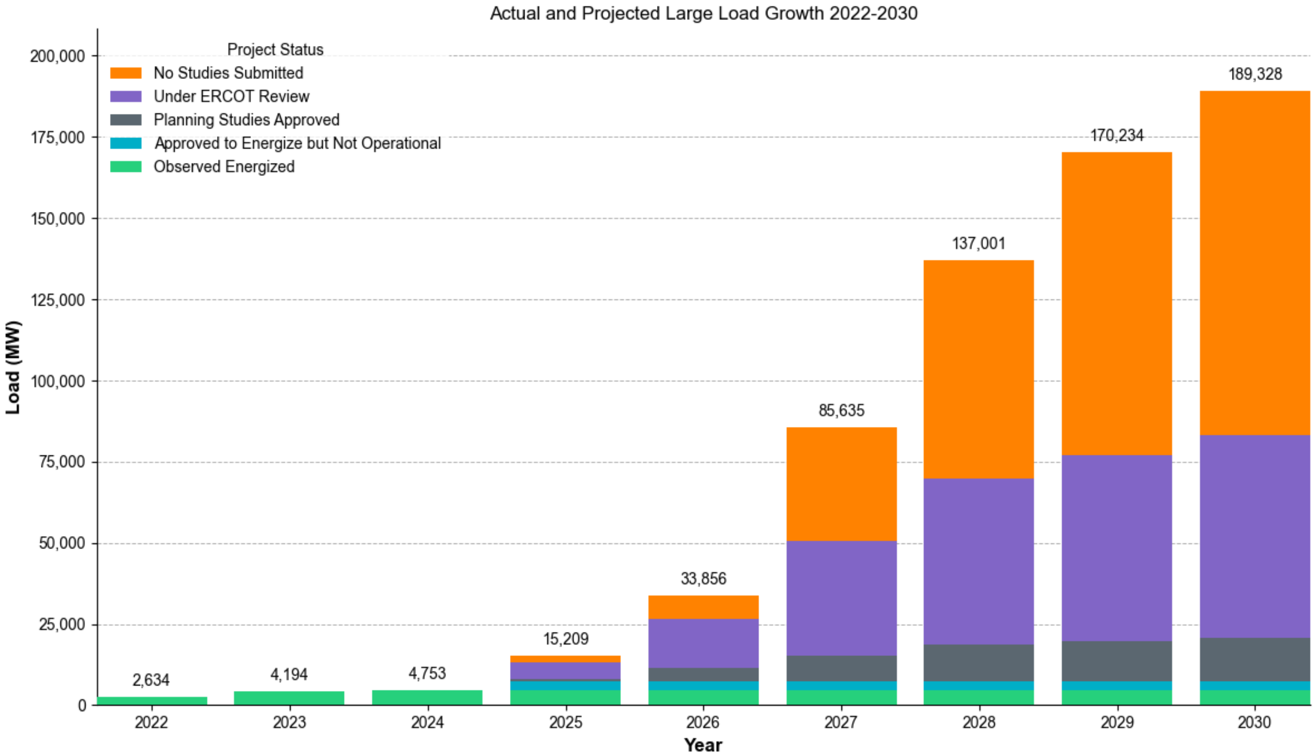


*Based on the maximum net system hourly value from the August 2025 Demand and Energy report.
**Based on the minimum net system 15-minute interval value from the August 2025 Demand and Energy report.
Data for latest two months are based on preliminary settlements.

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	2,072	7,208	35,054	67,332	93,400	106,267
Under ERCOT Review	0	0	0	5,192	15,062	35,198	50,966	56,981	62,388
Planning Studies Approved	0	0	0	443	4,084	7,881	11,201	12,351	13,171
Approved to Energize but Not Operational	0	83	137	2,886	2,886	2,886	2,886	2,886	2,886
Observed Energized	2,634	4,111	4,616	4,616	4,616	4,616	4,616	4,616	4,616
Total (MW)	**2,634**	**4,194**	**4,753**	**15,209**	**33,856**	**85,635**	**137,001**	**170,234**	**189,328**

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.

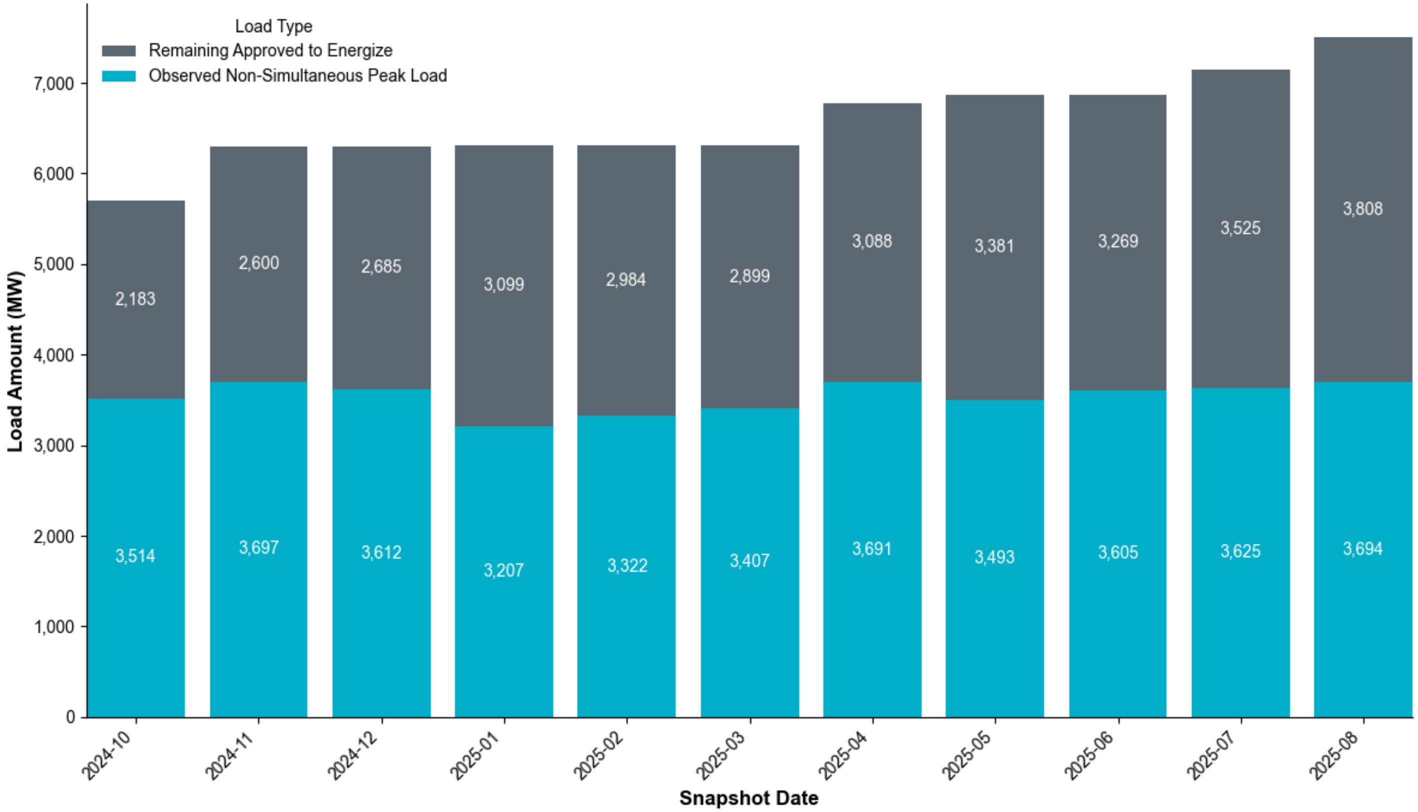
Planning Studies Approved – Projects that have received ERCOT approval of required interconnection studies. Any MWs that were not approved are reclassified as No Studies Submitted.

