



California ISO

Western Energy Imbalance Market Benefits and Market Update Q2 2024

Guillermo Bautista Alderete

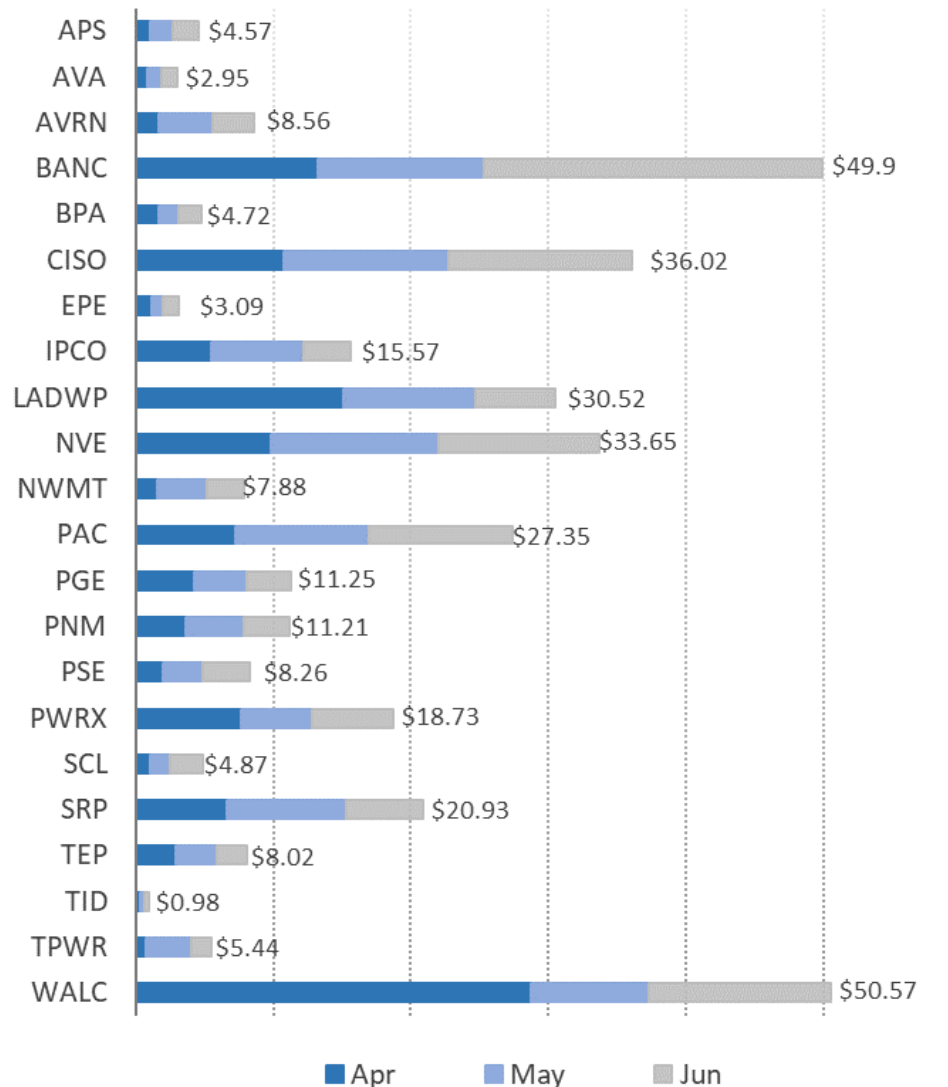
Director, Market Performance and Advanced Analytics

