WESTERN ENERGY MARKETS

Q3 2025 Report on Market Issues and Performance

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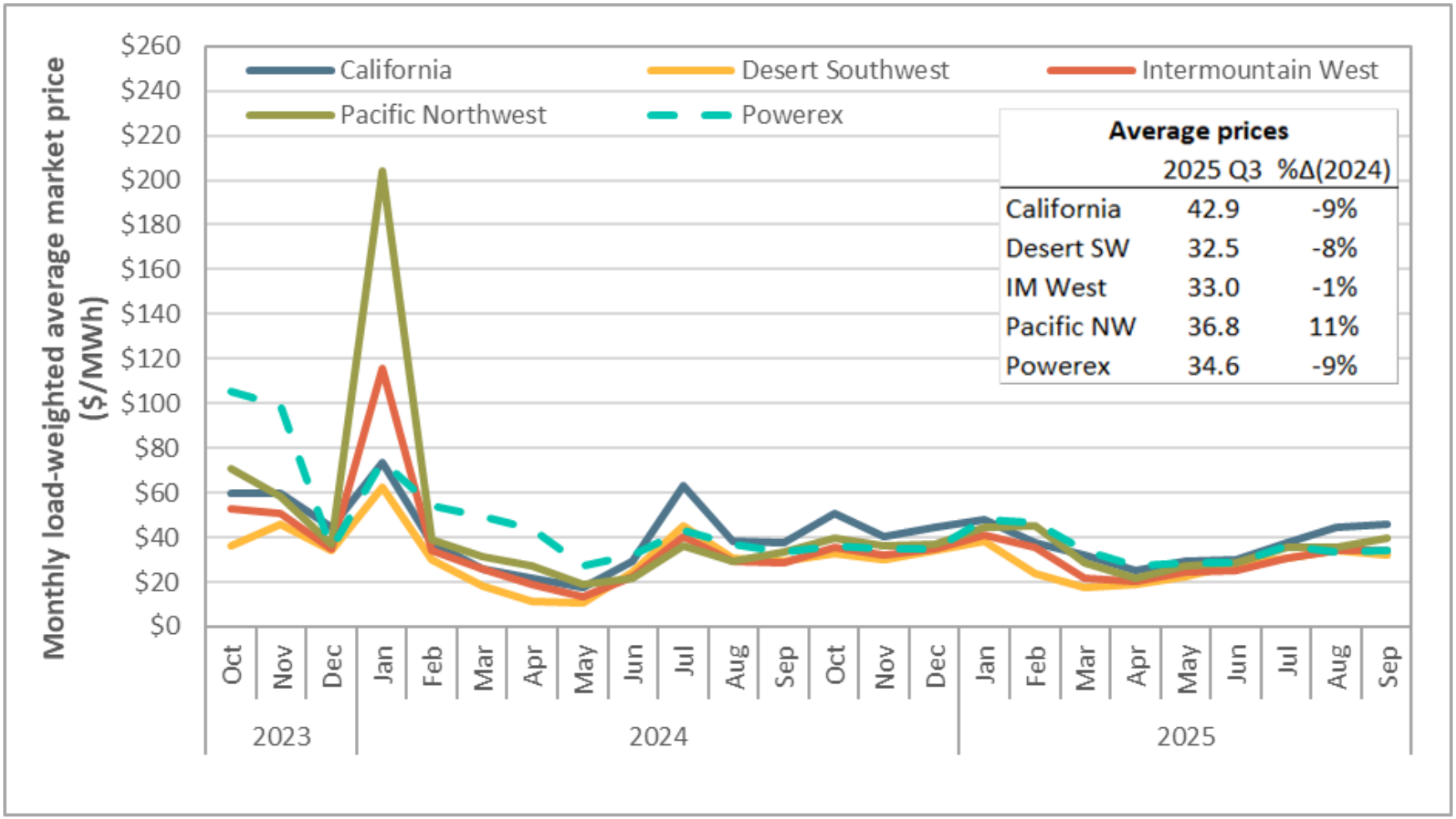
https://www.caiso.com/documents/2025-third-quarter-report-on-market-issues-and-performance.pdf

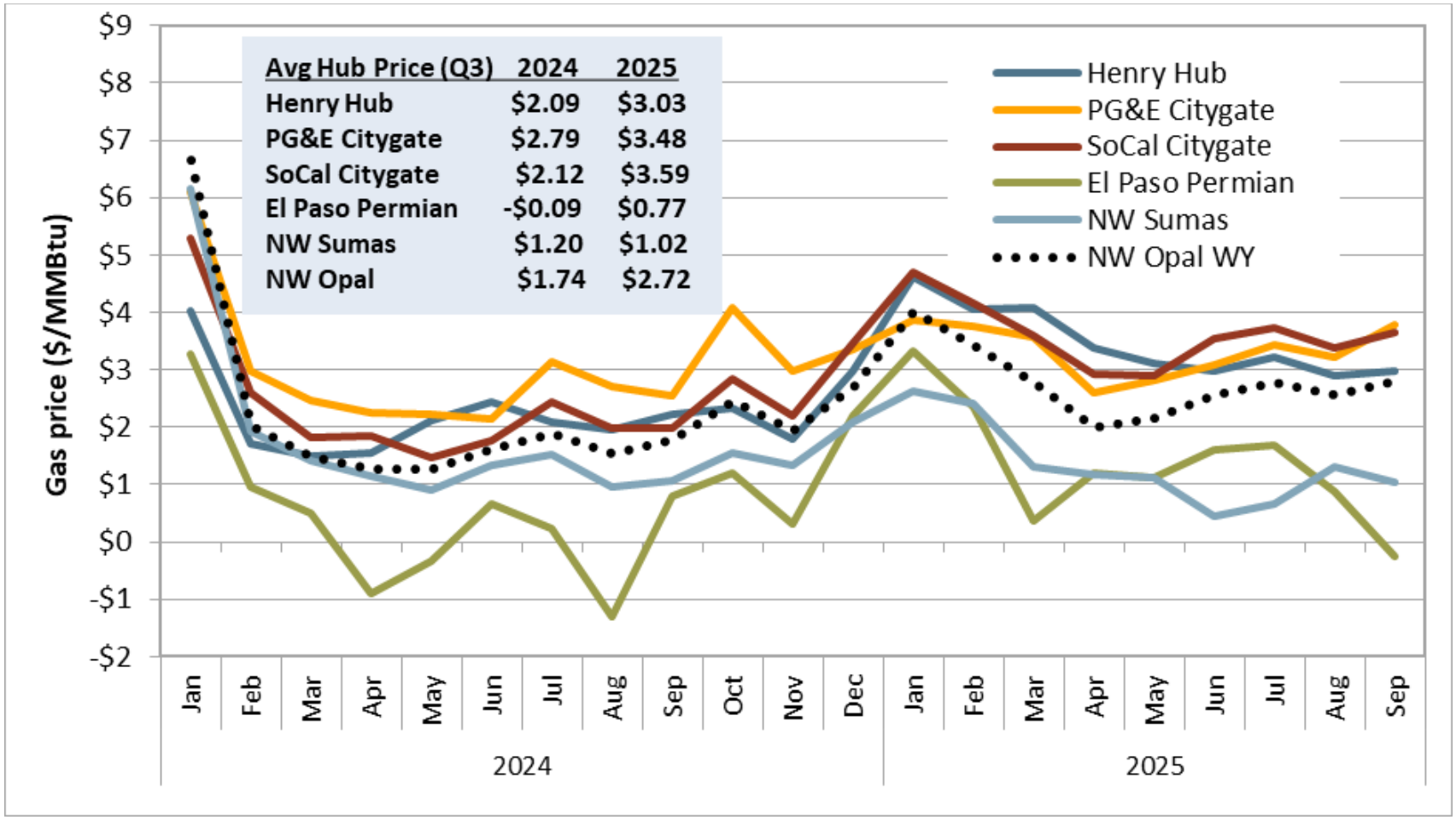
Electricity prices in West down 4% compared to Q3 2024

Weighted average monthly 15-minute market prices by region



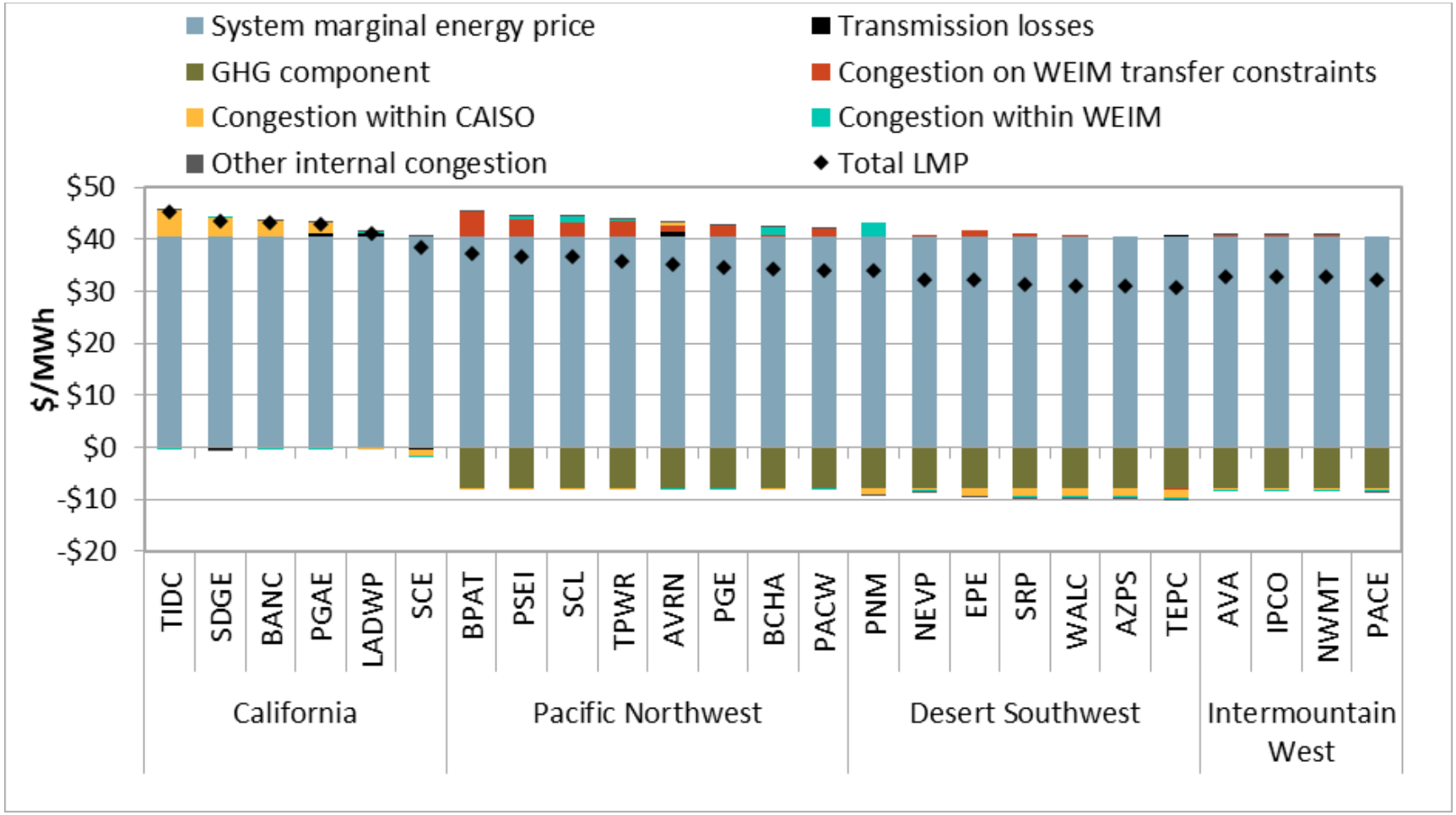
Gas prices up at most hubs but down in Northwest compared to Q3 2024