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

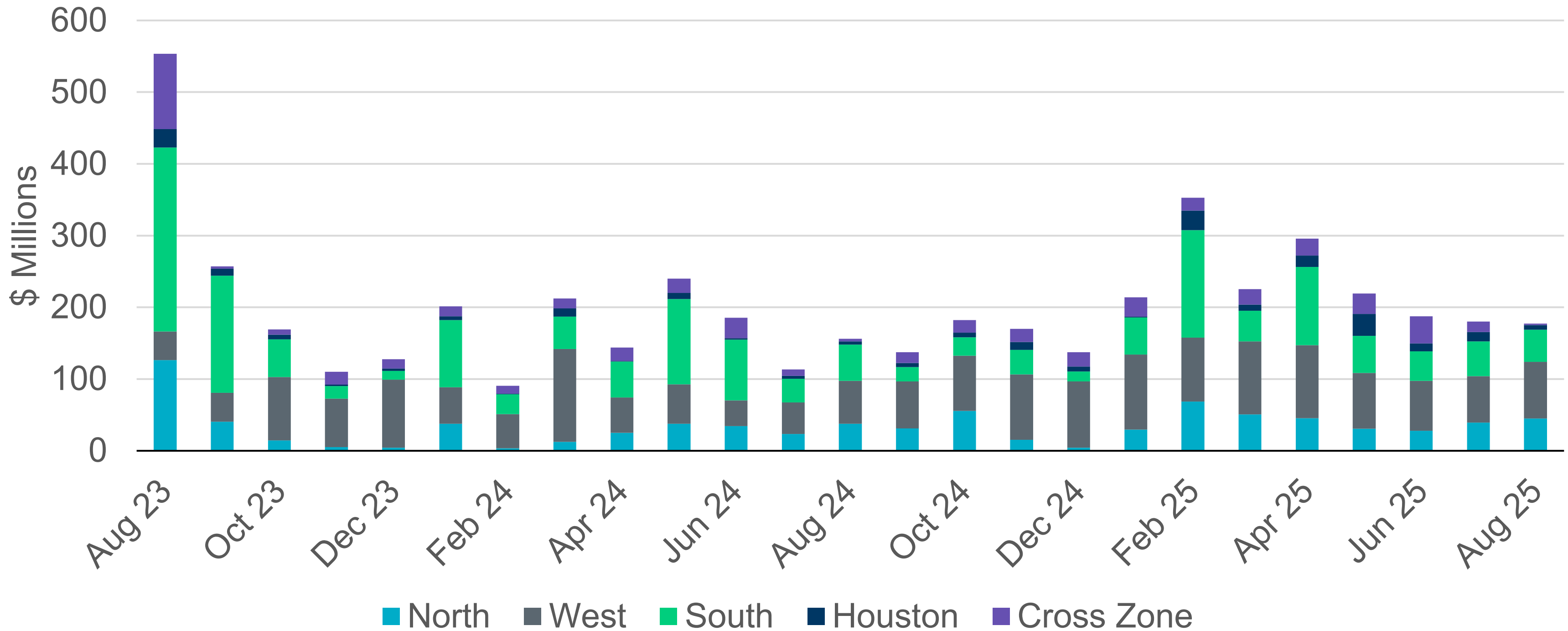
No Studies Submitted – Projects that are tracked by ERCOT but that have not yet provided sufficient information for ERCOT to begin review. Additionally, MWs that were not approved by ERCOT after review of planning studies are included in this category until a path to interconnect these MWs is identified, 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 3694 MW in August 2025 which is a slight increase since July 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



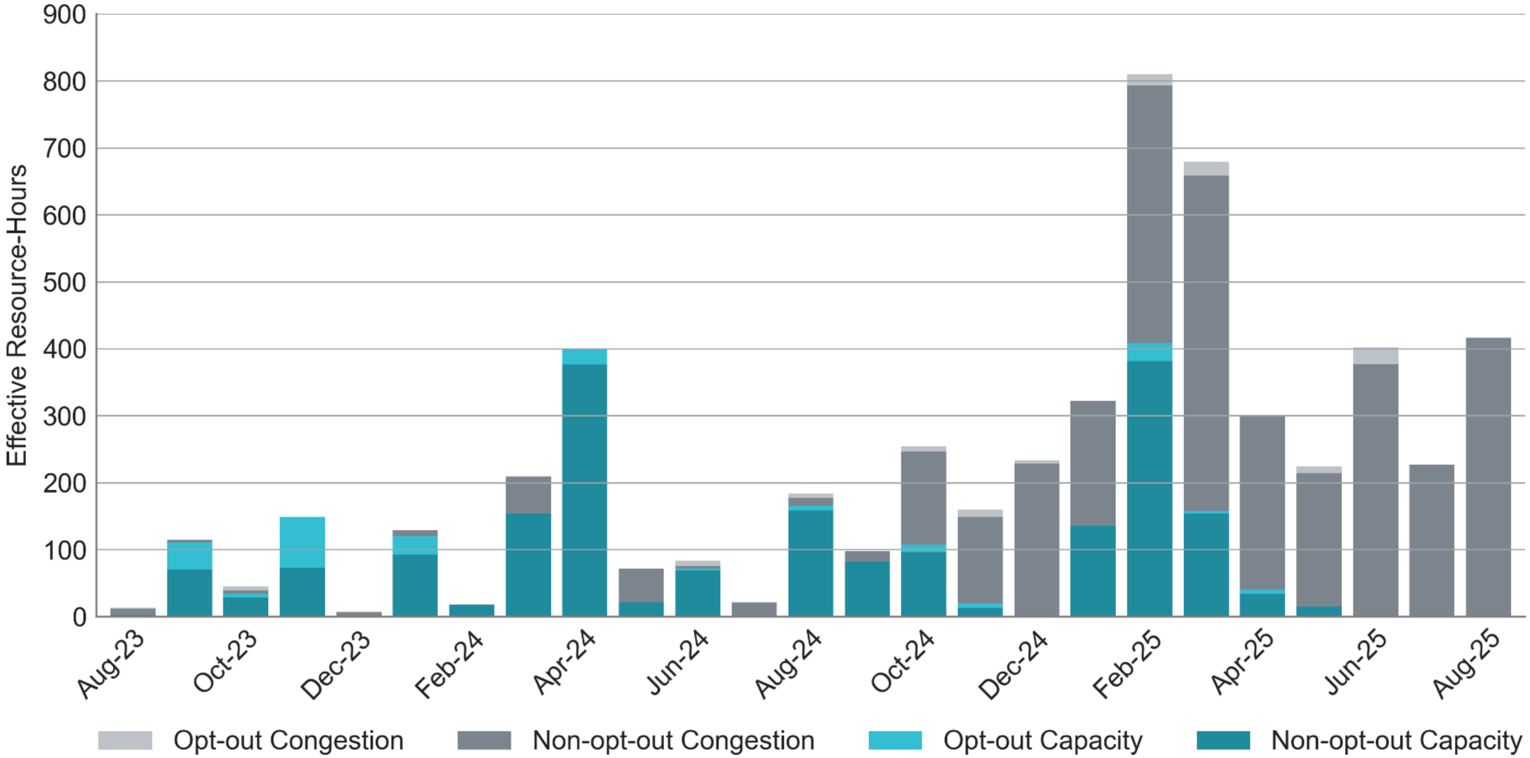
Total Real-Time congestion rent has remained relatively flat this summer



