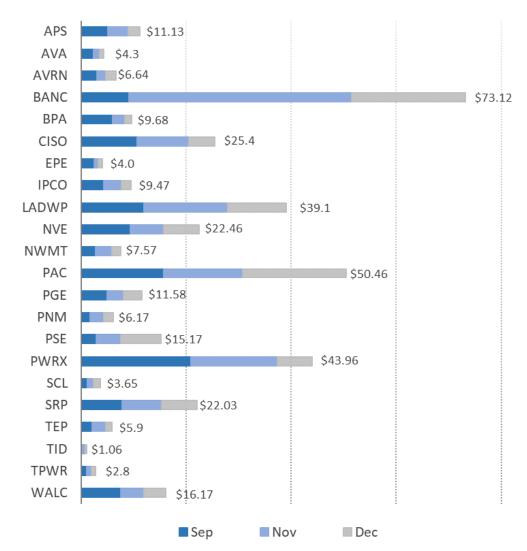


Western Energy Imbalance Market Benefits and Market Update Q4 2023

Guillermo Bautista Alderete
Director Market Performance and Advanced Analytics

ISO Board of Governors meeting General Session February 7, 2024

Economic benefits total \$391.82 million in Q4 2023

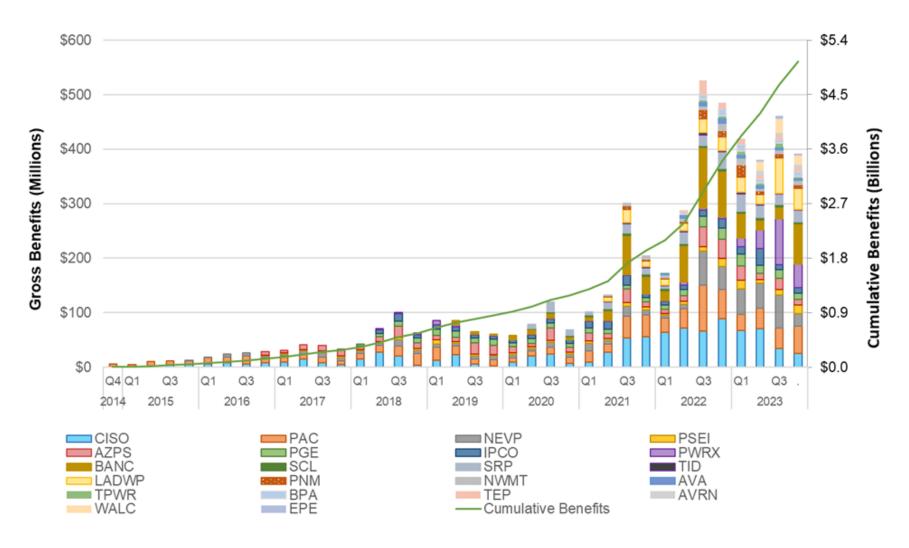


Gross economic benefits driven by:

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

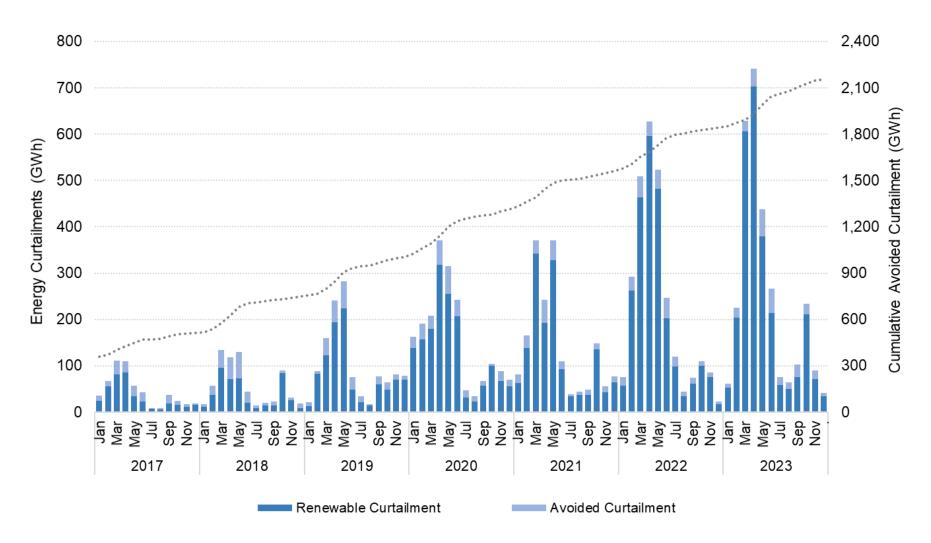


\$5.05 billion cumulative benefits through Q4 2023





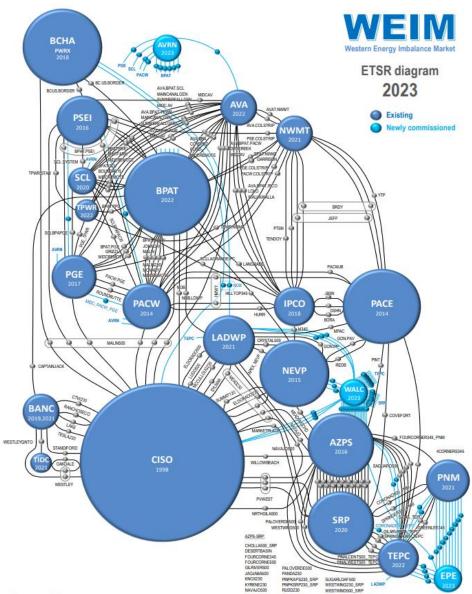
The WEIM continues to reduce renewable curtailment



Avoided curtailment since 2015 represent a reduction of 925,568 equivalent tons CO₂

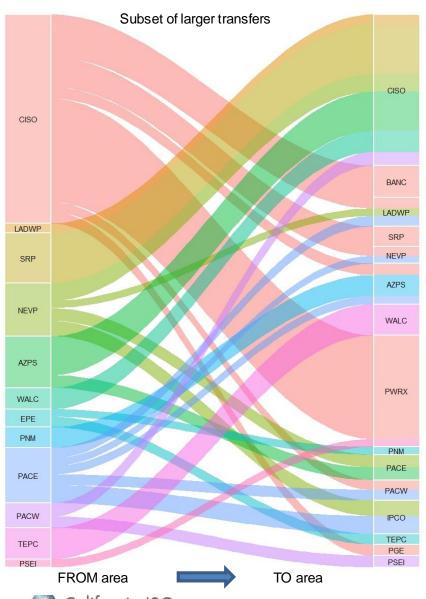


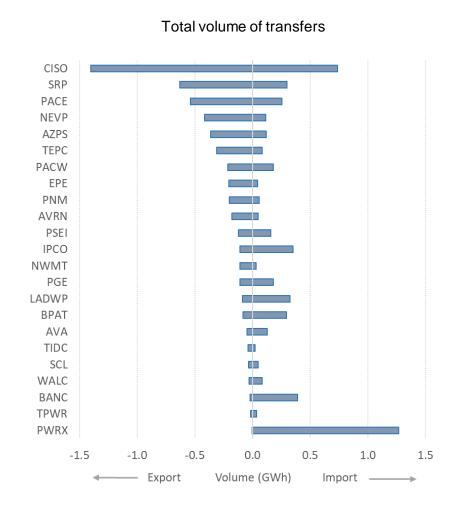
Onboarding new entities added transfer capacity





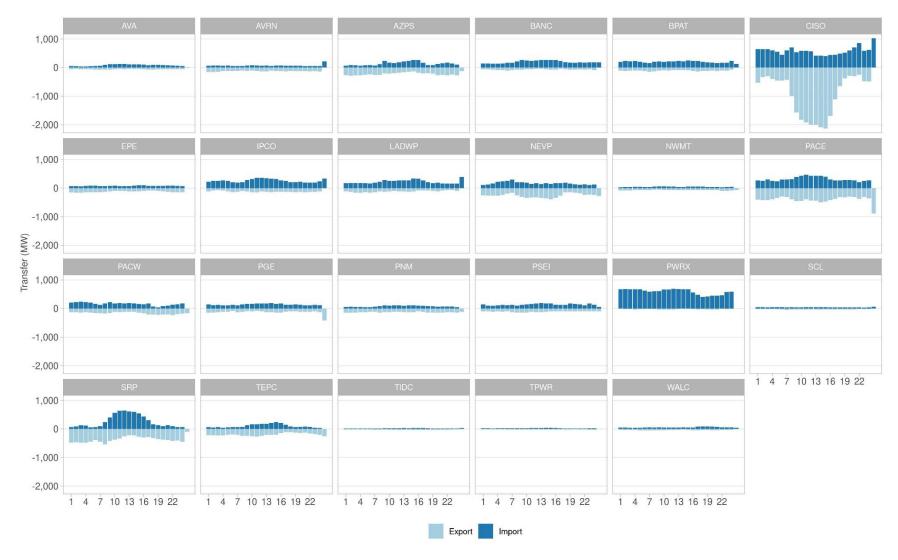
WEIM transfers were substantial in Q4 2023







WEIM transfers in Q4 2023 tracked solar production





Prices trended down with bilateral prices through December