Average monthly natural gas prices by hub



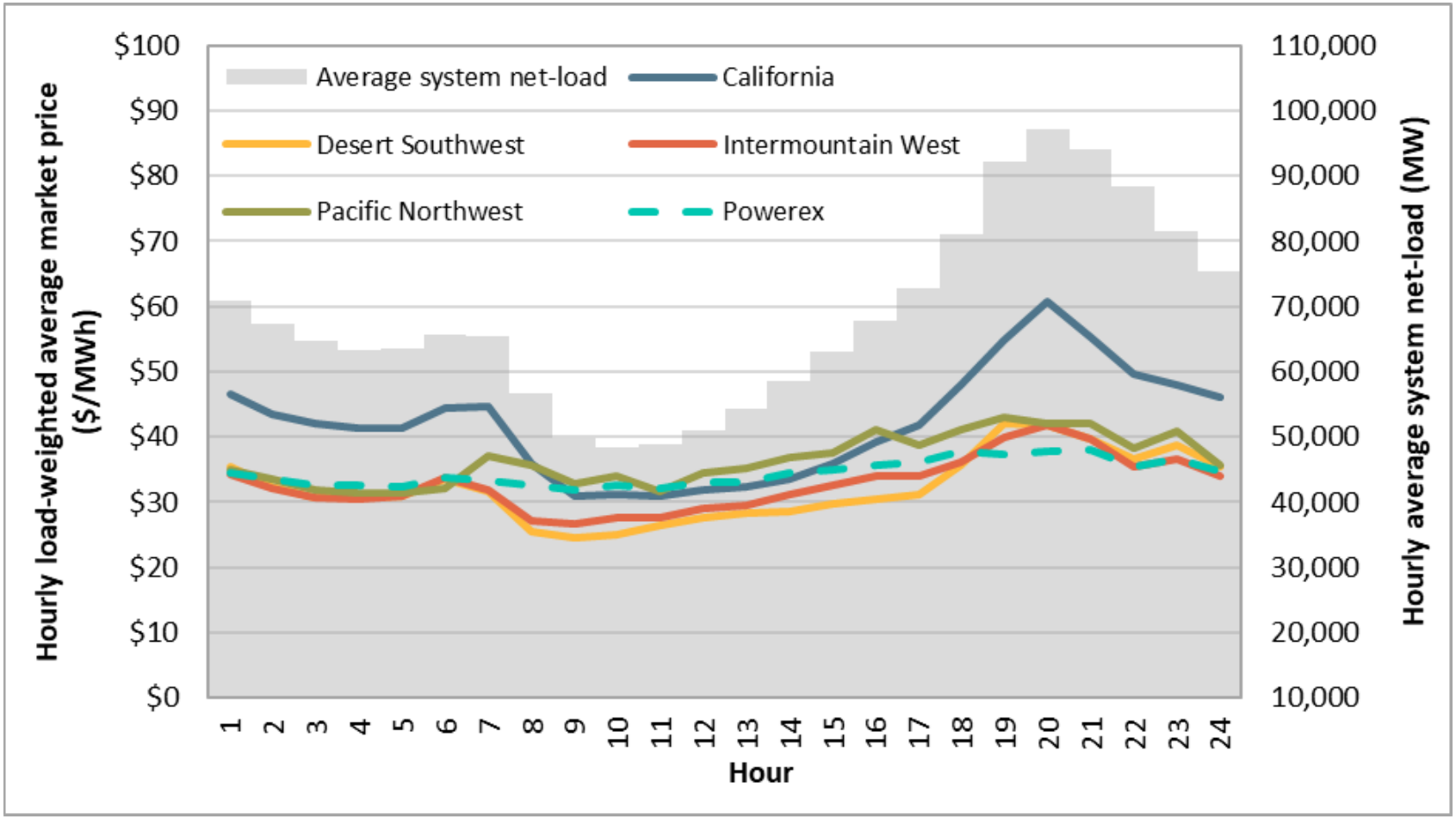
Average price separation driven largely by south-to-north congestion and greenhouse gas costs in California

Average 15-minute market prices by component (July – September 2025)



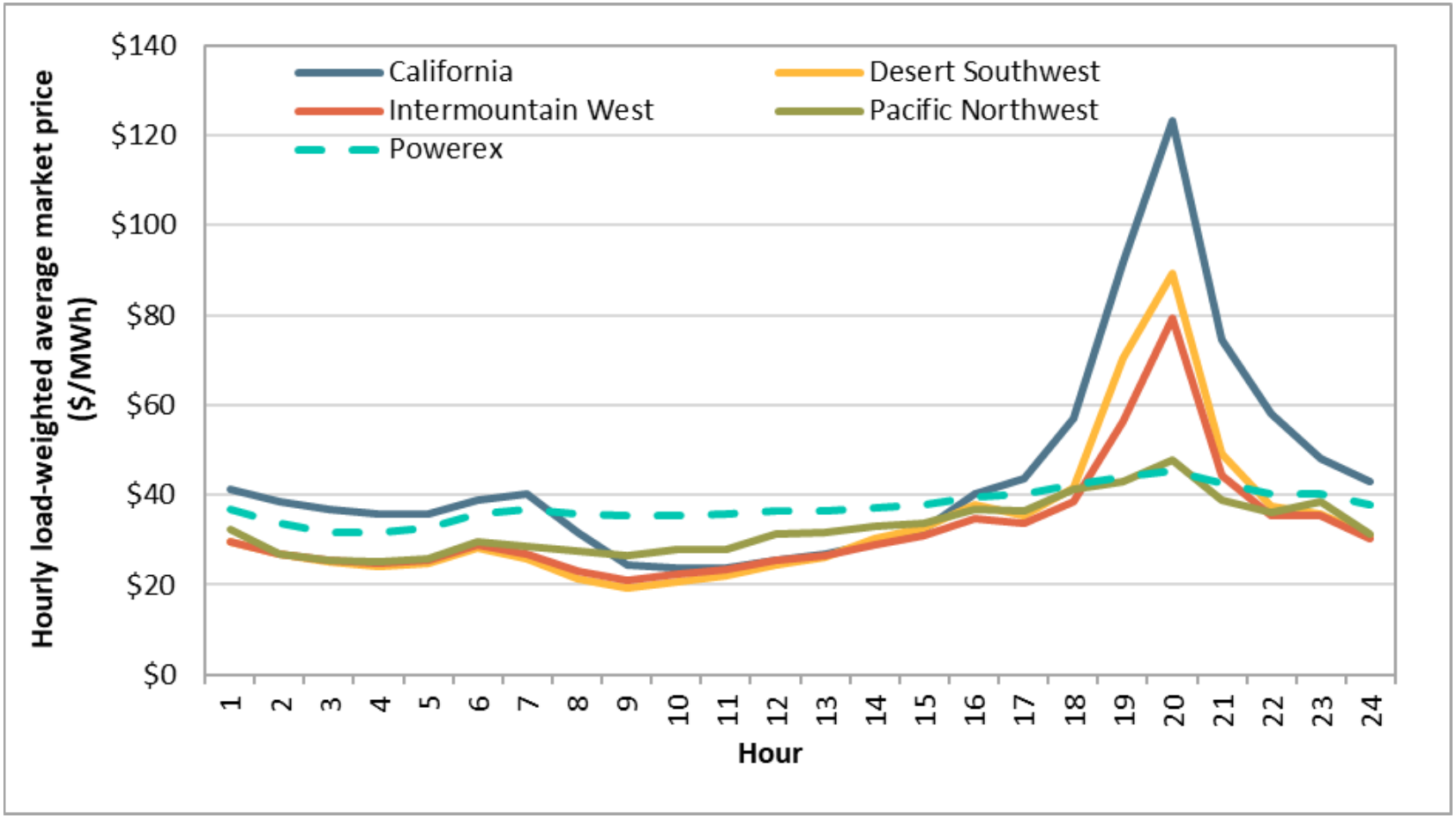
Higher prices in Northwest for solar hours, California for non-solar hours

Weighted average hourly 15-minute market prices by region (July – September 2025)



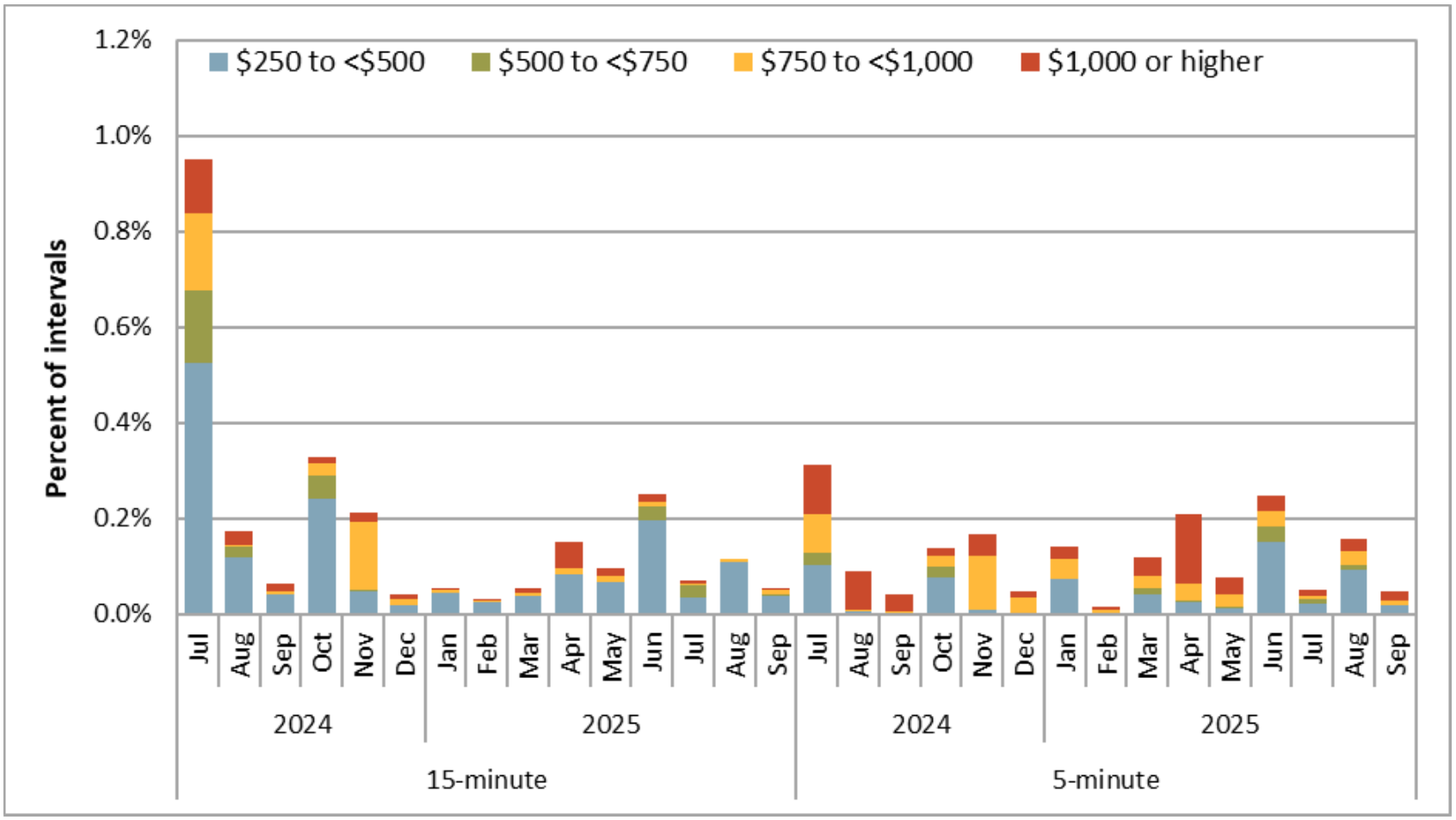
In Q3 2024, much more north-to-south congestion during peak evening hours