- Total Real-Time congestion rent in August was slightly lower than in July, with the congestion rent being highest in the West and North Zones.
  - Congestion rent in the West Zone was primarily driven by a constraint representing the loss of the double circuit 345 kV line from Bakersfield to Cedar Canyon which would overload the 138 kV line from Hargrove to Twin Buttes.
  - Congestion rent in the North Zone was primarily driven by a constraint representing the double loss of the 345 kV lines from Hutto Switch to Salado Switch which would overload the 138 kV line from Salado Switch to Bell County.

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.

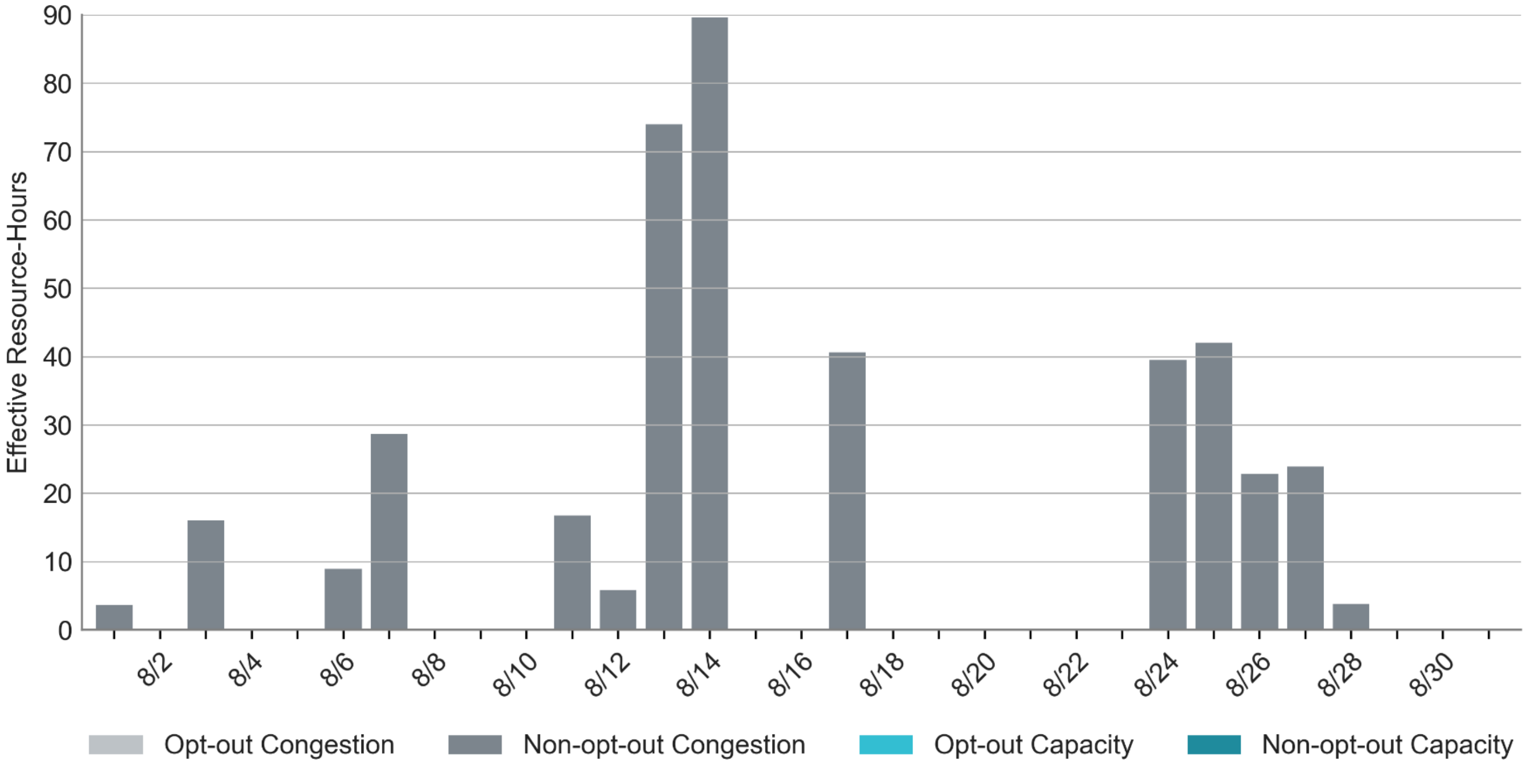
RUC activity returned to the higher levels seen in June, with commitment decisions nominally attributed to congestion



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.

