

WESTERN ENERGY IMBALANCE MARKET

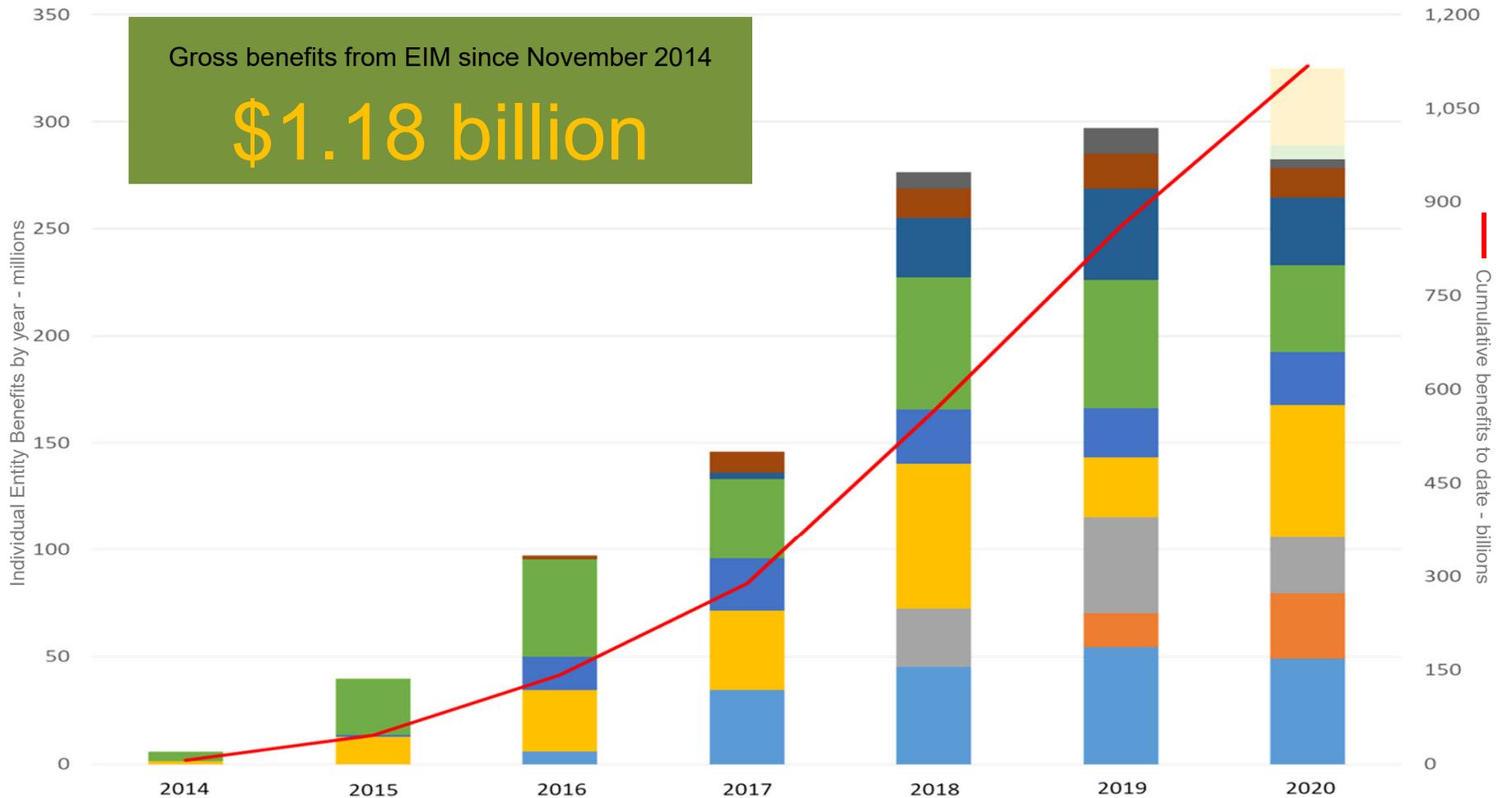
Briefing on western energy imbalance market and benefits

Guillermo Bautista Alderete, Director – Market Analysis and Forecasting

EIM Governing Body Meeting
General Session
March 10, 2021



\$68.86 million gross economic benefits – 2020 4th Qtr.



