

PUBLIC



# **ERCOT Monthly Operational Overview**

**(July 2026)**

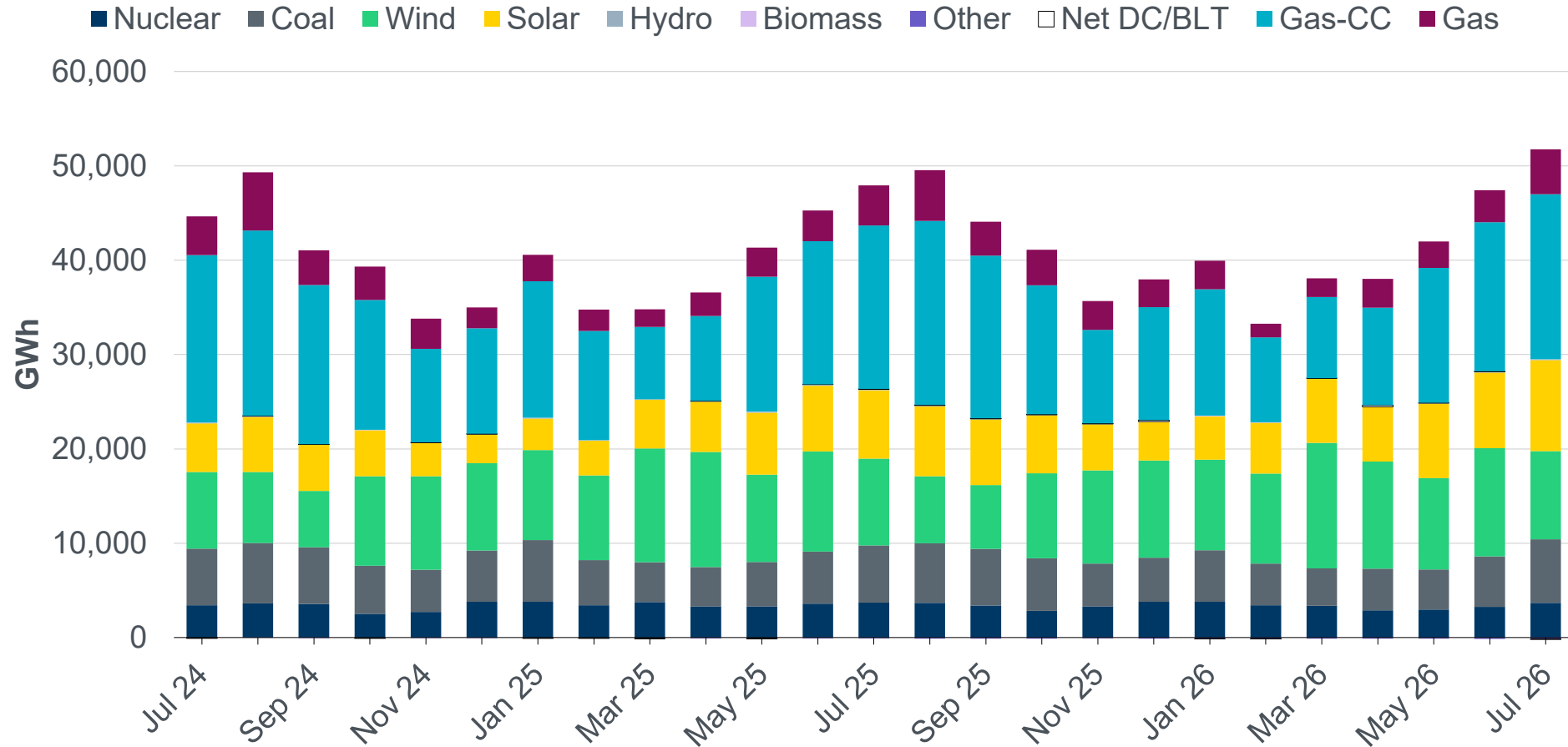
ERCOT Public  
August 17, 2026

## Highlights, Records and Notifications

- ERCOT set a new unofficial all-time peak demand record of 91,134 MW\* at hour ending 18 on 7/22/2026; This is 9,400 MW more than the July 2025 demand of 81,734 MW on 7/30/2025 and 5,581 MW more than the previous all-time peak demand record of 85,508 MW set on 8/10/2023.
- ERCOT issued 2 notifications:
  - 1 Advisory – On 7/4/26 at 0:40, ERCOT issued an Advisory for a geomagnetic disturbance of K7 until 0100 on 07/05/26.
  - 1 Watch – On 7/9/26 at 16:50, ERCOT issued a Watch due to HRUC not completing for HE18 due to timeline deviation.

\* Preliminary value from August Demand and Energy 2026 report.

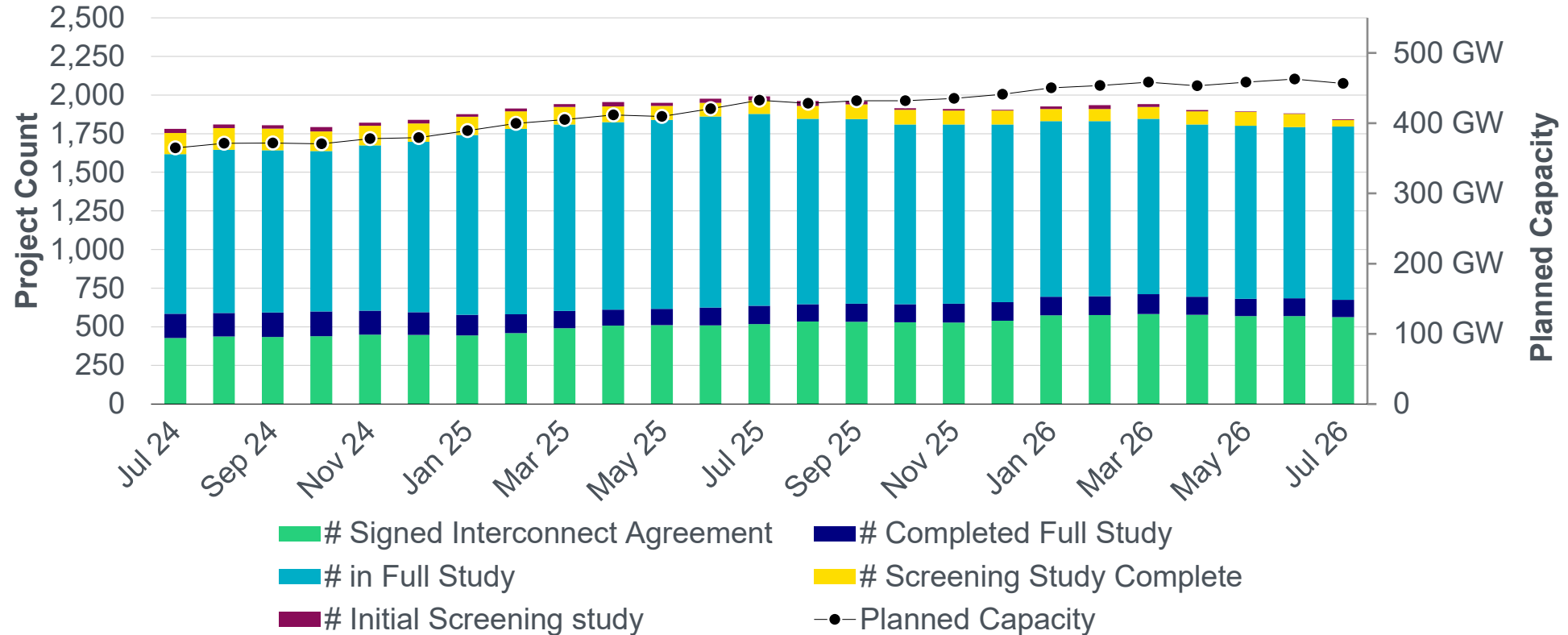
# Monthly energy generation increased by 7.7% year-over-year to 51,550 GWh in July 2026, compared to 47,846 GWh in July 2025



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)

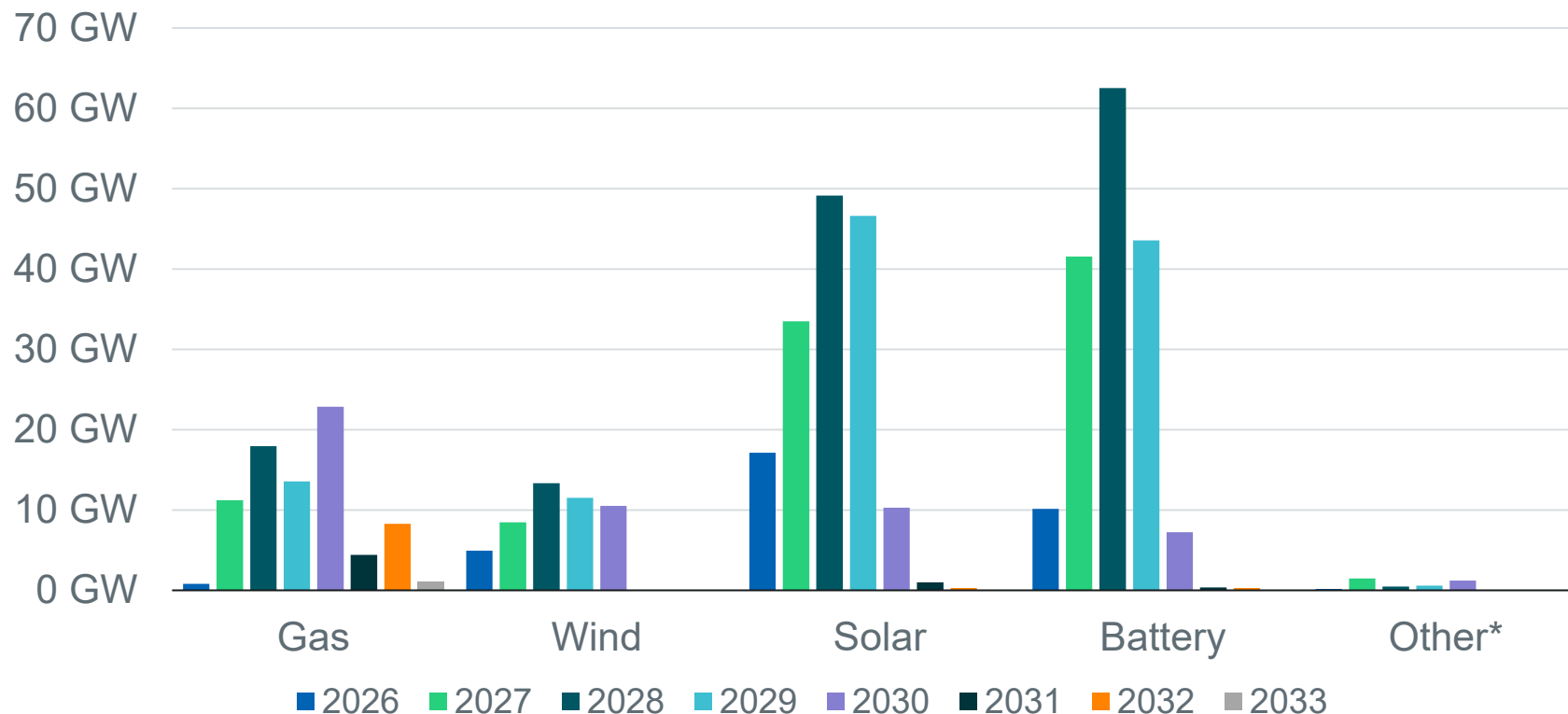


- There are an additional 30 “Small Generator” projects totaling 261 MW that are going through the simplified interconnection process.
- A break-out by fuel type can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page:

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

# Interconnection Queue Capacity by Fuel Type

Totals: Solar 158 GW (34.6%), Wind 49 GW (10.7%), Gas 80 GW (17.6%), Battery 166 GW / 398 GWh (36.3%), Other 4 GW (0.9%)  
(Excludes capacity associated with projects designated as Inactive per Planning Guide Section 5.2.5)