Congestion-related RUC activity continues to predominate

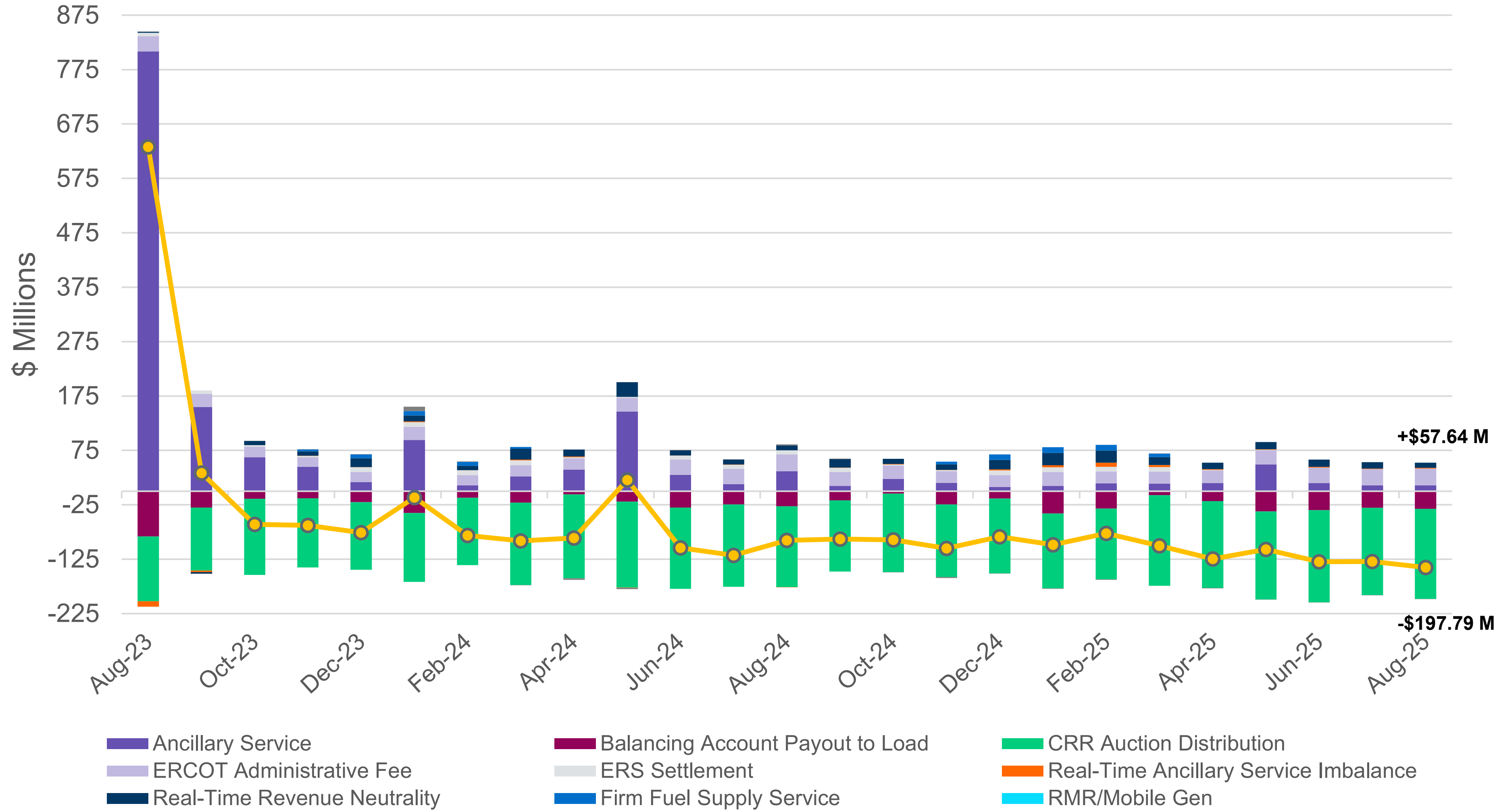
- 416.2 RUC effective Resource-hours.
  - 416.2 hours (100%) nominally attributed to congestion.
  - There were no opt-out Effective Resource-hours in August



Fourteen Resources were committed in August, nominally for managing congestion

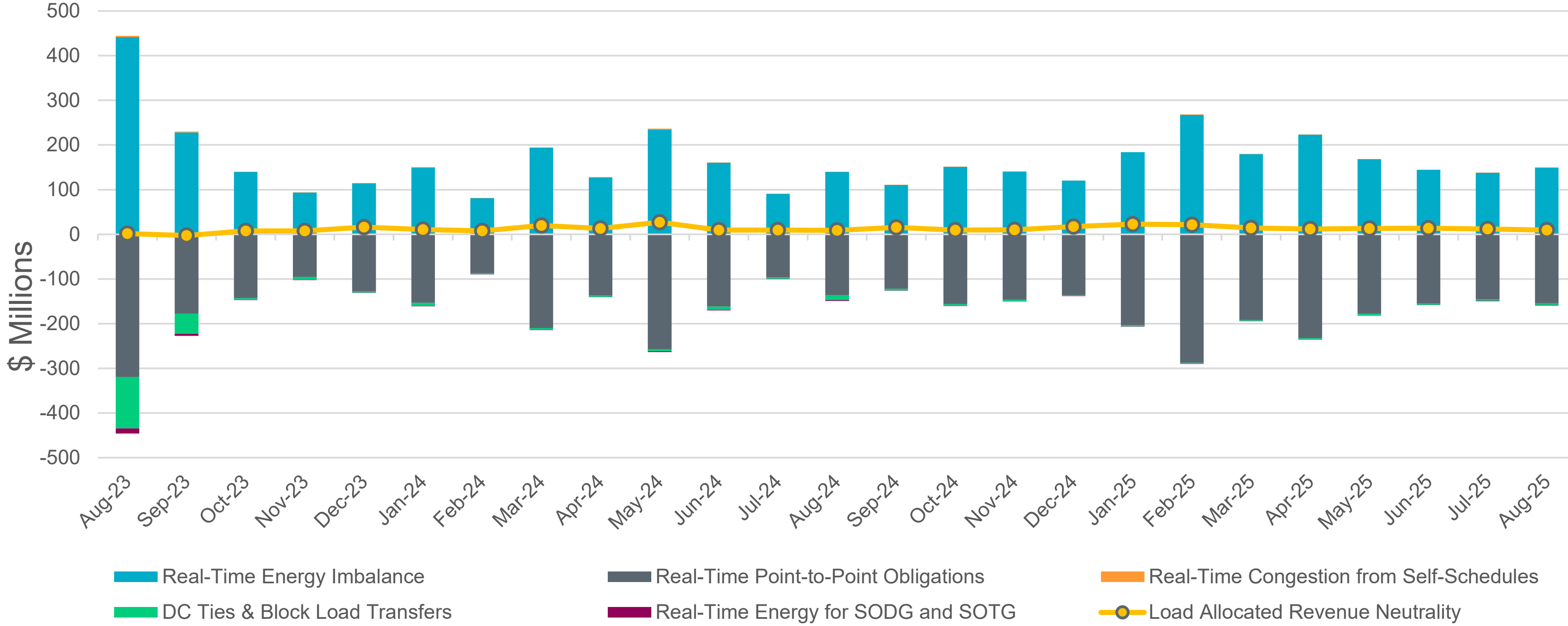
Resource #	Effective Resource-hours	For Congestion		For Capacity	
		Opt-Out	Non-Opt-Out	Opt-Out	Non-Opt-Out
1	7.0	0.0	7.0	0.0	0.0
2	10.9	0.0	10.9	0.0	0.0
3	4.0	0.0	4.0	0.0	0.0
4	8.0	0.0	8.0	0.0	0.0
5	13.0	0.0	13.0	0.0	0.0
6	10.8	0.0	10.8	0.0	0.0
7	85.8	0.0	85.8	0.0	0.0
8	67.8	0.0	67.8	0.0	0.0
9	1.9	0.0	1.9	0.0	0.0
10	85.7	0.0	85.7	0.0	0.0
11	85.7	0.0	85.7	0.0	0.0
12	19.0	0.0	19.0	0.0	0.0
13	11.7	0.0	11.7	0.0	0.0
14	5.0	0.0	5.0	0.0	0.0
Total	416.2	0.0	416.2	0.0	0.0

