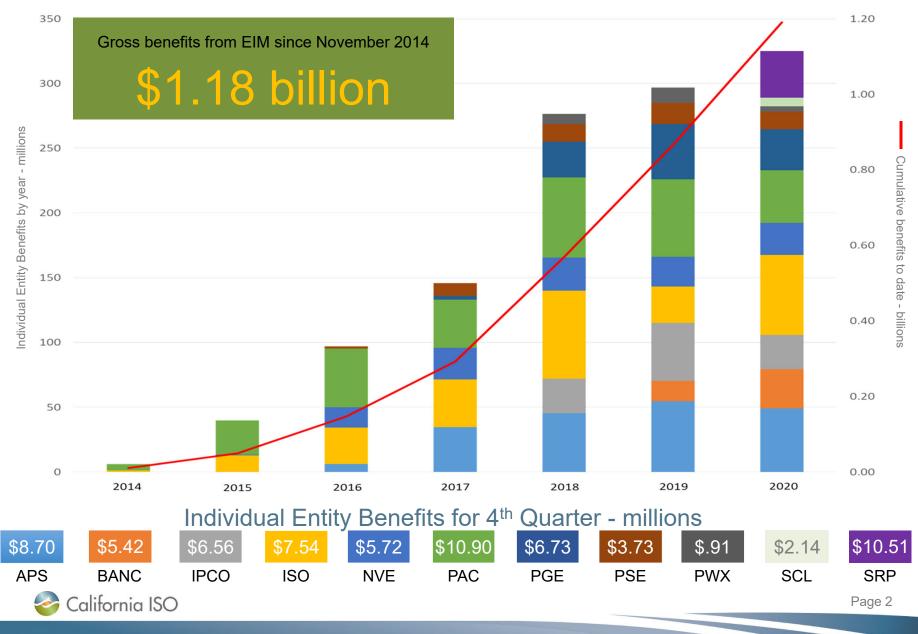


Briefing on western energy imbalance market and benefits

Guillermo Bautista Alderete Director, Market Analysis & Forecasting

Board of Governors Meeting General Session March 24, 2021

\$68.86 million gross economic benefits in Q4 2020

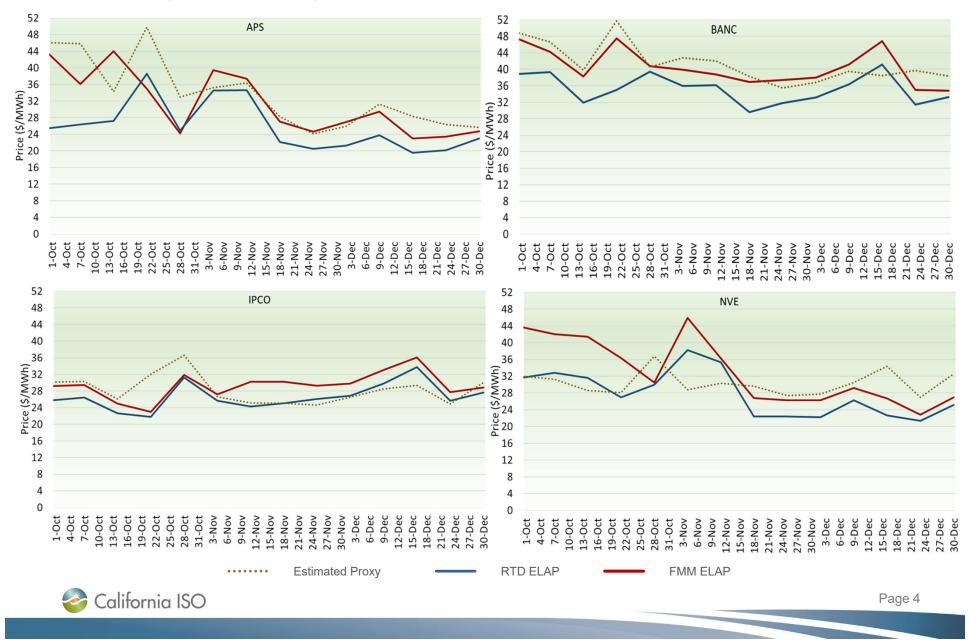


Q4 2020 Flexible ramping diversity savings

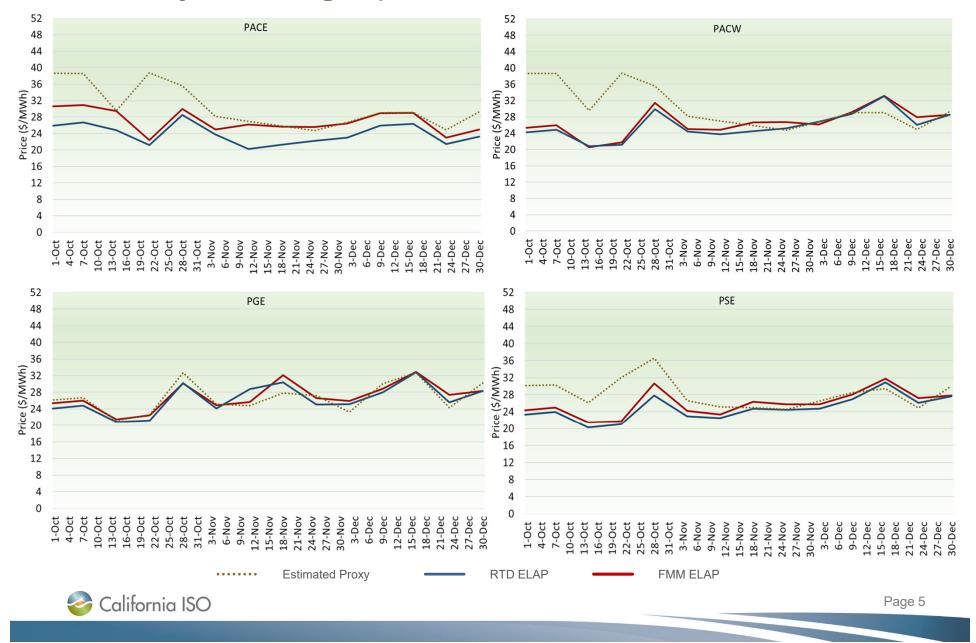
	October		November		December	
