

# WESTERN ENERGY IMBALANCE MARKET

## EIM benefits and implementations update

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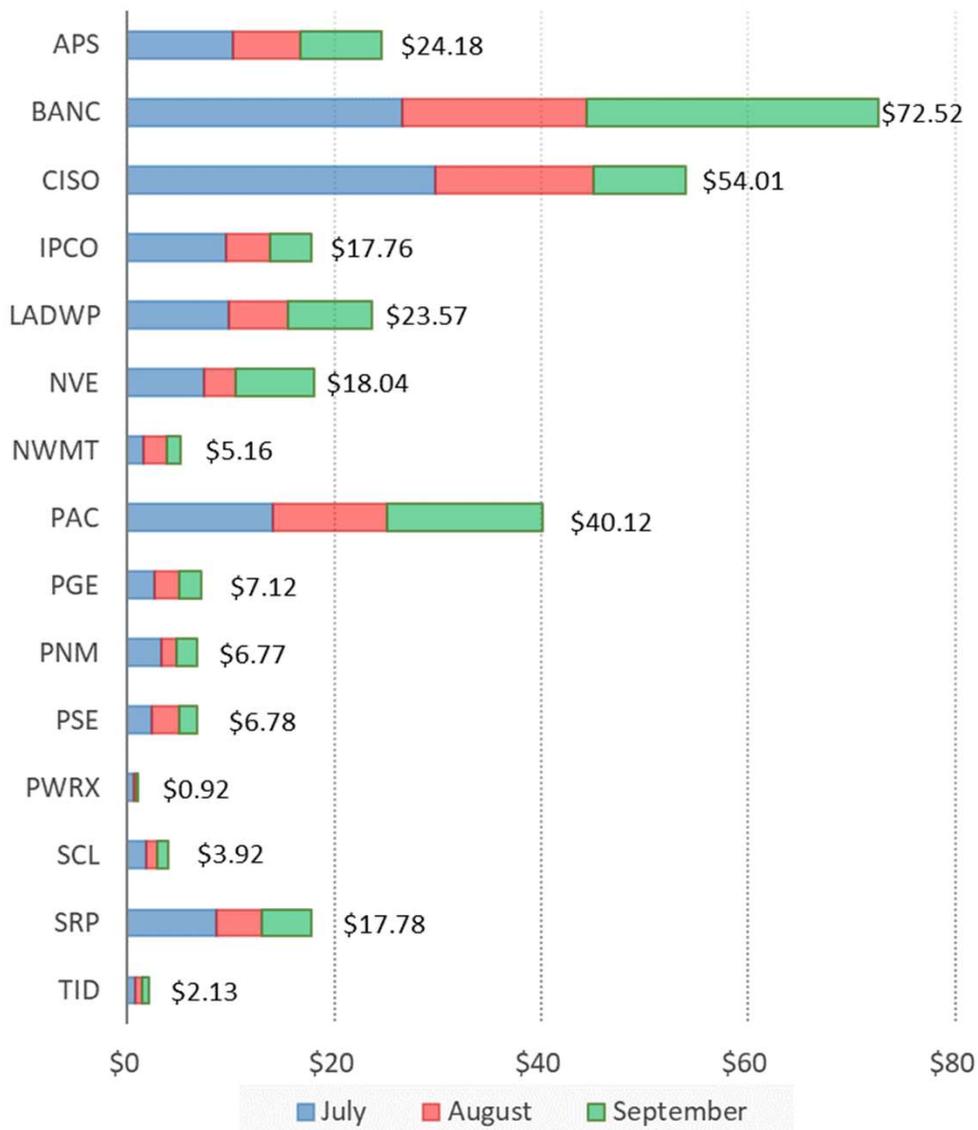
Board of Governors  
General Session  
December 17, 2021