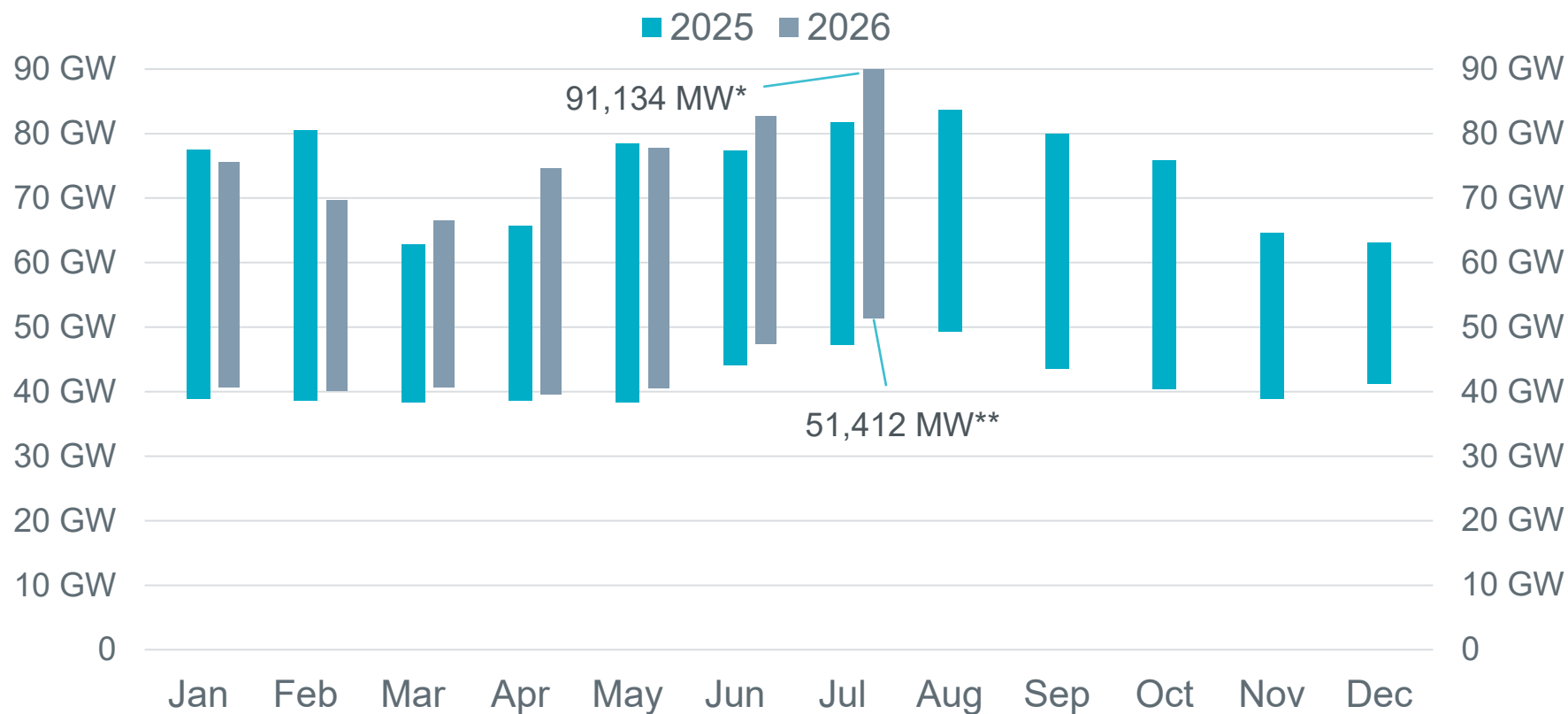
A break-out by zone can be found in the monthly Generator Interconnection Status (GIS) reports available on the ERCOT Resource Adequacy Page: <http://www.ercot.com/gridinfo/resource>

- 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.
- The GWh cited for active planned battery storage projects is an estimate of the aggregate nameplate energy rating based on data provided through Request for Information (RFI) submissions for projects with signed interconnection agreements. Using the RFI data, an average design duration for these projects is calculated and then multiplied by the nameplate capacity for all active projects to derive the total energy rating.

# Planning Summary

- ERCOT is tracking 1,906 active generation interconnection requests totaling 456,578 MW as of July 31. This includes 157,953 MW of solar, 48,782 MW of wind, 165,734 MW of battery, and 80,180 MW of gas projects; 165 projects were categorized as inactive, up from 162 in June.
- ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of \$22.947 billion as of July 31, 2026.
- Transmission Projects endorsed in 2026 total \$12.111 billion as of July 31, 2026.
- All projects (in engineering, routing, licensing and construction) total approximately \$55.536 billion as of July 17, 2026.
- Transmission Projects energized in 2026 total approximately \$595.737 million as of July 17, 2026.
- Transmission Projects planned to energize during the remainder of 2026 total approximately \$6.526 billion as of July 17, 2026.

**ERCOT set a new record of 91,134 MW\* for the month of July on 7/22/2026; This is 9,400 MW more than the July 2025 demand of 81,734 MW on 7/30/2025.**

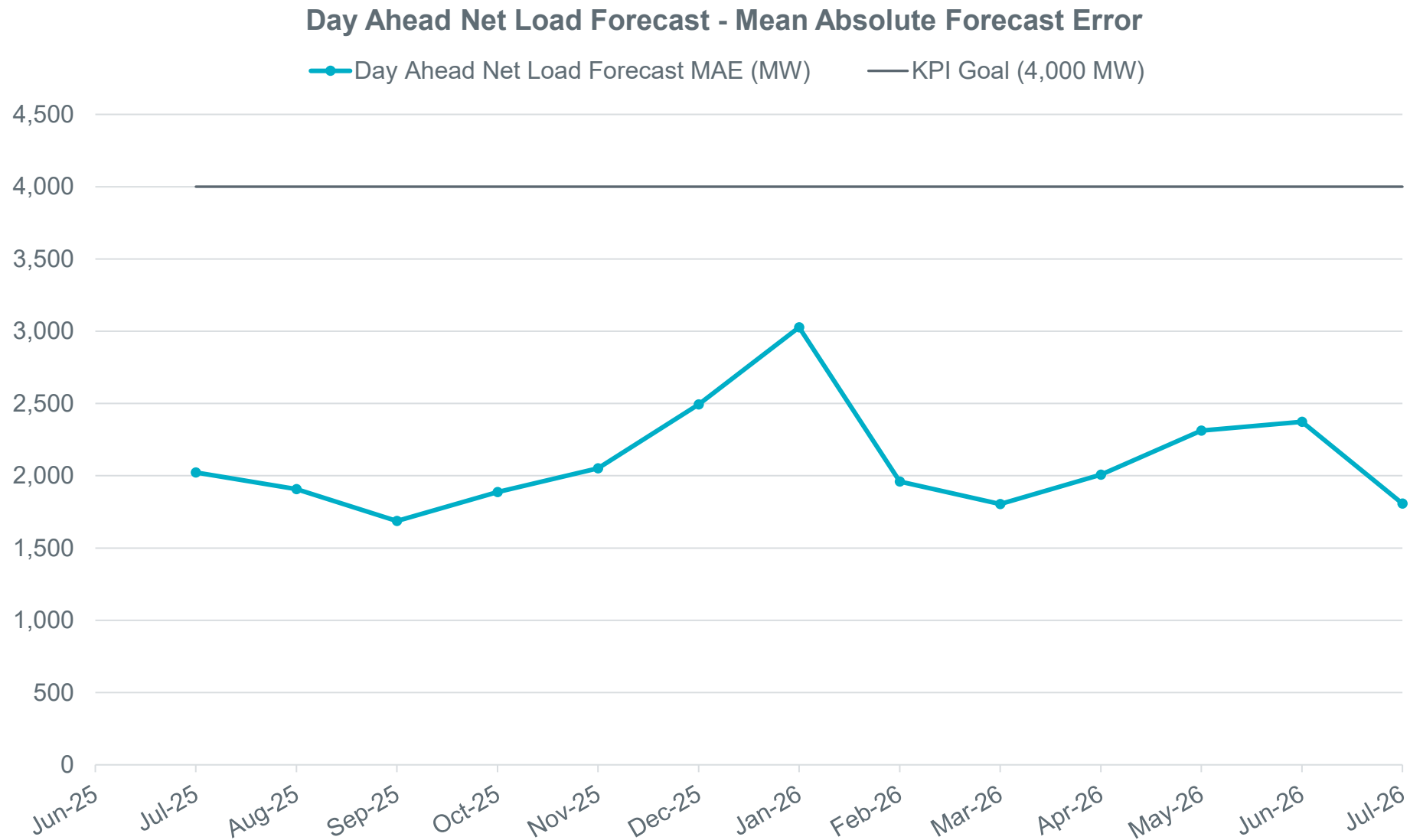


\*Based on the maximum net system hourly value from the July 2026 Demand and Energy report.

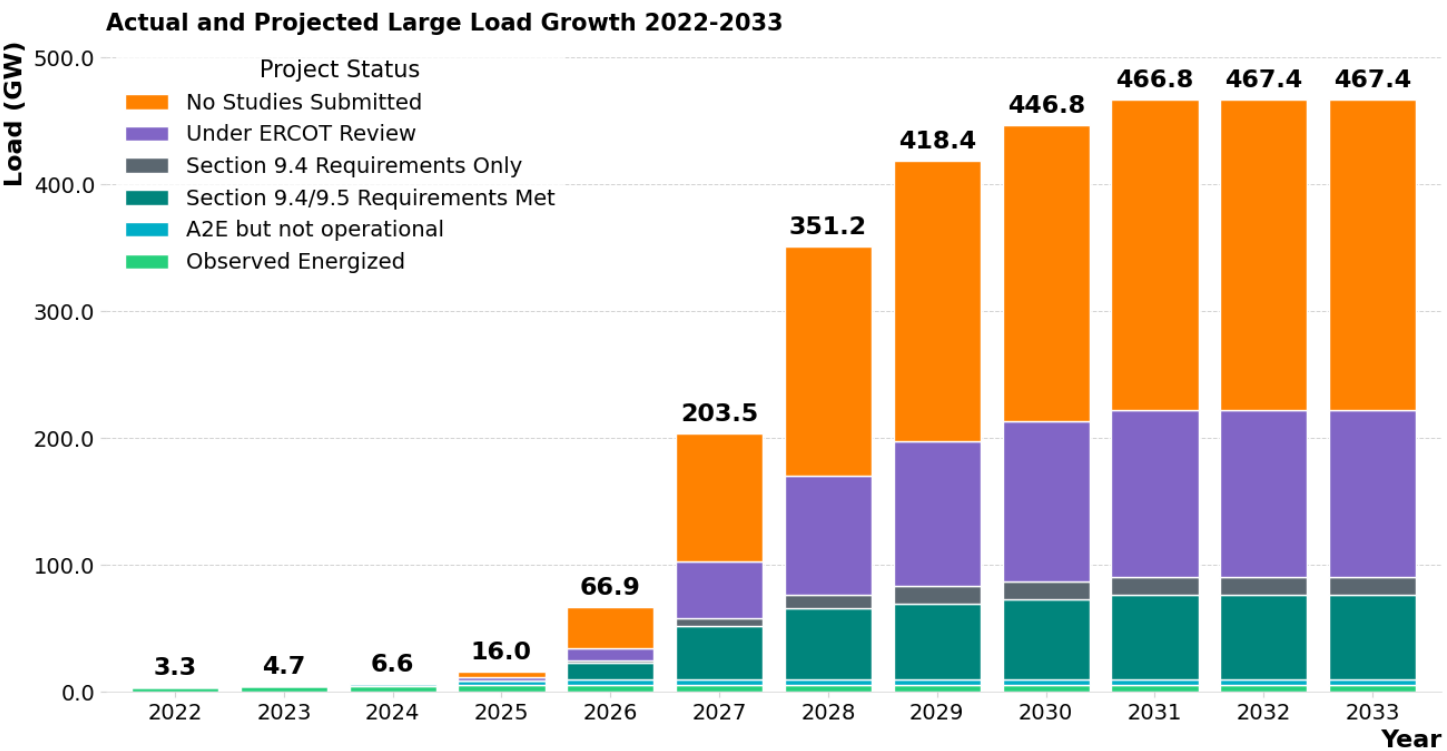
\*\*Based on the minimum net system 15-minute interval value from the July 2026 Demand and Energy report.