ISO Board of Governors

General Session

October 4, 2024

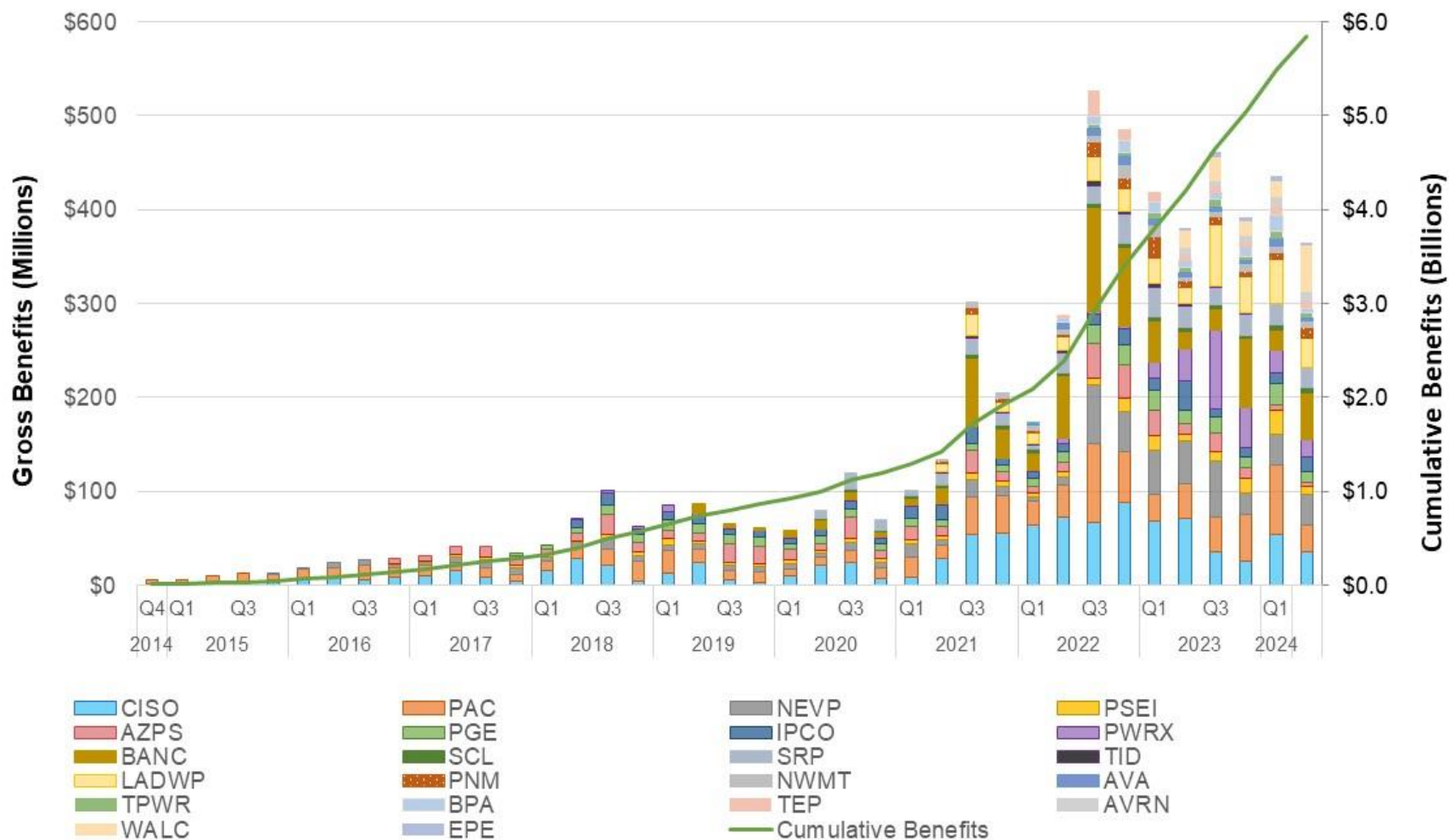
Economic benefits total \$365 million in Q2 2024