Net Allocation to Load in August 2025 was ($140.16) Million



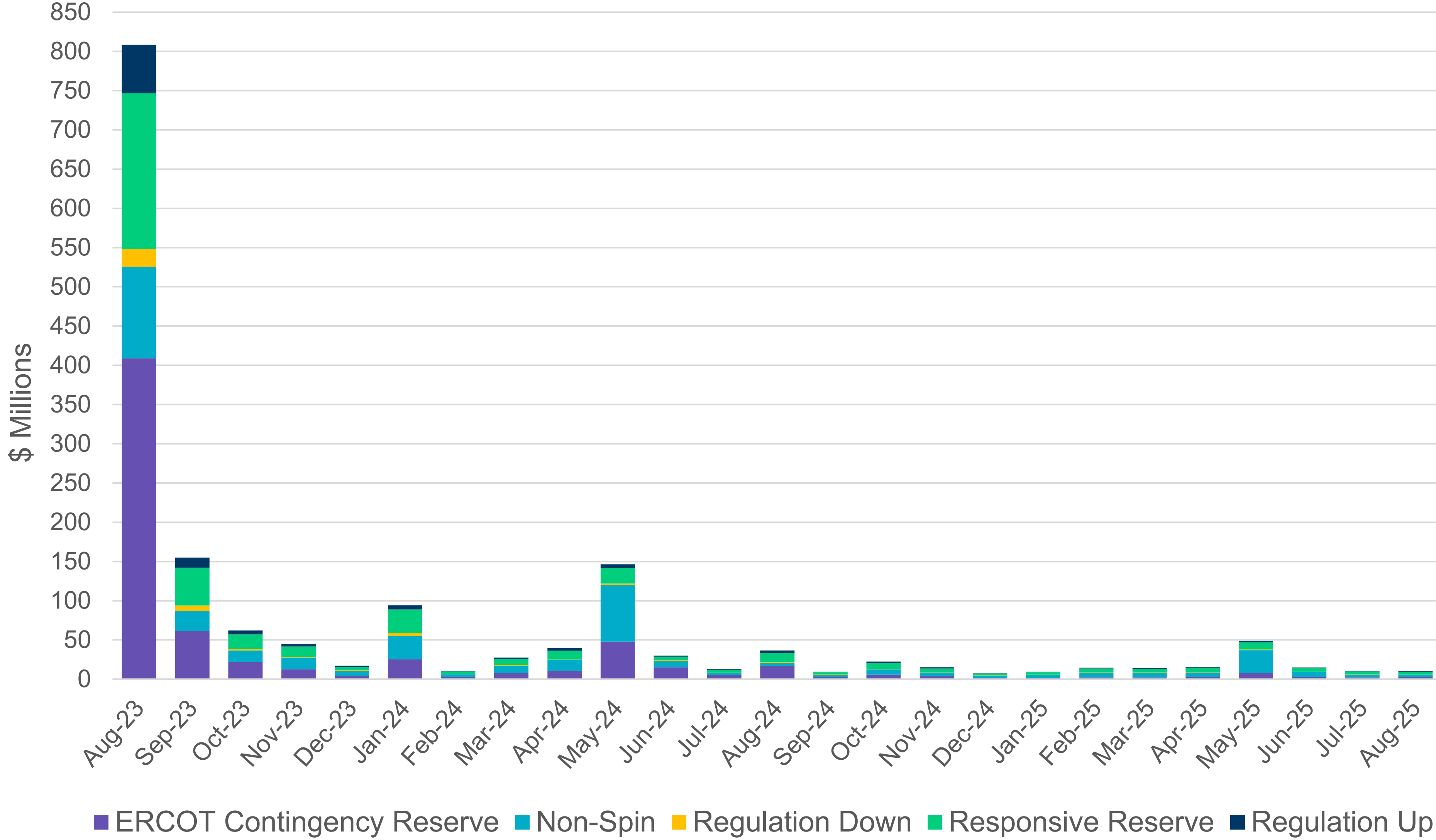
This information is available in tabular form in the Settlement Stability Report presented quarterly to the [Wholesale Market Subcommittee]

Real-Time Revenue Neutrality Allocated to Load was $9.59M for August 2025

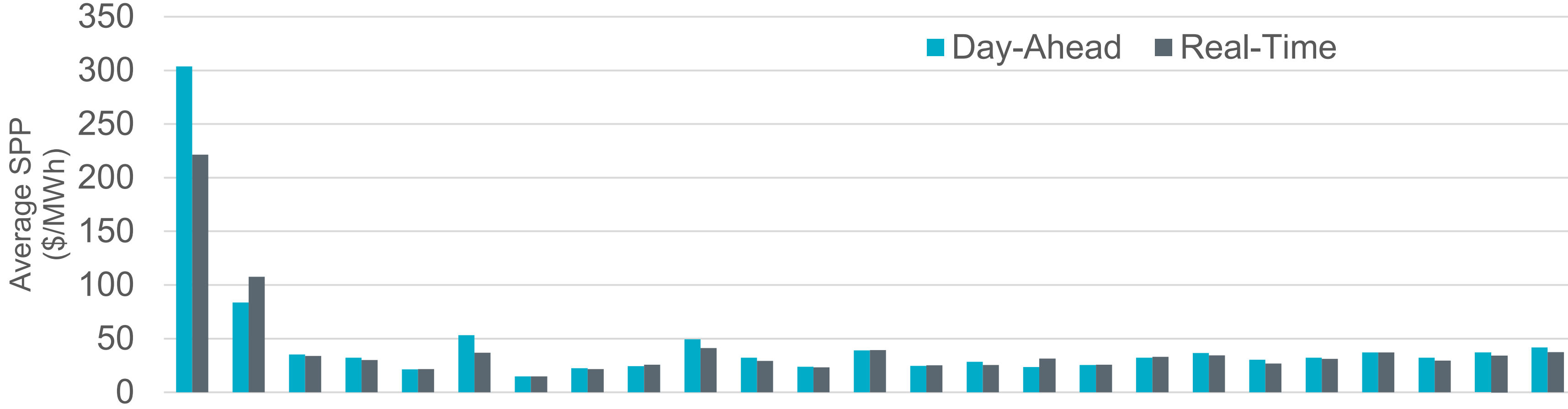


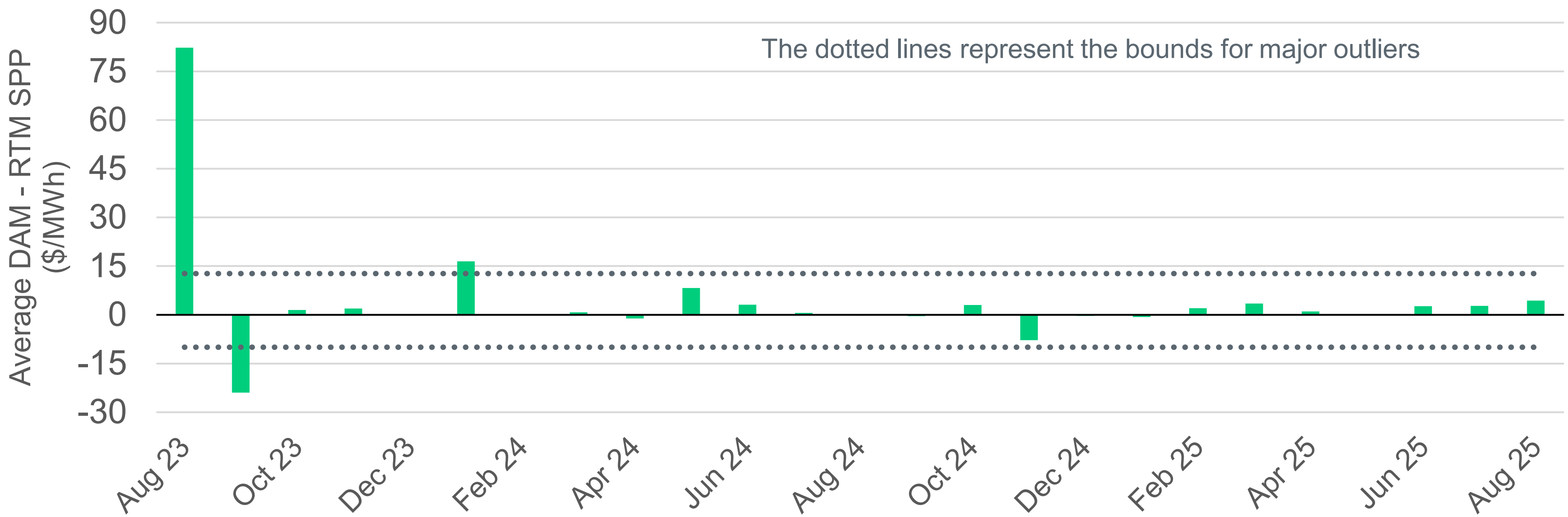
	August 2025 ($M)
Real-Time Energy Imbalance	$149.63
Real-Time Point-to-Point Obligation	($154.39)
Real-Time Congestion from Self-Schedules	$0.16
DC Tie & Block Load Transfer	($3.95)
Real-Time Energy for SODG and SOTG	($1.04)
Load Allocated Revenue Neutrality	**$9.59**

