ERCOT Monthly Operational Overview
(June 2024)

ERCOT Public
July 17, 2024

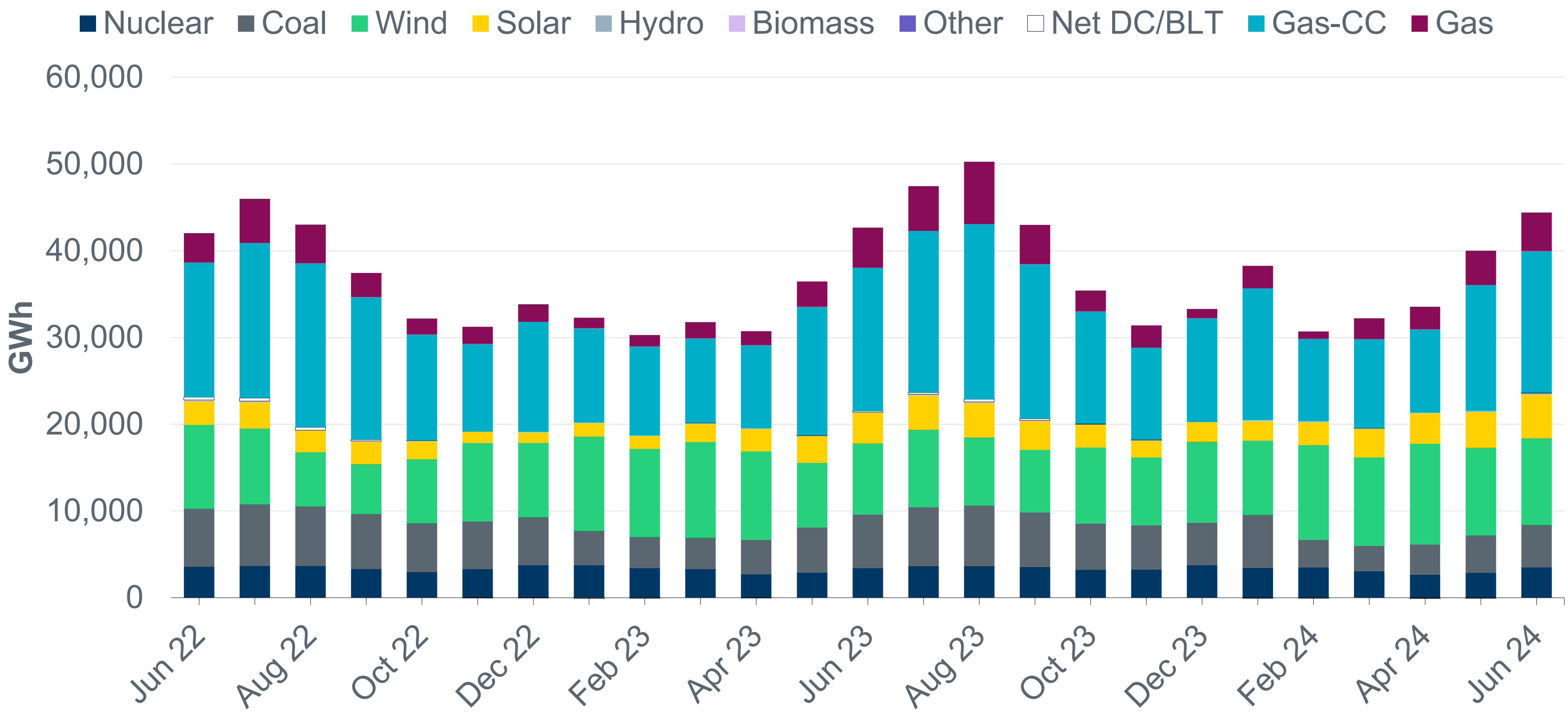
Highlights, Records and Notifications

- ERCOT's maximum peak demand for the month of June was 79,698 MW* on 6/30/2024; this is 1,128 MW less than the June 2023 peak demand of 80,826 MW set on 6/27/2023.

- ERCOT issued 5 notifications.
  - 1 Advisories - Geomagnetic disturbance of [K-7].
  - 1 Advisories - Geomagnetic disturbance of [K-8].
  - 3 DC Tie Curtailment Notice - DC_L due to a planned or unplanned outage.

* Preliminary value from July Demand and Energy 2024 report.

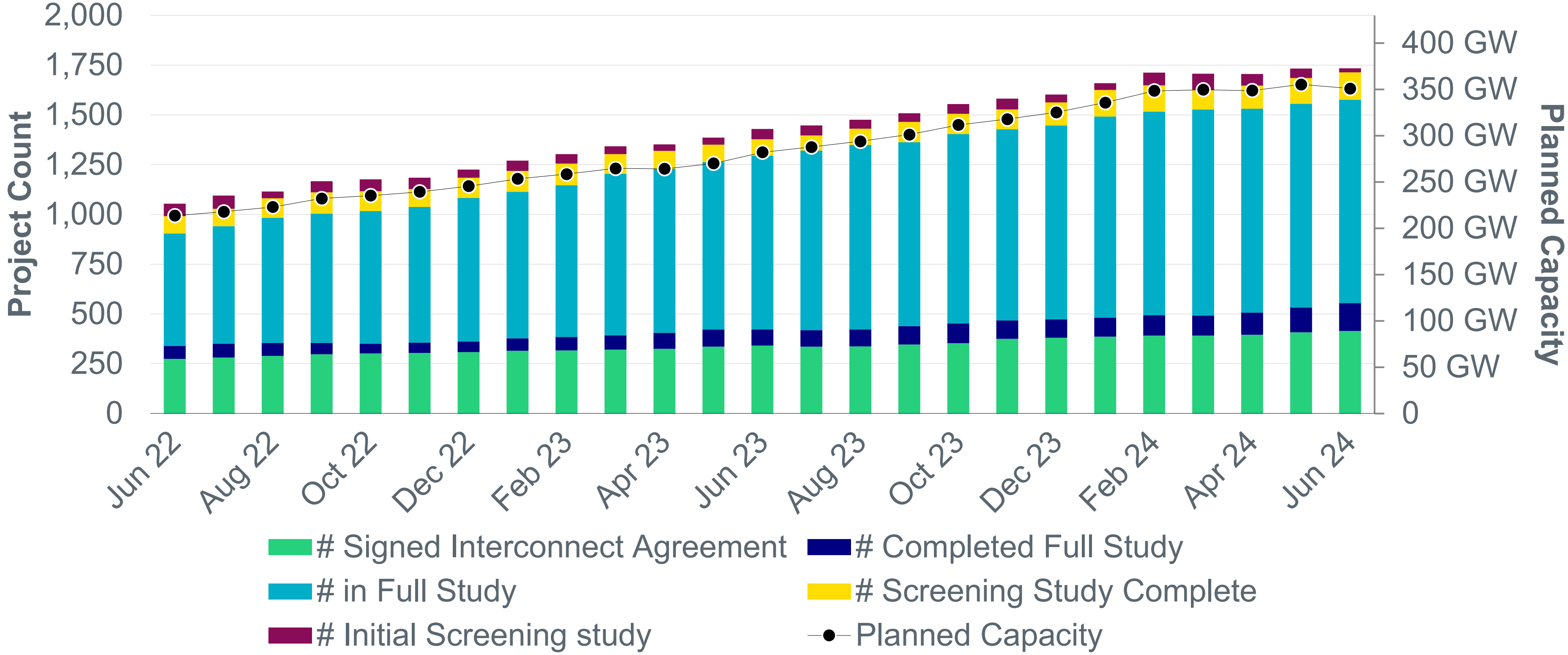
Monthly energy generation increased by 4.1% year-over-year to 44,378 GWh in June 2024, compared to 42,649 GWh in June 2023



Data for latest two months are based on preliminary settlements.