Weighted average hourly 15-minute market prices by region (July – September 2024)



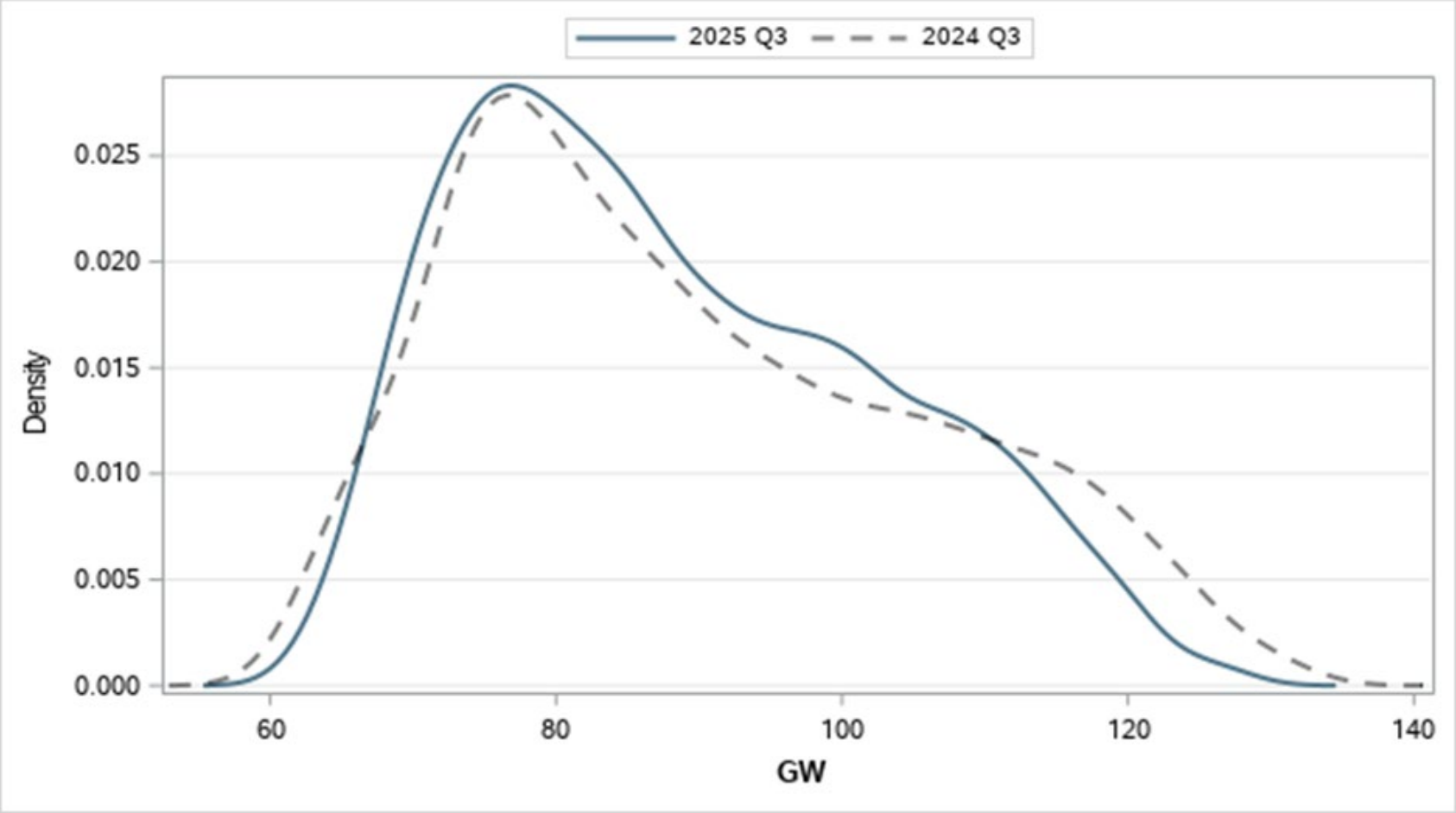
Lower frequency of tight conditions and high prices than Q3 2024

Frequency of high prices in BAAs participating only in the real-time markets



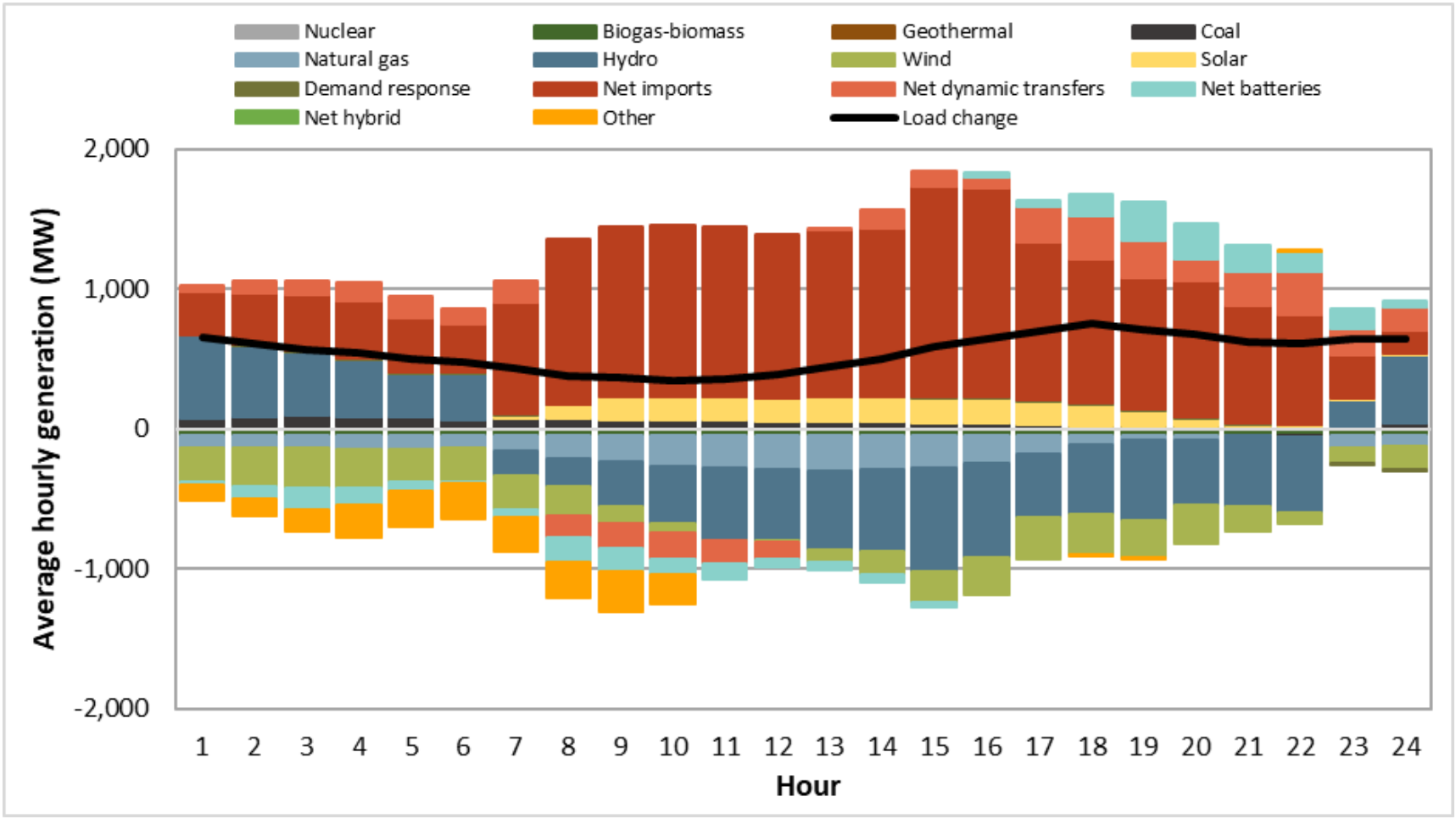
Less very high load intervals in Q3 2025 than Q3 2024