Ancillary Services for August 2025 totaled $10.53M



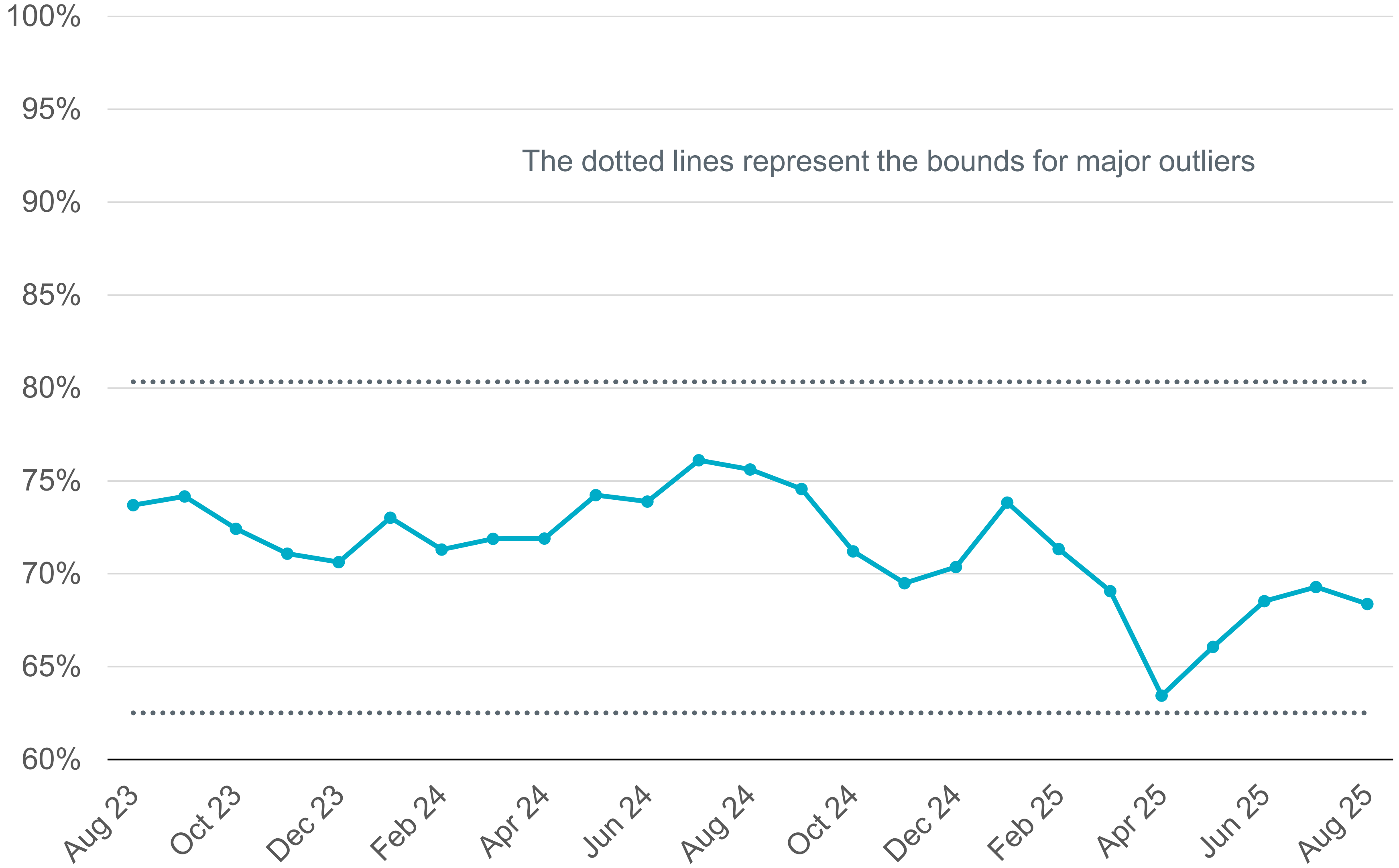
Real-Time prices were generally aligned with Day-Ahead prices in August





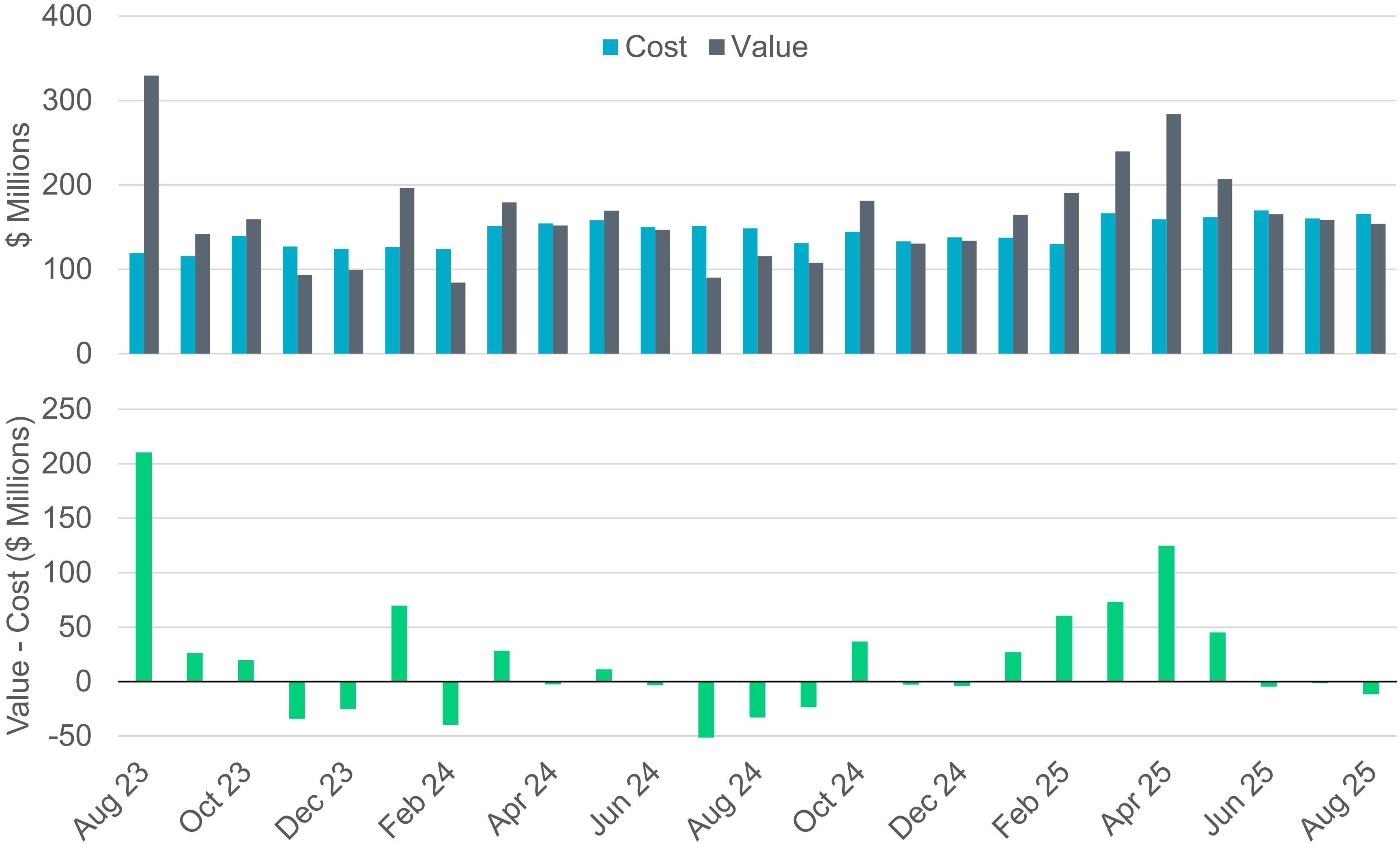
Notes:
1) The dotted lines represent the bounds for major outliers.
2) Averages are weighted by Real-Time market load.