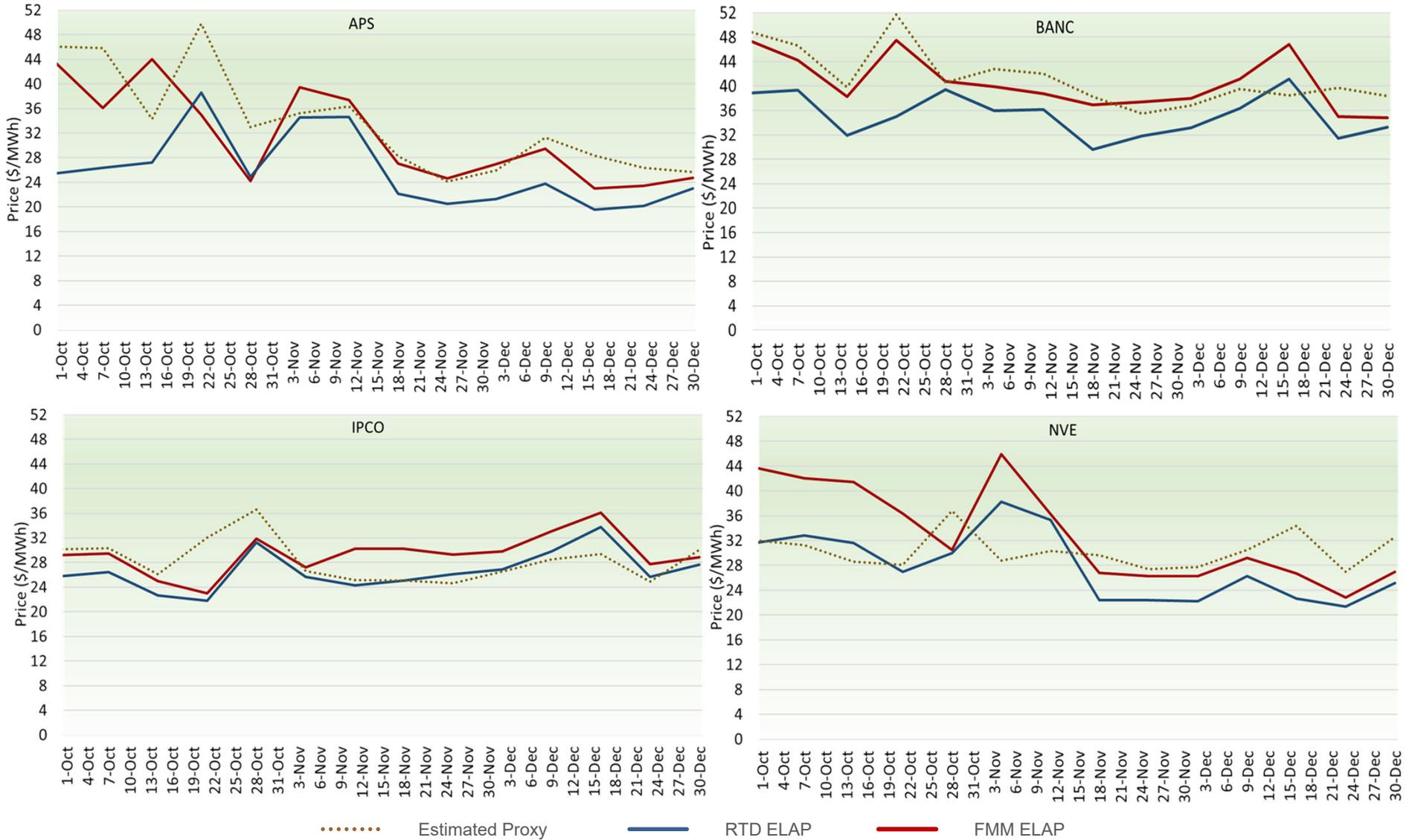
Individual Entity Benefits for 4th Quarter - millions



