WESTERN ENERGY IMBALANCE MARKET

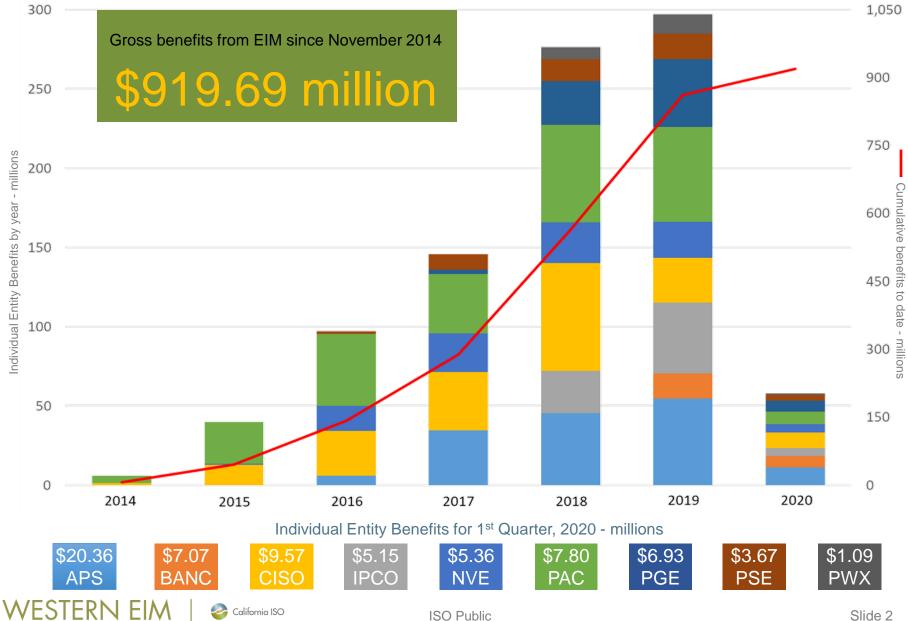
Briefing on western energy imbalance market benefits