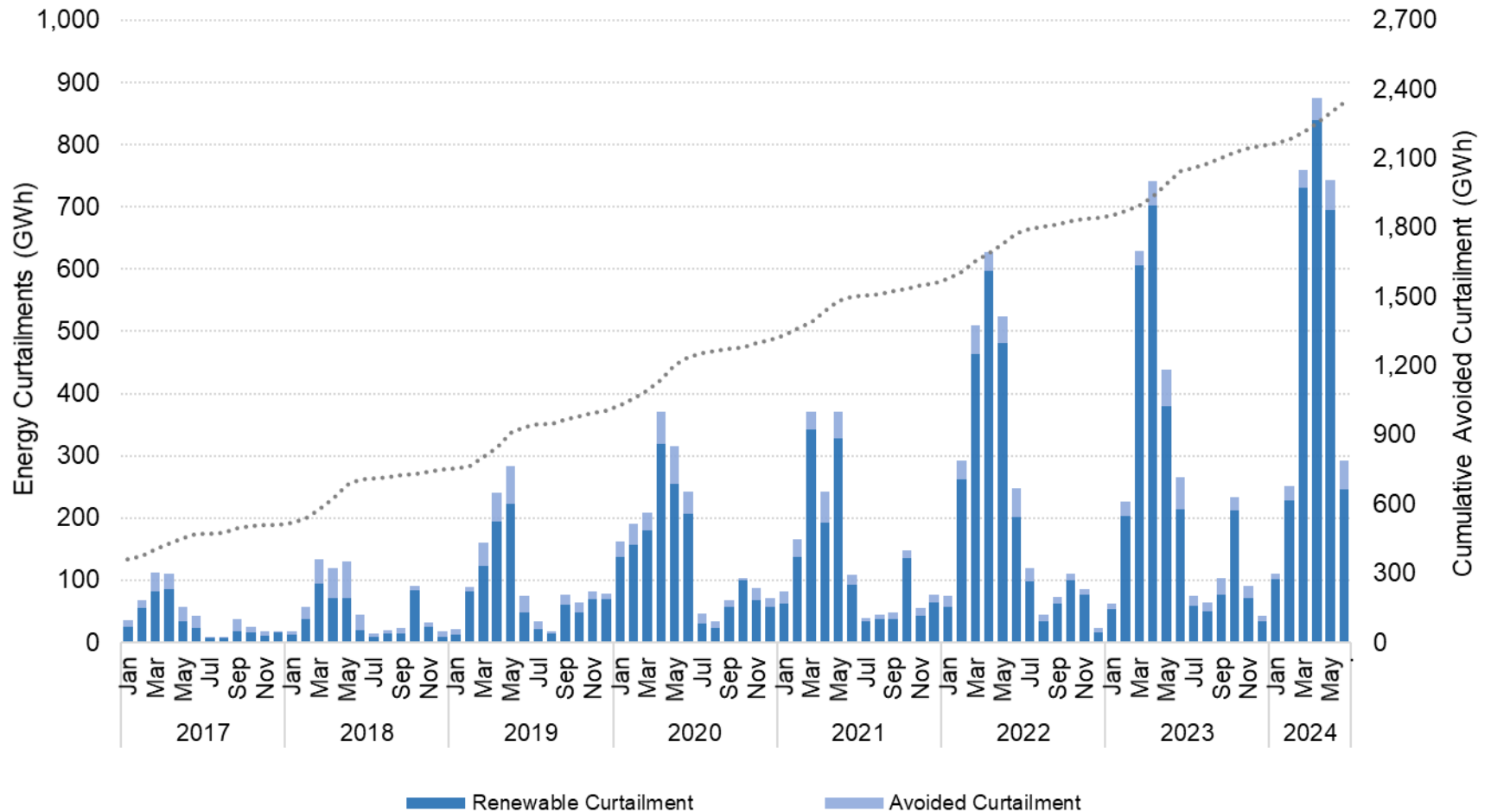
Gross economic benefits driven by:

- Wide footprint consisting of 22 balancing areas
- Economic transfers among areas
- Energy prices and economic displacement of high-value energy