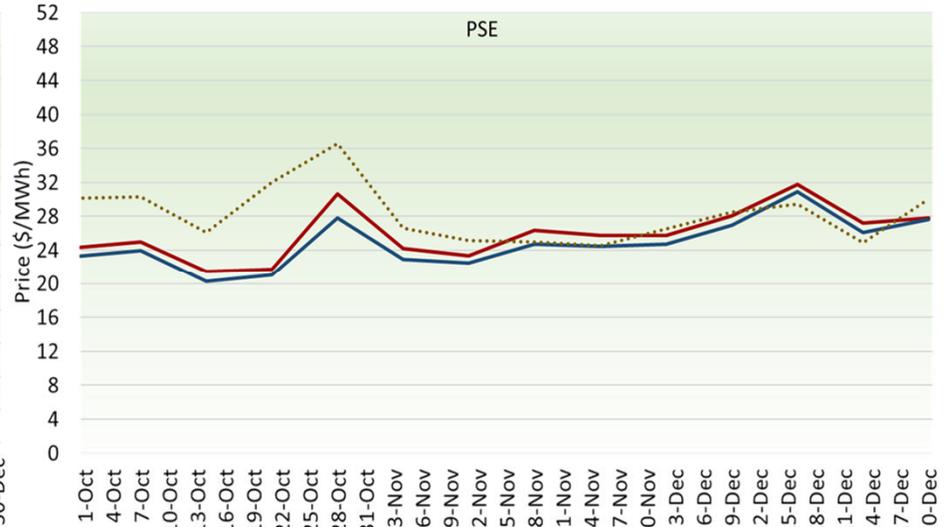
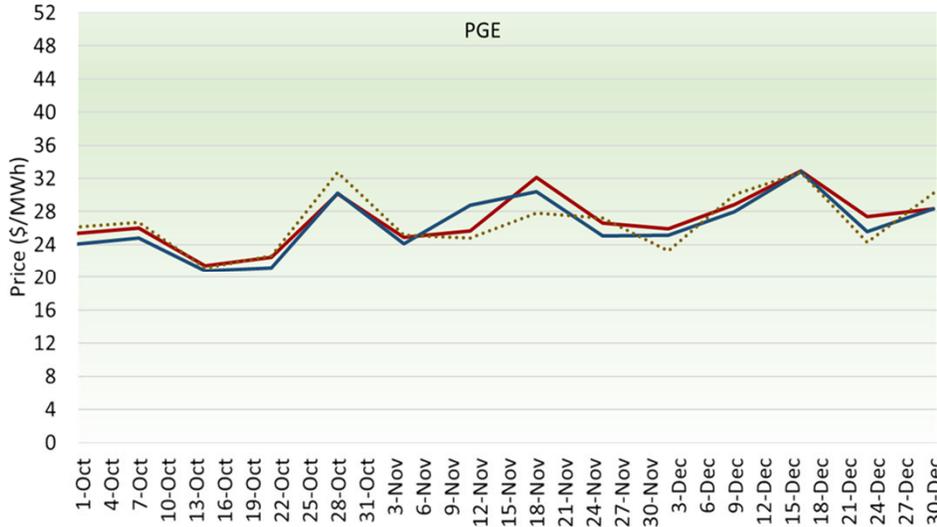
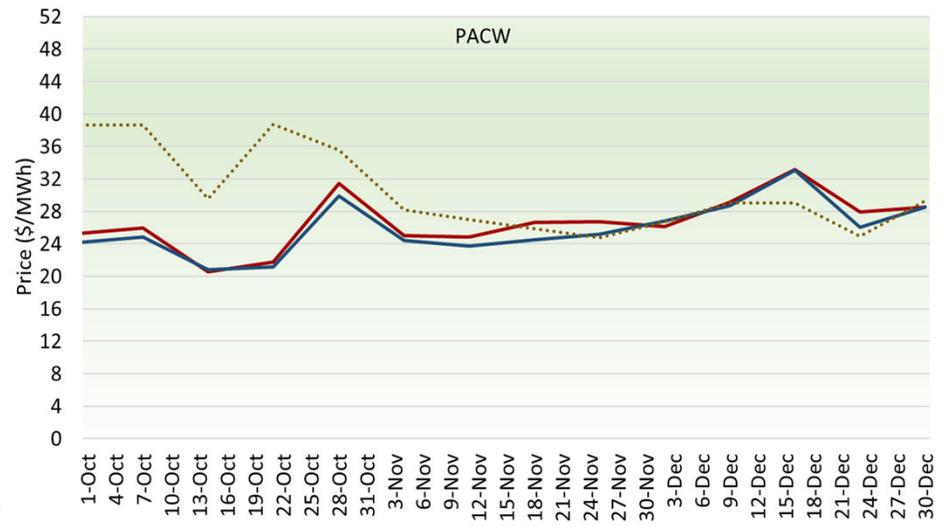
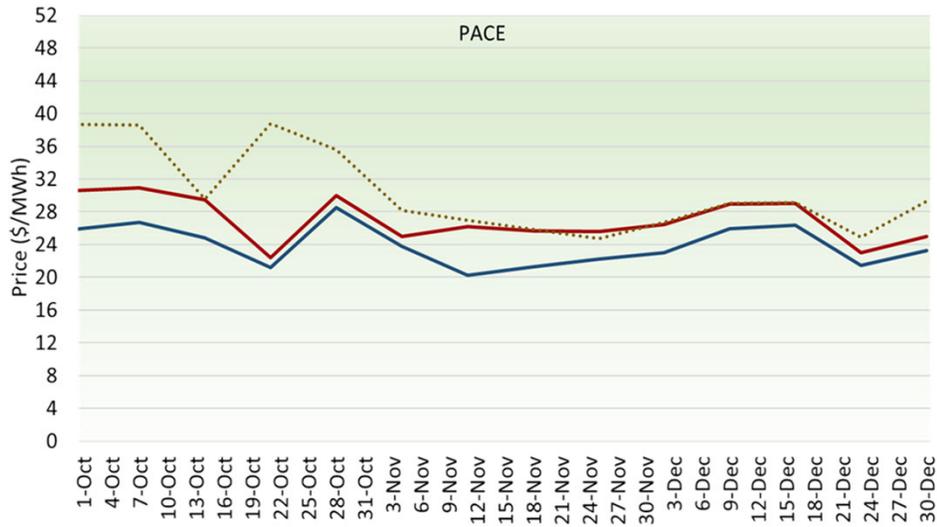
Flexible ramping procurement diversity savings for 4th Quarter, 2020