Quarterly 5-minute market system load distribution



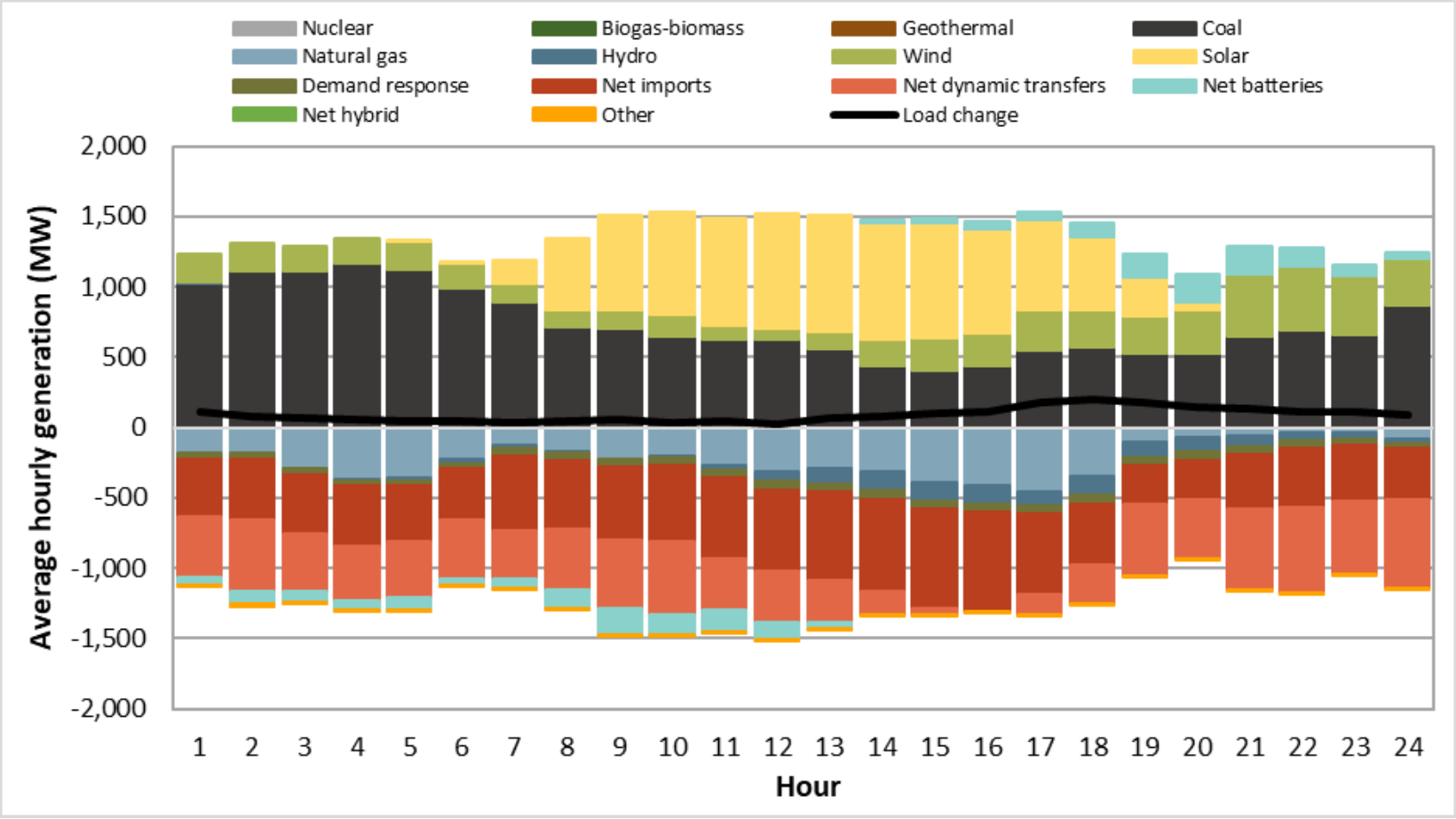
Change in average hourly generation by fuel type in the Pacific Northwest region

Q3 2025 vs. Q3 2024



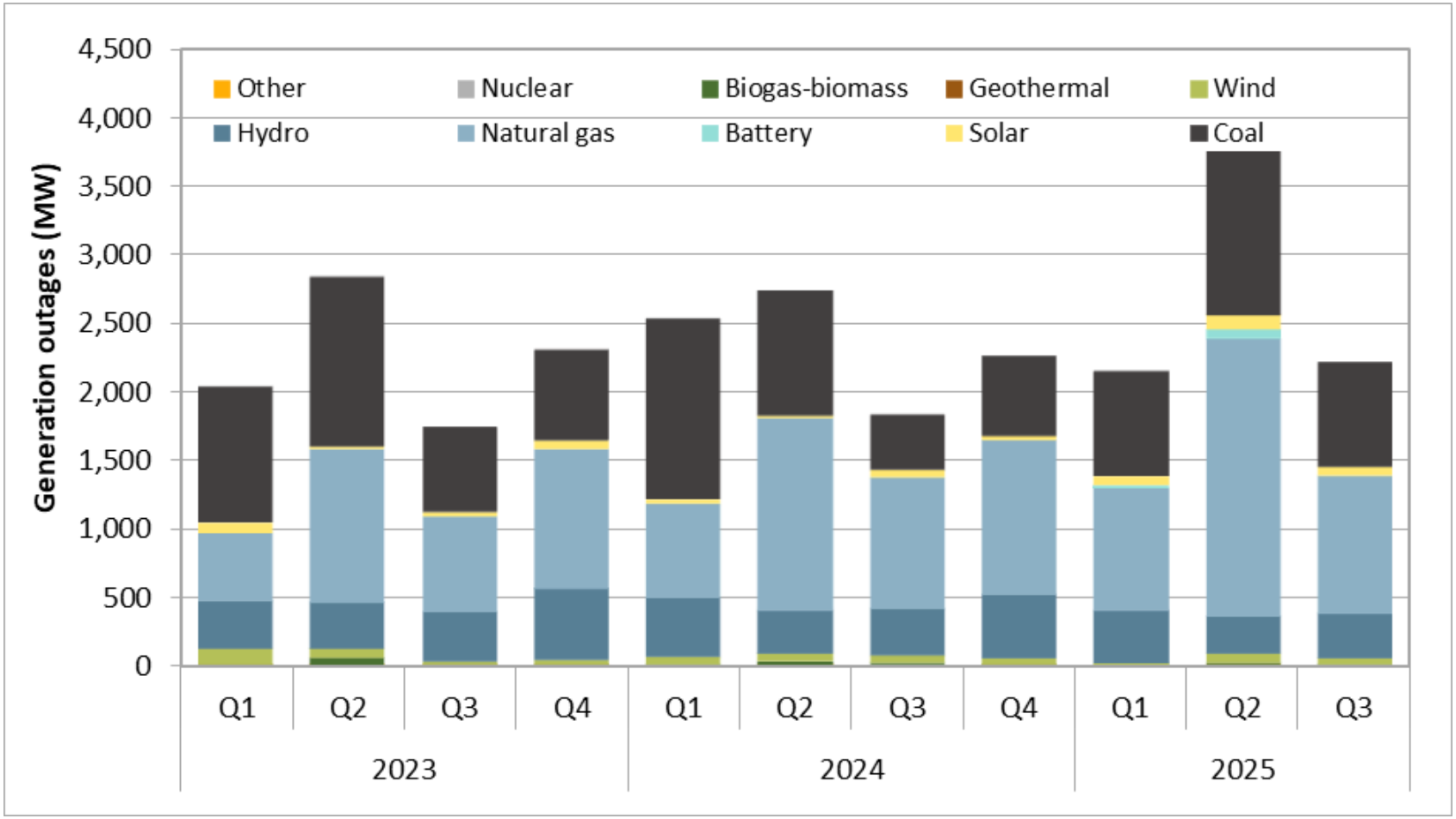
Change in average hourly generation by fuel type in the Intermountain West region

Q3 2025 vs. Q3 2024



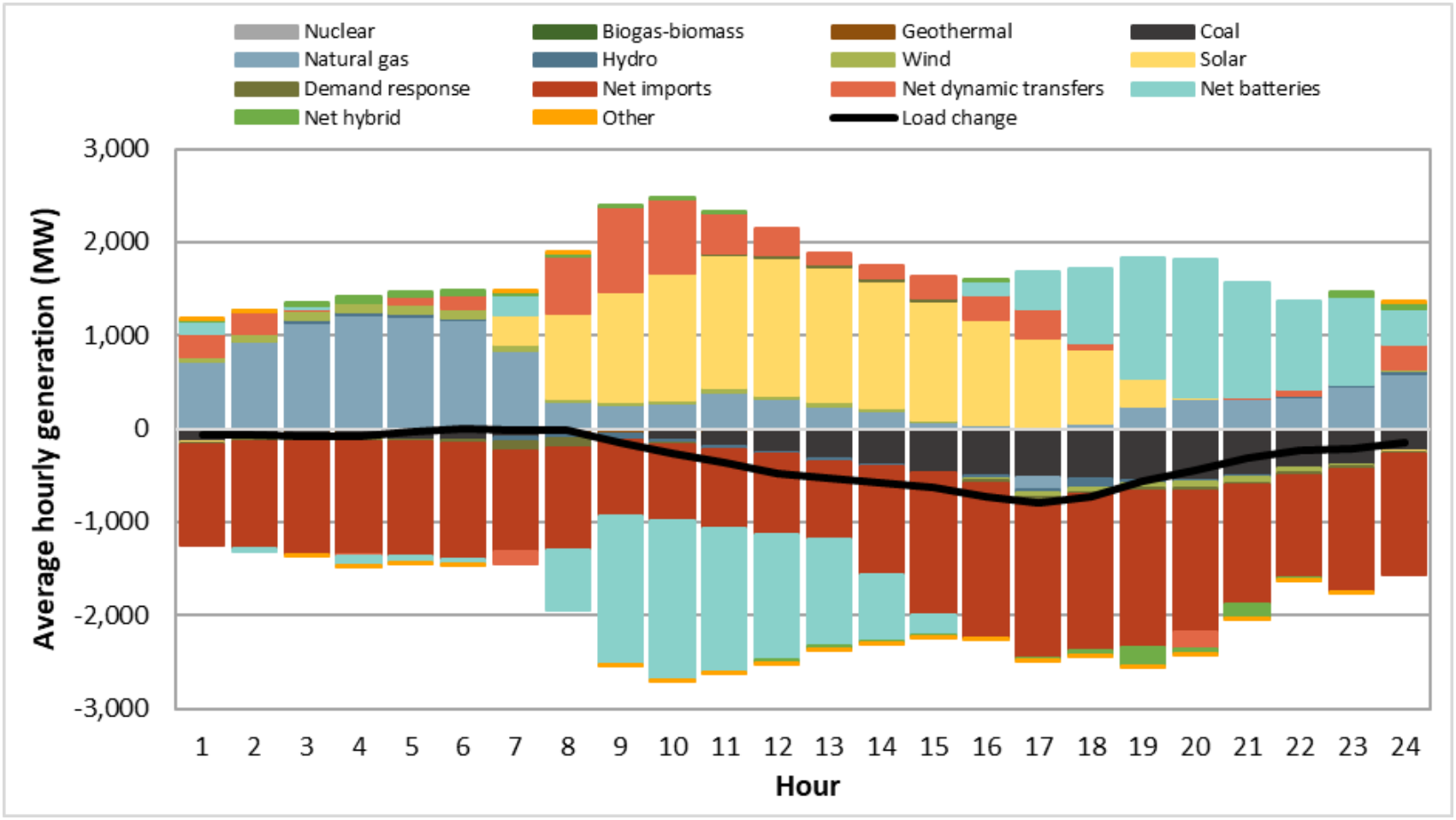
Intermountain West coal production up despite more coal unit outages

Intermountain West quarterly average of maximum daily generation outages by fuel type – peak hours