\$5.85 billion cumulative benefits through Q2 2024

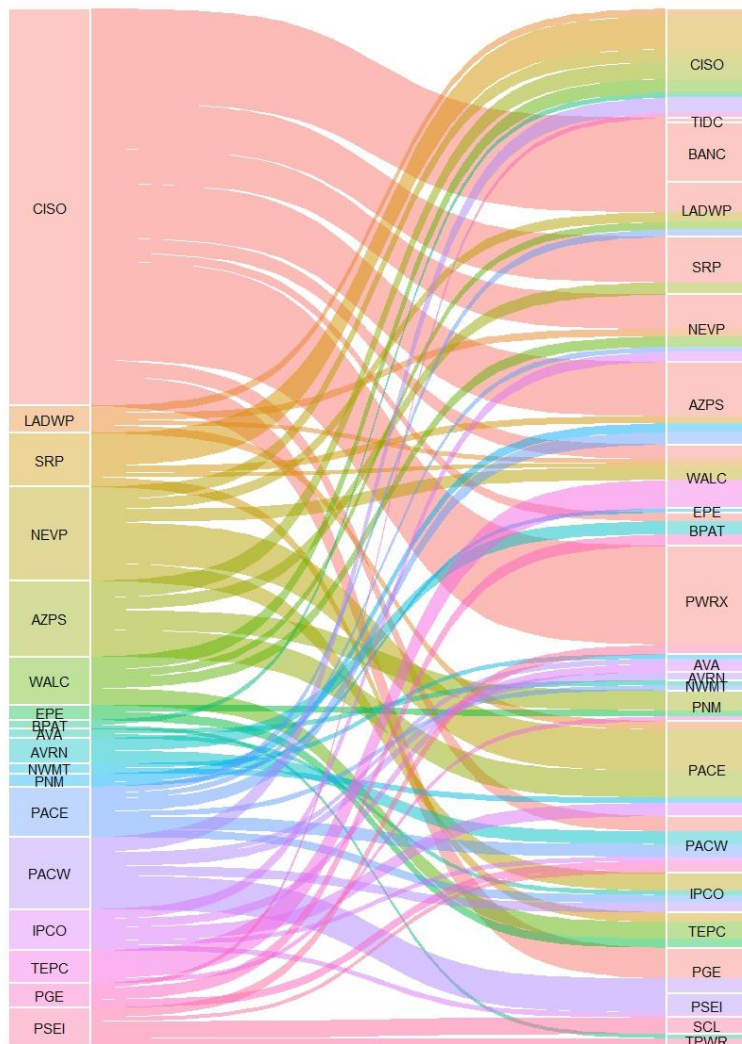


WEIM continues to avoid renewable curtailment



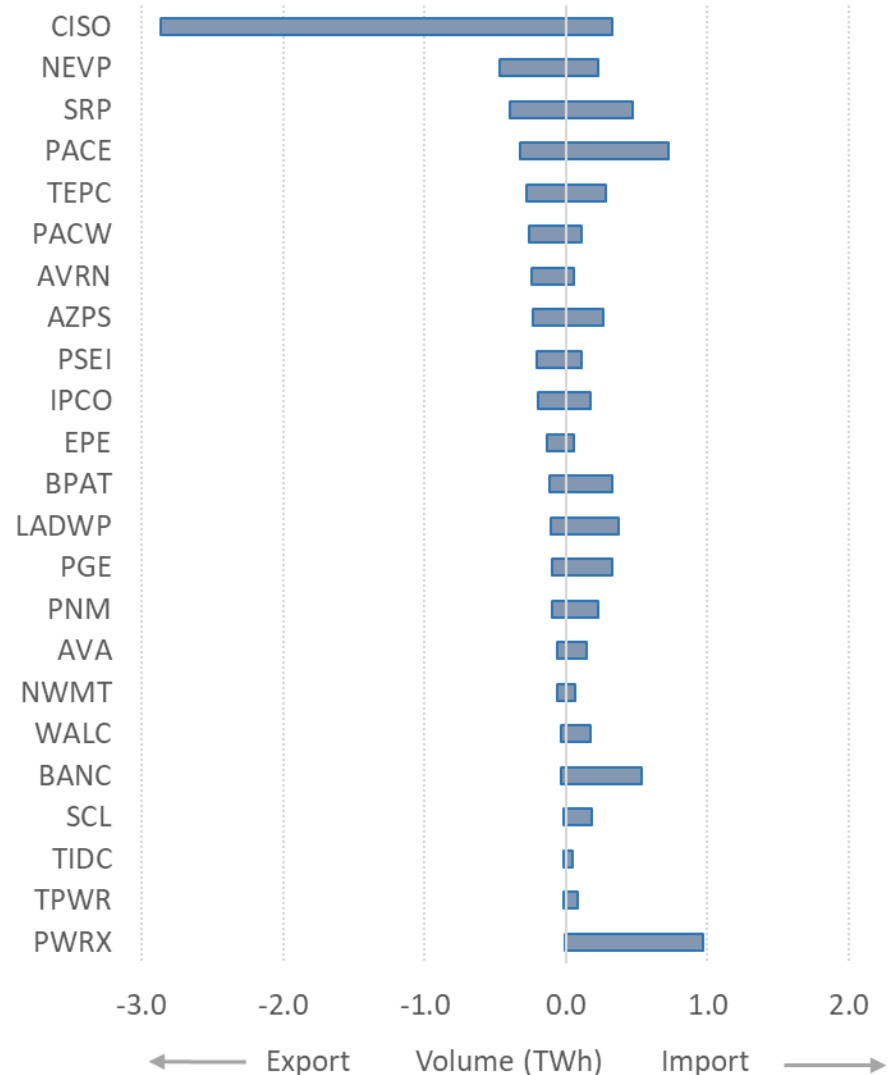
Avoided curtailments since 2015 represent a reduction of 1,007,291 equivalent tons CO₂