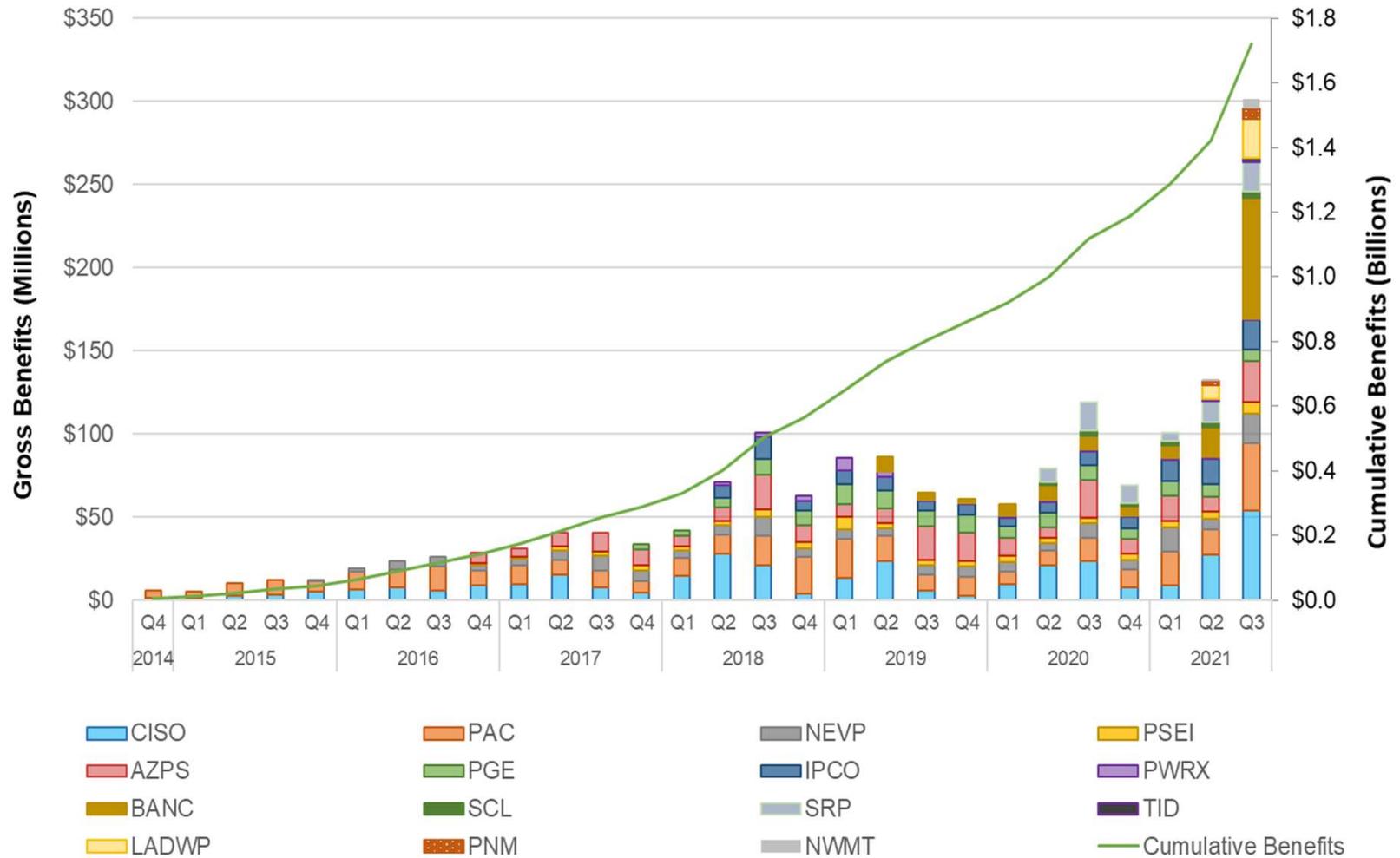
# \$301.18 million gross economic benefits in Q3 2021

Record level of gross economic benefits driven by:

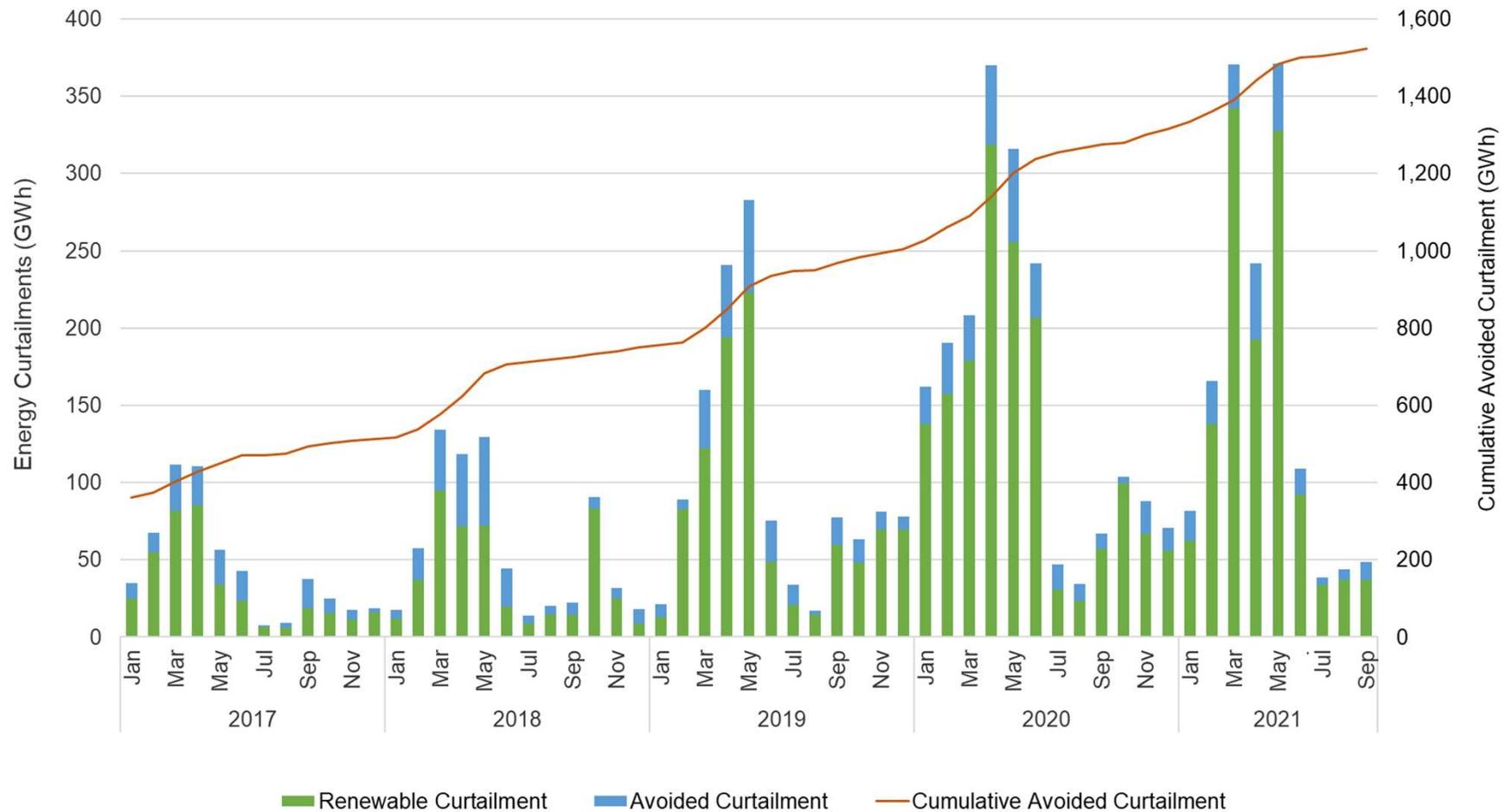
- Participation of five additional EIM entities
- Economic transfers among areas
- Displacement of highly-valued supply