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         | 2031         | 2032         | 2033         |
|----------------------------------|------------|------------|------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| No Studies Submitted             | 0.0        | 0.0        | 0.0        | 4.1         | 32.3        | 101.0        | 180.6        | 221.1        | 233.1        | 244.6        | 244.9        | 244.9        |
| Under ERCOT Review               | 0.0        | 0.0        | 0.0        | 3.0         | 9.9         | 44.5         | 94.0         | 114.1        | 126.5        | 132.0        | 132.0        | 132.0        |
| Section 9.4 Requirements Only    | 0.0        | 0.0        | 0.0        | 0.0         | 1.7         | 6.6          | 10.9         | 13.4         | 13.8         | 13.8         | 13.8         | 13.8         |
| Section 9.4/9.5 Requirements Met | 0.0        | 0.0        | 0.0        | 0.0         | 13.6        | 42.0         | 56.2         | 60.3         | 63.8         | 66.8         | 67.2         | 67.2         |
| A2E but not operational          | 0.0        | 0.4        | 1.8        | 3.2         | 3.7         | 3.7          | 3.7          | 3.7          | 3.7          | 3.7          | 3.7          | 3.7          |
| Observed Energized               | 3.3        | 4.3        | 4.8        | 5.7         | 5.7         | 5.7          | 5.7          | 5.7          | 5.7          | 5.7          | 5.7          | 5.7          |
| <b>Total (GW)</b>                | <b>3.3</b> | <b>4.7</b> | <b>6.6</b> | <b>16.0</b> | <b>66.9</b> | <b>203.5</b> | <b>351.2</b> | <b>418.4</b> | <b>446.8</b> | <b>466.8</b> | <b>467.4</b> | <b>467.4</b> |

**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.

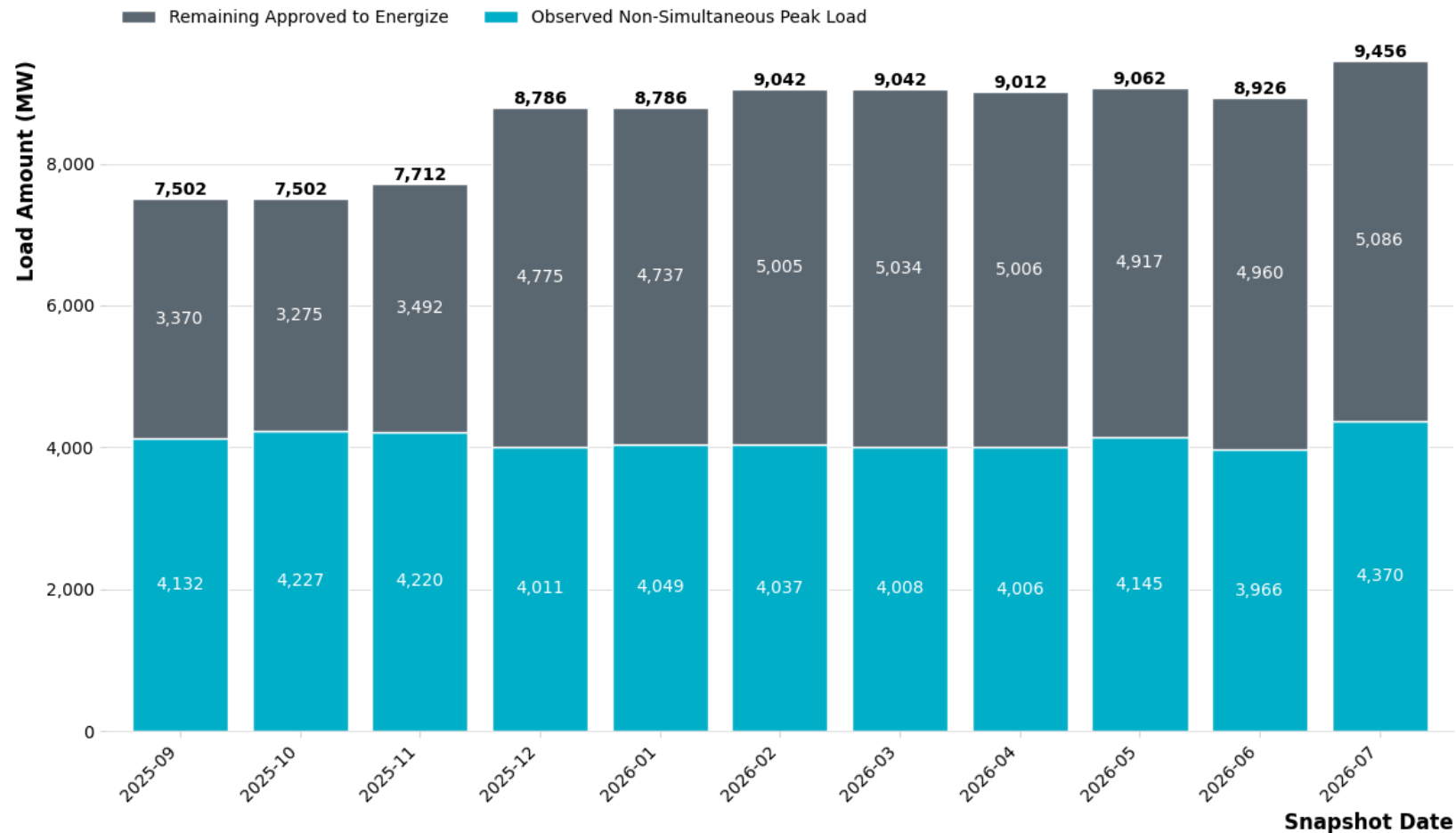
**Planning Studies Approved** – Projects that have received ERCOT approval of required interconnection studies. Any GWs that were not approved are reclassified as No Studies Submitted.

**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, GWs that were not approved by ERCOT after review of planning studies are included in this category until a path to interconnect these GWs is identified, or the customer cancels the interconnection request.

# Loads Approved to Energize - Observations

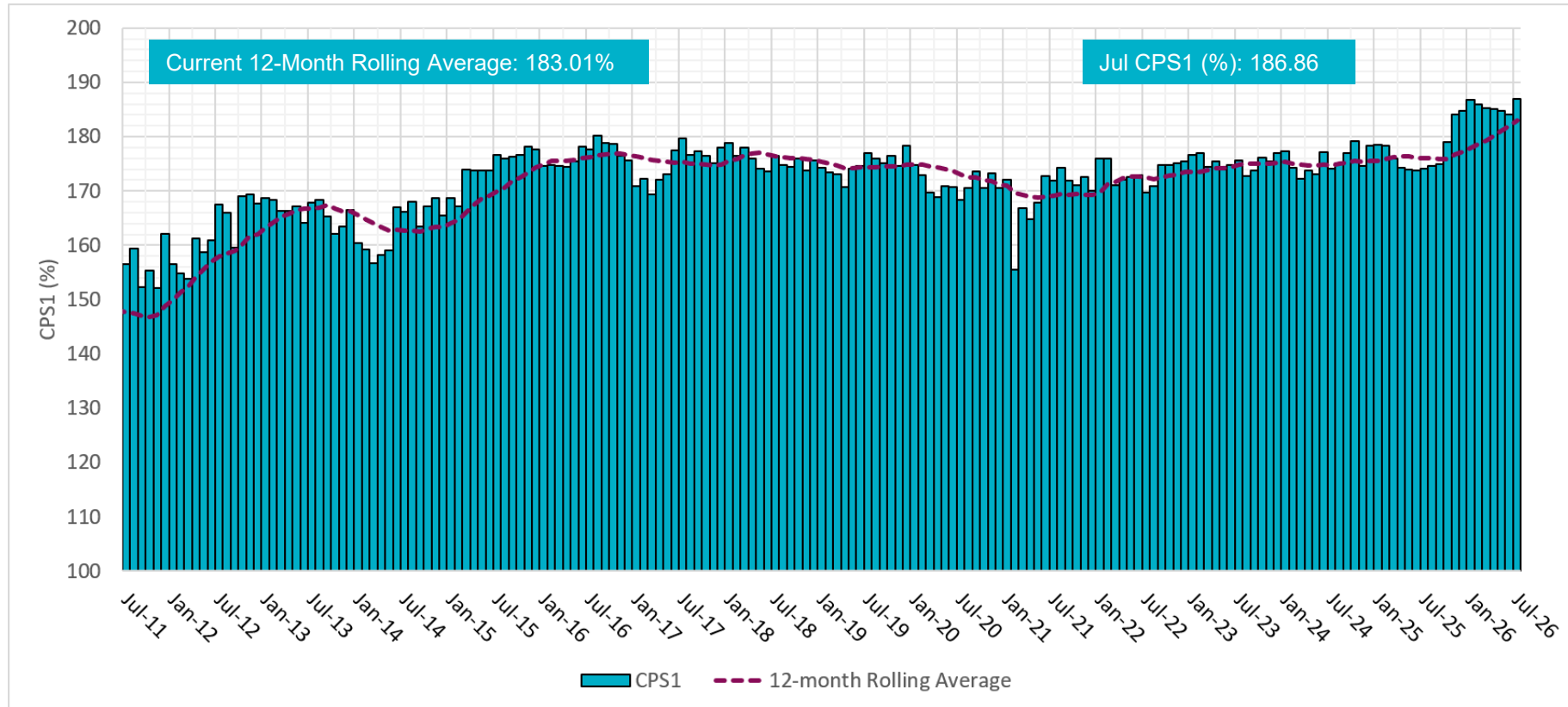
- Of the 9,456 MW that have received Approval to Energize, ERCOT has observed a non-simultaneous monthly peak consumption of 4,370 MW in July 2026, which is a slight increase since June 2026.
  - This is calculated as the sum of the maximum value for each individual load per month.
  - This value represents how much approved load ERCOT believes is now operational.



# Frequency Control

- Control Performance Standard 1 (CPS-1) is a measure of the frequency control on a power system, pursuant to NERC Standard BAL-001. The 12-month rolling-average of this measure is required to stay above 100%.

12 Month Rolling Average CPS1 KPI  
Target > 140 % | Stretch > 150%



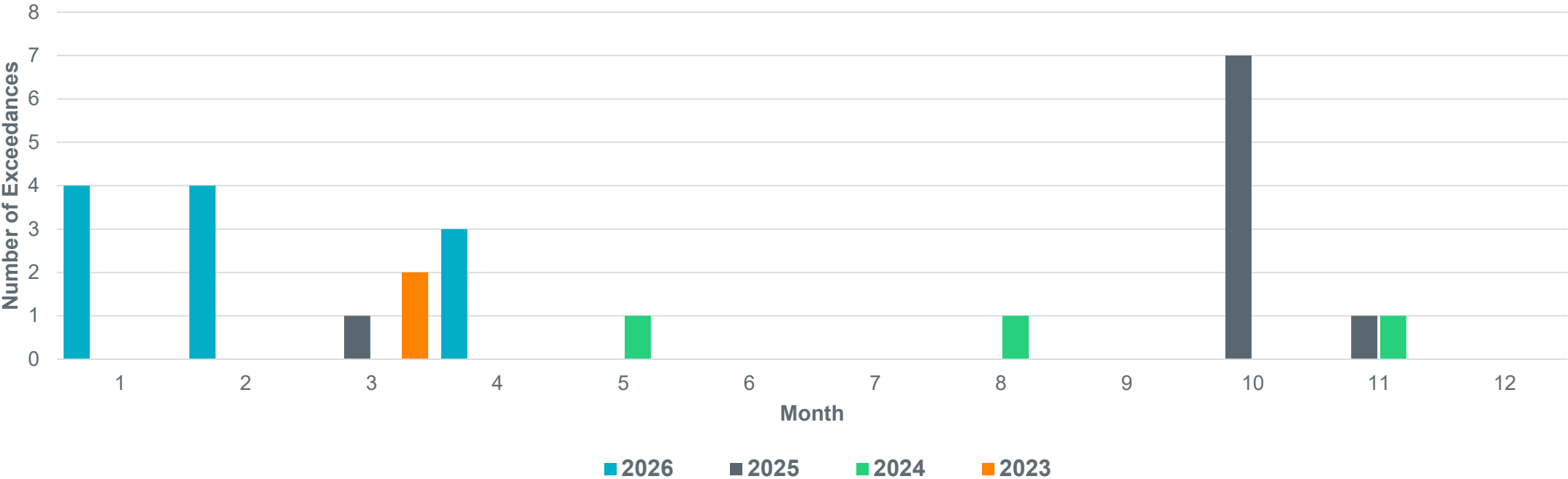
**Key Takeaway(s):** Frequency control has been performing extremely well

# Transmission Limit Control

The most-recent Interconnection Reliability Operating Limit (IROL) exceedance occurred in April 2026.