Mark Rothleder Vice President, Market Policy & Performance

EIM Governing Body Meeting General Session May 6, 2020



7.90 million gross economic benefits – 2020 1st



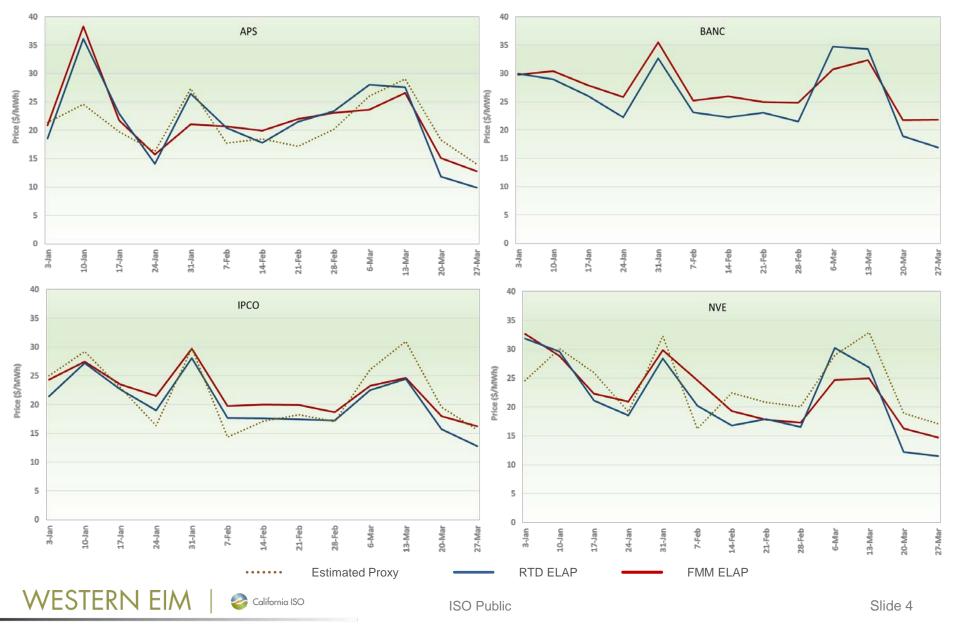
Slide 2

Flexible ramping procurement diversity savings for 1st Quarter, 2020

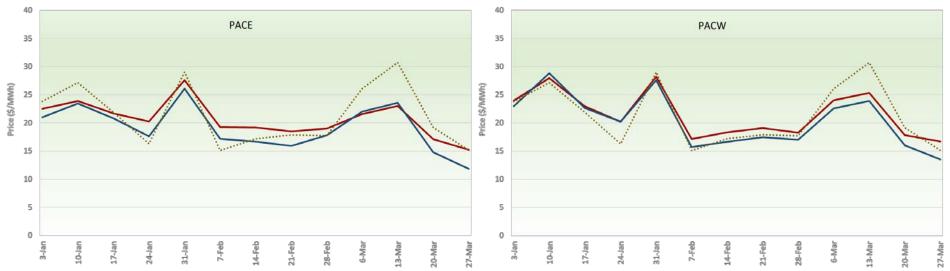
	January		February		March	
Direction	Up	Down	Up	Down	Up	Down
Average MW saving	715	769	806	821	830	814
Sum of BAA requirements	1,606	1,731	1,699	1,781	1,807	1,770
Diversity Benefit	44%	44%	47%	46%	46%	46%
Estimated Savings	\$28,848	\$168	\$11,082	\$38,469	\$72,234	\$7,105