# Cumulative benefits through Q3 2021 reached \$1.72 Billion

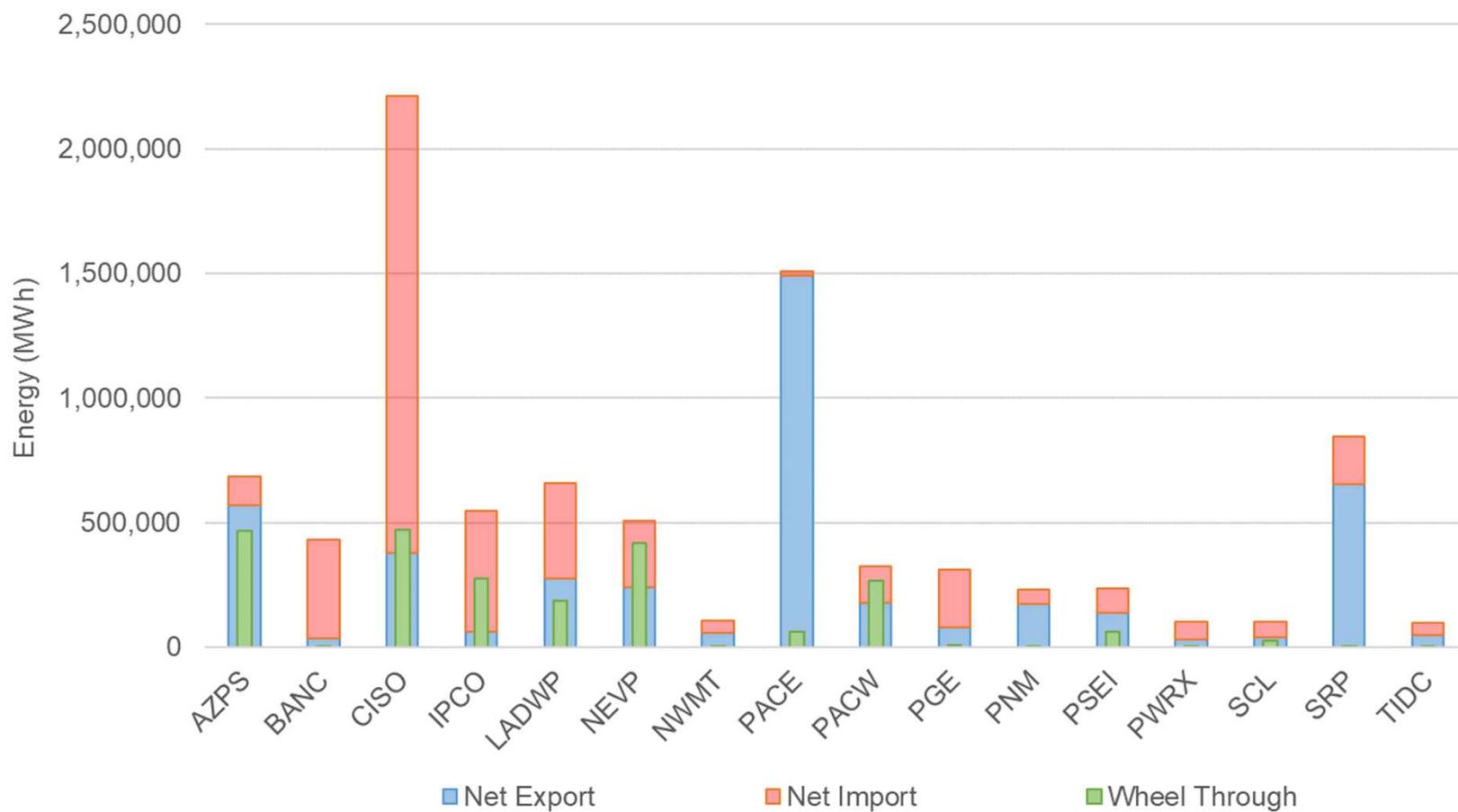


# Energy imbalance market helps reduce