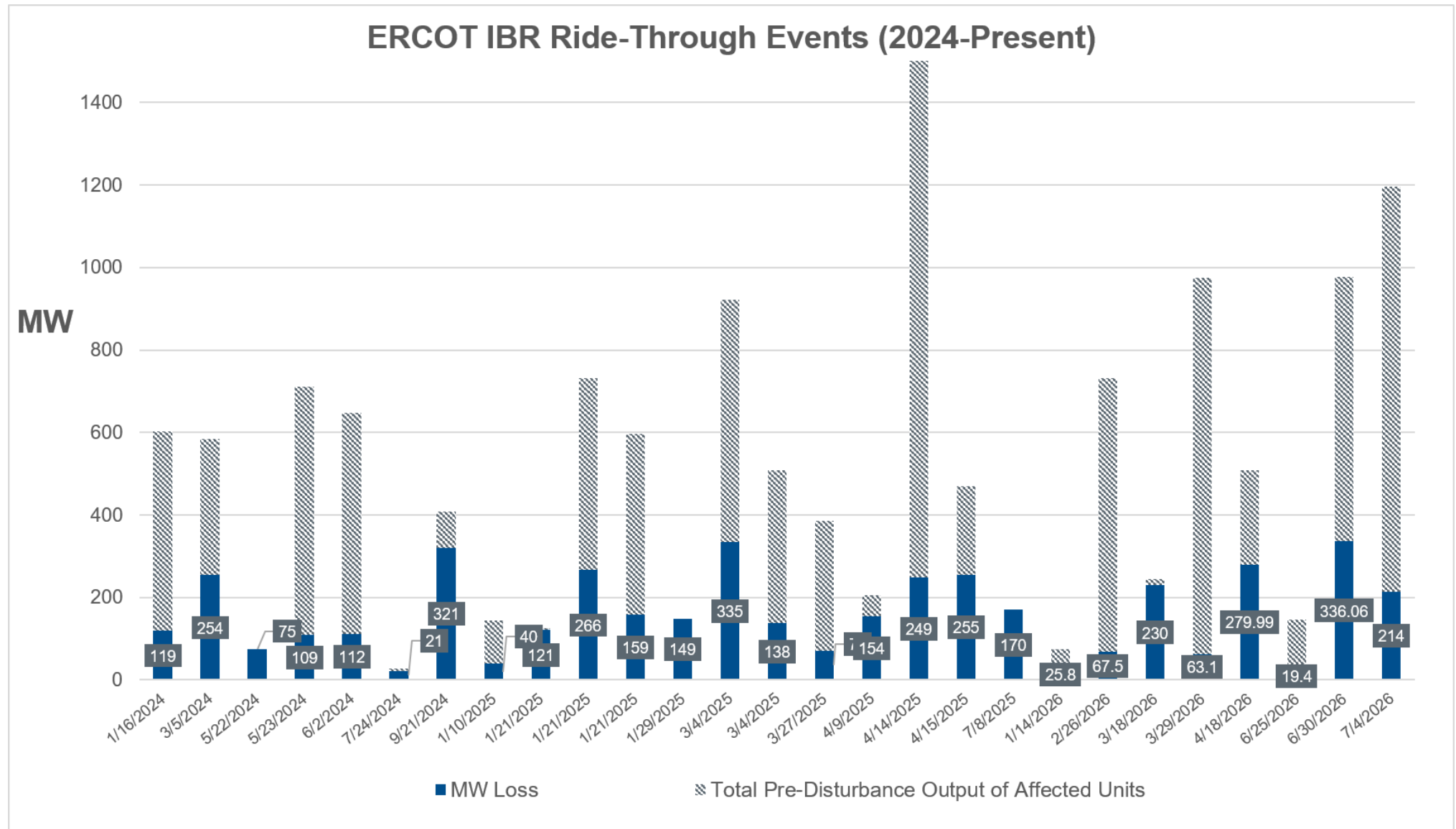
## Monthly IROL Exceedances (Jan 2023 to July 2026)

All exceedances had the duration between 10 second and 10 minutes.  
There were no exceedances which lasted for more than 10 minutes.

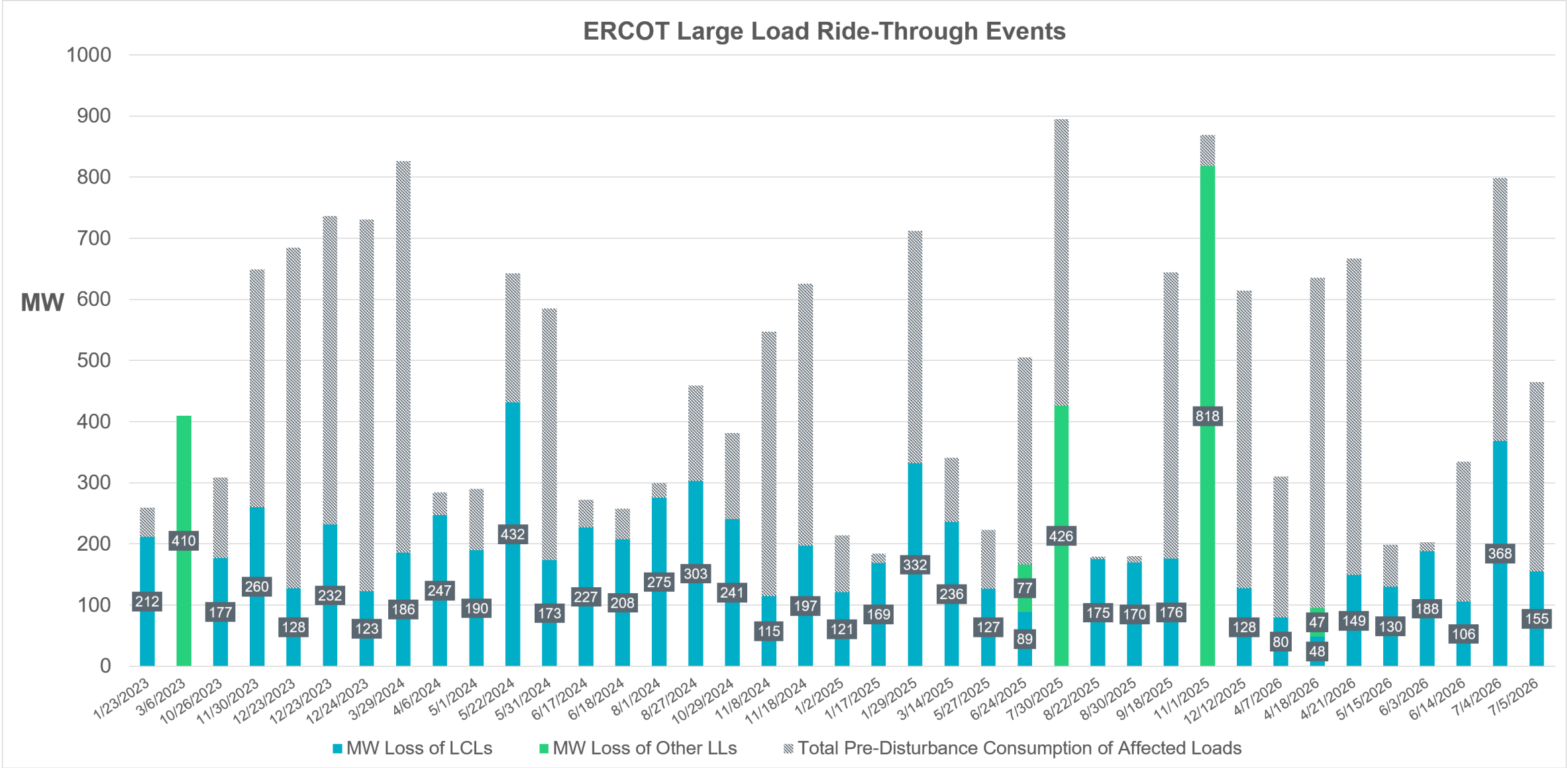


**Key Takeaway:** In July, ERCOT had 0 IROL exceedances occur.

# IBR Ride-Through Events



# Large Load Ride-Through Events



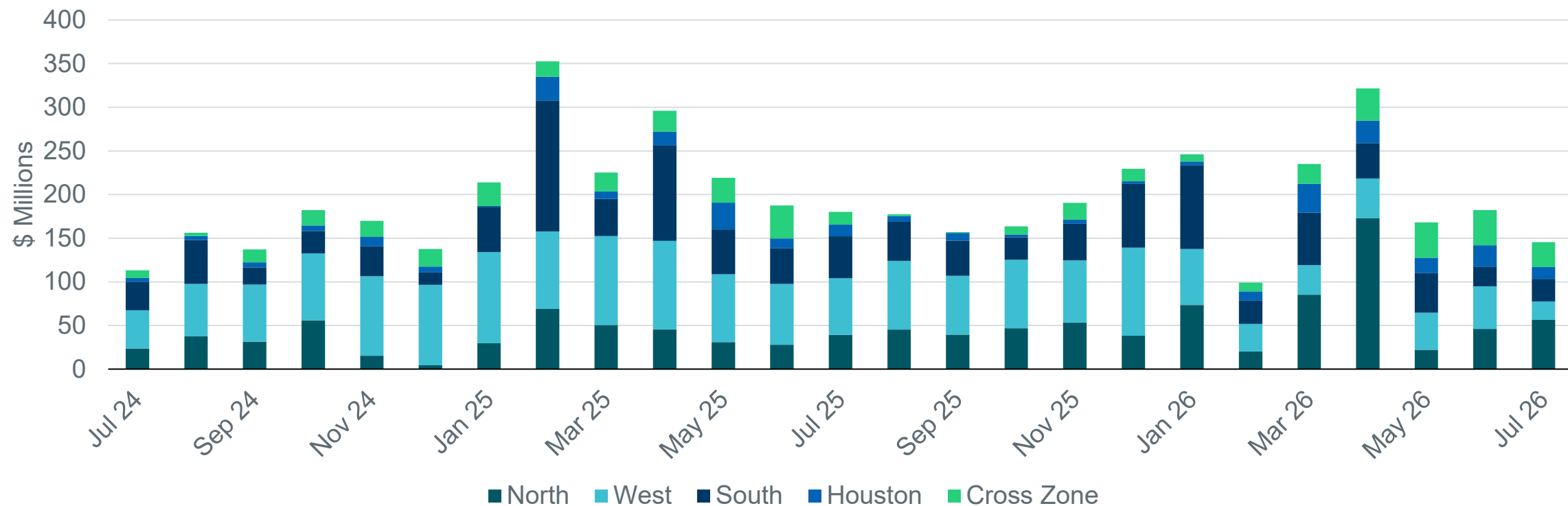
# 2026 Year-to-Date (YTD) Event Analysis Summary

| Event Type                                        | Number of Events<br>(All 2026) | Number of Events<br>(July 2026) |
|---------------------------------------------------|--------------------------------|---------------------------------|
| NERC Reportable by ERCOT*                         | 1                              | 0                               |
| Inverter Based Resource (IBR) Ride-Through Events | 8                              | 1                               |
| Large Load Ride-Through Events                    | 8                              | 2                               |
| Large Load Oscillation Events                     | 0                              | 0                               |
| IBR Oscillation Events                            | 23                             | 7                               |
| IBR Large MW Change Events (no fault associated)  | 35                             | 4                               |
| Miscellaneous (transmission or telemetry event)   | 11                             | 0                               |

**Key Takeaway:** The Event Analysis team investigates each event to keep the system reliable and prevent reoccurring issues.

\*Meeting the criteria for NERC's Electric Reliability Organization Event Analysis Process and requiring ERCOT to submit a report.