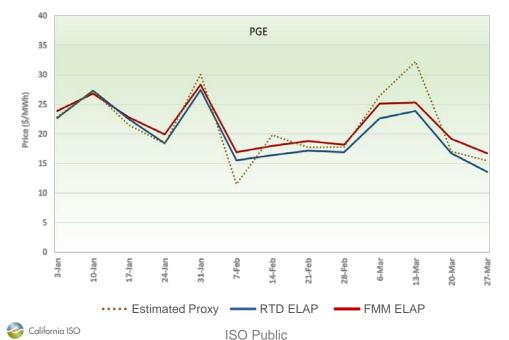


Weekly average prices in EIM areas



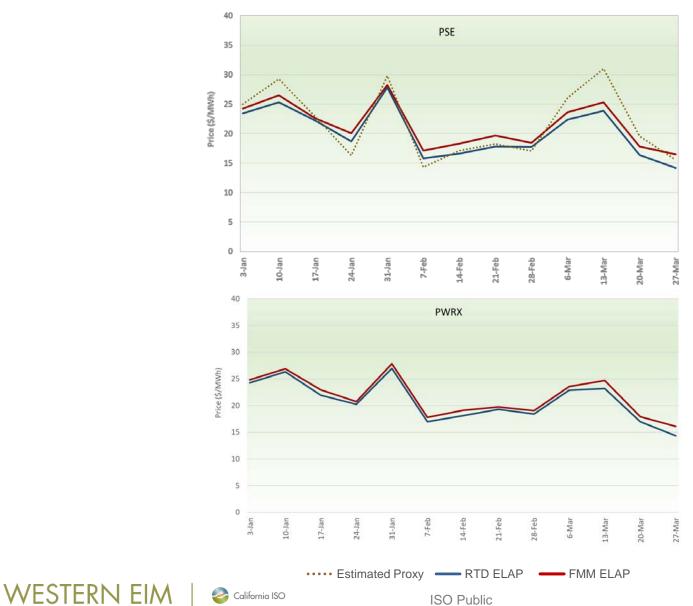
Weekly average prices in EIM areas





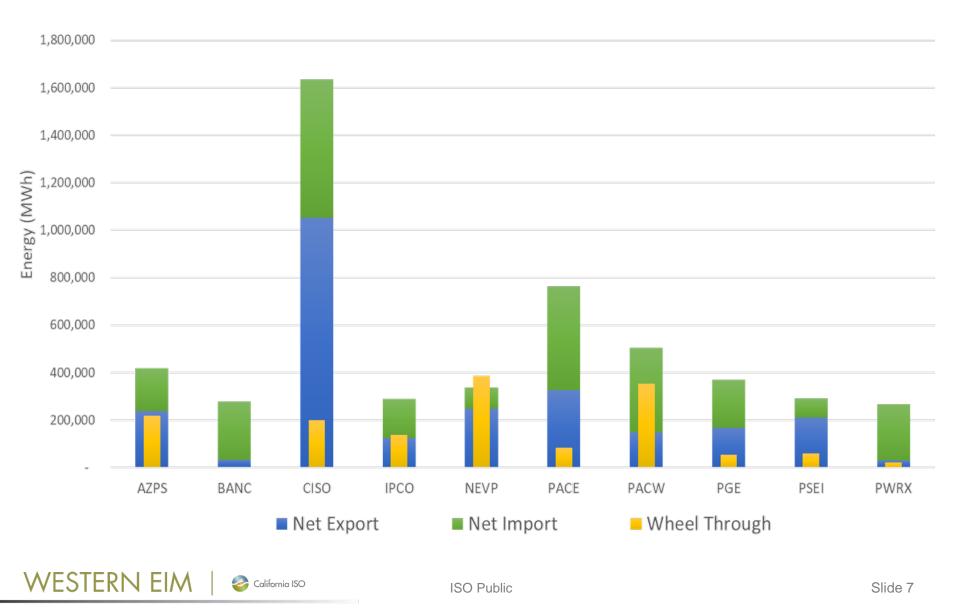
WESTERN EIM

Weekly average prices in EIM areas

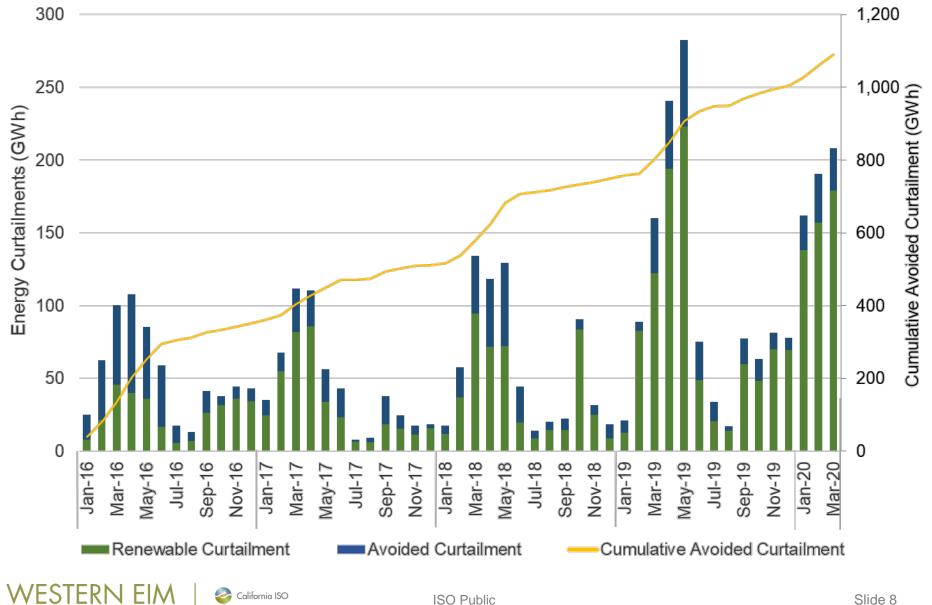


Slide 6

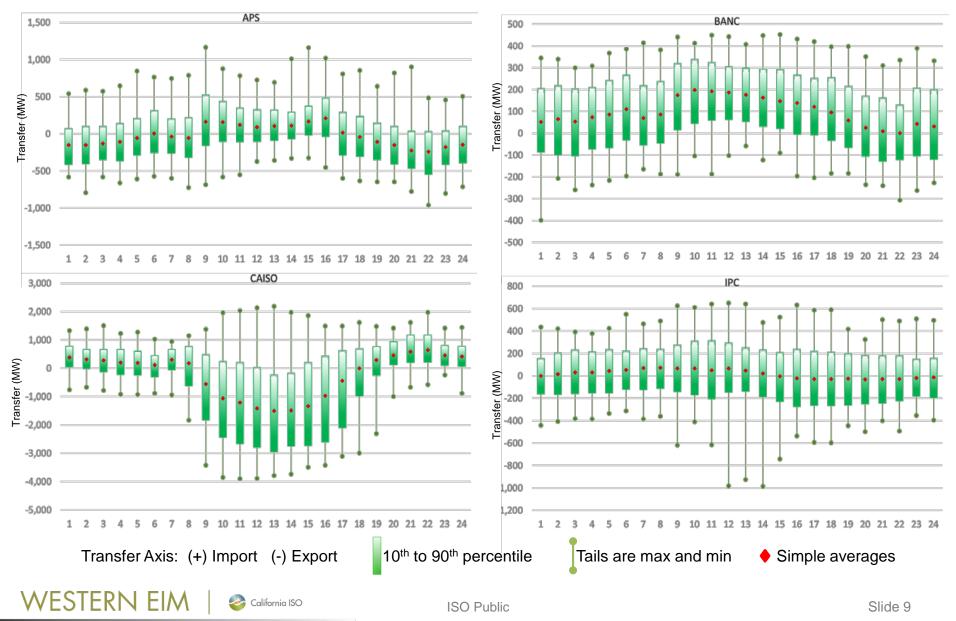
Estimated wheel through transfers in Q1, 2020