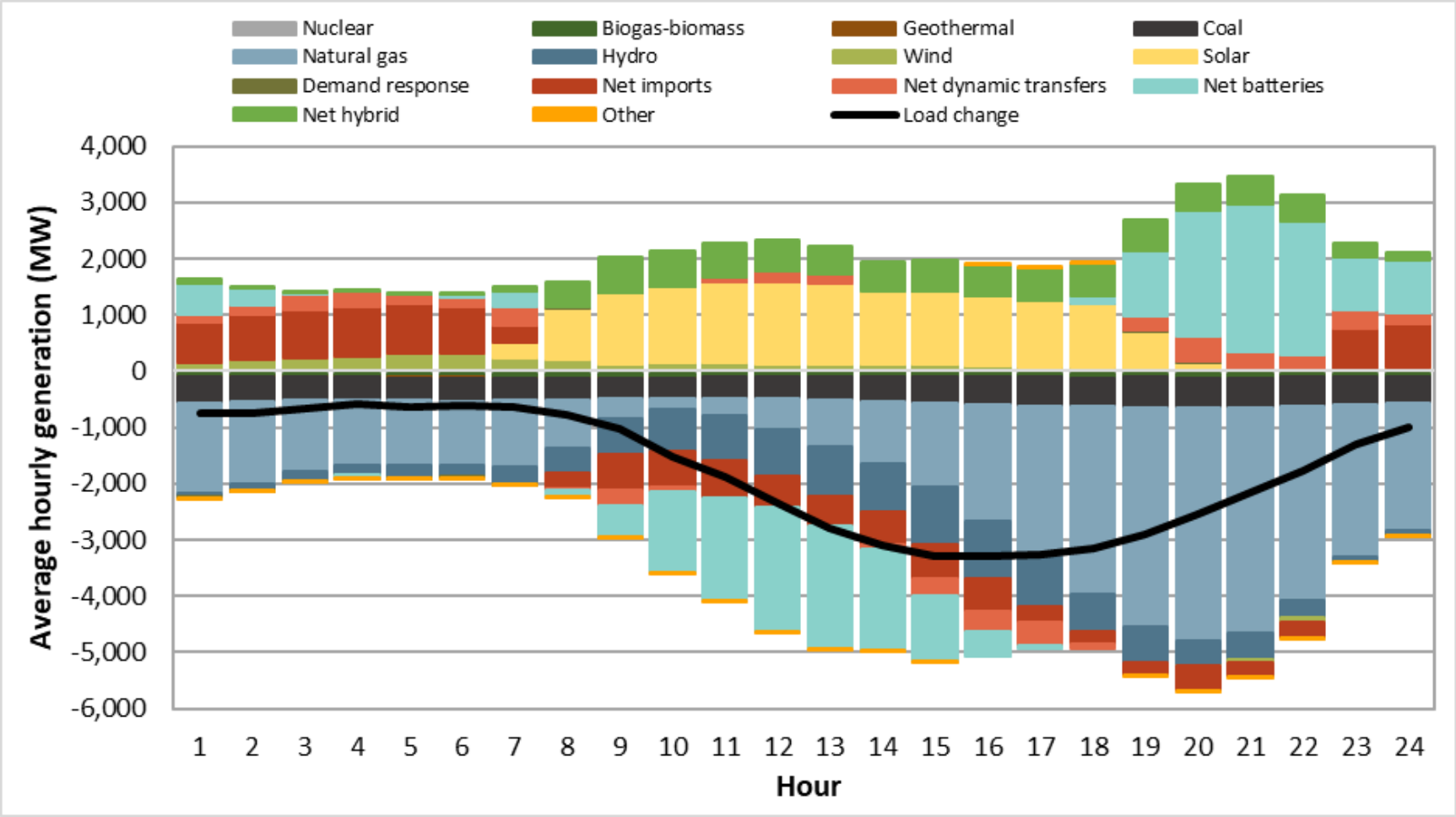
Change in average hourly generation by fuel type in the Desert Southwest region

Q3 2025 vs. Q3 2024



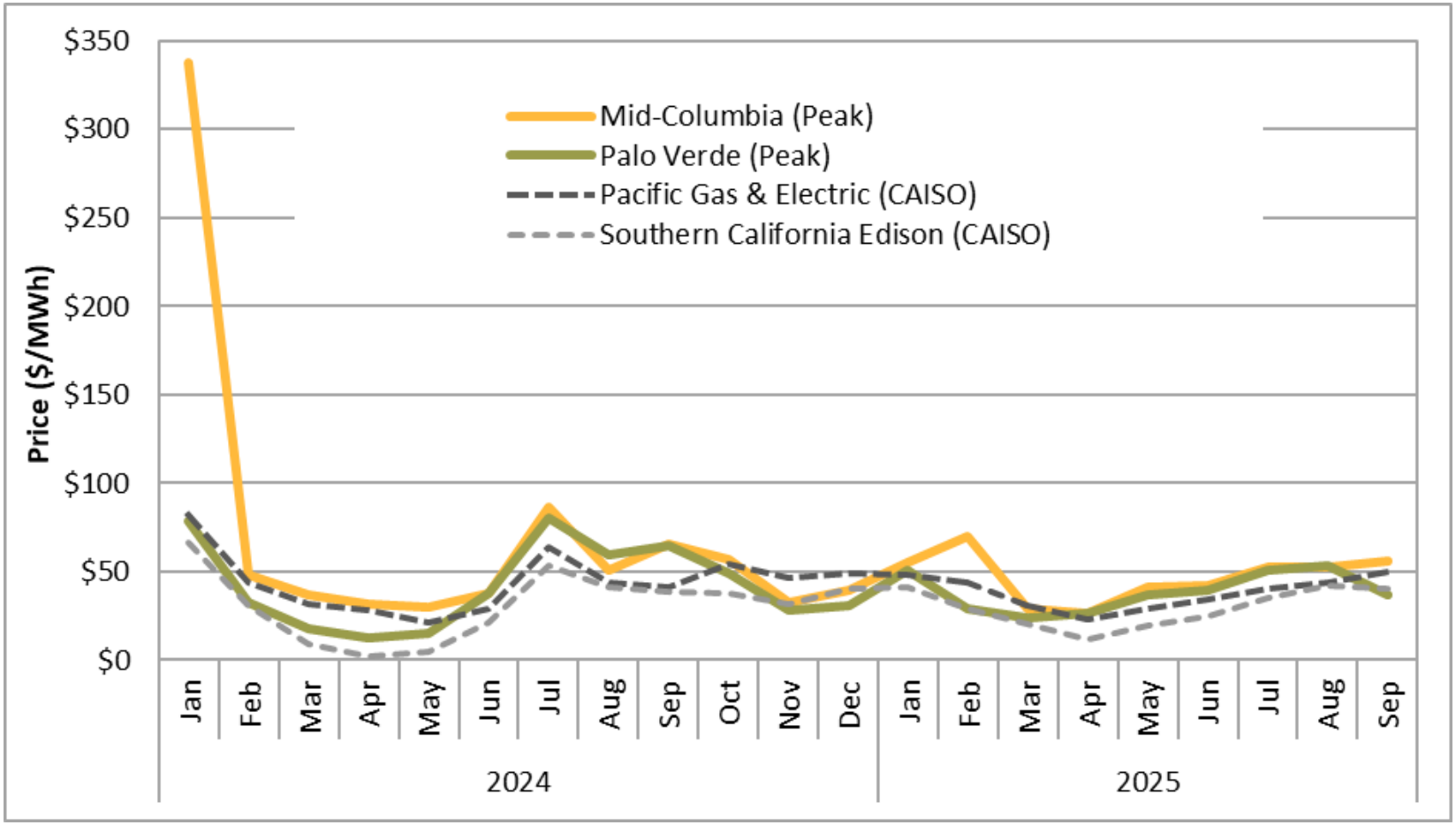
Change in average hourly generation by fuel type in the California region

Q3 2025 vs. Q3 2024



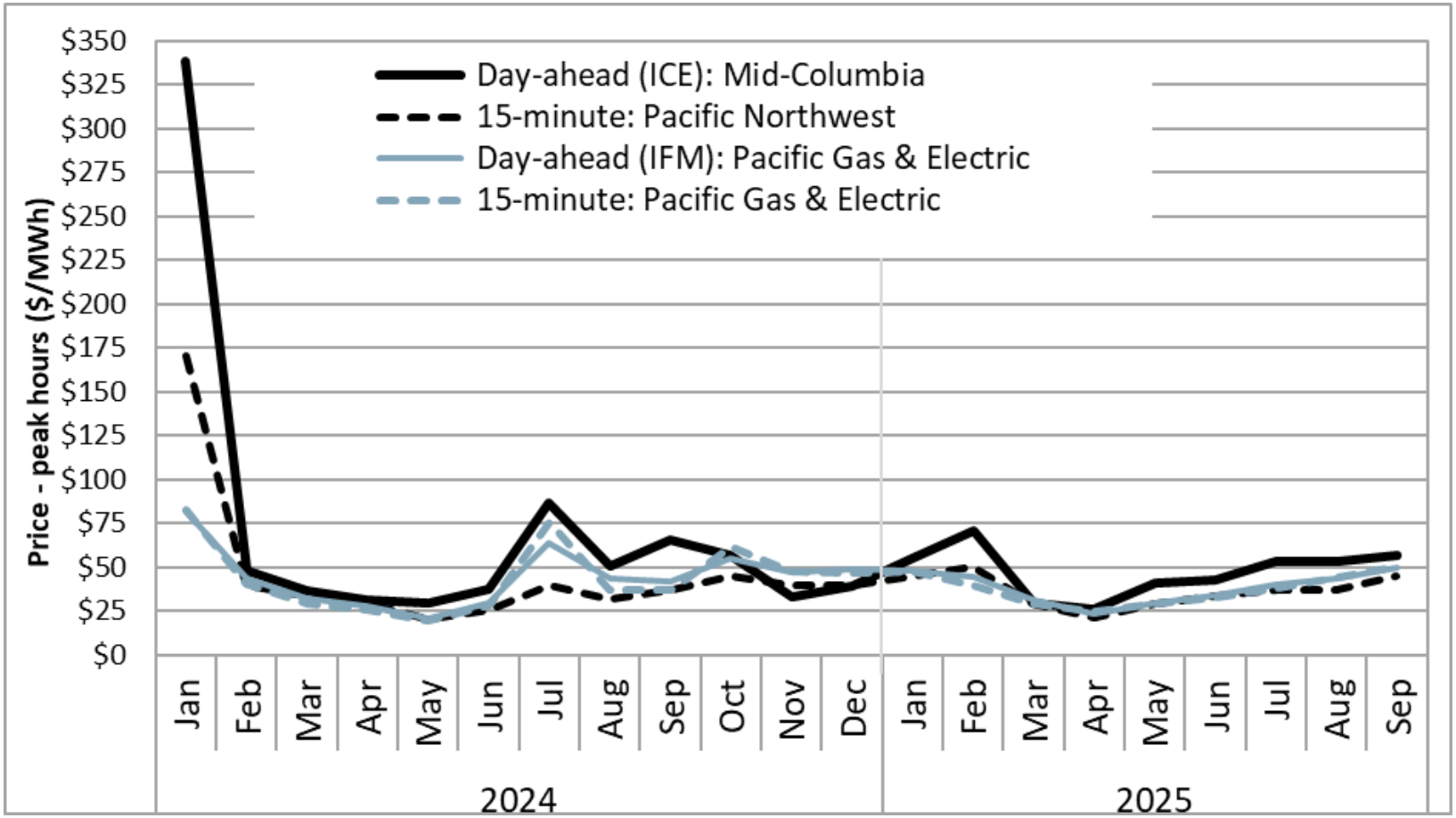
Mid-Columbia bilateral prices higher than Palo Verde in September

Monthly average day-ahead ISO and bilateral prices (peak hours)