curtailments

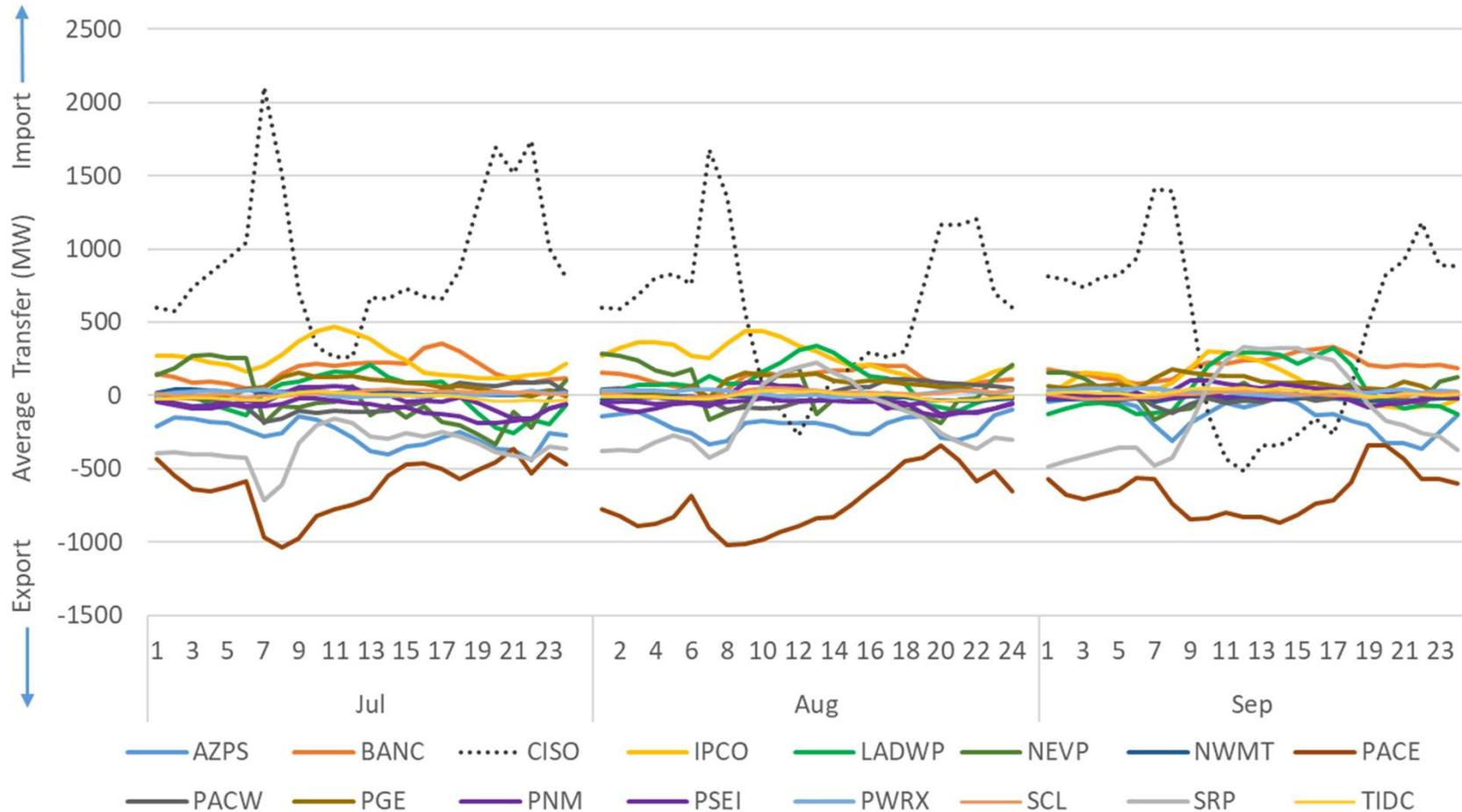


Avoided curtailments since 2015 represent a reduction of 655 equivalent Tons CO<sub>2</sub>