Generation Interconnection activity by project phase

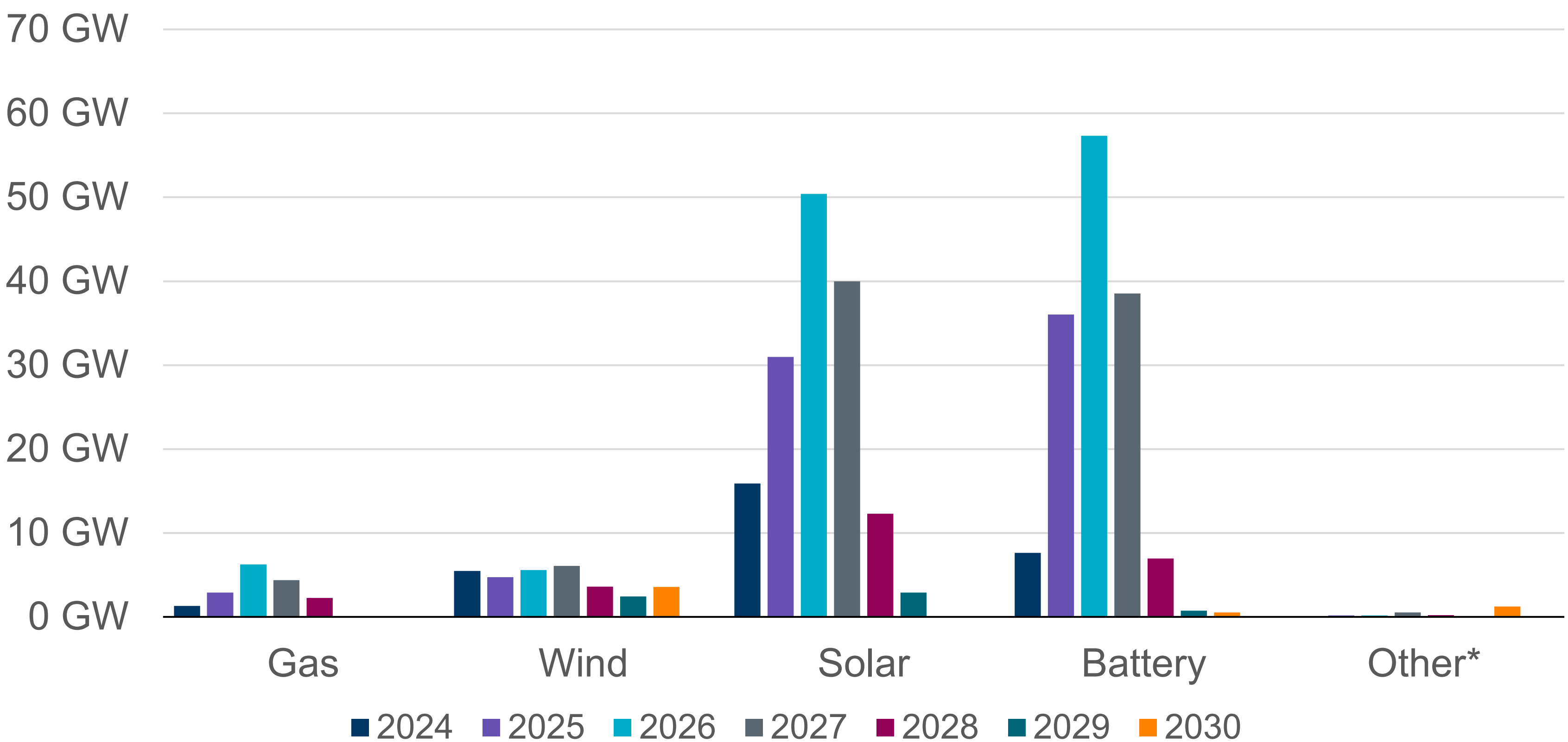
(Excludes capacity associated with projects designated as Inactive per Planning Guide Section 5.7.6)



- There are an additional 44 “Small Generator” projects totaling 415 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 152 GW (43.4%), Wind 31 GW (9.0%), Gas 17 GW (4.9%), Battery 148 GW (42.1%)
(Excludes capacity associated with projects designated as Inactive per Planning Guide Section 5.7.6)



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, geothermal energy, other miscellaneous fuels reported by developers, and fuel cells that use fuels other than natural gas.

Planning Summary

- ERCOT is tracking 1,812 active generation interconnection requests totaling 351,050 MW as of June 30. This includes 152,433 MW of solar, 31,452 MW of wind, 147,743 MW of battery, and 17,089 MW of gas projects; 96 projects were categorized as inactive, up from 92 inactive projects in May 2024.

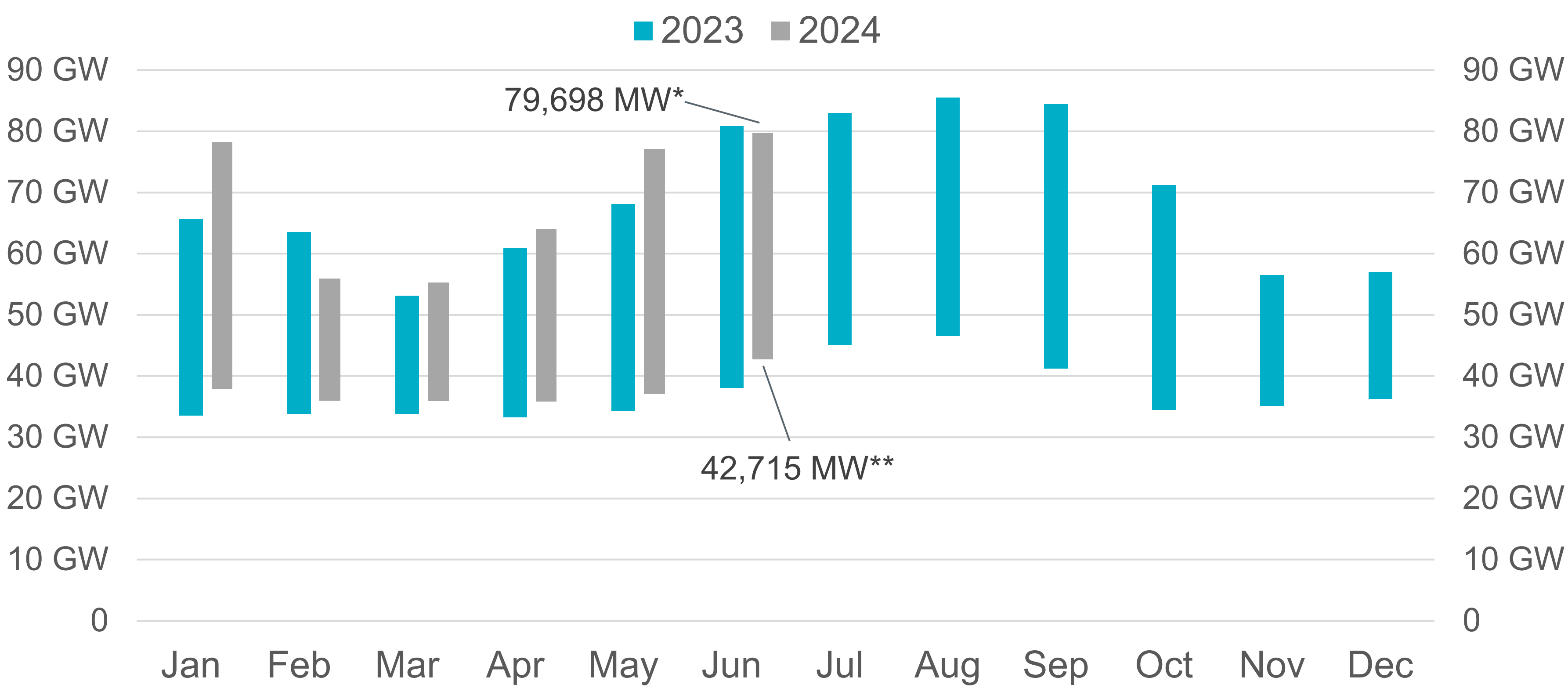
- ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $2.121 billion as of June 30, 2024.

- Transmission Projects endorsed in 2024 total $2.245 billion as of June 30, 2024.