# Real-time congestion rent decreased 20% in July from June 2026



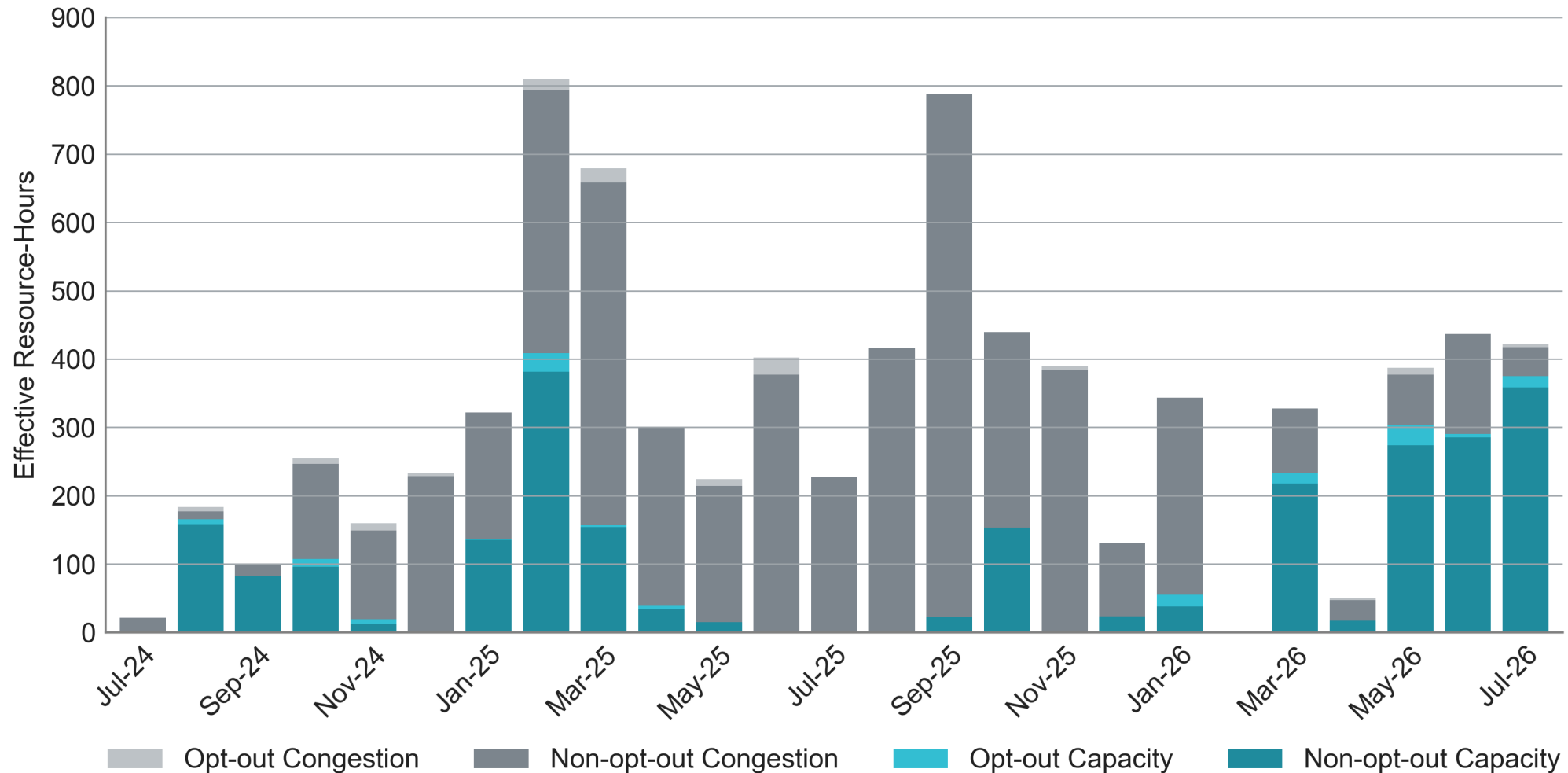
## The highest real-time congestion rent was in the North and Cross Zones

- The constraint representing the loss of the 345 kV double circuit Salado Switch to Hutto (overloading the 138 kV line from Fryers Creek to Temple Switch) primarily drove congestion rent in the **North Zone**.
- The constraint representing the loss of the 345 kV line from Wolf to WA Parish and the 345 kV line from Whaley to WA Parish (overloading the 345 kV line from South Texas Project to WA Parish) primarily drove congestion rent in the **Cross Zone**.

### 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.

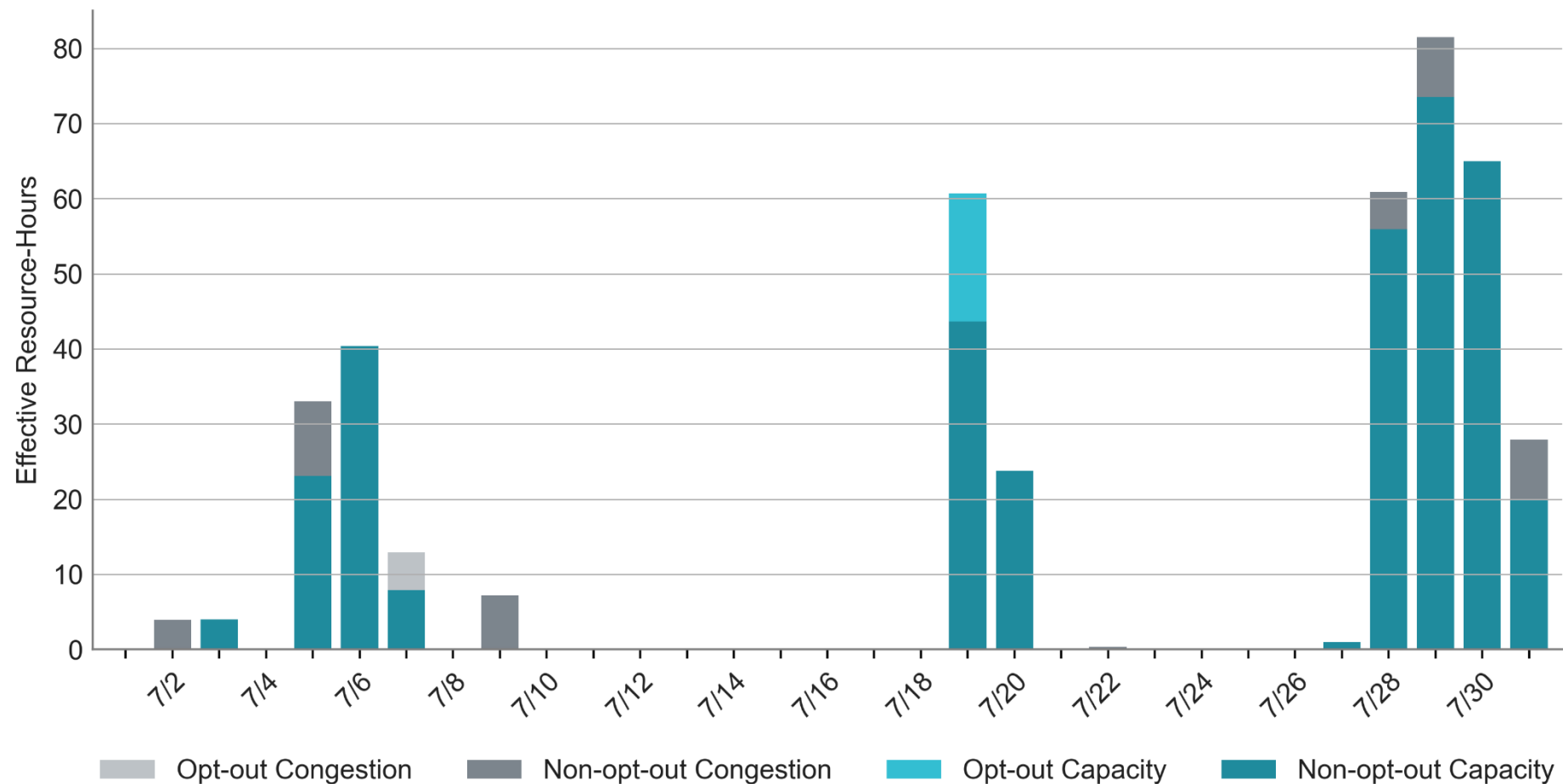
# RUC activity decreased slightly in July 2026 compared to June



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.

## Like the preceding months, most RUC instructions (89%) in July were committed to address capacity needs

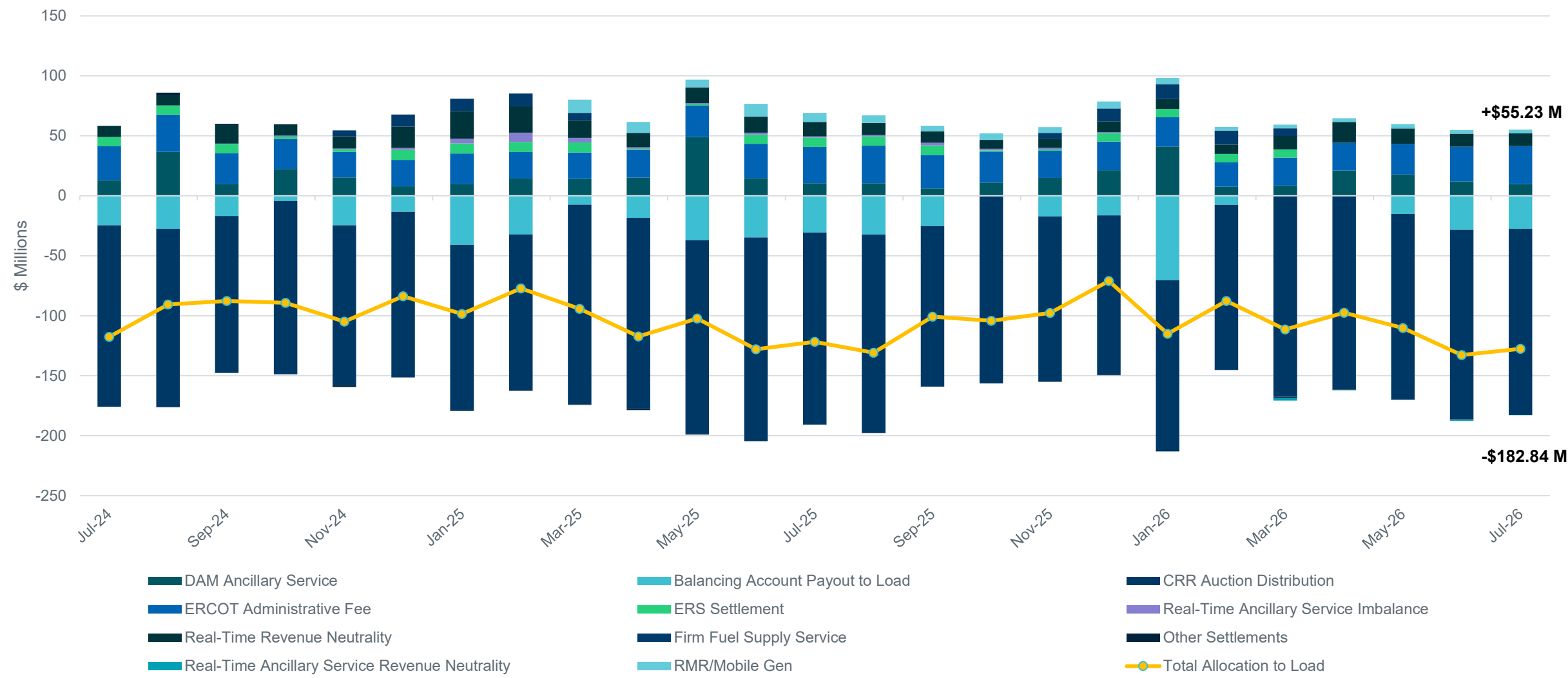


There were 422.4 RUC total effective Resource-hours in July. 375.2 hours (89%) were committed to address capacity concerns and 47.3 hours (11%) were committed to alleviate congestion.