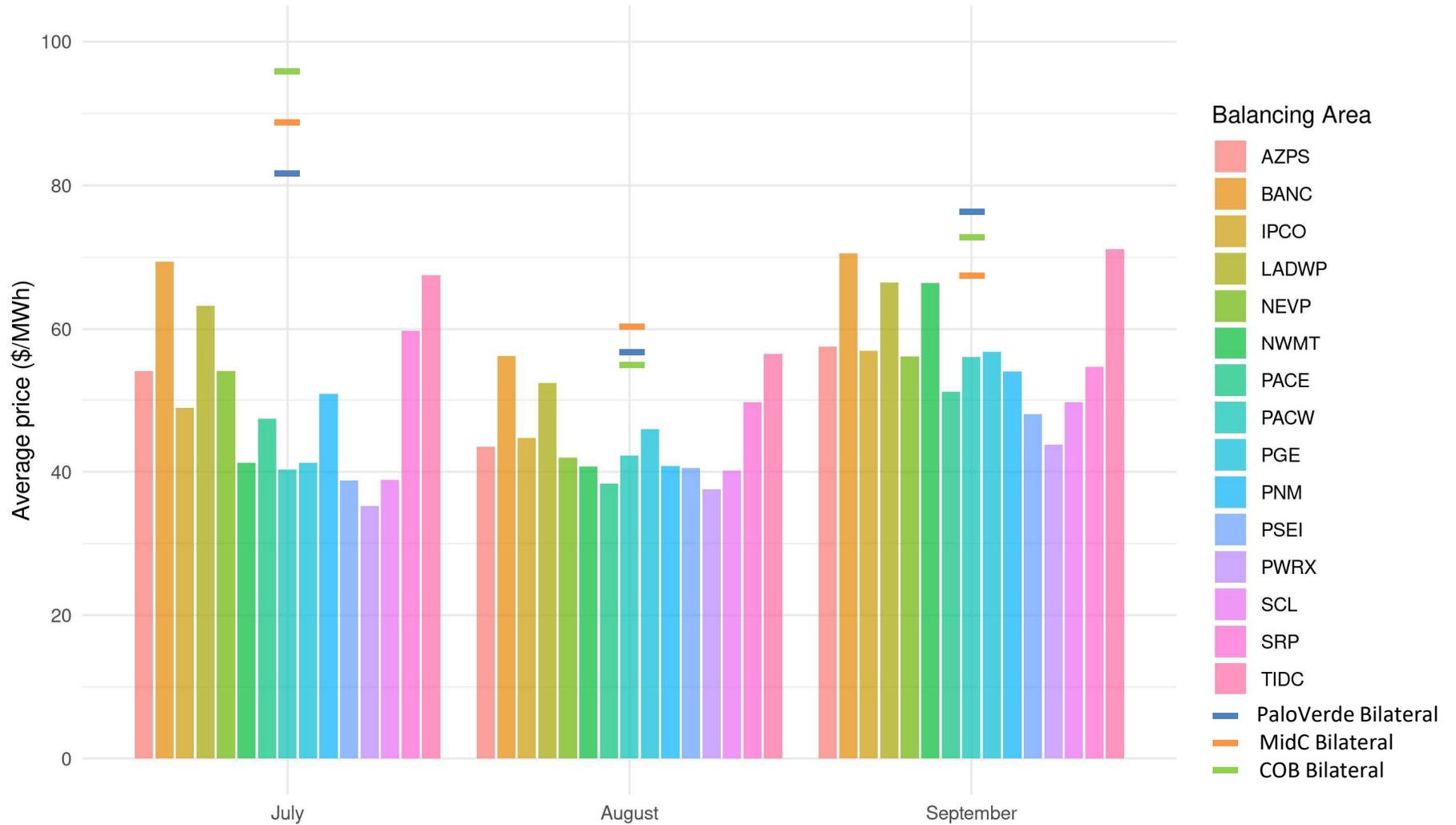
# Volumes of wheel-through EIM transfers in Q3 2021 were generally lower than EIM imports/export volumes