- All projects (in engineering, routing, licensing and construction) total approximately $14.183 billion as of June 1, 2024.

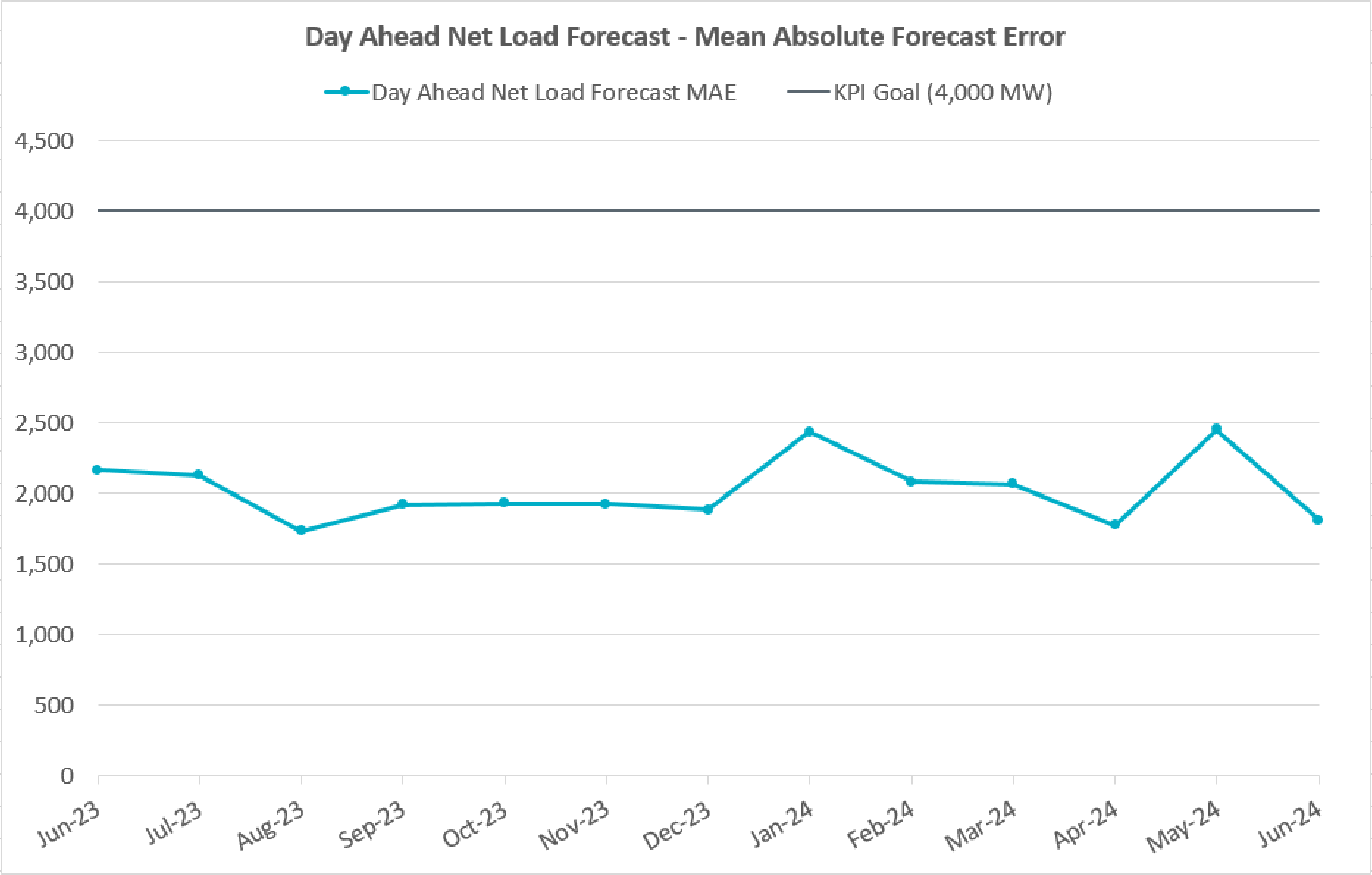
- Transmission Projects energized in 2024 total approximately $2.160 billion as of June 1, 2024.

ERCOT's maximum peak demand for the month of June was 79,698 MW*; this is 1,128 MW less than the June 2023 demand of 80,826 MW.

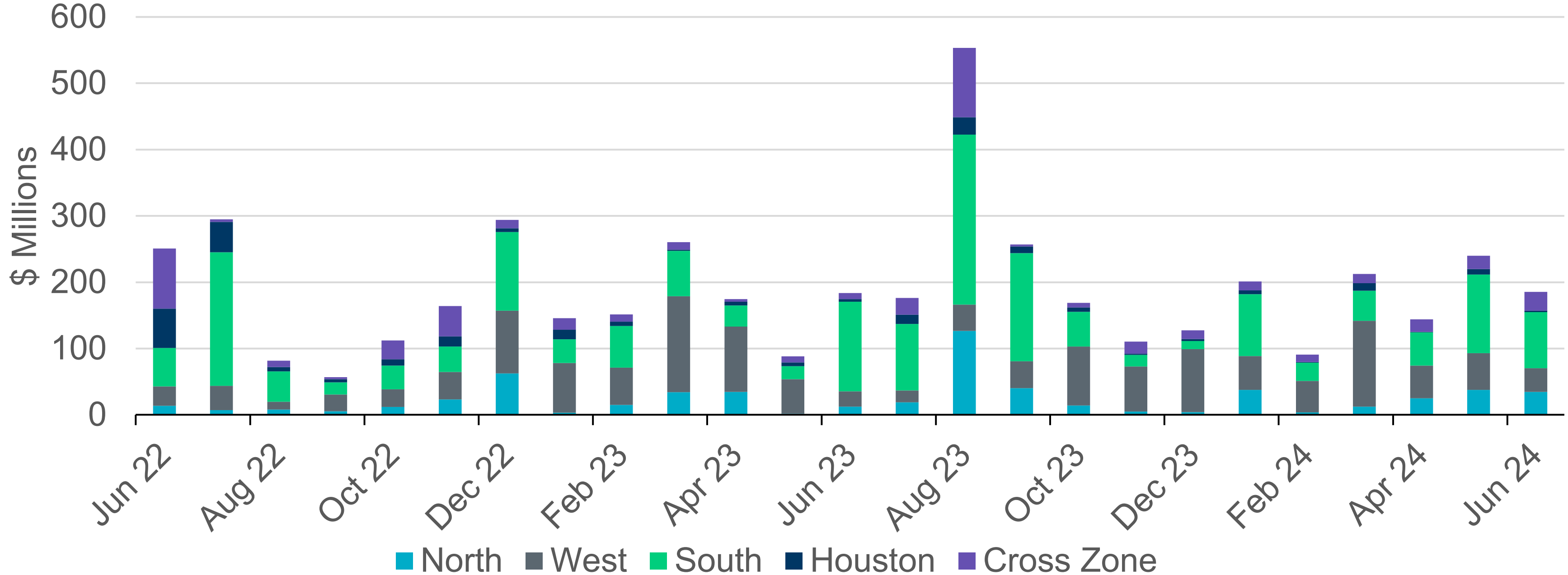


*Based on the maximum net system hourly value from the June 2024 Demand and Energy report.
**Based on the minimum net system 15-minute interval value from the June 2024 Demand and Energy report.
Data for latest two months are based on preliminary settlements.