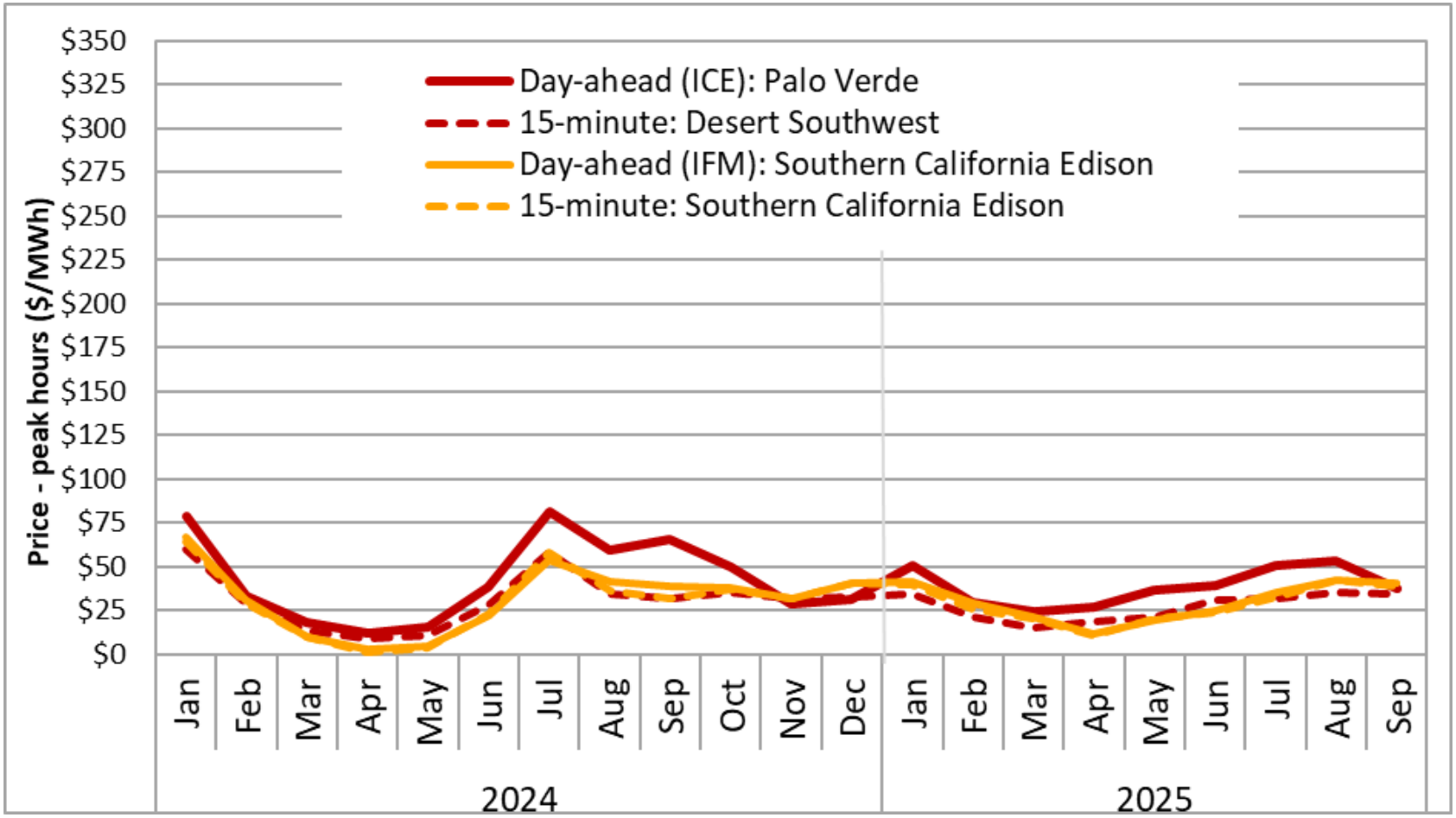
Bilateral day-ahead prices at Mid-C higher than ISO market prices

Mid-C bilateral day-ahead ICE vs. Pacific Northwest 15-minute market prices (peak hours)



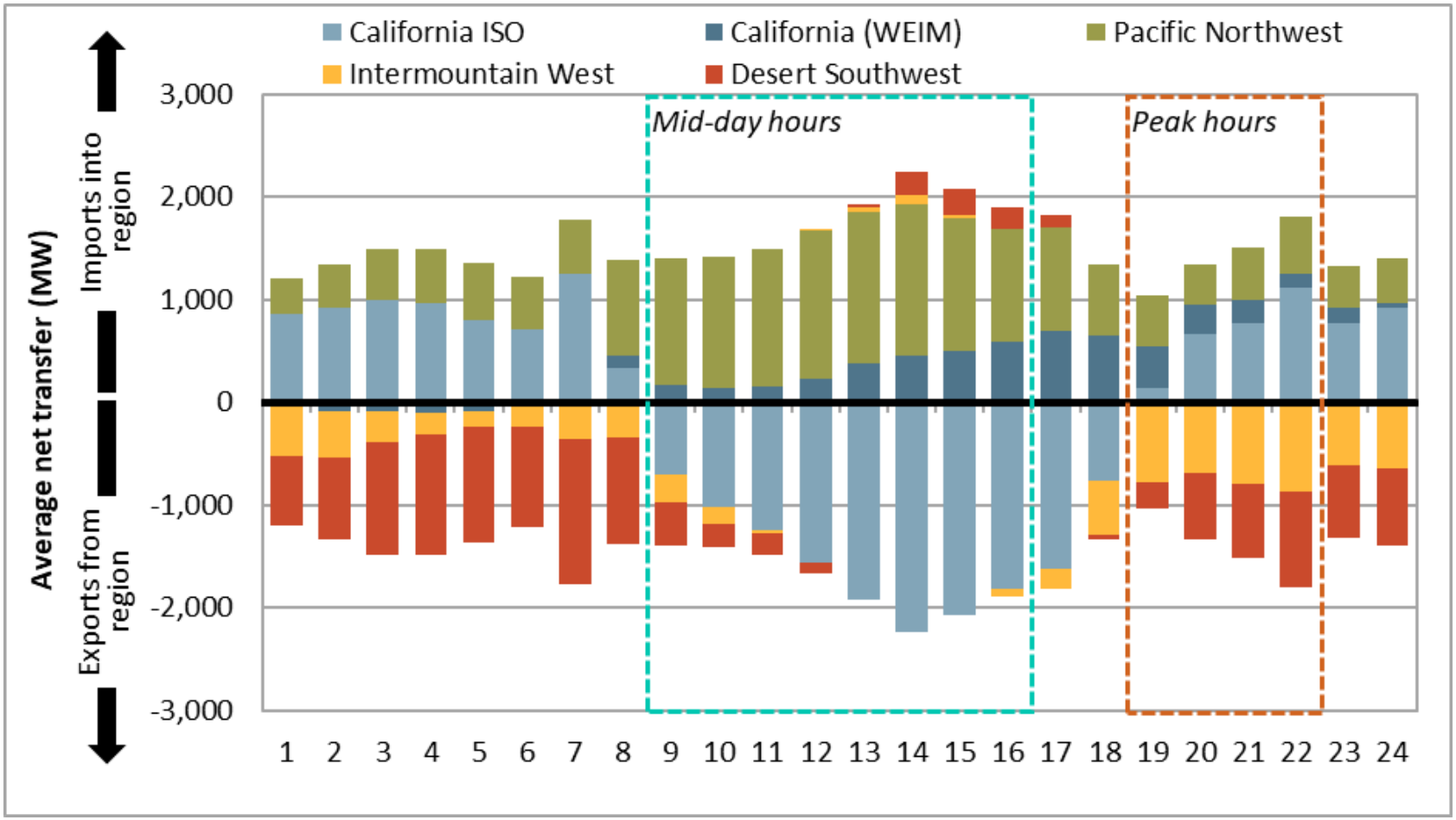
Bilateral day-ahead prices at Palo Verde higher than ISO market prices

Palo Verde bilateral day-ahead ICE vs. Desert Southwest 15-minute market prices (peak hours)



WEIM transfers from CAISO in mid-day hours and from Intermountain West and Desert Southwest in non-solar hours

Average dynamic inter-regional WEIM transfers by hour (5-minute market, July – September 2025)



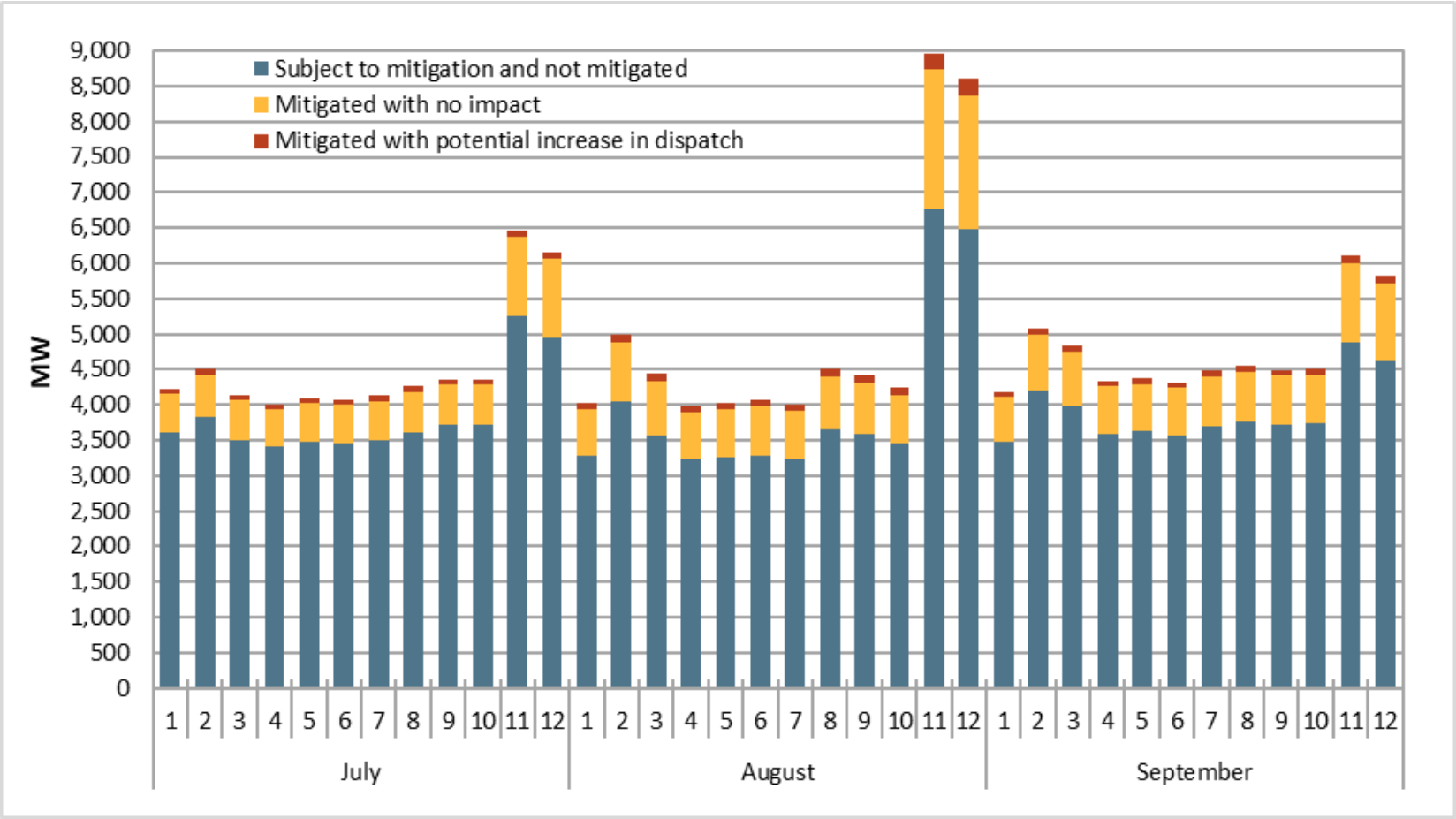
Assistance energy transfers increased WEIM transfers for 8 of the 10 entities that opted in