WEIM transfers were substantial in Q2 2024

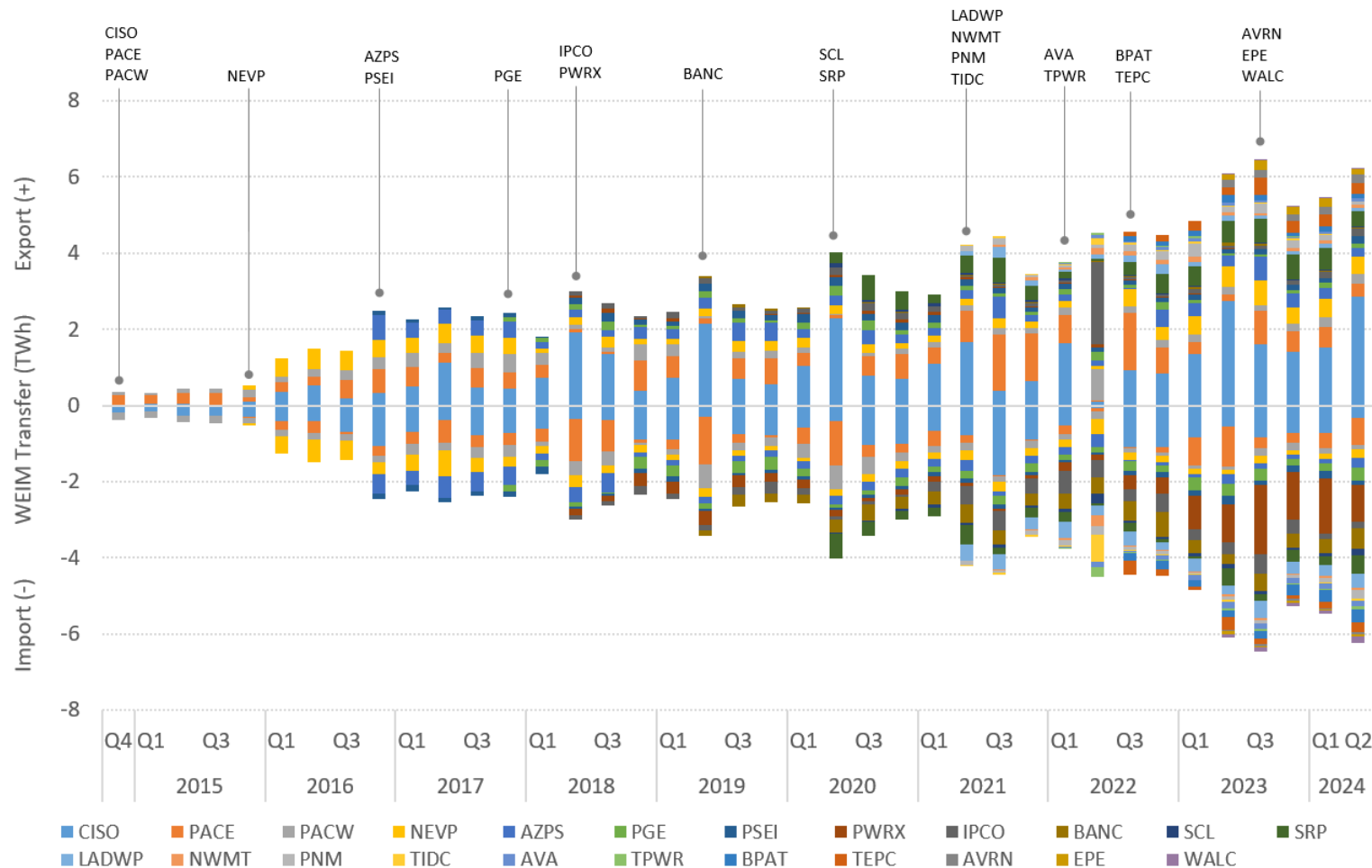


FROM area

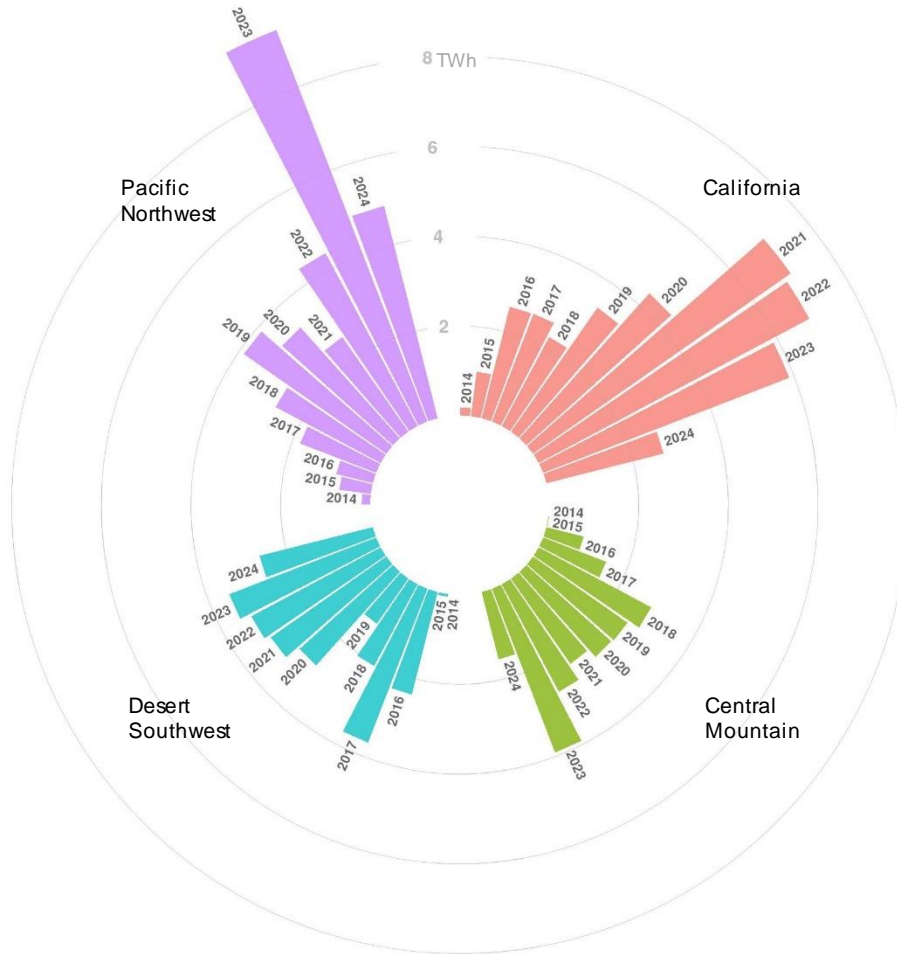
TO area



Expansion of the western energy imbalance market has unlocked increasing