	October		November		December	
Direction	Up	Down	Up	Down	Up	Down
Average MW saving (MW)	831	882	828	872	962	914
Sum of BAA requirements (MW)	2,116	1,698	1,871	1,711	1,947	1,772
Diversity Benefit	39%	52%	44%	51%	49%	52%
Estimated Savings	\$266,649	\$0	\$81,203	\$0	\$70,340	\$0

Weekly average prices in EIM areas

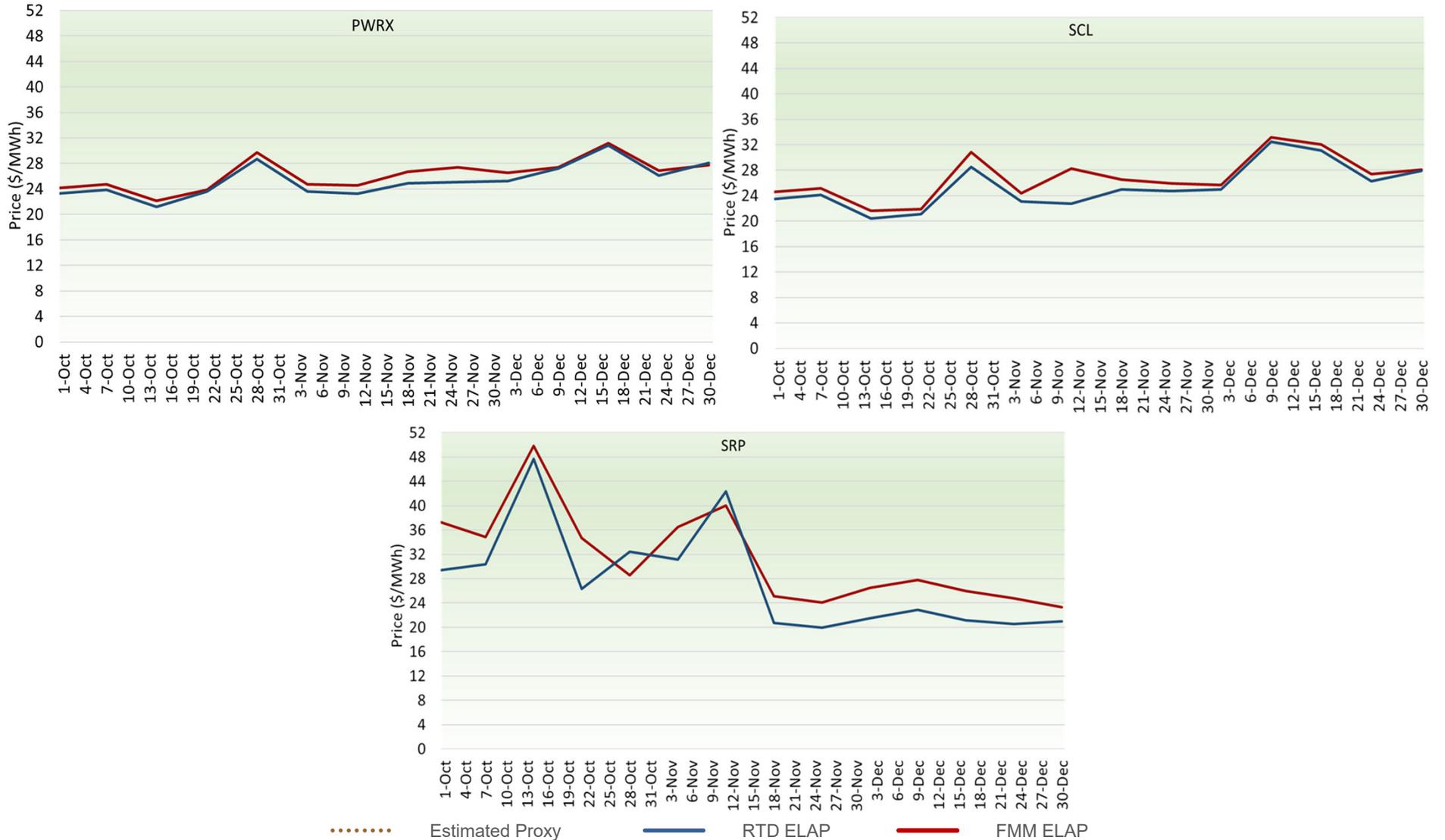


Weekly average prices in EIM areas