Net Load Forecast Performance



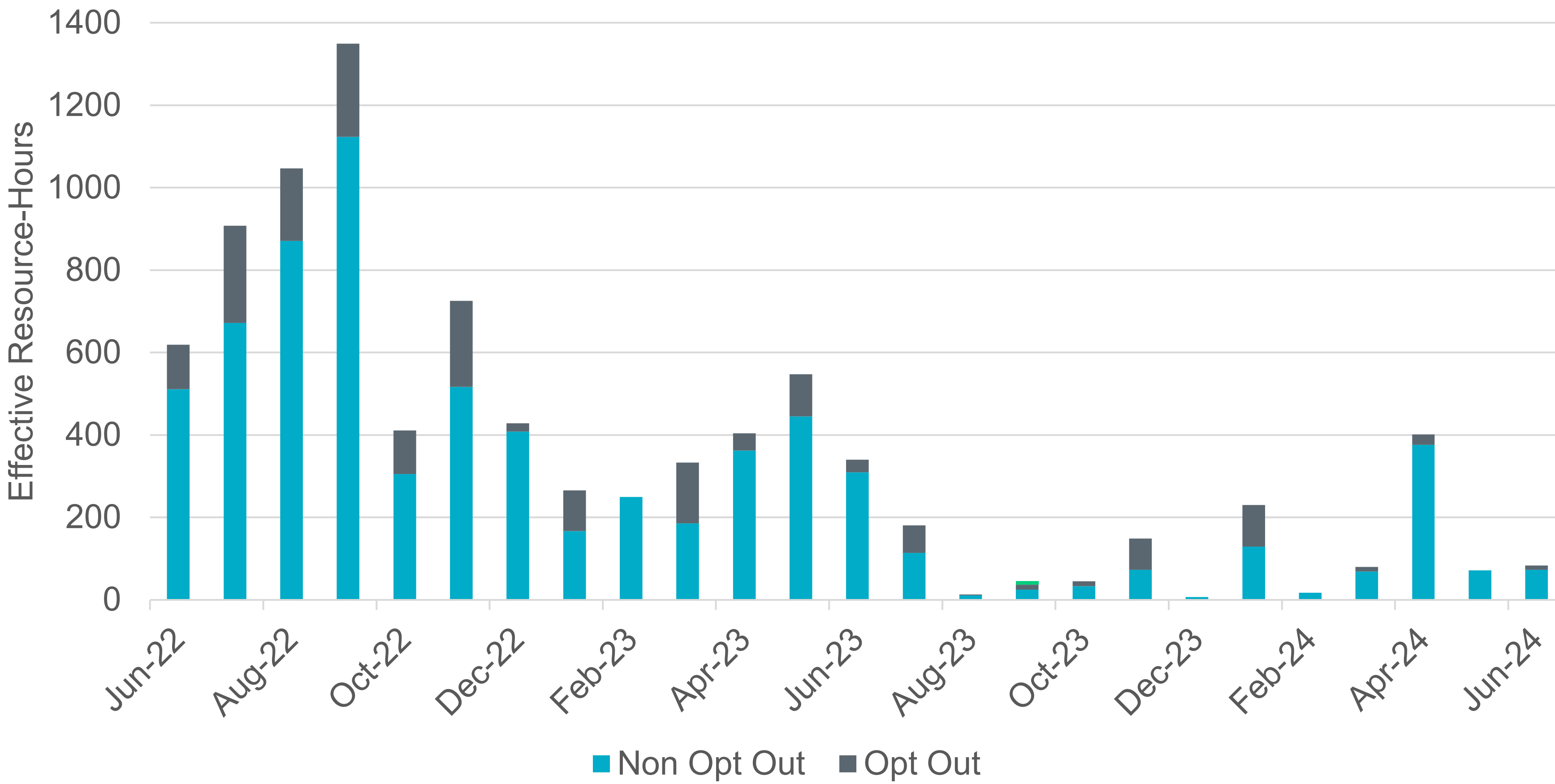
Real-Time Congestion Rent by Zone



- Congestion rent is determined using the shadow prices and MW flows for individual constraints in SCED as well as the duration of congested SCED intervals.
- In June, total Real-Time congestion rent decreased compared to May, with the highest congestion rent observed in the West and South Zones.
  - South Zone congestion rent was primarily driven by the loss of the South Valley manual contingency overloading the 138 kV transmission line from Burns to Rio Hondo.
  - West Zone congestion rent was primarily driven by the loss of the 345 kV contingency from Longshore Switch to Morgan Creek and Consavvy Switch overloading the 138 kV transmission line from Morgan Creek to Navigation.

Note: The “Cross Zone” category consists of cases in which the substations on either end of the constraint are in different zones.

Eight Resources were Committed in June for Capacity and Congestion

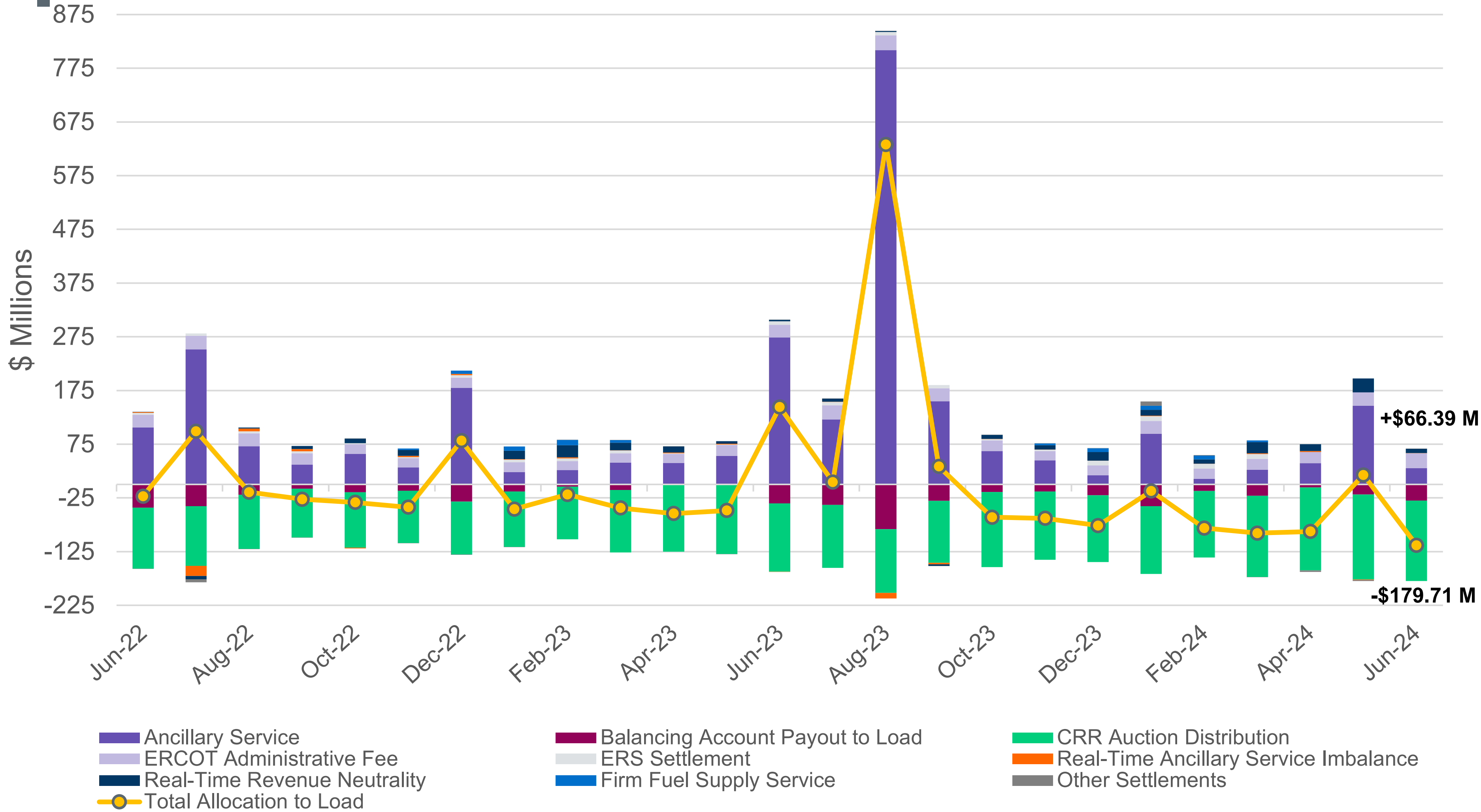


"Effective Resource-Hours" excludes any period during a Reliability Unit Commitment hour when the RUC-committed Resource was starting up, shutting down, off-line, or otherwise not available for dispatch by SCED.