volumes of economic transfers



Economic transfers have opened access to the regional and fuel diversity of the West



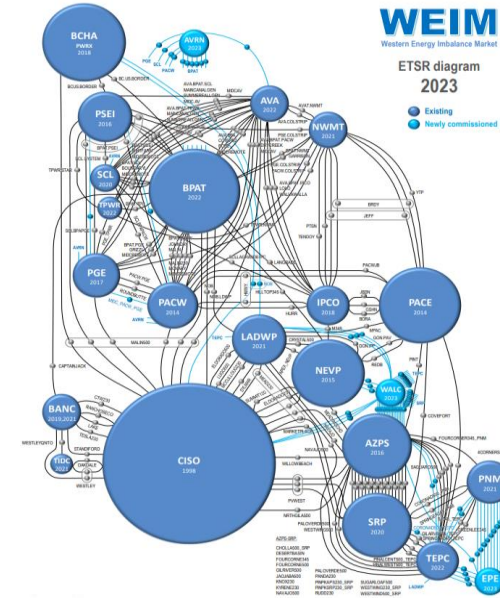
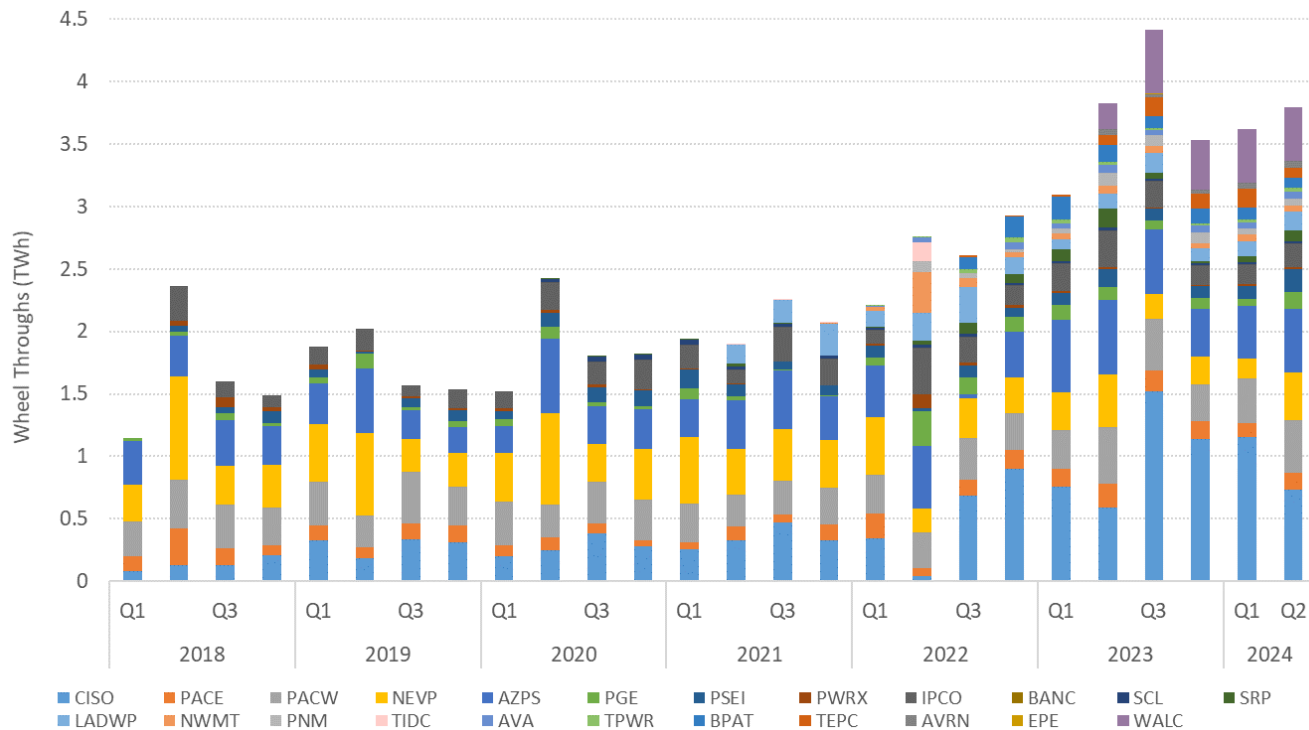
Imports