Direction	Up	Down	Up	Down	Up	Down
Average MW saving (MW)	831	882	828	872	962	914
Sum of BAA requirements (MW)	2,116	1,698	1,871	1,711	1,947	1,772
Diversity Benefit	39%	52%	44%	51%	49%	52%
Estimated Savings	\$266,649	\$0	\$81,203	\$0	\$70,340	\$0



Weekly average prices in EIM areas



Weekly average prices in EIM areas



Weekly average prices in EIM areas

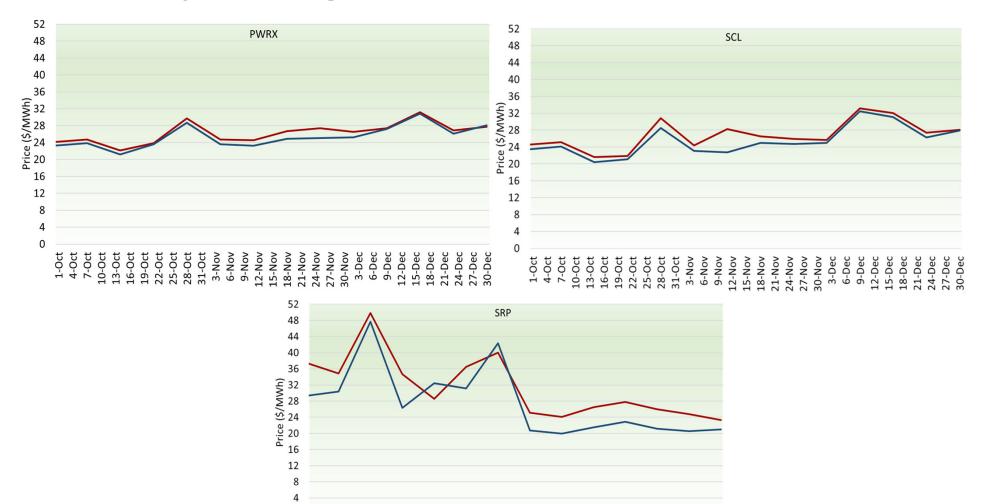
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🚰 California ISO