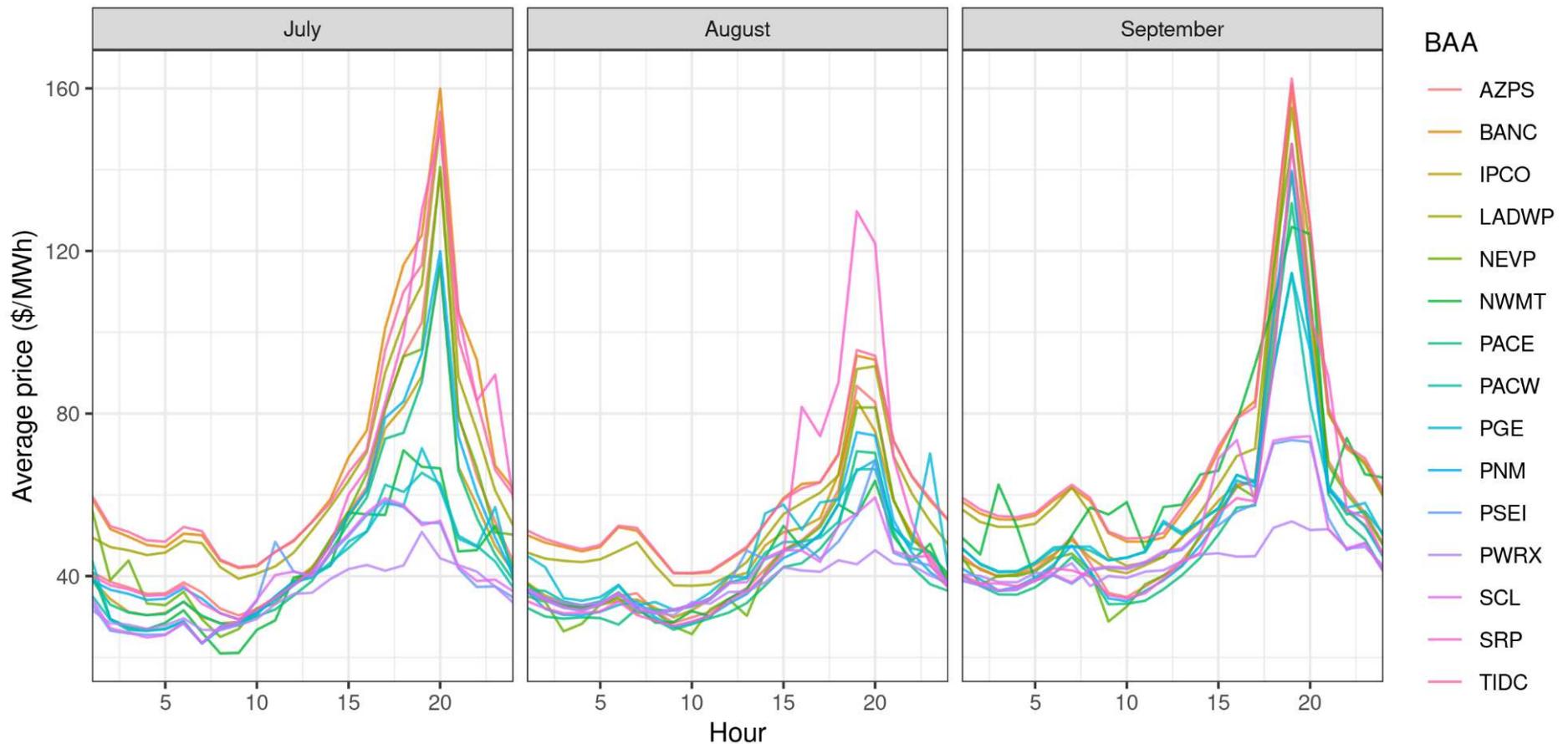
# Robust energy transfers in Q3 2021 with changing patterns in September