Eight Resources were Committed in June for Capacity and Congestion

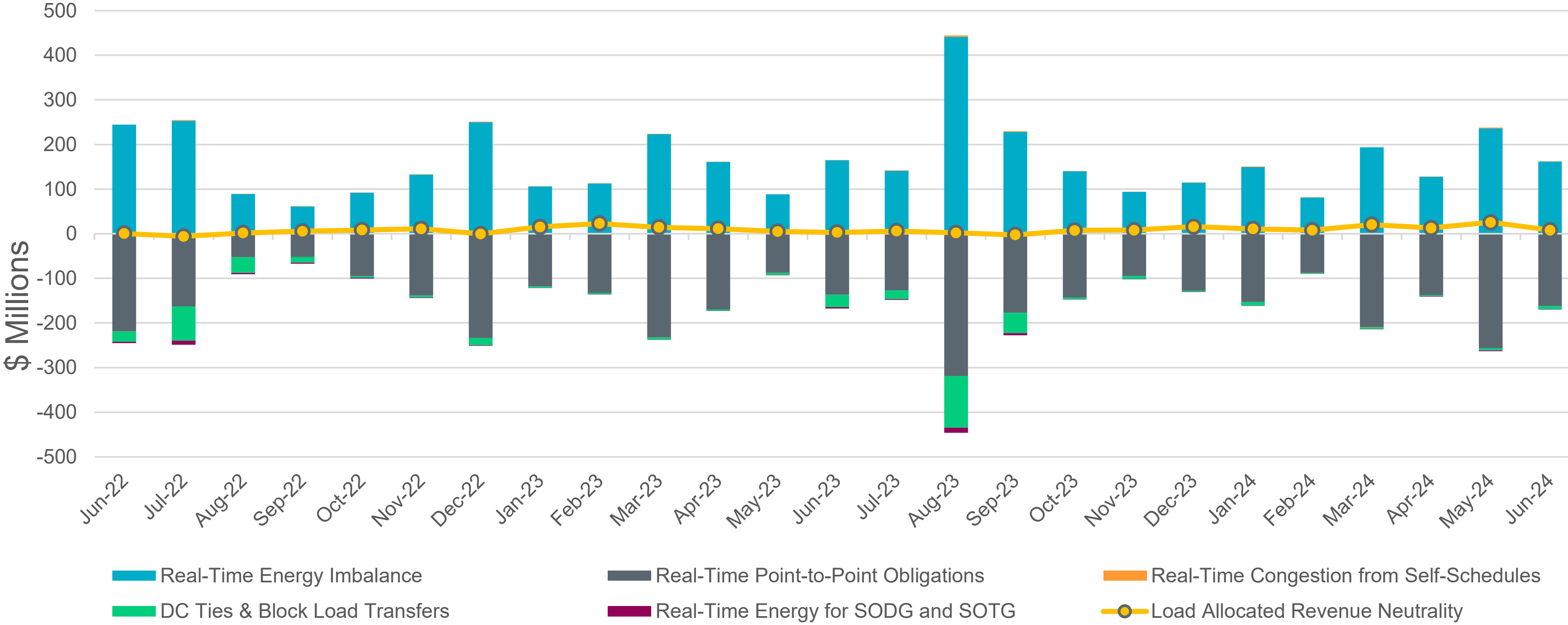
Resource #	Effective Resource-hours	Non-Opt Out (Effective Hours)	Opt Out (Effective Hours)
1	19.7	8.7	11.0
2	41.0	41.0	0.0
3	2.0	2.0	0.0
4	3.0	3.0	0.0
5	3.0	3.0	0.0
6	6.0	6.0	0.0
7	4.9	4.9	0.0
8	3.9	3.9	0.0
SUM	**83.5**	**72.5**	**11.0**

Net Allocation to Load in June 2024 was ($113.31) Million



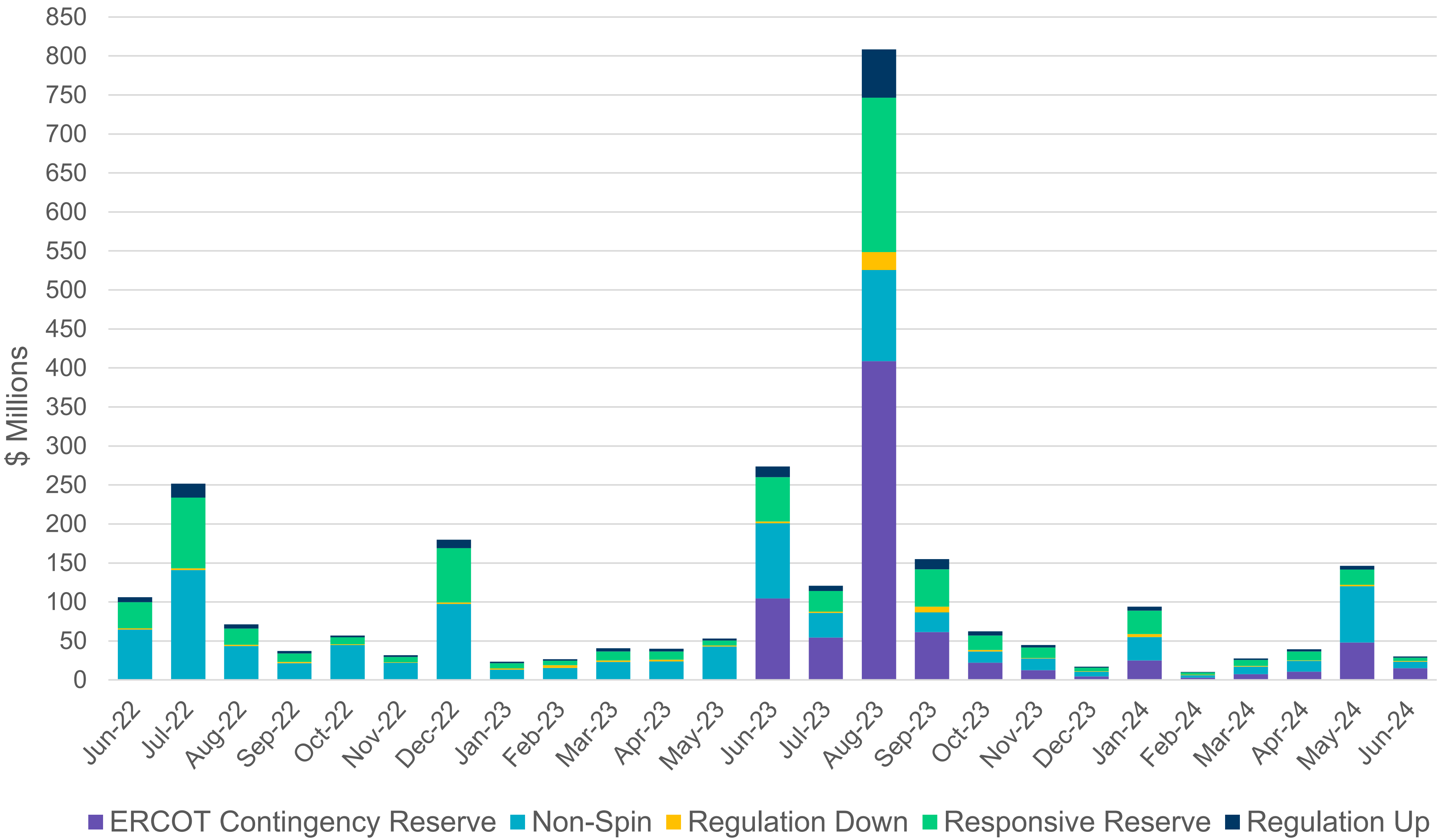
This information is available in tabular form in the Settlement Stability Report presented quarterly to the [Wholesale Market Subcommittee]