1-Oct 4-Oct 7-Oct 10-Oct

Estimated Proxy



22-Oct 25-Oct 28-Oct 31-Oct 3-Nov 6-Nov 9-Nov 12-Nov

15-Nov 18-Nov 21-Nov

RTD ELAP

13-Oct 16-Oct 19-Oct 24-Nov 27-Nov 30-Nov 3-Dec 6-Dec 9-Dec

12-Dec 15-Dec 18-Dec 21-Dec

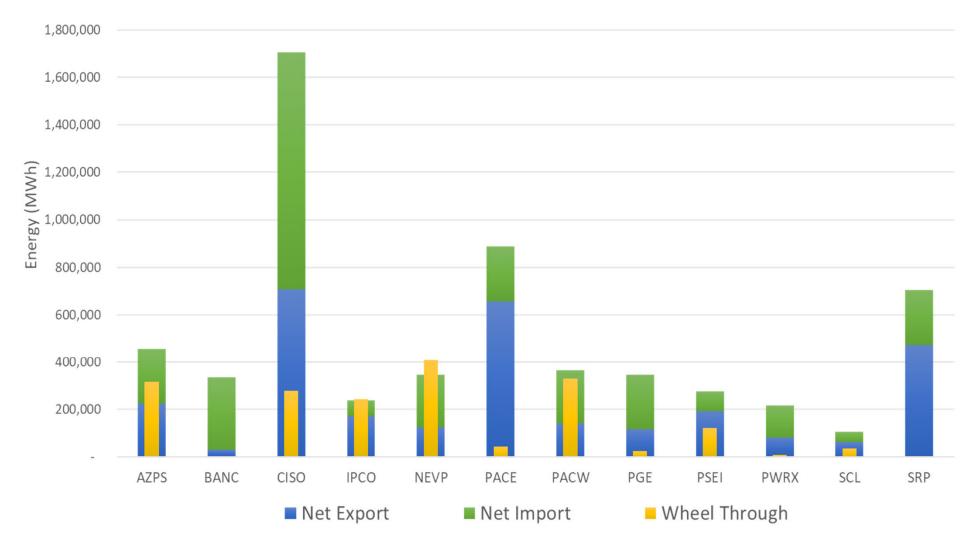
24-Dec 27-Dec

FMM ELAP

30-Dec

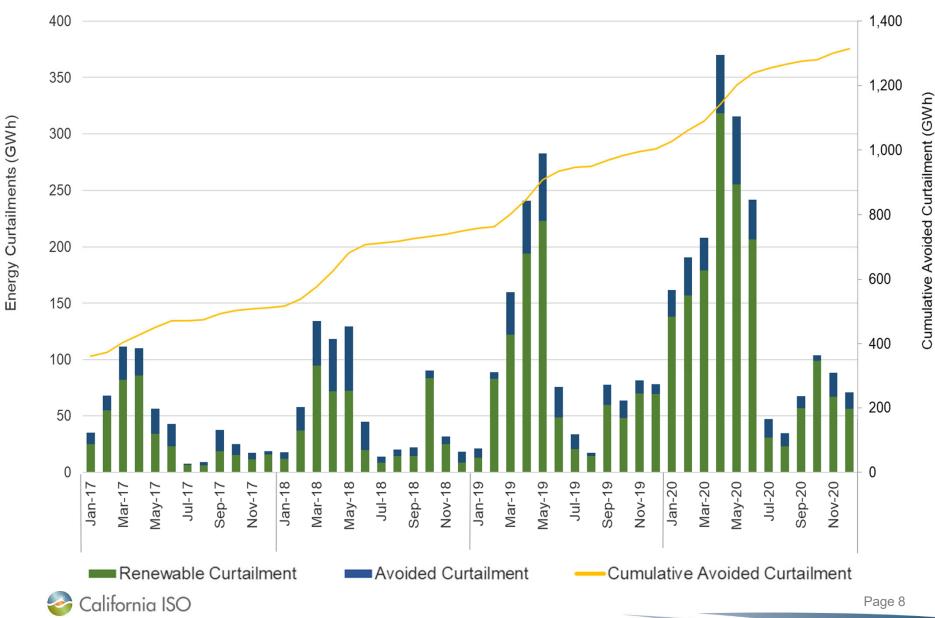
Page 6

Estimated wheel-through transfers in Q4 2020

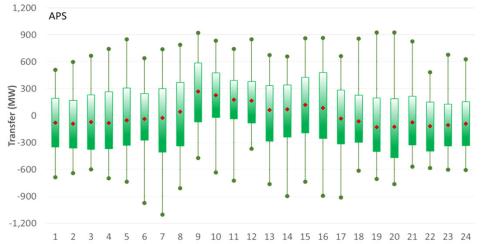


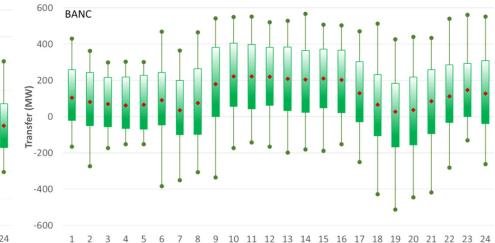