# Twenty-Two Resources were committed in July, primarily to manage capacity

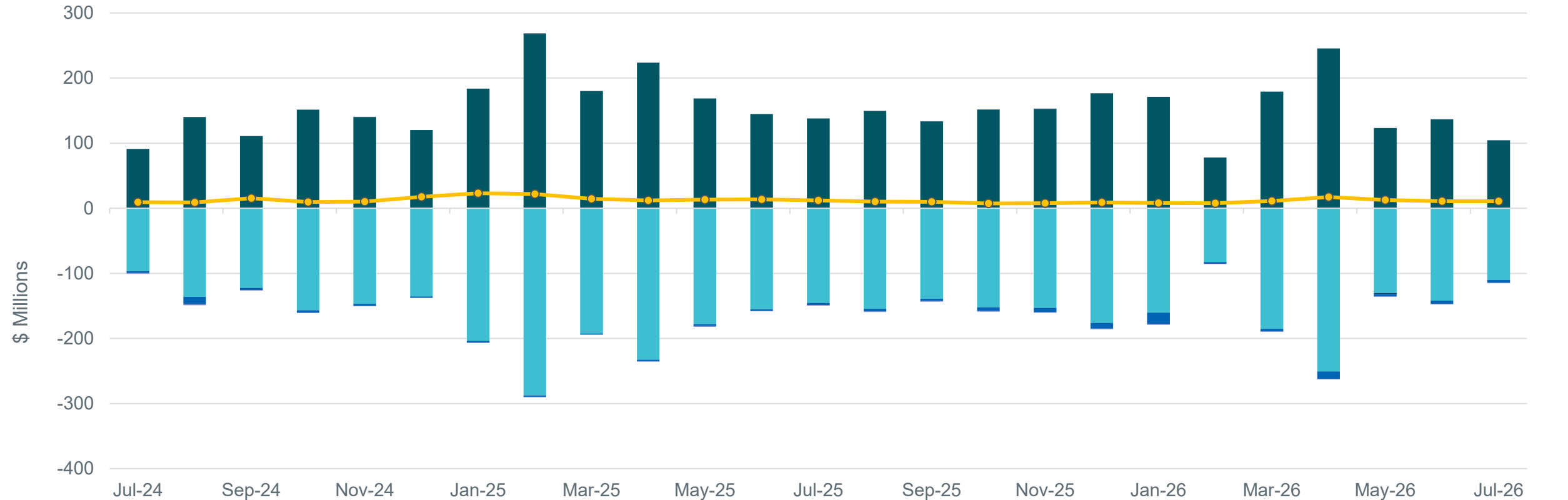
| Resource # | Effective Resource-hours | For Capacity |             | For Congestion |             |
|------------|--------------------------|--------------|-------------|----------------|-------------|
|            |                          | Opt-Out      | Non-Opt-Out | Opt-Out        | Non-Opt-Out |
| 1          | 71                       | 0            | 71          | 0              | 0           |
| 2          | 54.8                     | 0            | 54.8        | 0              | 0           |
| 3          | 53.7                     | 0            | 53.7        | 0              | 0           |
| 4          | 47.6                     | 0            | 47.6        | 0              | 0           |
| 5          | 44.8                     | 0            | 44.8        | 0              | 0           |
| 6          | 24.8                     | 0            | 19.8        | 0              | 5           |
| 7          | 18.8                     | 0            | 10          | 0              | 8.8         |
| 8          | 16.3                     | 0            | 0           | 0              | 16.3        |
| 9          | 13                       | 0            | 8           | 5              | 0           |
| 10         | 11.8                     | 0            | 11.8        | 0              | 0           |
| 11         | 8.9                      | 0            | 3.9         | 0              | 5           |
| 12         | 8                        | 8            | 0           | 0              | 0           |
| 13         | 8                        | 0            | 8           | 0              | 0           |
| 14         | 8                        | 0            | 8           | 0              | 0           |
| 15         | 5.9                      | 0            | 5.9         | 0              | 0           |
| 16         | 5                        | 0            | 5           | 0              | 0           |
| 17         | 4                        | 4            | 0           | 0              | 0           |
| 18         | 3.9                      | 0            | 3.9         | 0              | 0           |
| 19         | 3.9                      | 0            | 0           | 0              | 3.9         |
| 20         | 3                        | 3            | 0           | 0              | 0           |
| 21         | 2                        | 2            | 0           | 0              | 0           |
| 22         | 2                        | 0            | 2           | 0              | 0           |
| Total      | 422.4                    | 17.0         | 358.2       | 5              | 42.3        |

# Net Allocation to Load in July 2026 was (\$127.61) Million



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

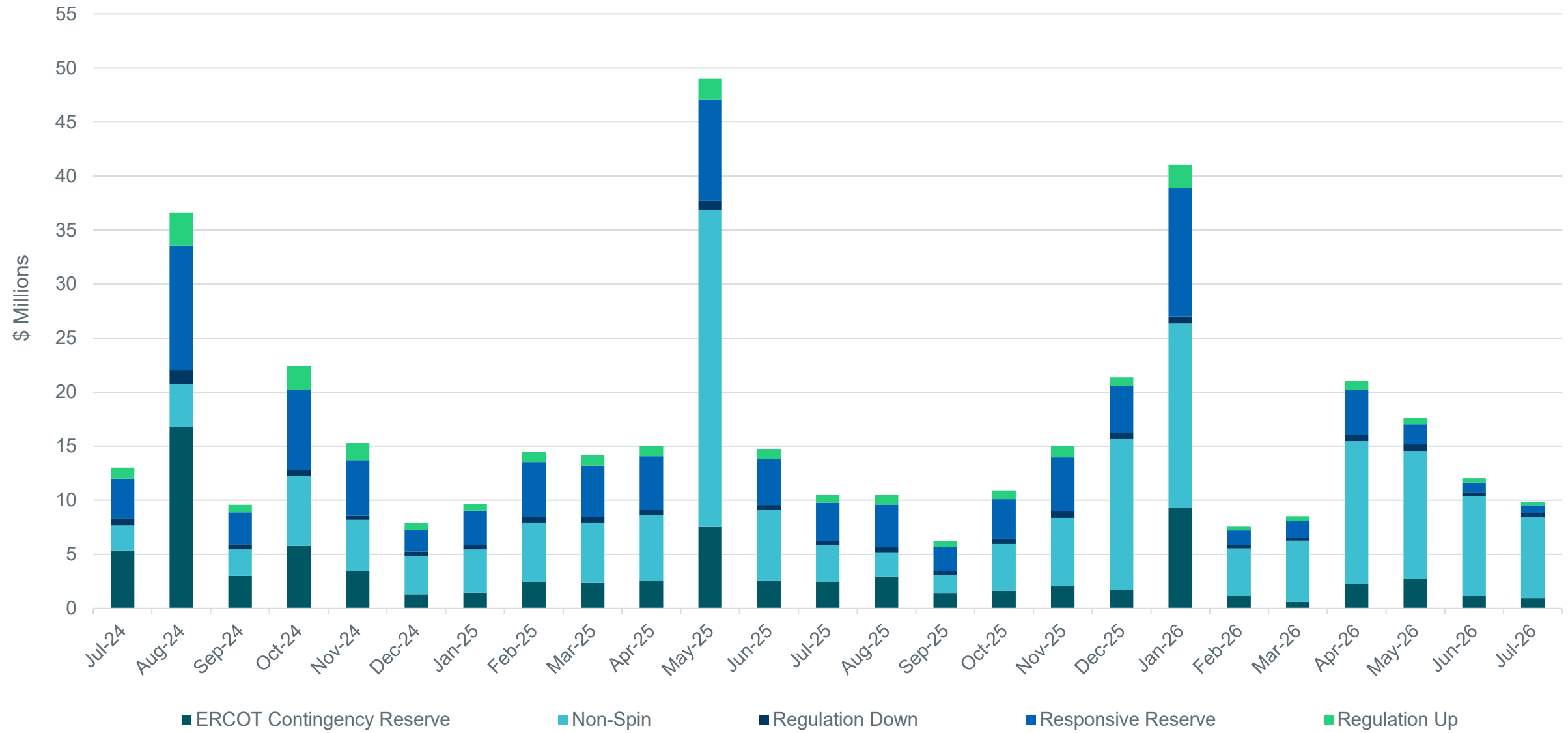
# Real-Time Revenue Neutrality Allocated to Load was \$10.69M for July 2026



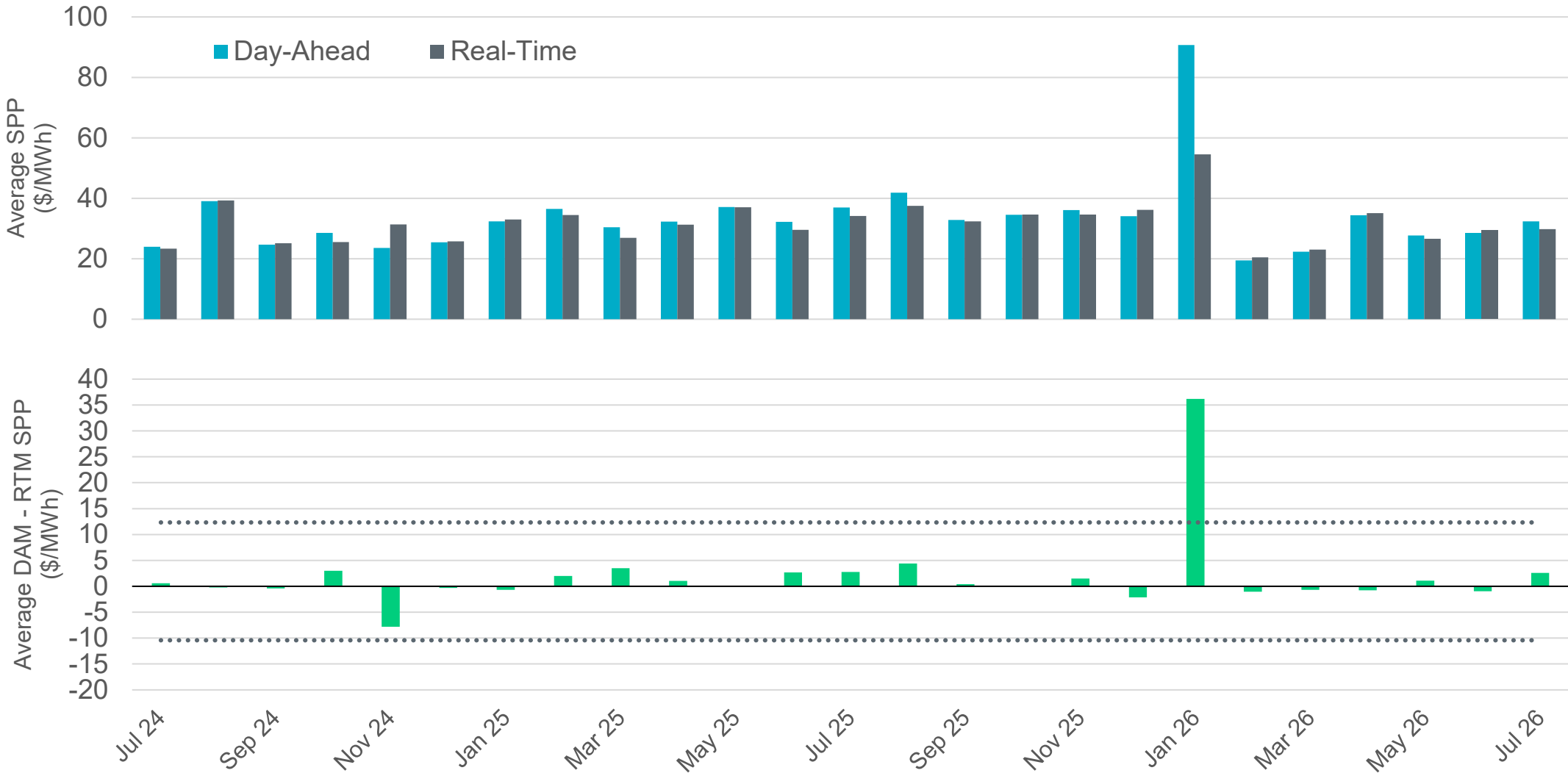
- Real-Time Energy Imbalance
- Real-Time Point-to-Point Obligations
- Real-Time Congestion from Self-Schedules
- DC Ties & Block Load Transfers
- Real-Time Energy for SODG and SOTG
- Load Allocated Revenue Neutrality

| July 2026 (\$M)                          |            |
|------------------------------------------|------------|
| Real-Time Energy Imbalance               | \$104.13   |
| Real-Time Point-to-Point Obligation      | (\$110.36) |
| Real-Time Congestion from Self-Schedules | \$0.41     |
| DC Tie & Block Load Transfer             | (\$4.05)   |
| Real-Time Energy for SODG and SOTG       | (\$0.82)   |
| Load Allocated Revenue Neutrality        | \$10.69    |