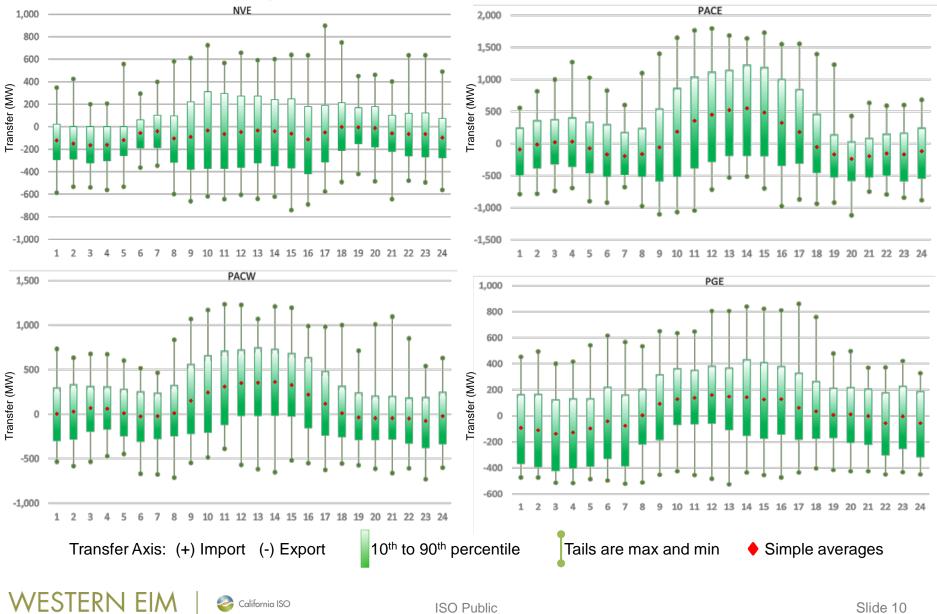
Energy imbalance market helps avoid curtailment



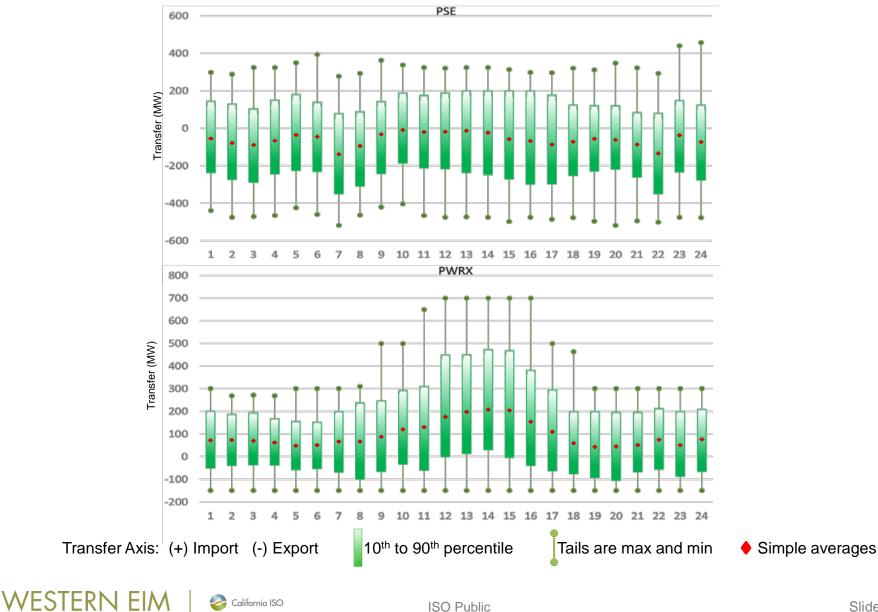
Robust energy transfers in 1st quarter, 2020



Robust energy transfers in 1st quarter, 202



Robust energy transfers in 1st quarter, 2020



😂 California ISO

Seattle City Light and Salt River Project go-live went smoothly on April 1, 2020

April Metrics	SCL (Seattle City Light)	SRP (Salt River Project)
Balancing Test Pass Rate	95.3%	99.3%
Flex Ramp Test Pass Rate	98.6%	99.7%
Average 15-minute Prices	\$19/Mwh	\$16.8/Mwh
Average 5-minute Prices	\$17.6/Mwh	\$16/Mwh

Transfers