Percentage of Real-Time load transacted in the Day-Ahead Market decreased slightly in August compared to July

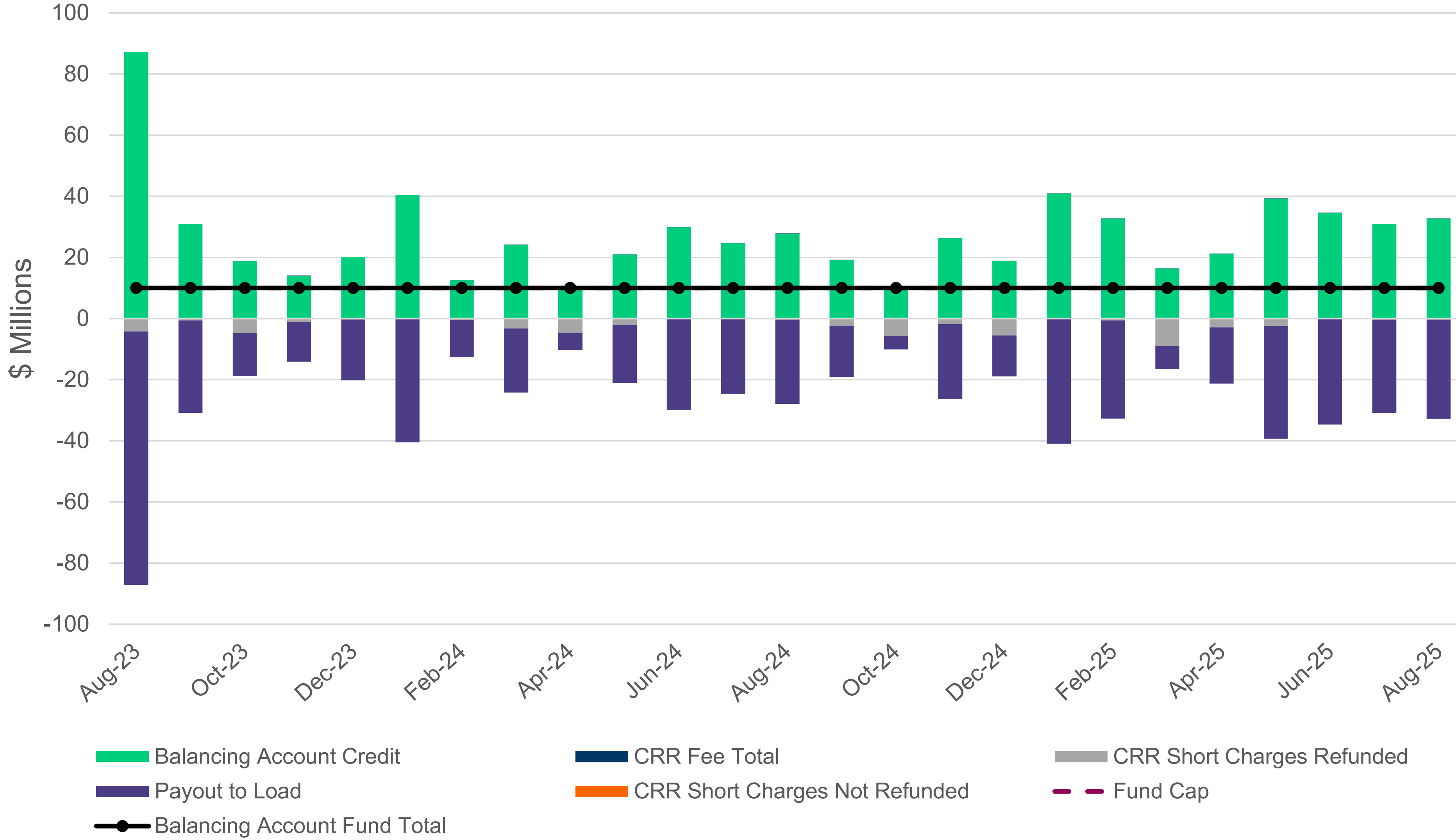


Notes:
1) The dotted lines represent the bounds for major outliers.

Congestion Revenue Right (CRR) cost slightly exceeded the value for the month of August