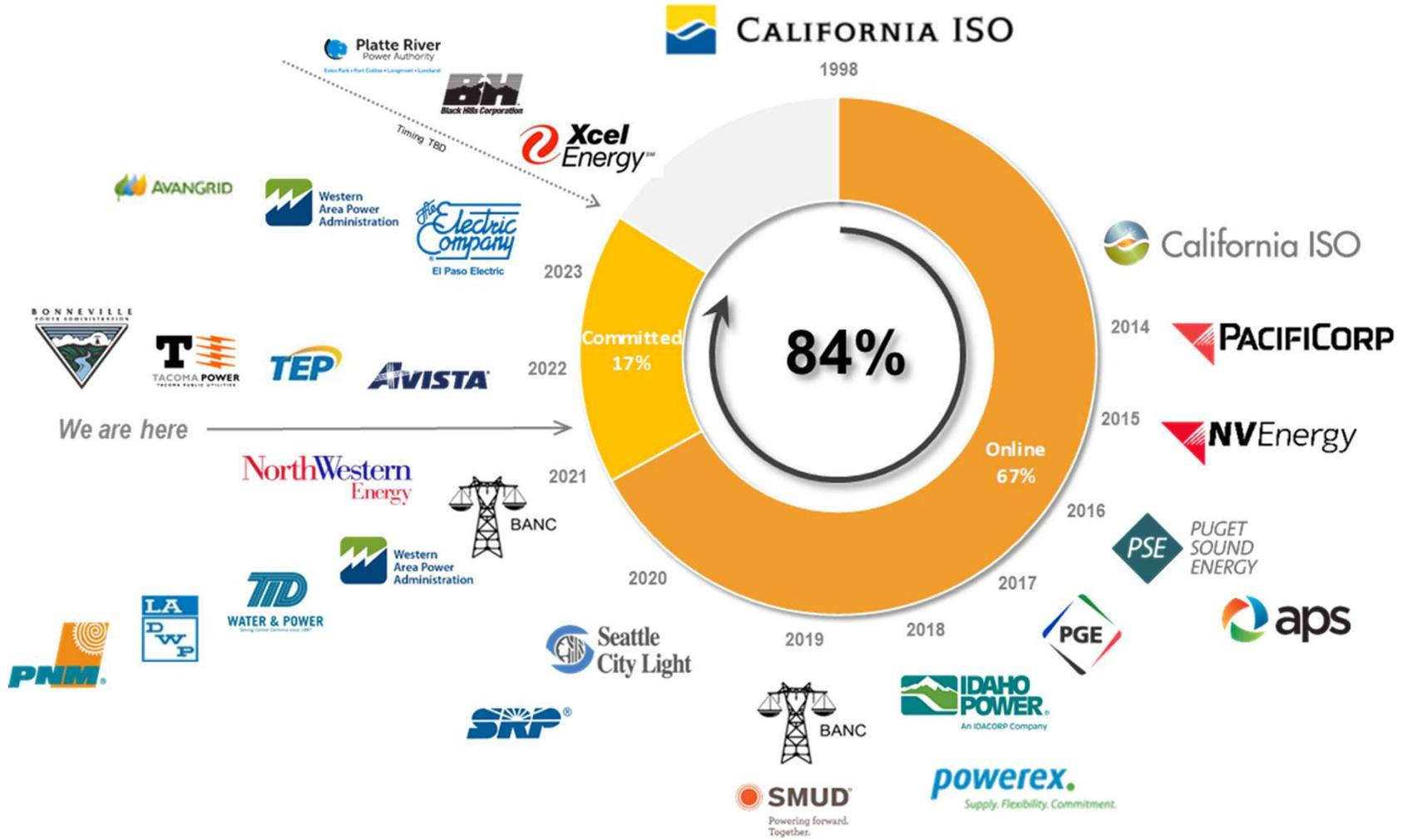
# Summer months saw higher average prices given tight supply conditions across the West



# Hourly average prices trend reflects summer conditions with high prices during peak hours



# EIM Implementation Status



# EIM On-boarding update

- 2022 EIMs On-boarding status
  - Parallel operation started on 12/1/2021, targeting production on 3/2/2022
    - Avista Utilities
    - Bonneville Power Administration
    - Tacoma Power
  - Market sim started, targeting parallel operation on 2/1/2022, production on 4/1/2022
    - Tucson Electric Power
  
- 2023 EIMs On-boarding status – production 4/5/2023
  - SC applications, initial data submissions, physical meter assessment forms, train-the-trainer workshop registration
    - Avangrid
    - El Paso Electric
    - Western Area Power Administration - Desert South West