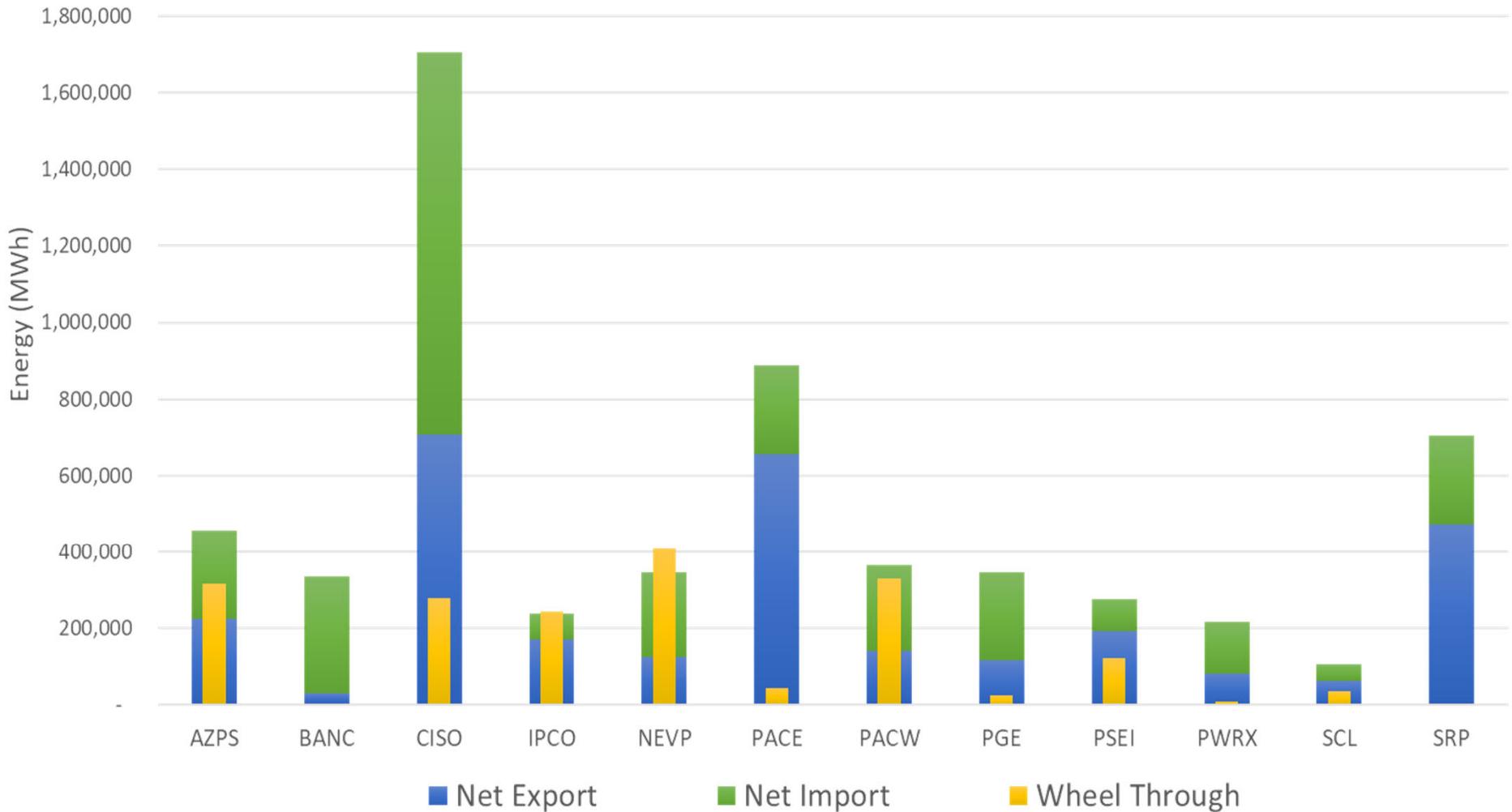


..... Estimated Proxy — RTD ELAP — FMM ELAP

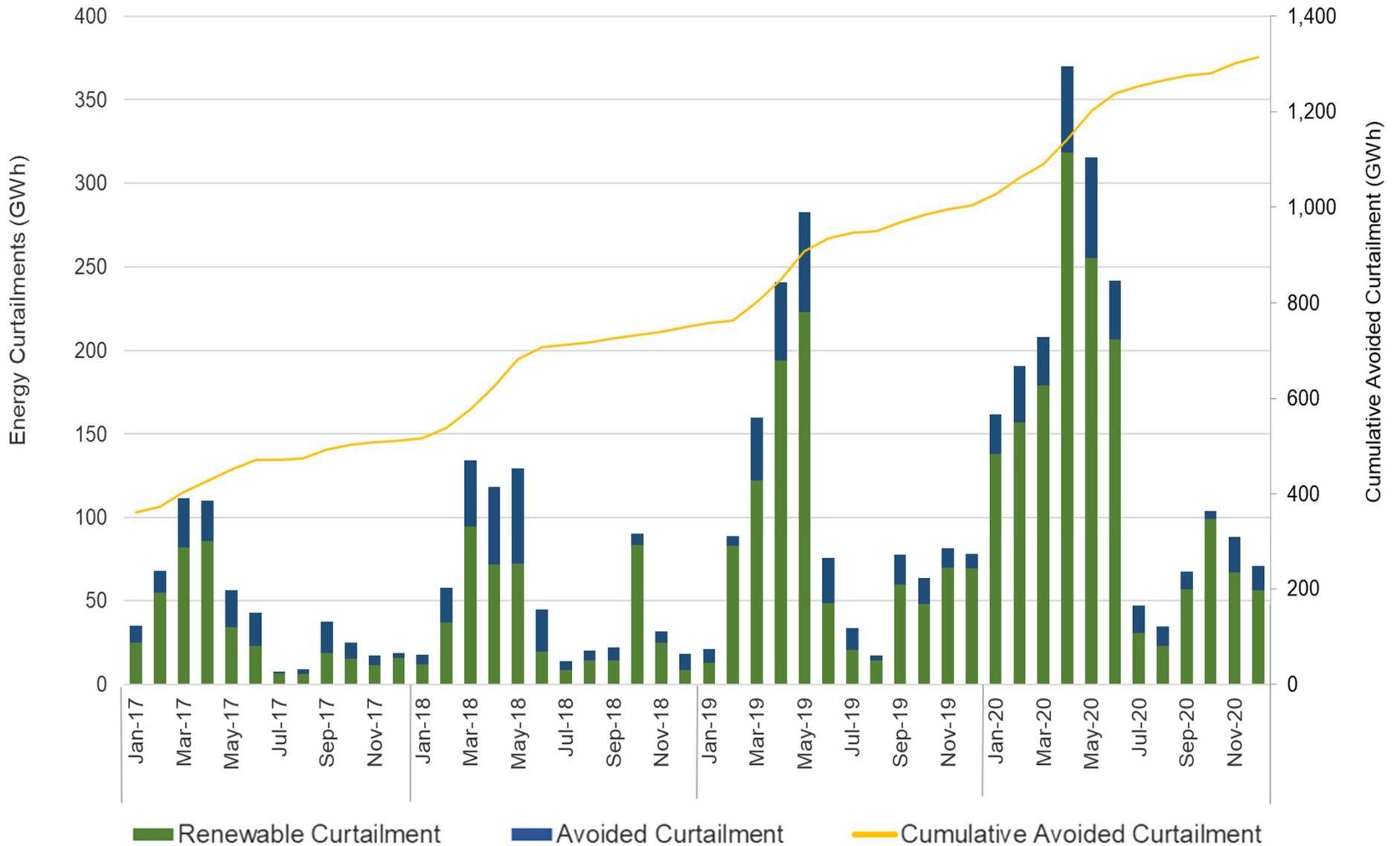
Weekly average prices in EIM areas