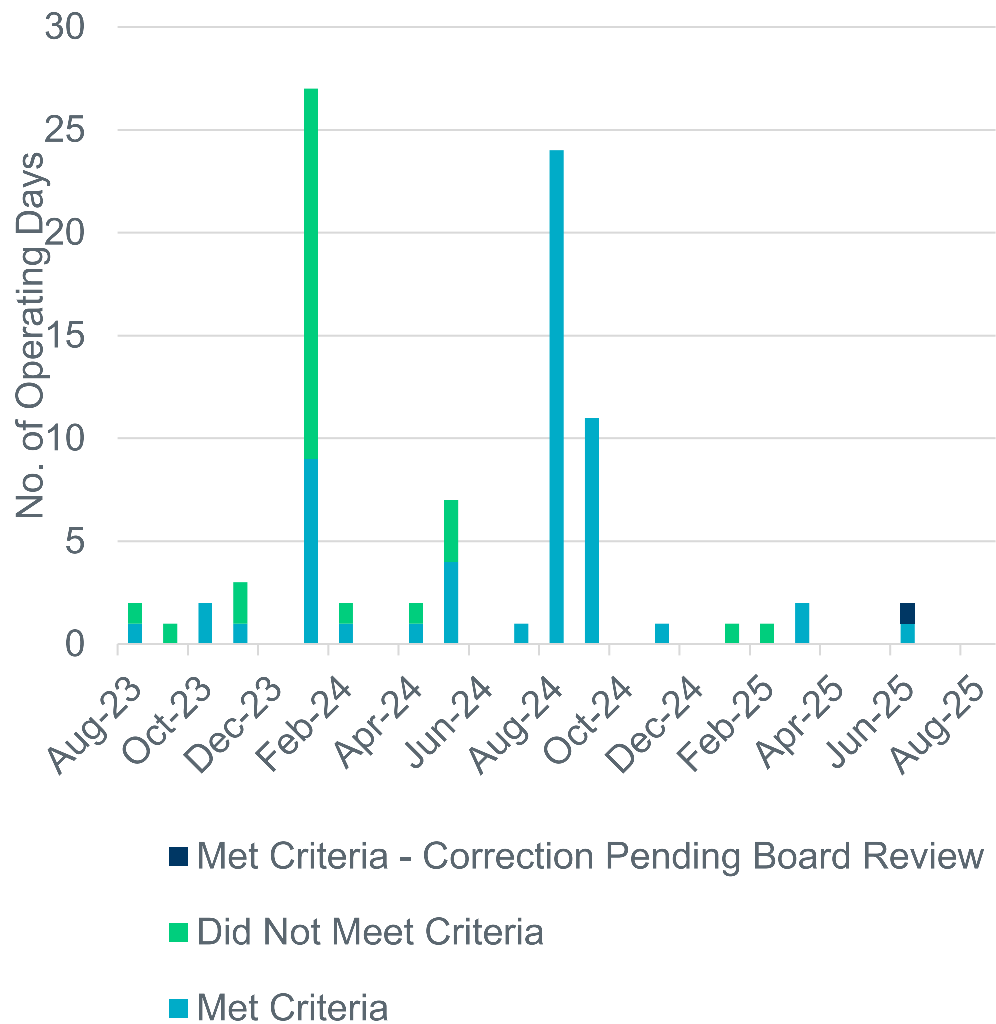
The CRR Balancing Account was fully-funded and excess amounts were allocated to Load



There were no price impact events in August 2025

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

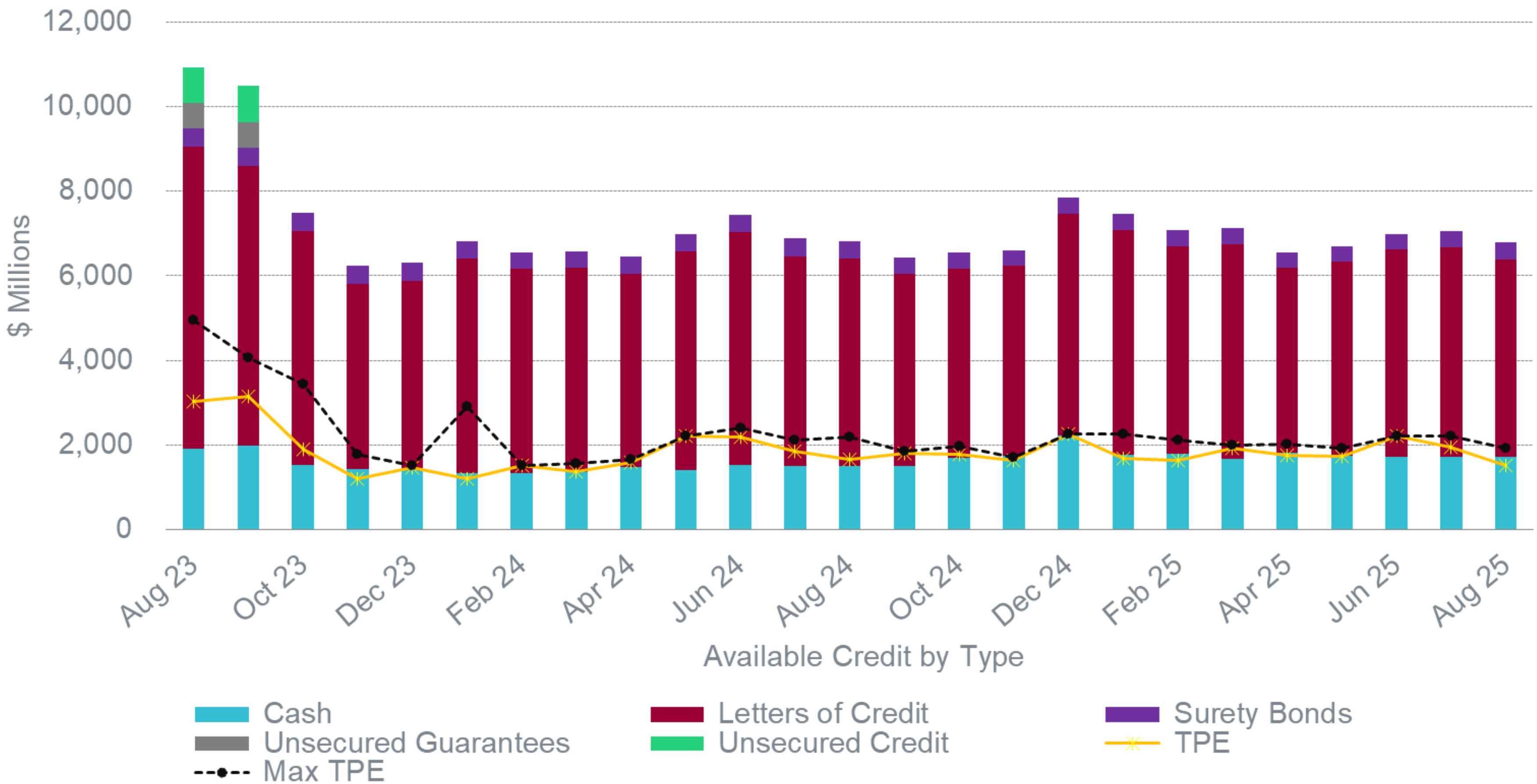
- Days that met the criteria for “significance” under NPRR1024 and were corrected;
- Days that were not corrected because they did not meet the criteria for “significance” under NPRR1024; and
- Days that are currently undergoing analysis to determine if criteria for “significance” under NPRR1024 is met.



ERCOT will seek approval of a price correction for Operating Day June 27

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 was performed and the impact to Counter-Parties met criteria to seek ERCOT Board of Directors approval for price correction. See Market Notice M-C072525-01 & M-C072525-02.

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



*Numbers are as of month end except for Max TPE

Retail Transaction Volumes – Summary – August 2025

	Year-To-Date		Transactions Received	
Transaction Type	August 2025	August 2024	August 2025	August 2024
Switches	1,003,191	866,555	150,960	104,312
Acquisitions	0	0	0	0
Move - Ins	2,016,972	2,160,557	291,138	282,027
Move - Outs	978,609	962,027	126,196	123,848
Continuous Service Agreements (CSA)	592,025	294,985	252,301	50,506
Mass Transitions	0	0	0	0
Total	4,590,797	4,284,124	820,595	560,693