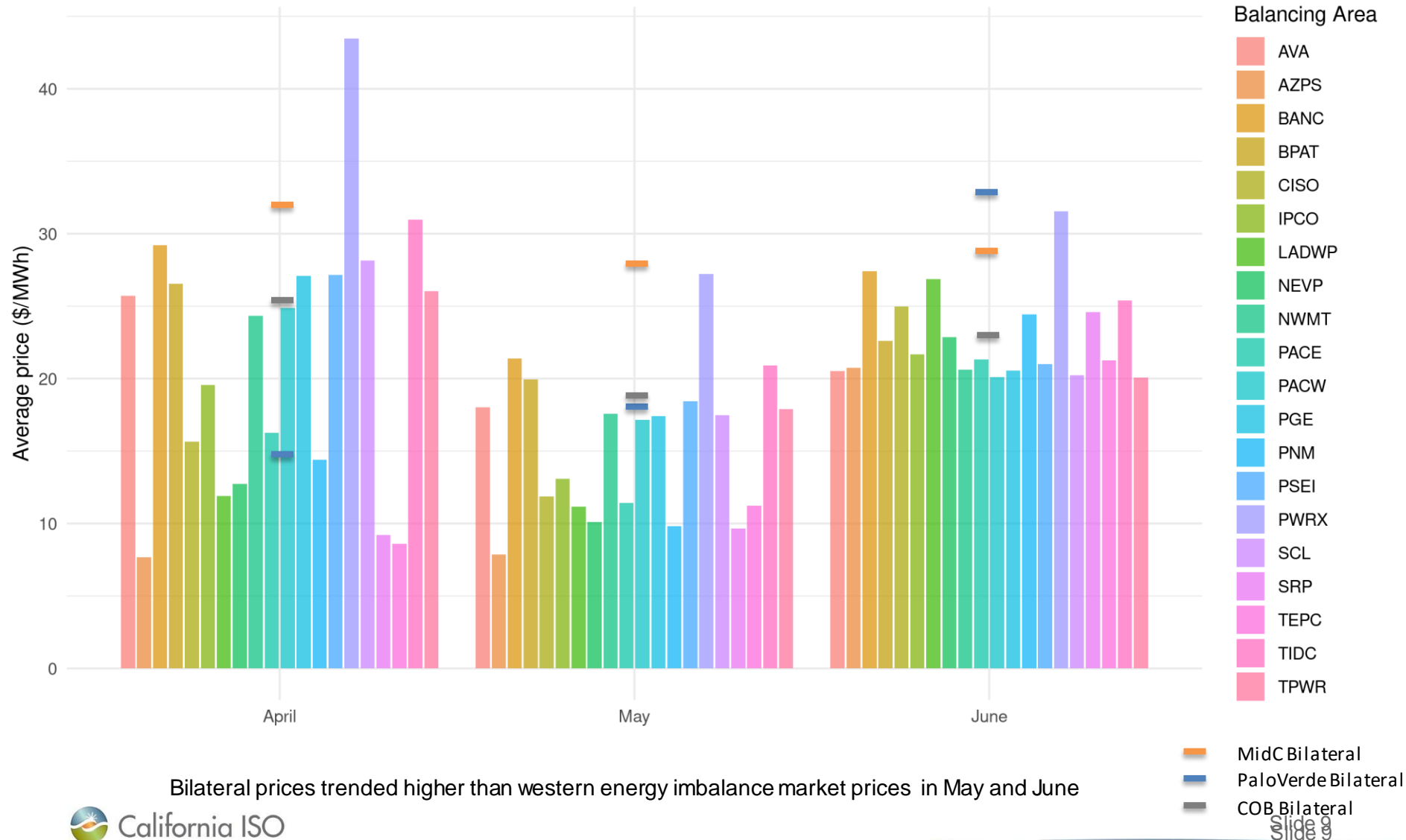
Exports

With more entities integrated into the market, wheeling has enabled more economic transfers

Wheel-through transfers in the western energy imbalance market

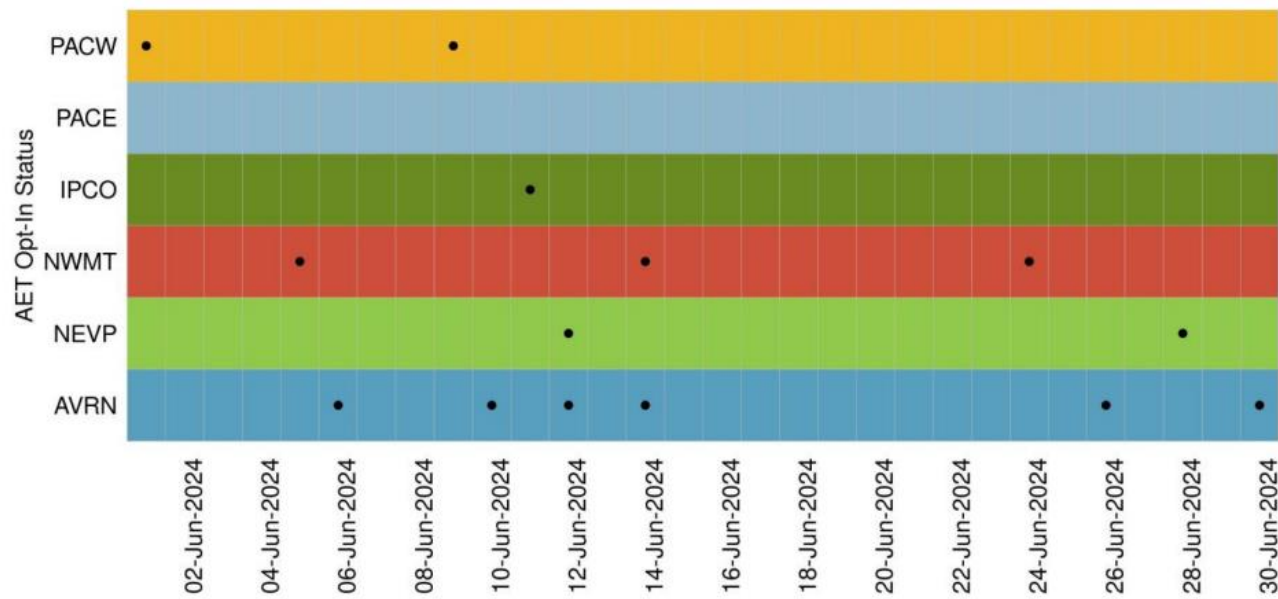


Prices were generally stable in Q2 2024



The WEIM facilitated balancing area access to assistance energy transfers, providing operational benefits

- Six WEIM balancing areas opted into the assistance energy transfer (AET) program in June
- The AET program allows areas to receive energy transfers when they do not meet resource sufficiency requirements
- The total AET surcharges assessed in June were approximately \$72,000 for all the BAAs



• RSE Failure