Resource sufficiency evaluation failures during assistance energy transfer opt-in (July – September 2025)

Balancing area	Days opted in to AET	RSE failures under AET (15-min. intervals)	Percent of failure intervals with additional WEIM imports due to AET	Average WEIM imports added (MW)	Max WEIM imports added (MW)	Total WEIM imports added (MWh)
Avangrid	92	15	36%	19	111	70
Balancing Authority of Northern California	92	0	N/A	N/A	N/A	N/A
California ISO	92	0	N/A	N/A	N/A	N/A
Idaho Power	92	3	67%	129	292	97
NorthWestern Energy	92	7	38%	12	66	21
NV Energy	62	4	25%	12	61	12
PacifiCorp East	92	12	47%	113	505	338
PacifiCorp West	92	35	45%	26	196	229
PSC of New Mexico	91	3	33%	19	67	14
WAPA Desert Southwest	92	36	13%	9	164	77

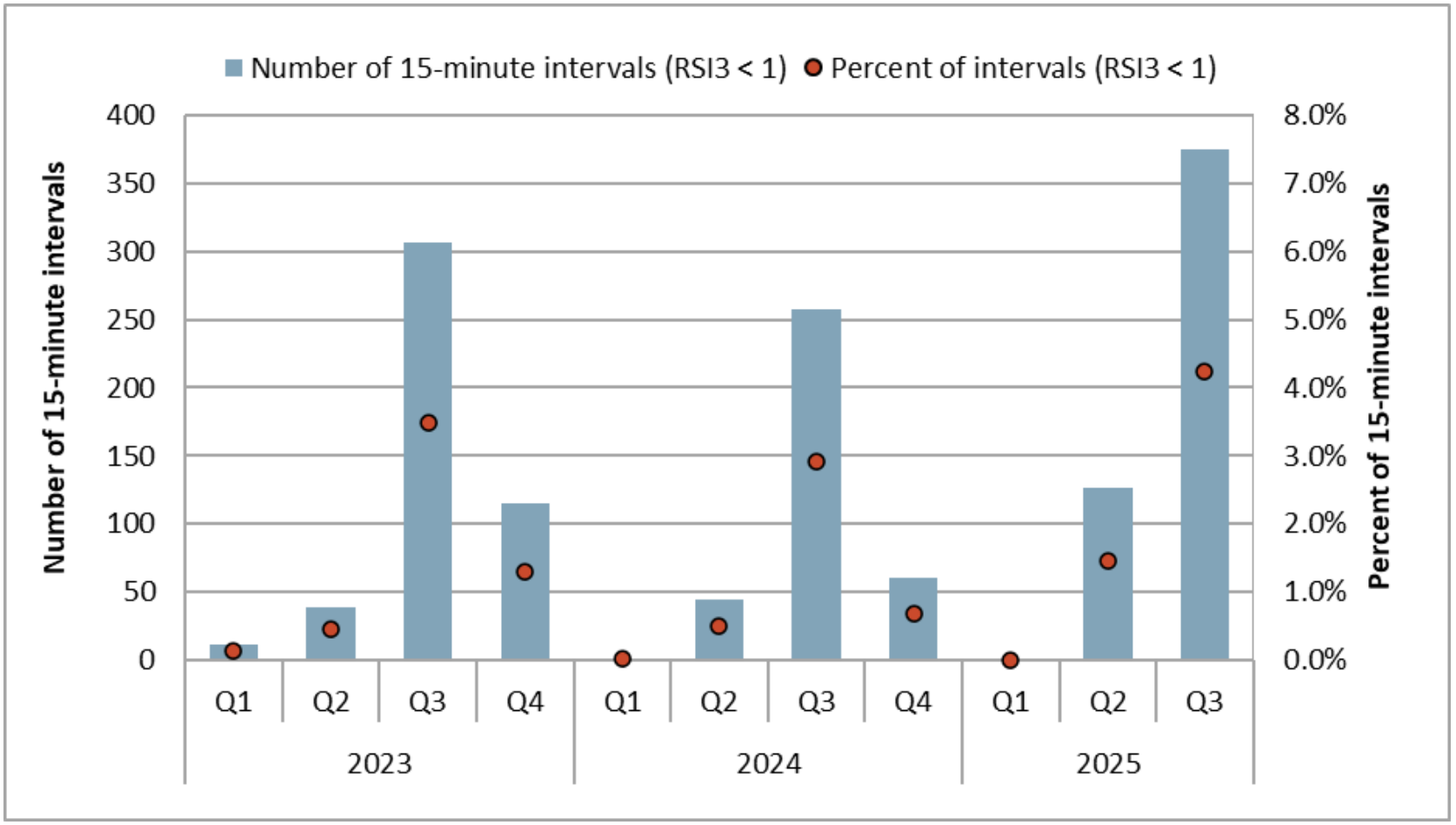
RTD mitigation implementation error increased dispatch of about 37 MW on average in intervals 11 and 12 from March 2021 to September 2025

Average incremental energy considered for mitigation in the 5-minute market by interval (WEIM, 2025)



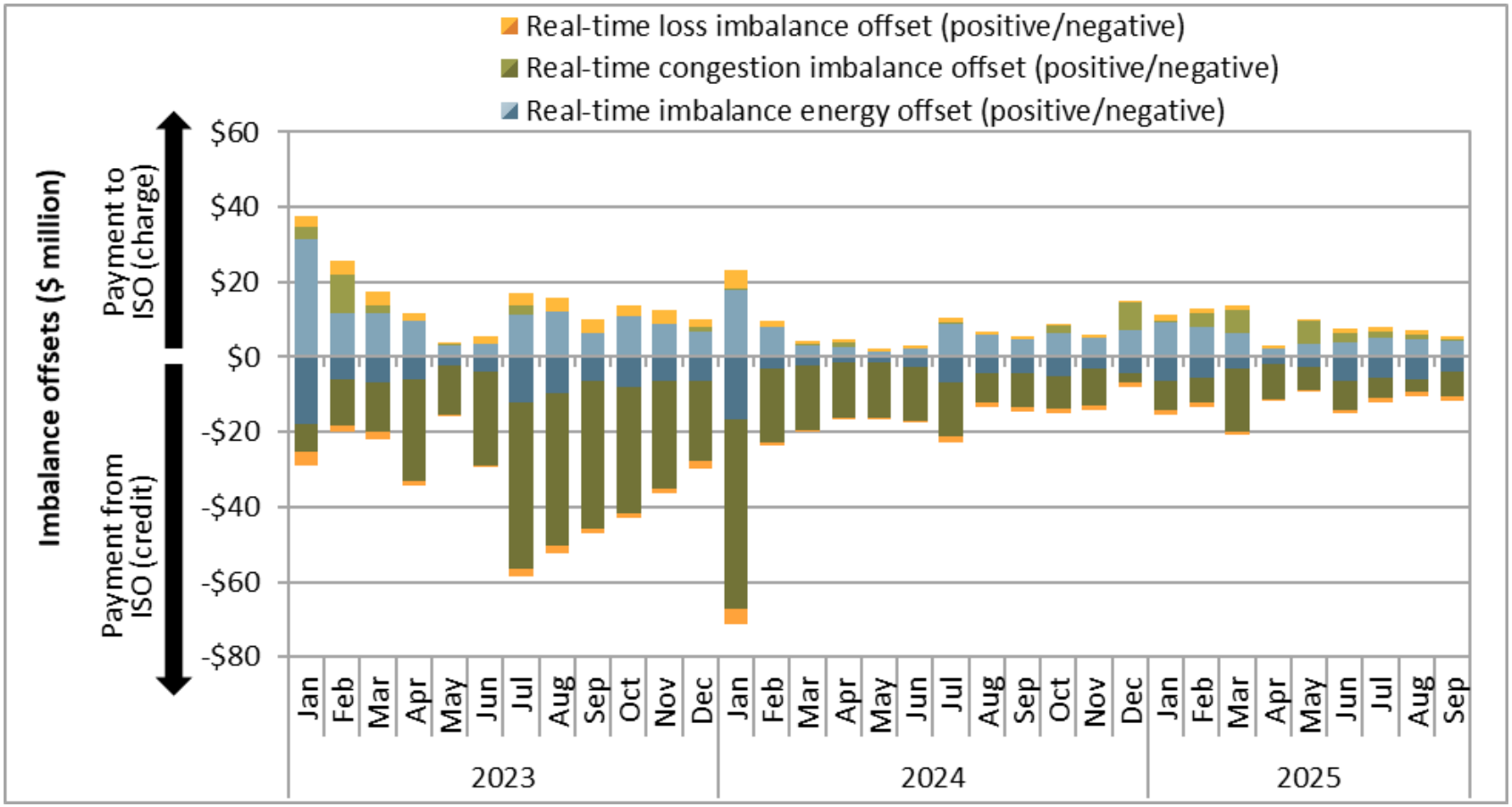
Real-time three pivotal supplier test for WEIM system finds 4.2% of 15-minute intervals uncompetitive

Intervals with failed three pivotal supplier test (greater WEIM system)