# DAM Ancillary Services for July 2026 totaled \$9.85M



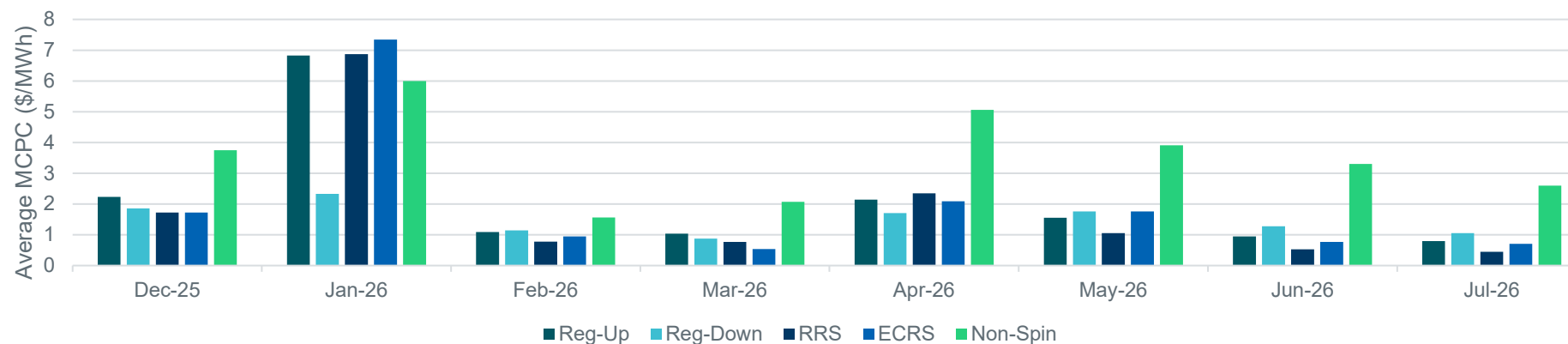
# Day-ahead prices exceeded real-time prices in July by \$2.58/MWh, on average



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

# Day-ahead and real-time Ancillary Service prices have been trending lower since April

DAM Average MCPC

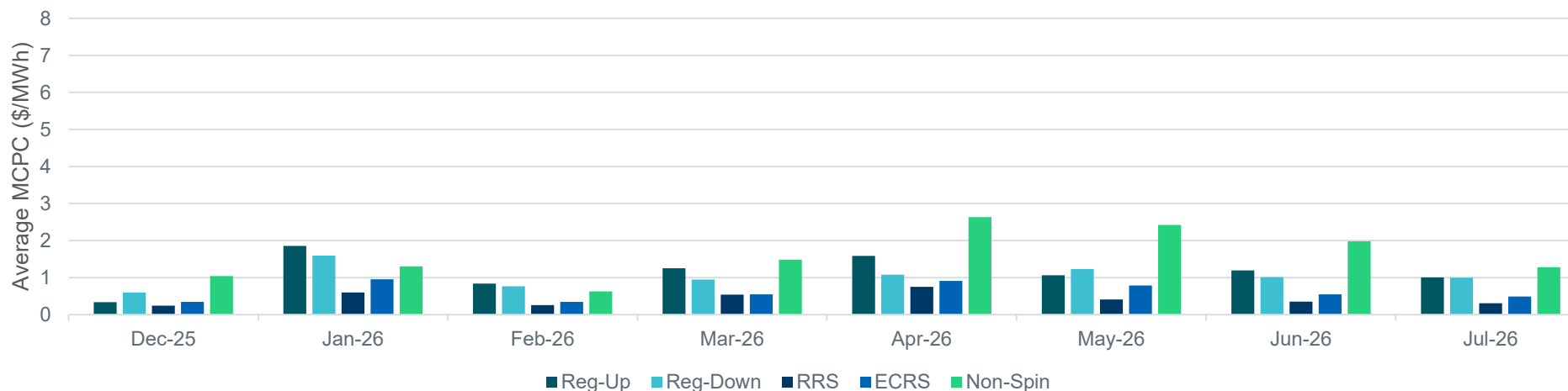


**Notes:**

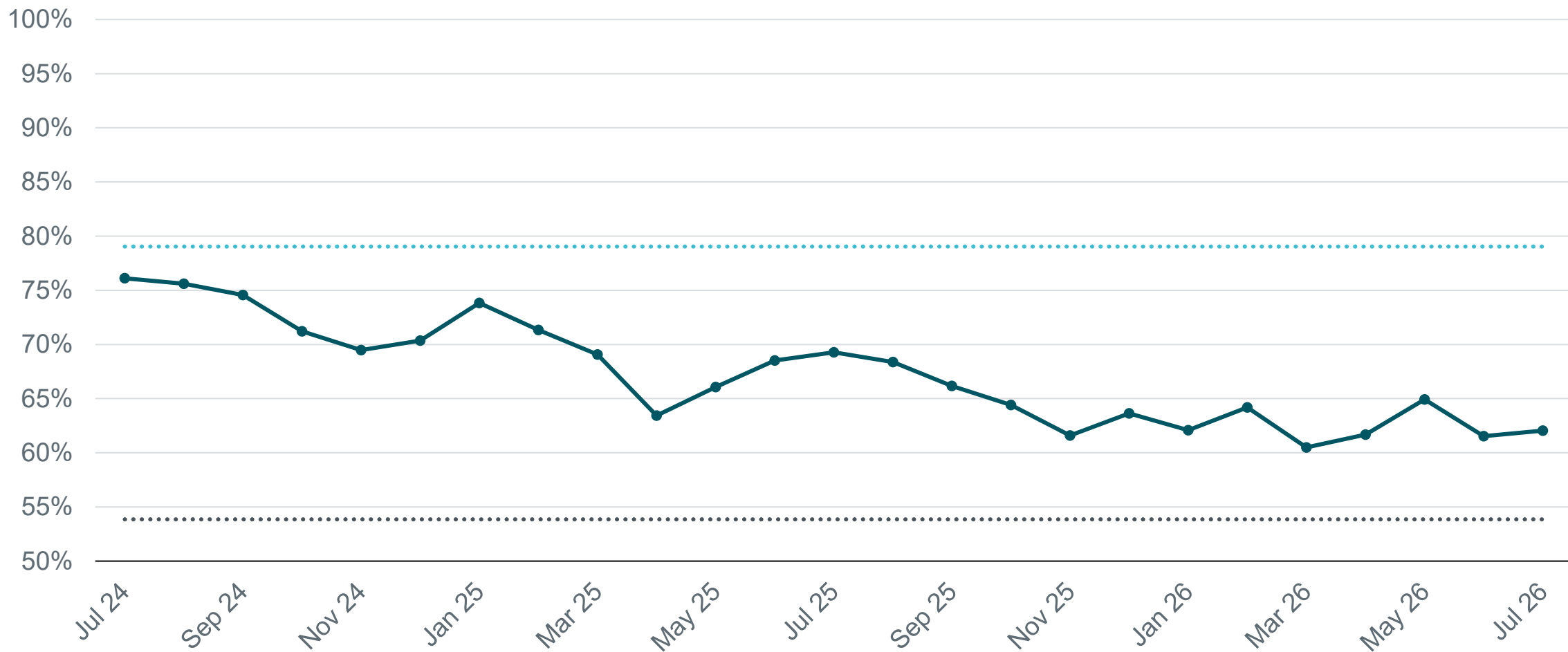
1) Starting with the introduction of the RTC+B program in December 2025, there are now MCPCs for all Ancillary Services in the Real-Time Market (RTM). The chart compares RTM MCPCs to DAM MCPCs.

2) Monthly MCPCs are calculated as energy- and time-weighted average values, using the total AS awards of each interval for each AS type.

RT Average MCPC

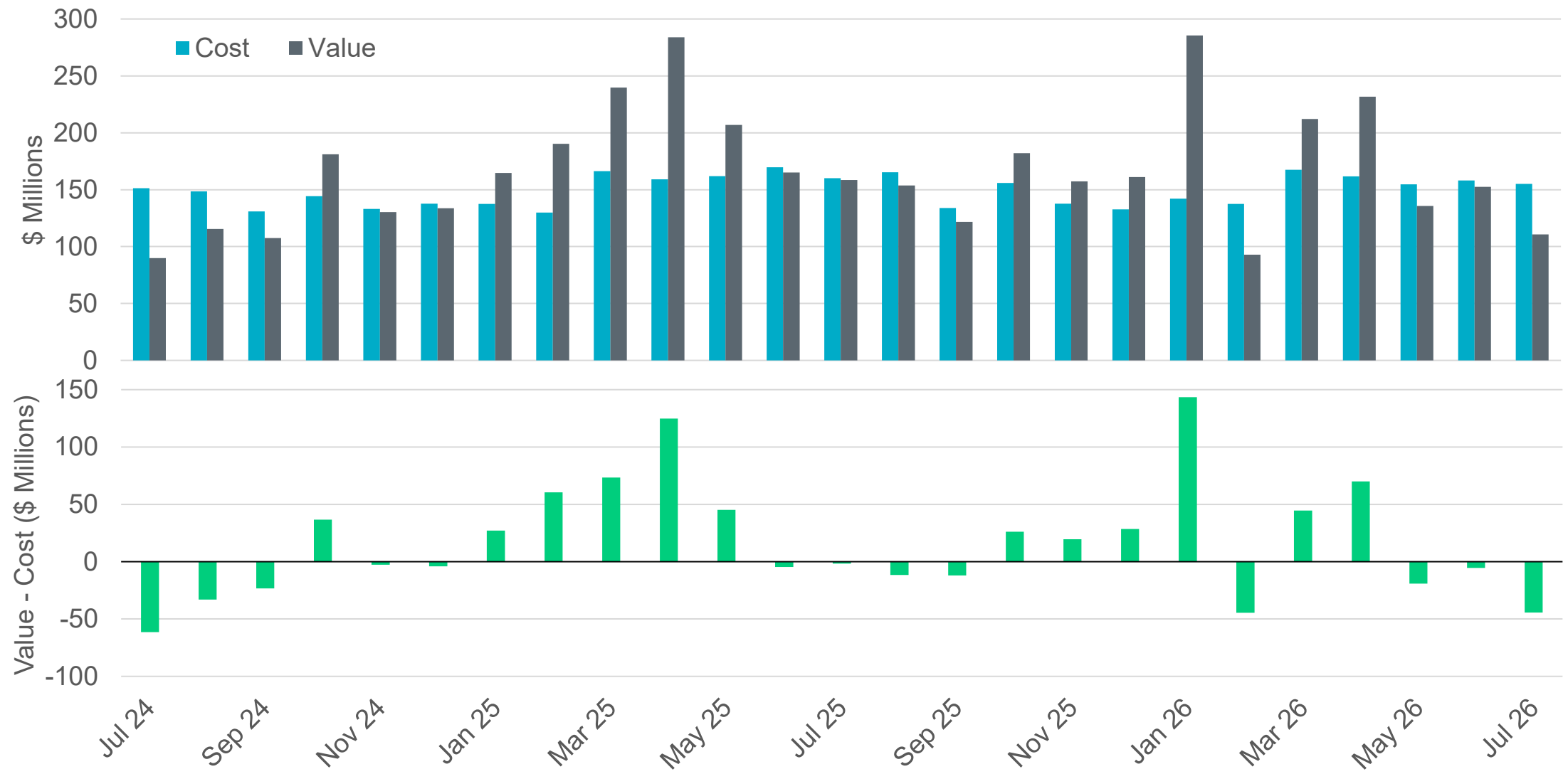


# The percentage of real-time load transacted in the Day-Ahead Market is relatively flat since November 2025, but lower than in the previous two years