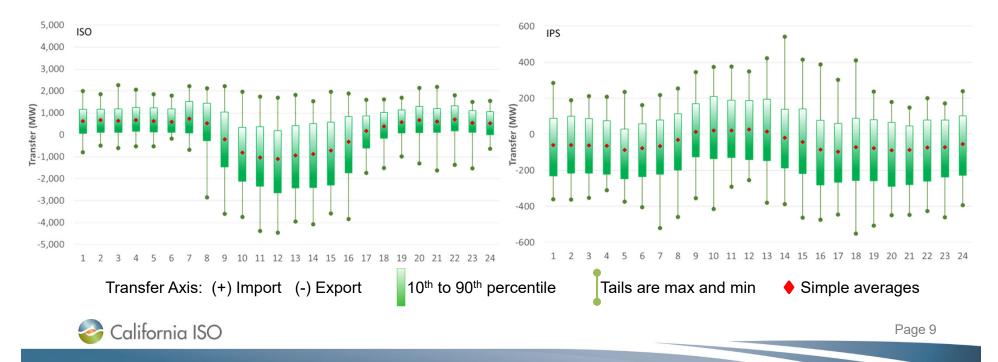
Western EIM helps avoid curtailments



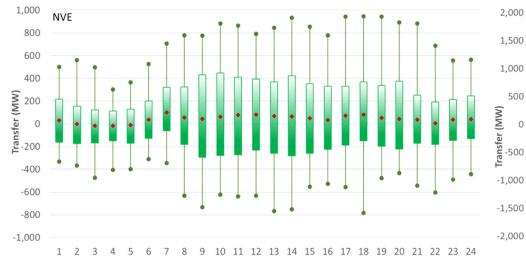
Robust energy transfers in Q4 2020

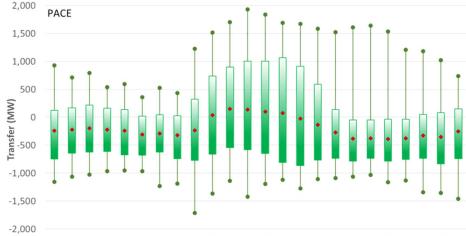




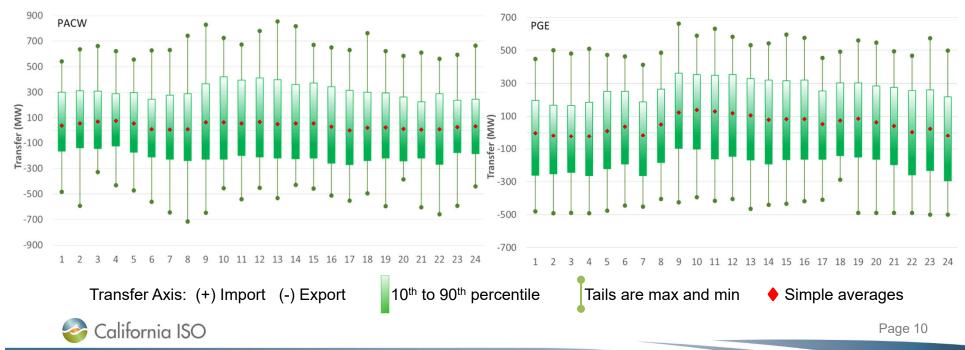


Robust energy transfers in Q4 2020





10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



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Robust energy transfers in Q4 2020