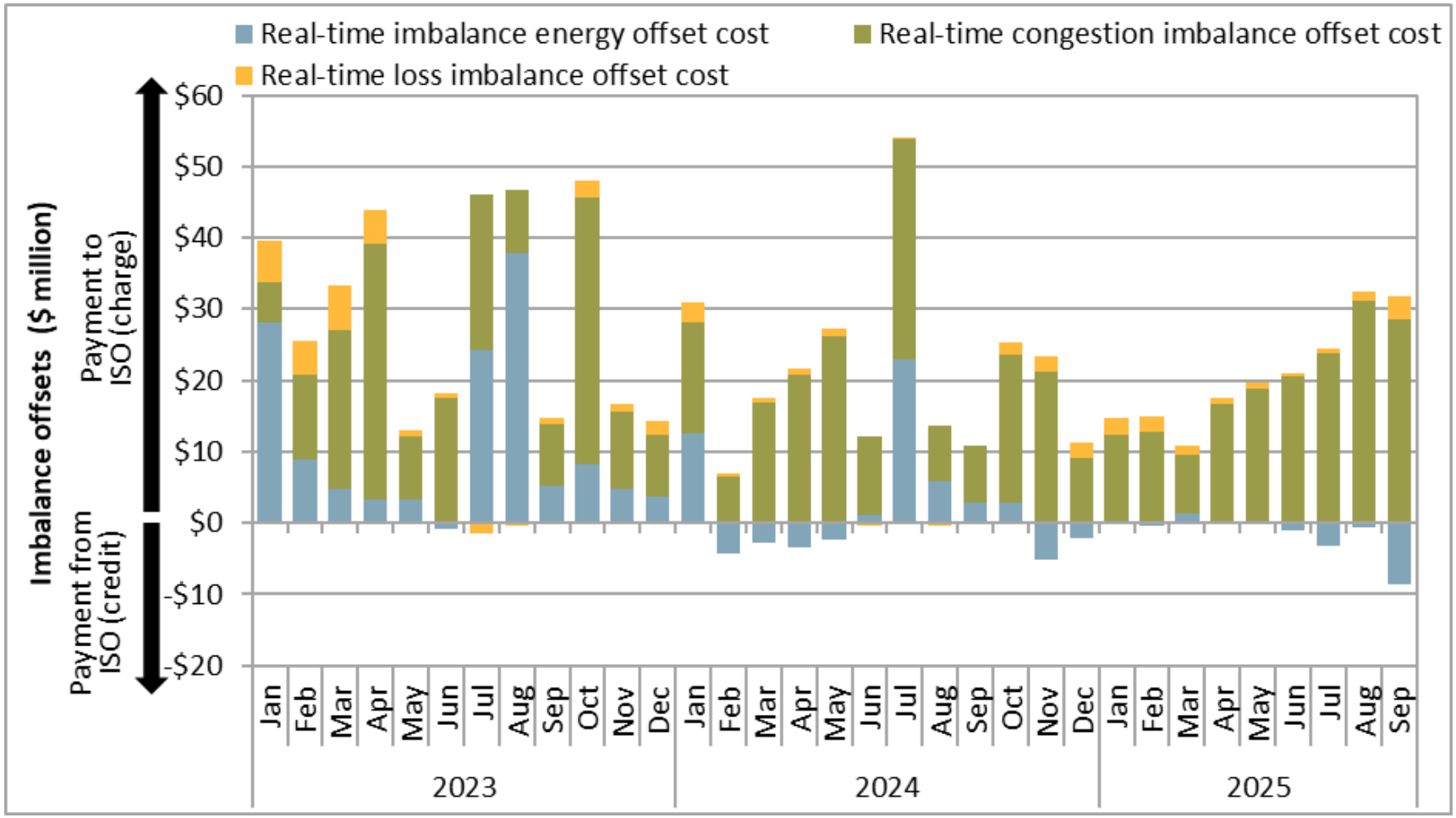
Real-time imbalance offset for balancing areas only in real-time markets was $14 million credit

Monthly real-time imbalance offset costs (balancing areas only in WEIM)



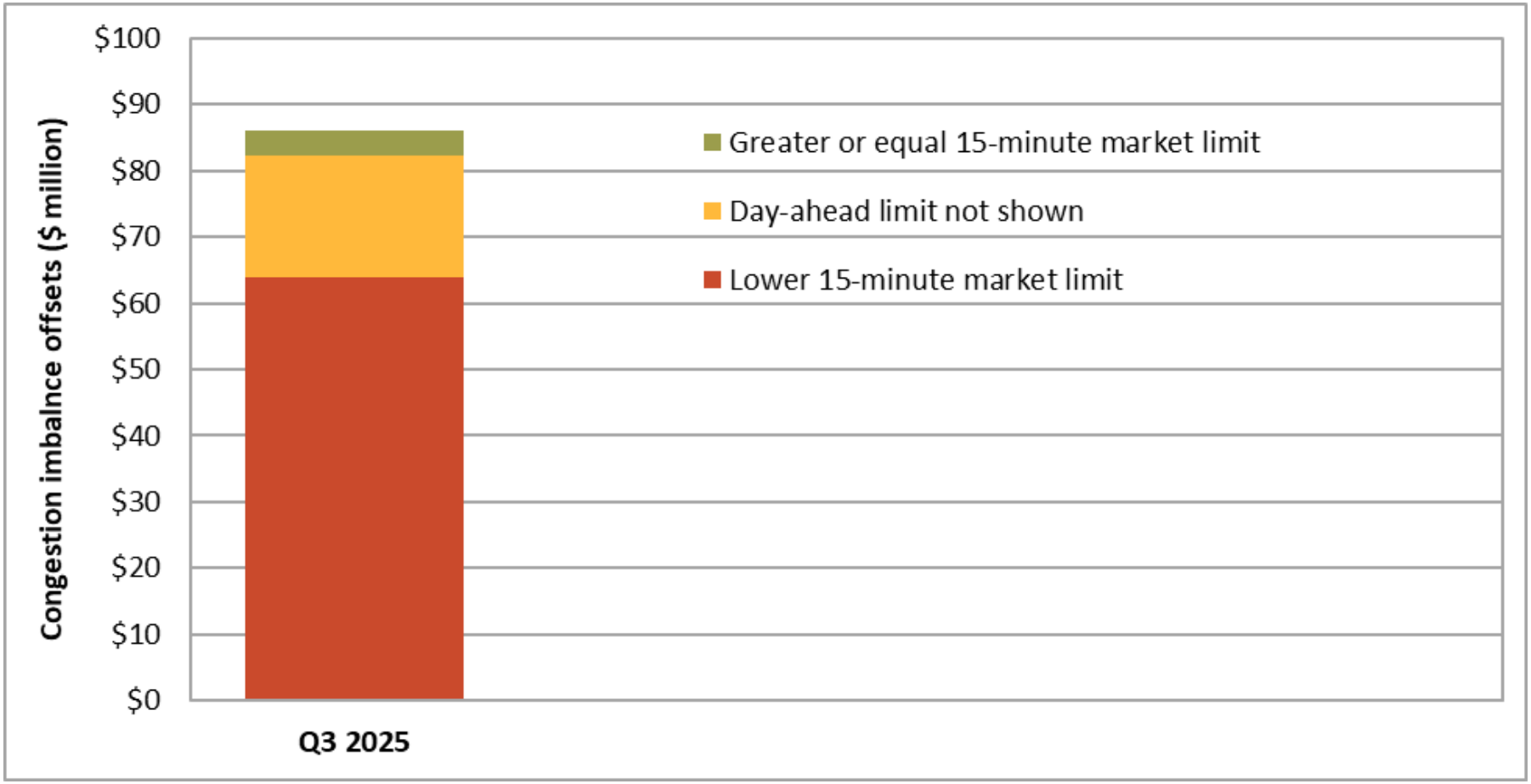
Real-time imbalance offset for balancing area in day-ahead market was $76 million charge

Monthly real-time imbalance offset costs (balancing areas in day-ahead market)



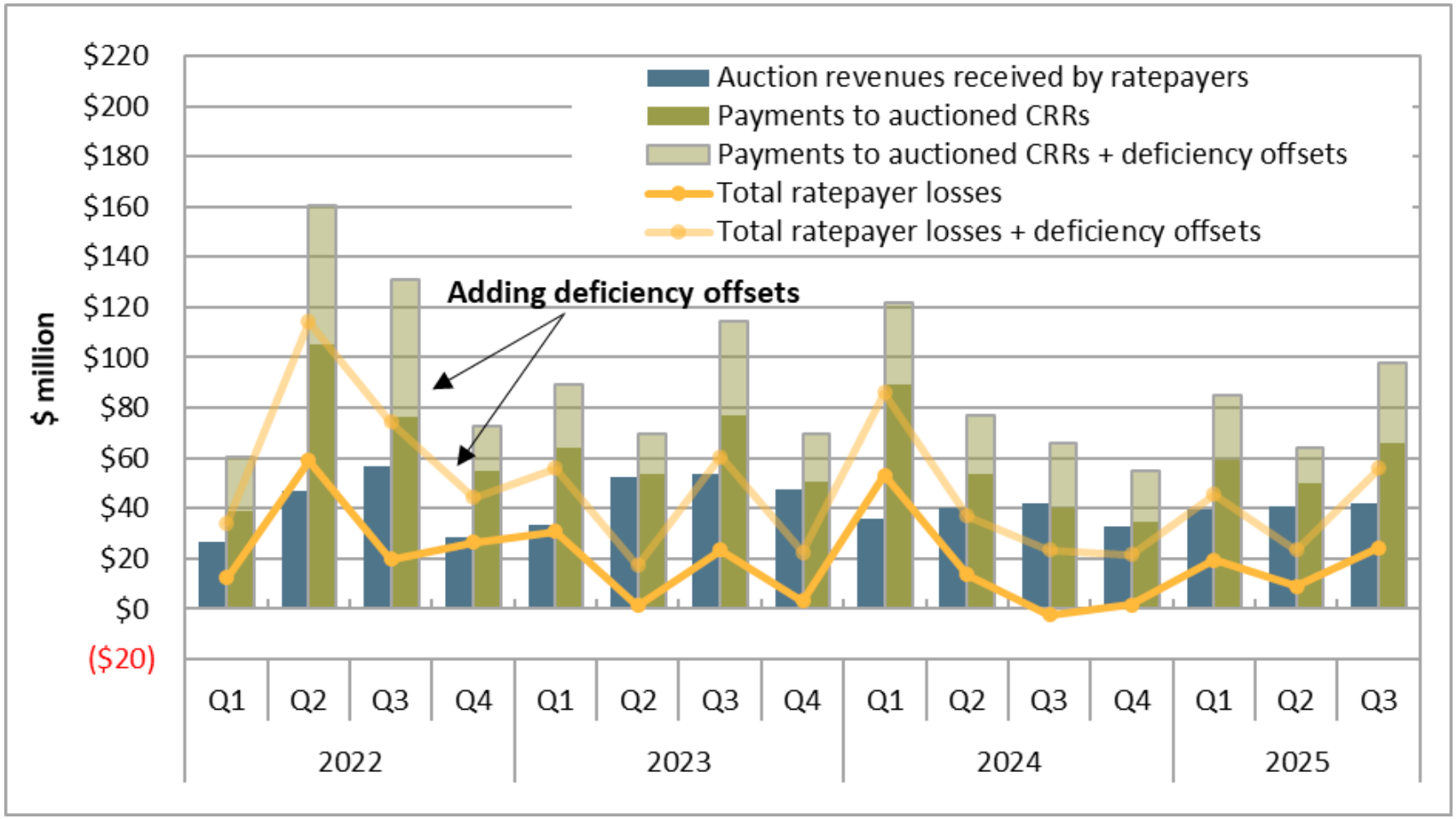
Congestion offset costs for day-ahead market BAs associated mainly with constraints with lower limits in 15-minute market than day-ahead

15-minute market congestion imbalance by comparison of 15-minute market constraint limit to day-ahead market constraint limit



Transmission ratepayers lost about $24.2 million from auctioned CRRs in Q3 2025

Auction revenues and payments to non-load serving entities



For more information …..

- Q3 2025 report on market issues and performance
  - https://www.caiso.com/documents/2025-third-quarter-report-on-market-issues-and-performance.pdf
- Department of Market Monitoring webpage
  - http://https://www.caiso.com/market-operations/market-monitoring
- CAISO Tariff, Appendix P
  - http://www.caiso.com/Documents/AppendixP_CAISODepartmentOfMarketMonitoring_asof_Apr1_2017.pdf
- Email questions to:
  - Ryan Kurlinski, rkurlinski@caiso.com
  - DMM, DMM@caiso.com