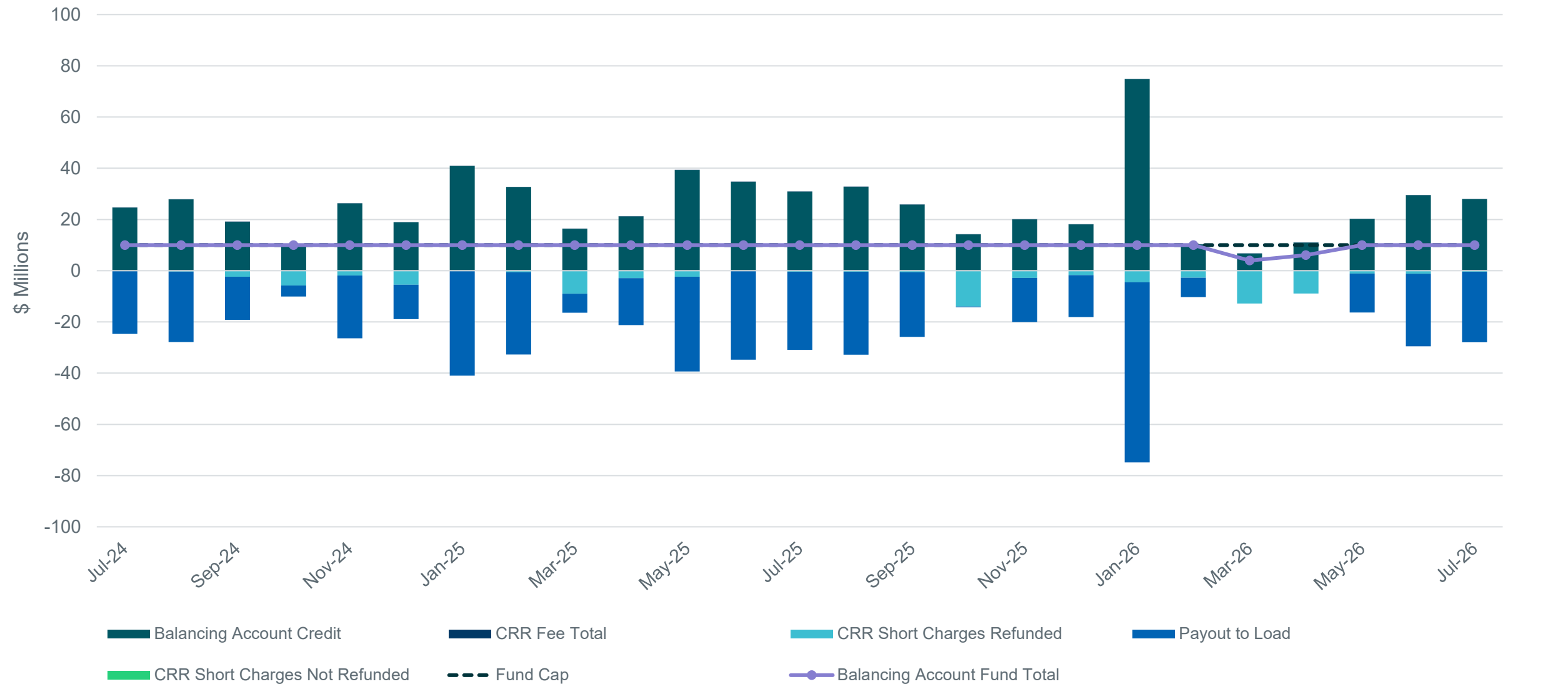


\*The dotted lines represent the bounds for major outliers

# The net value of Congestion Revenue Rights (CRRs) was negative by ~\$44M in July



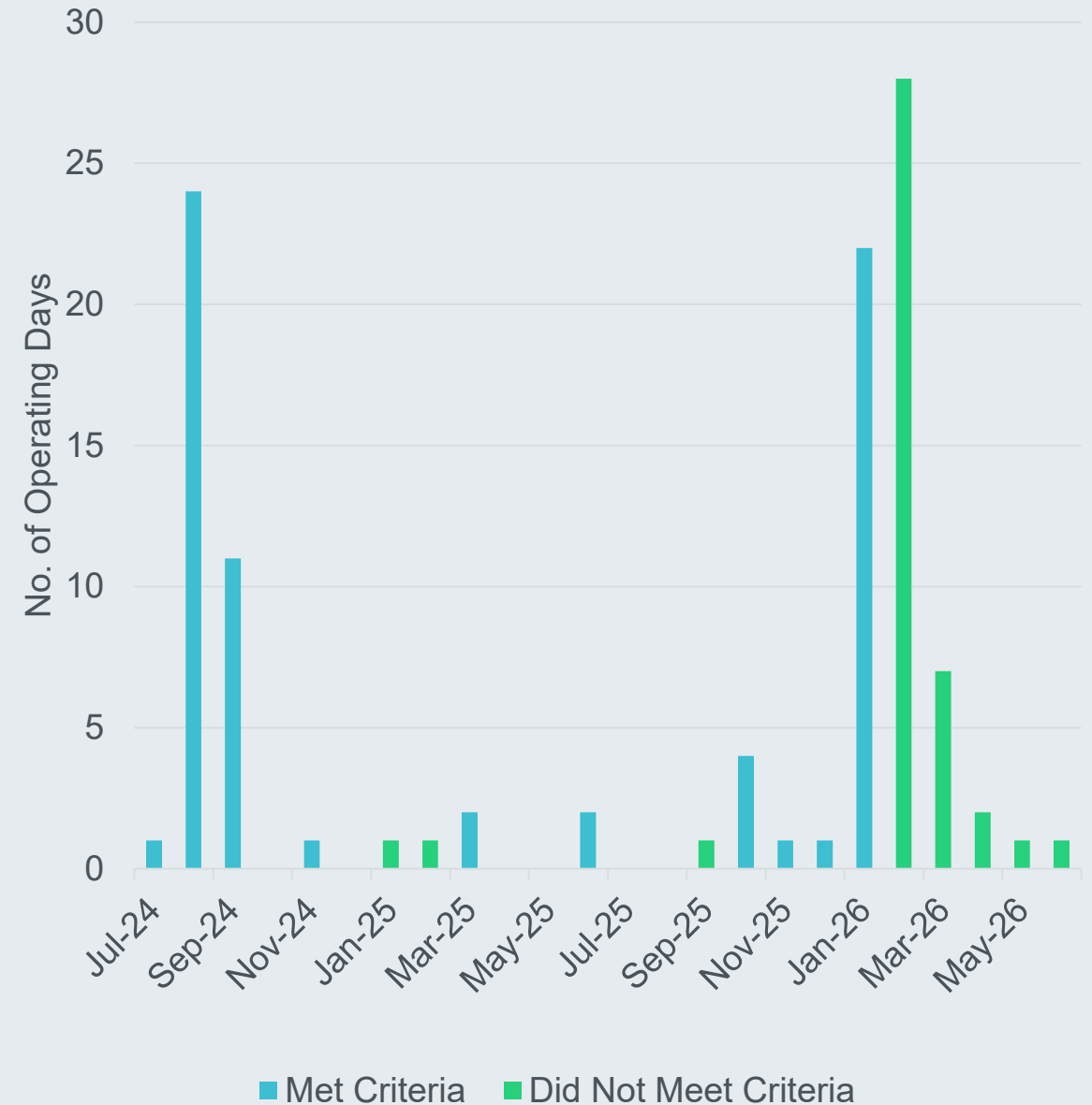
# The CRR Balancing Account was fully-funded and excess amounts were allocated to Load



# 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 two 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

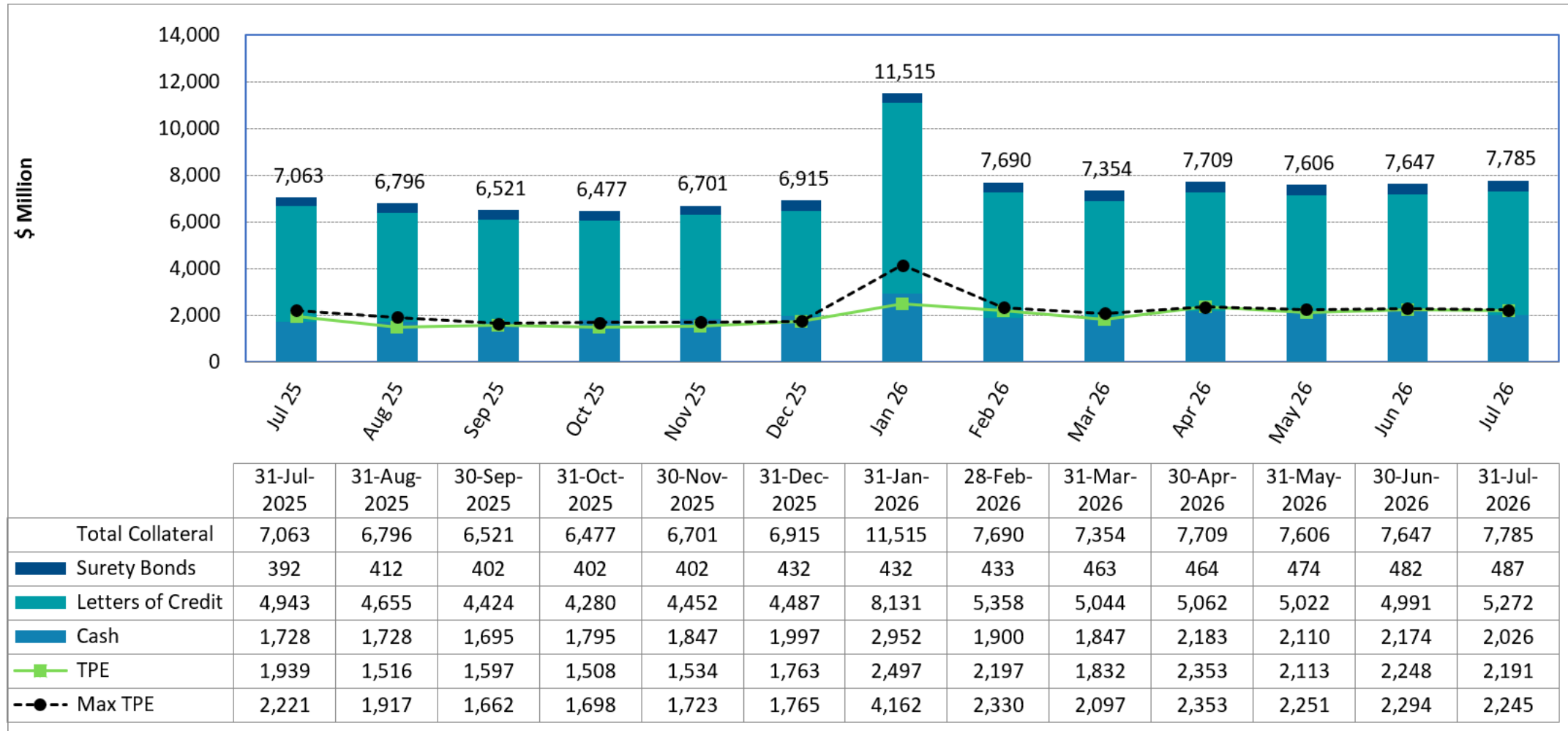


# ERCOT identified one pricing incident, but it did not meet the criteria to correct prices

## Did Not Meet Criteria

On Operating Day July 9, 2026, ERCOT performed a scheduled site failover and activated Emergency Basepoints. ERCOT's analysis showed an estimated absolute total dollar impact of \$40.78 for changes to Real-Time prices for energy metered. This impact did not meet the threshold criteria of \$500 and so ERCOT will not correct prices.

# 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 2026

|                                     | Year-To-Date |           | Transactions Received |           |
|-------------------------------------|--------------|-----------|-----------------------|-----------|
| Transaction Type                    | July 2026    | July 2025 | July 2026             | July 2025 |
| Switches                            | 860,323      | 852,231   | 143,523               | 121,440   |
| Acquisitions                        | 0            | 0         | 0                     | 0         |
| Move - Ins                          | 1,712,069    | 1,725,834 | 280,975               | 282,238   |
| Move - Outs                         | 835,043      | 852,413   | 132,772               | 138,887   |
| Continuous Service Agreements (CSA) | 401,499      | 339,724   | 45,129                | 45,336    |
| Mass Transitions                    | 0            | 0         | 0                     | 0         |
| Total                               | 3,808,934    | 3,770,202 | 602,399               | 587,901   |
|                                     |              |           |                       |           |