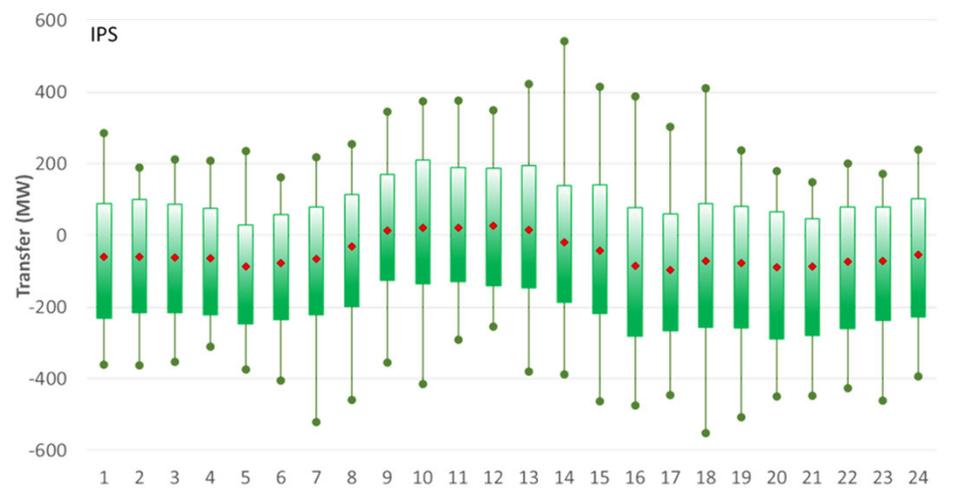
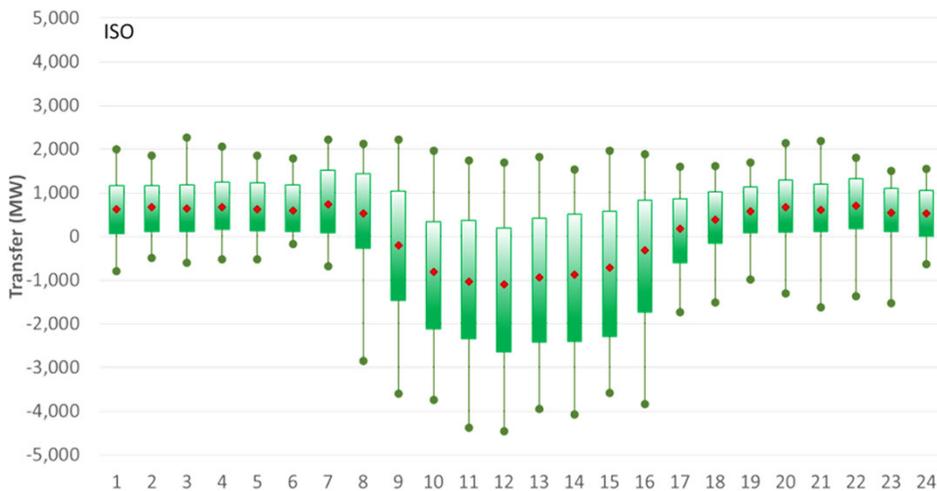
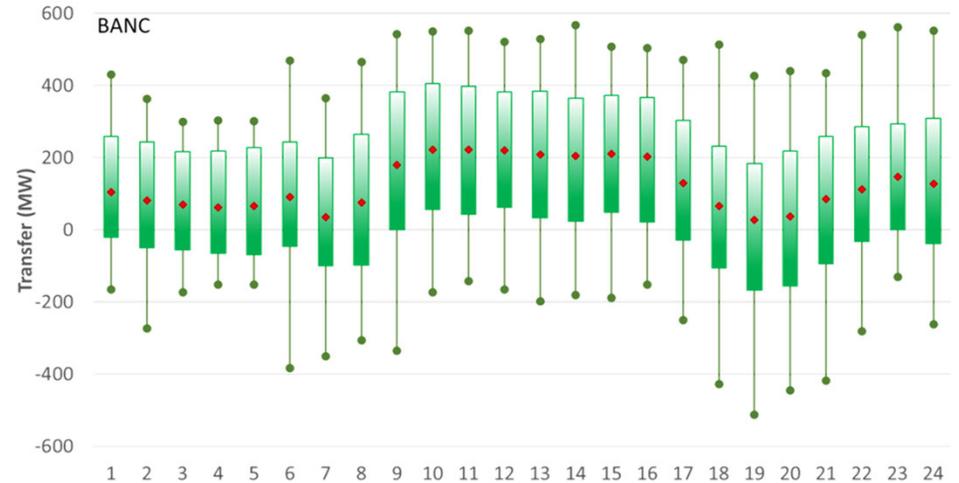
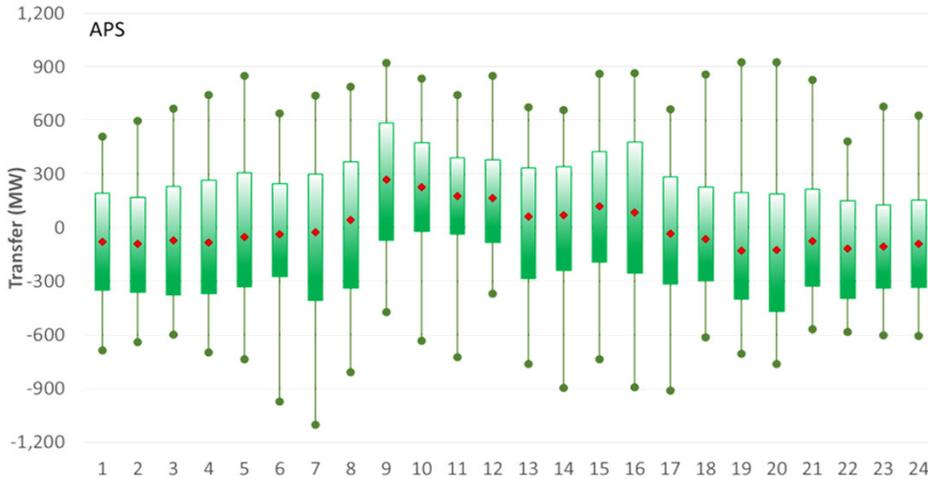
Estimated wheel through transfers in Q4, 2020