Real-Time Revenue Neutrality Allocated to Load was $7.93M for June 2024

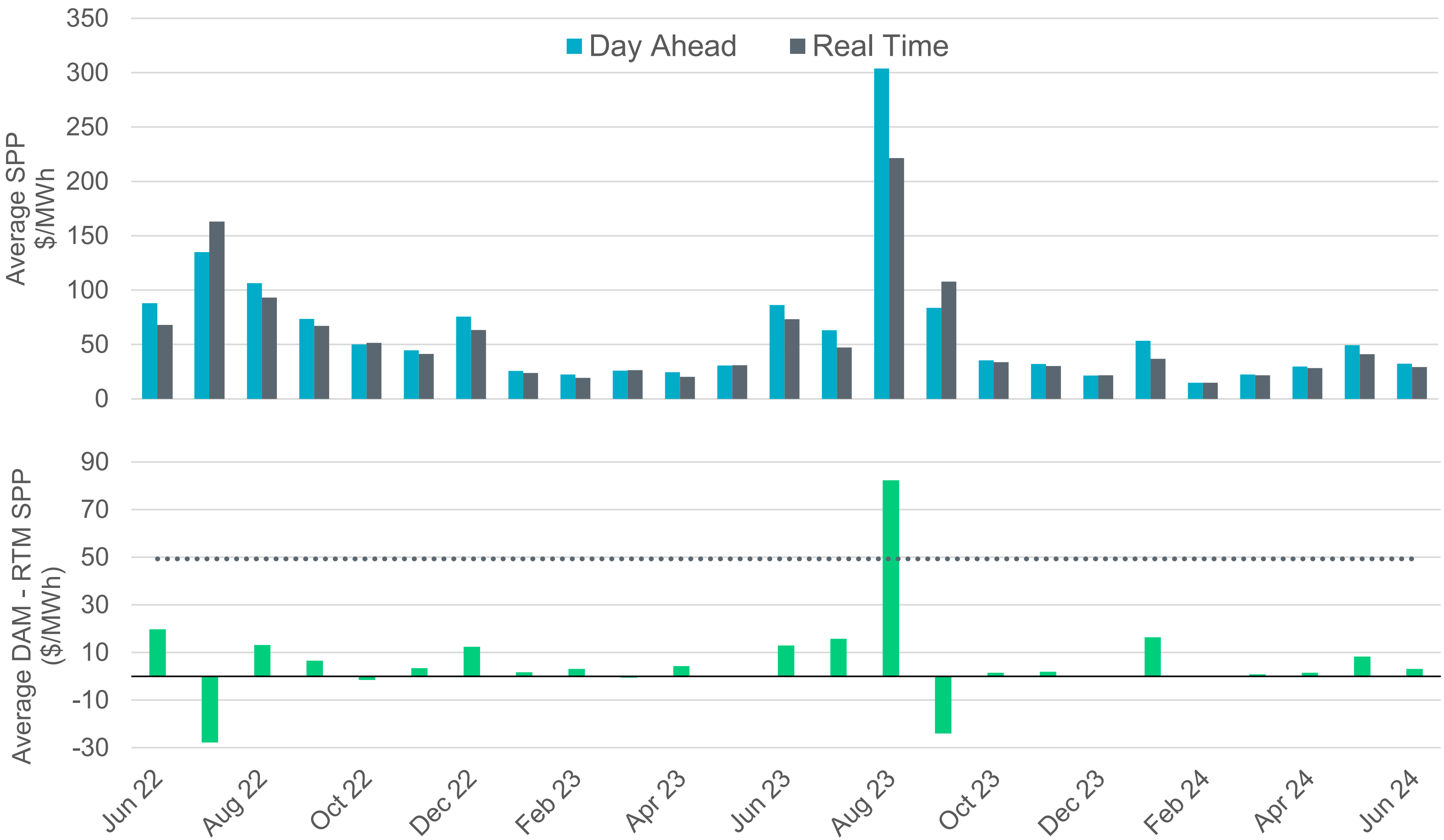


	June 2024 ($M)
Real-Time Energy Imbalance	$161.77
Real-Time Point-to-Point Obligation	($161.99)
Real-Time Congestion from Self-Schedules	$0.64
DC Tie & Block Load Transfer	($7.36)
Real-Time Energy for SODG and SOTG	($1.00)
Load Allocated Revenue Neutrality	**$7.93**

Ancillary Services for June 2024 totaled $30.07M

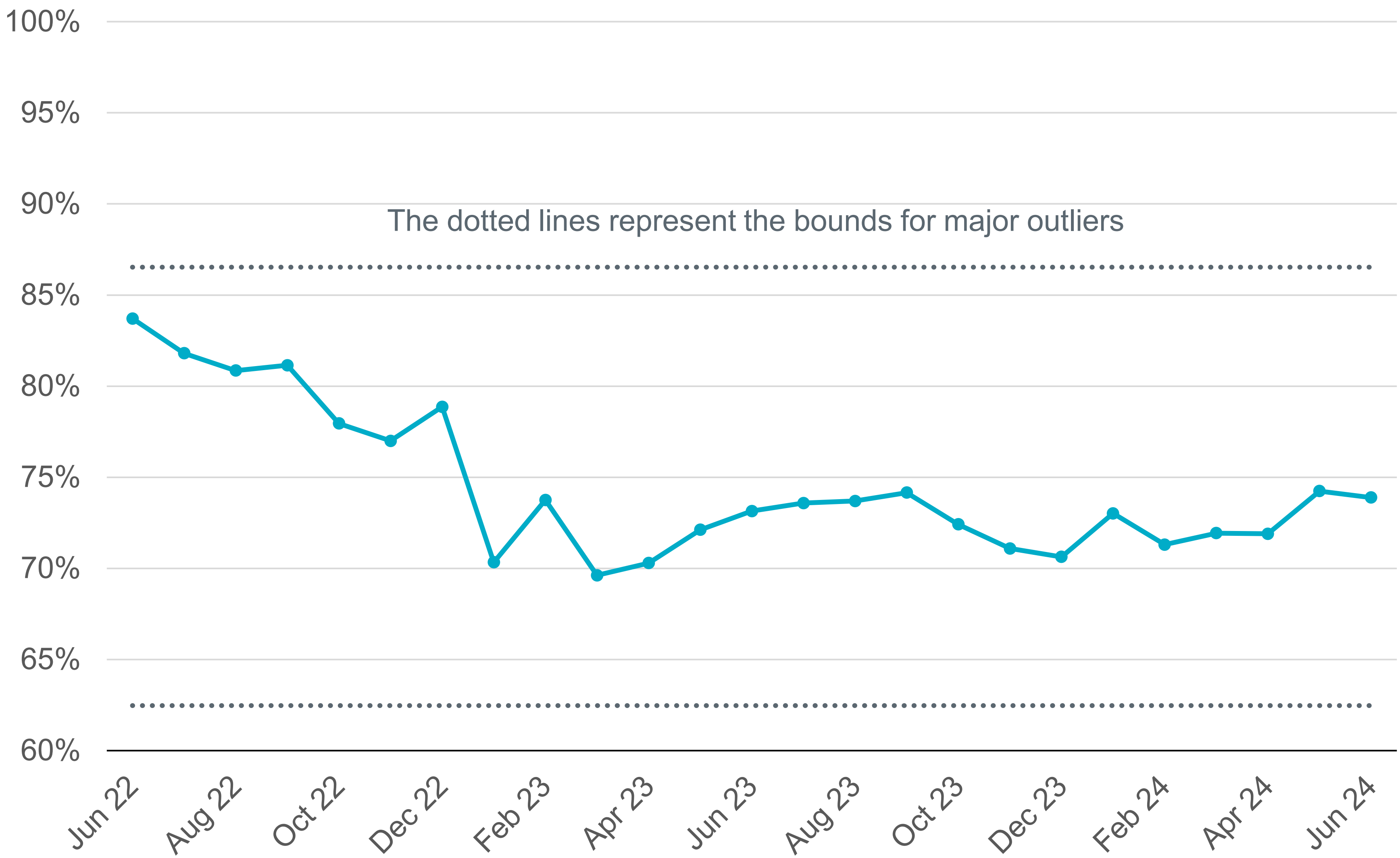


Day-Ahead and Real-Time Market Price Differences

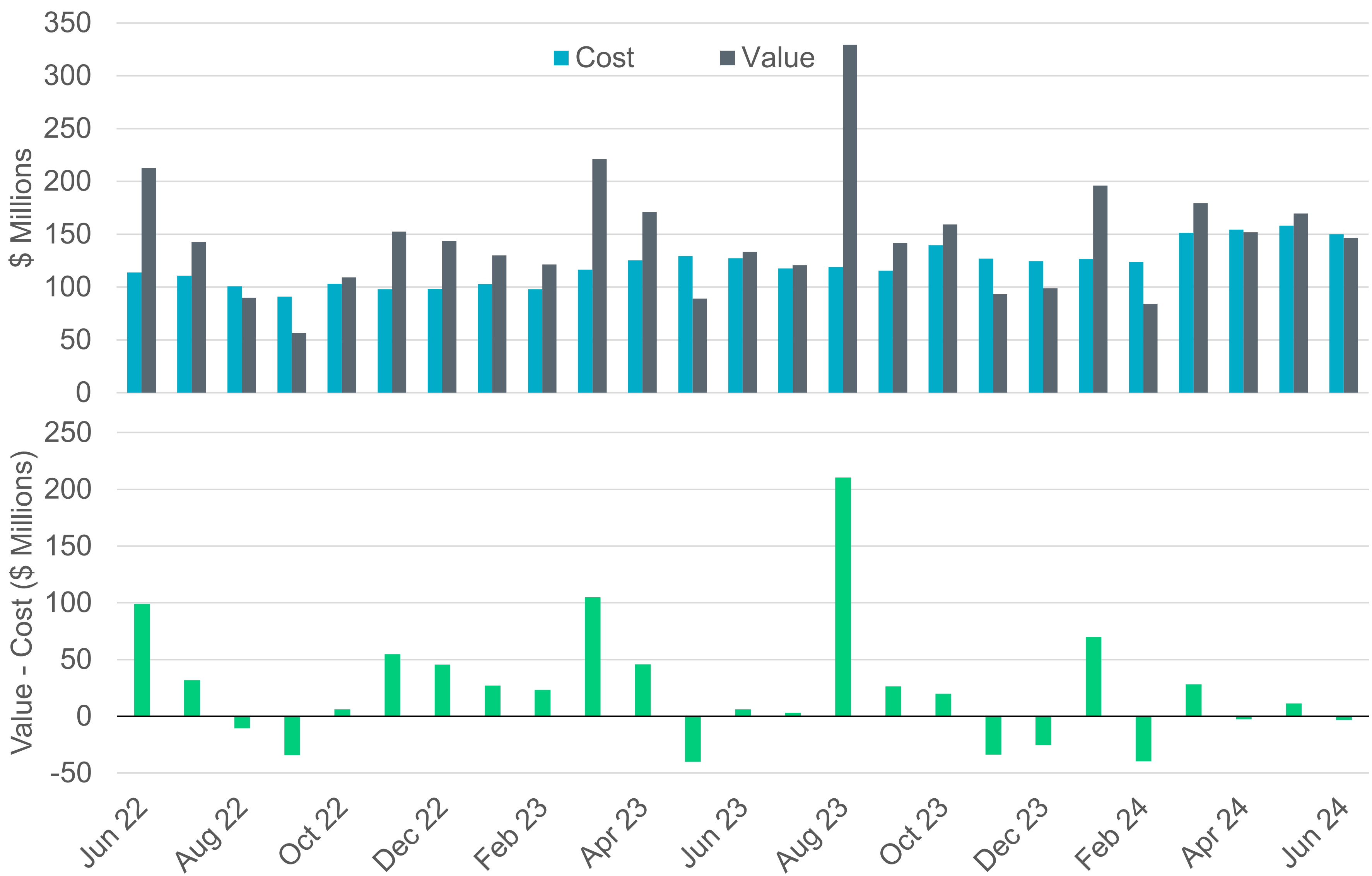


*Averages are weighted by Real-Time Market Load

Percentage of Real-Time Load Transacted in the Day-Ahead Market



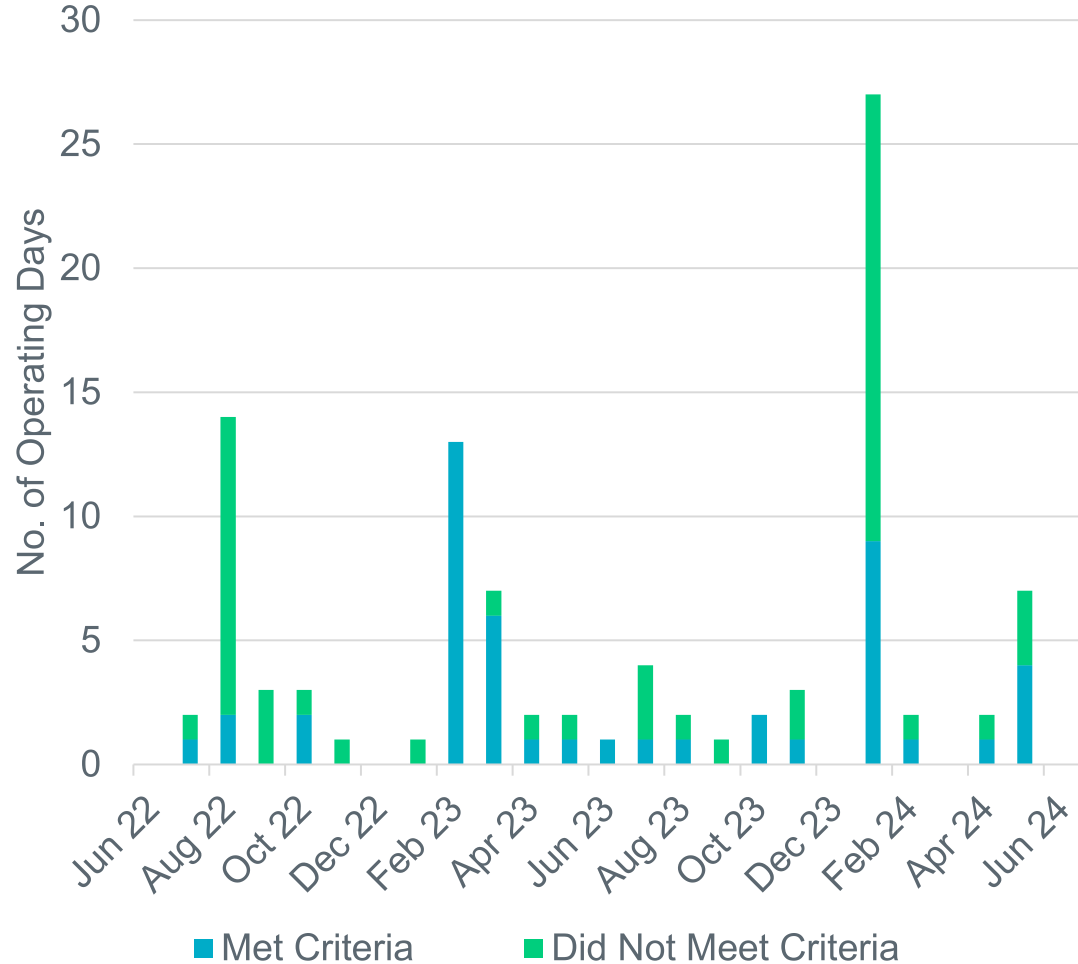
CRR Value and Cost Differences



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:

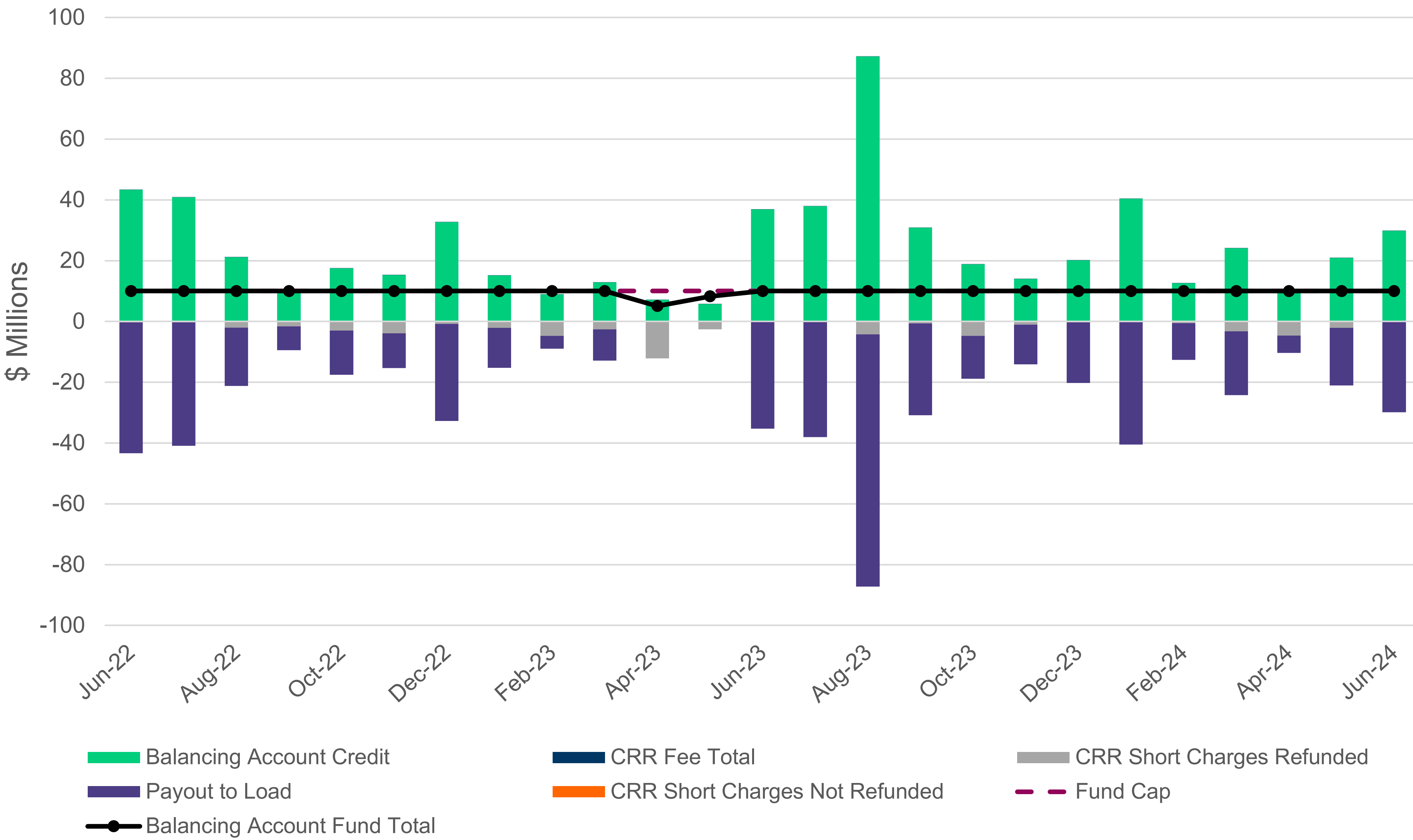
- Days that met the criteria for “significance” under NPRR1024 and were corrected; and
- Days that were not corrected because they did not meet the criteria for “significance” under NPRR1024.



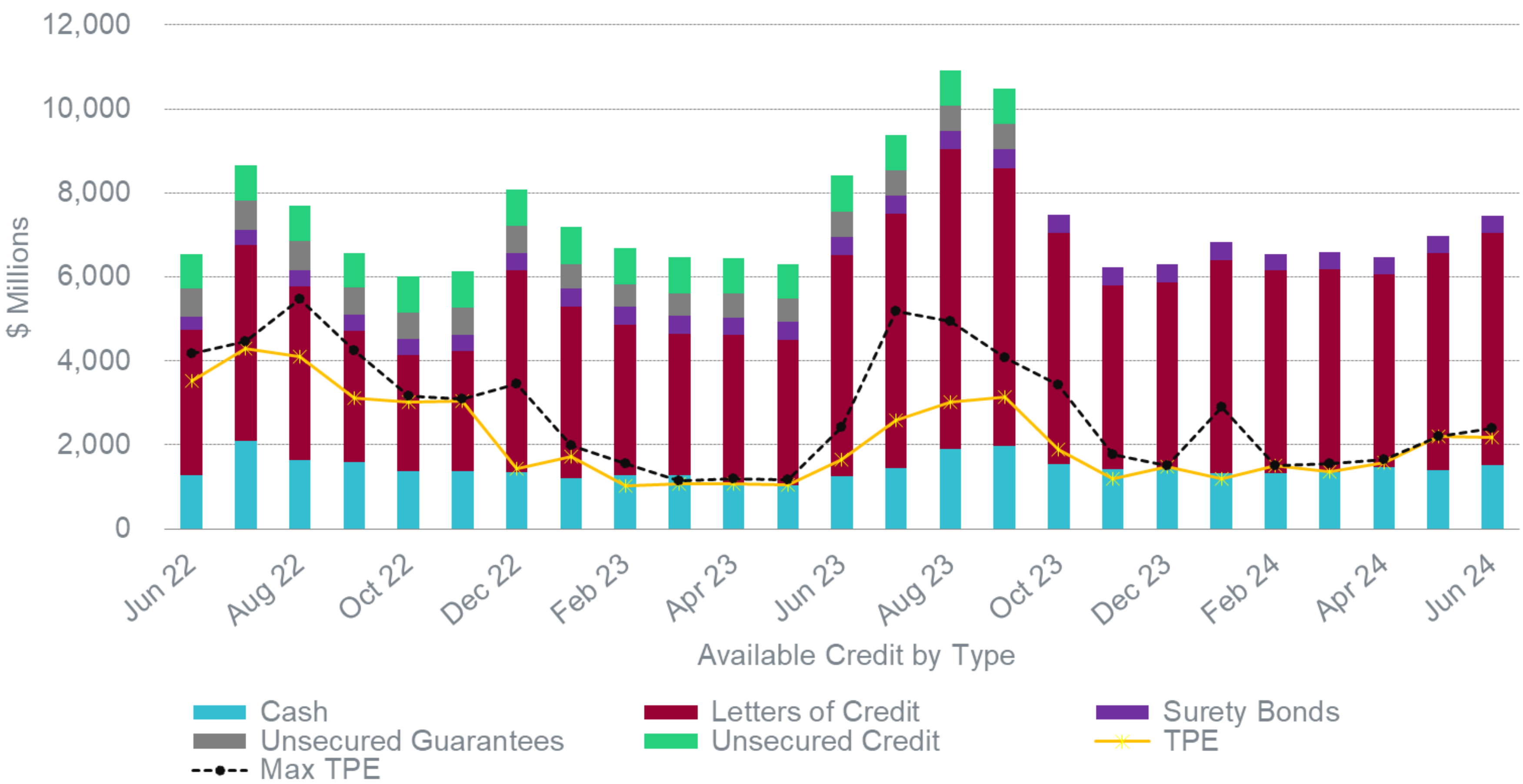
Details for June Price Corrections Review

There were no price impact events for the month of June.

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



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 2024

	Year-To-Date		Transactions Received	
Transaction Type	**June 2024**	**June 2023**	**June 2024**	**June 2023**
Switches	647,947	573,520	106,772	98,957
Acquisitions	0	0	0	0
Move - Ins	1,609,081	1,552,659	255,906	273,254
Move - Outs	705,956	694,257	126,702	126,867
Continuous Service Agreements (CSA)	213,754	253,202	52,149	59,879
Mass Transitions	0	0	0	0
Total	**3,176,738**	**3,073,638**	**541,529**	**558,957**