Energy imbalance market helps avoid curtailment



Robust energy transfers in 4th quarter, 2020



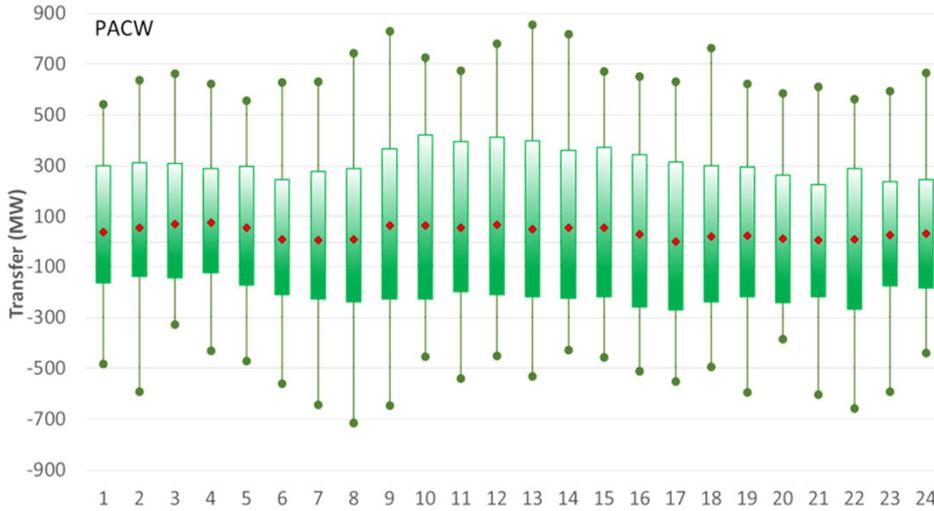
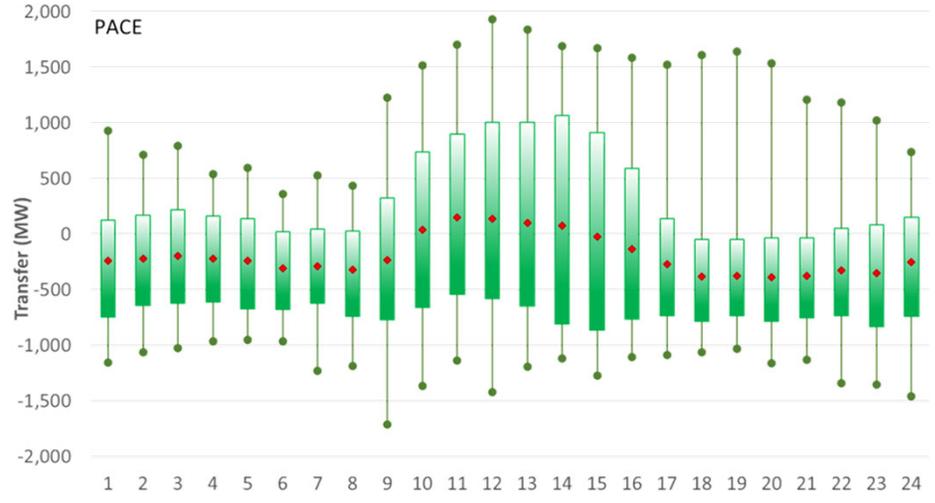
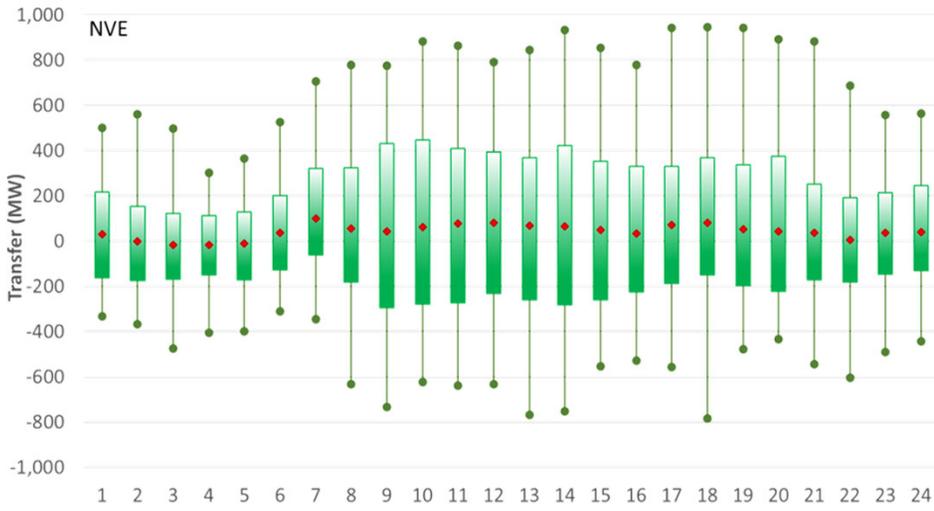
Transfer Axis: (+) Import (-) Export

 10th to 90th percentile

 Tails are max and min

 Simple averages

Robust energy transfers in 4th quarter, 2020



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