

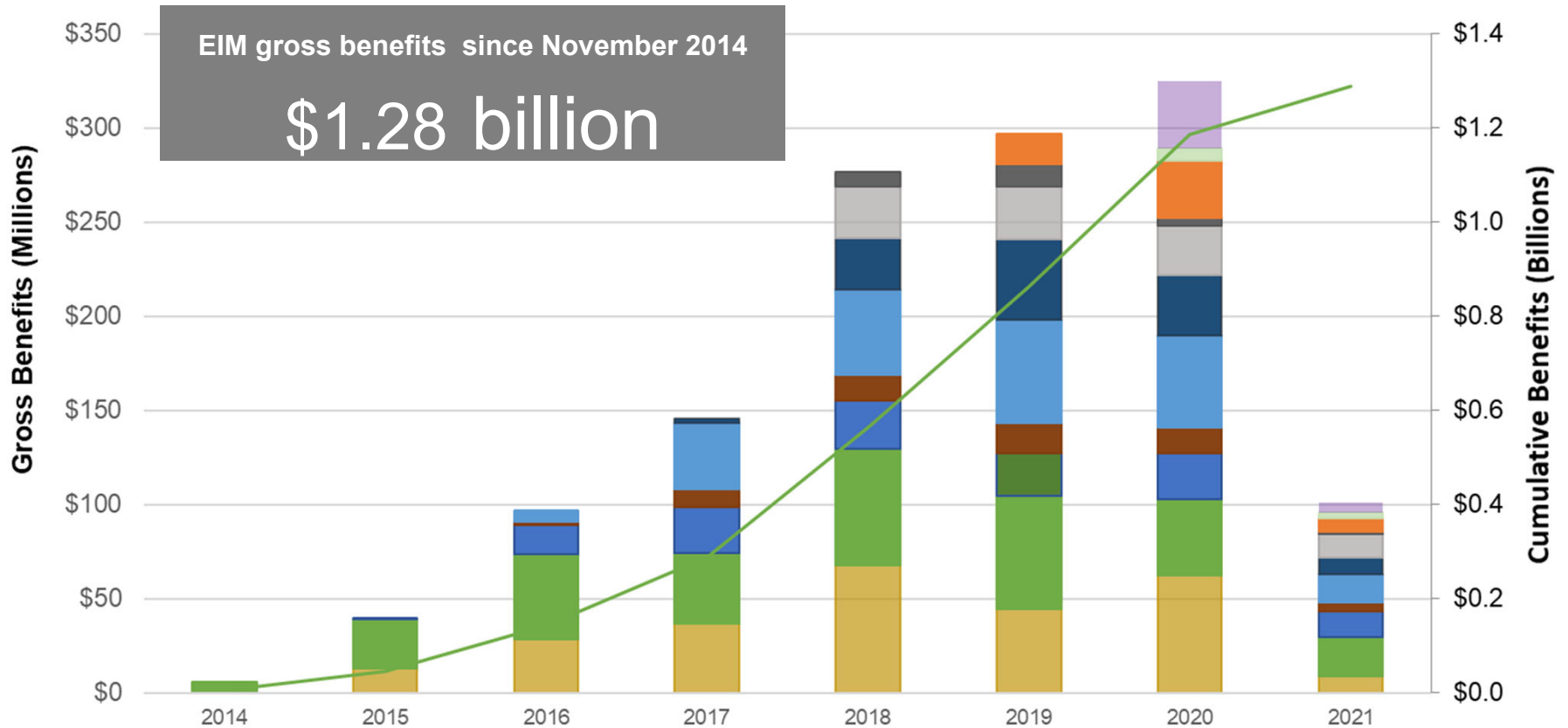


Western energy imbalance market benefits report

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EIM Governing Body Meeting
General Session
May 19, 2021

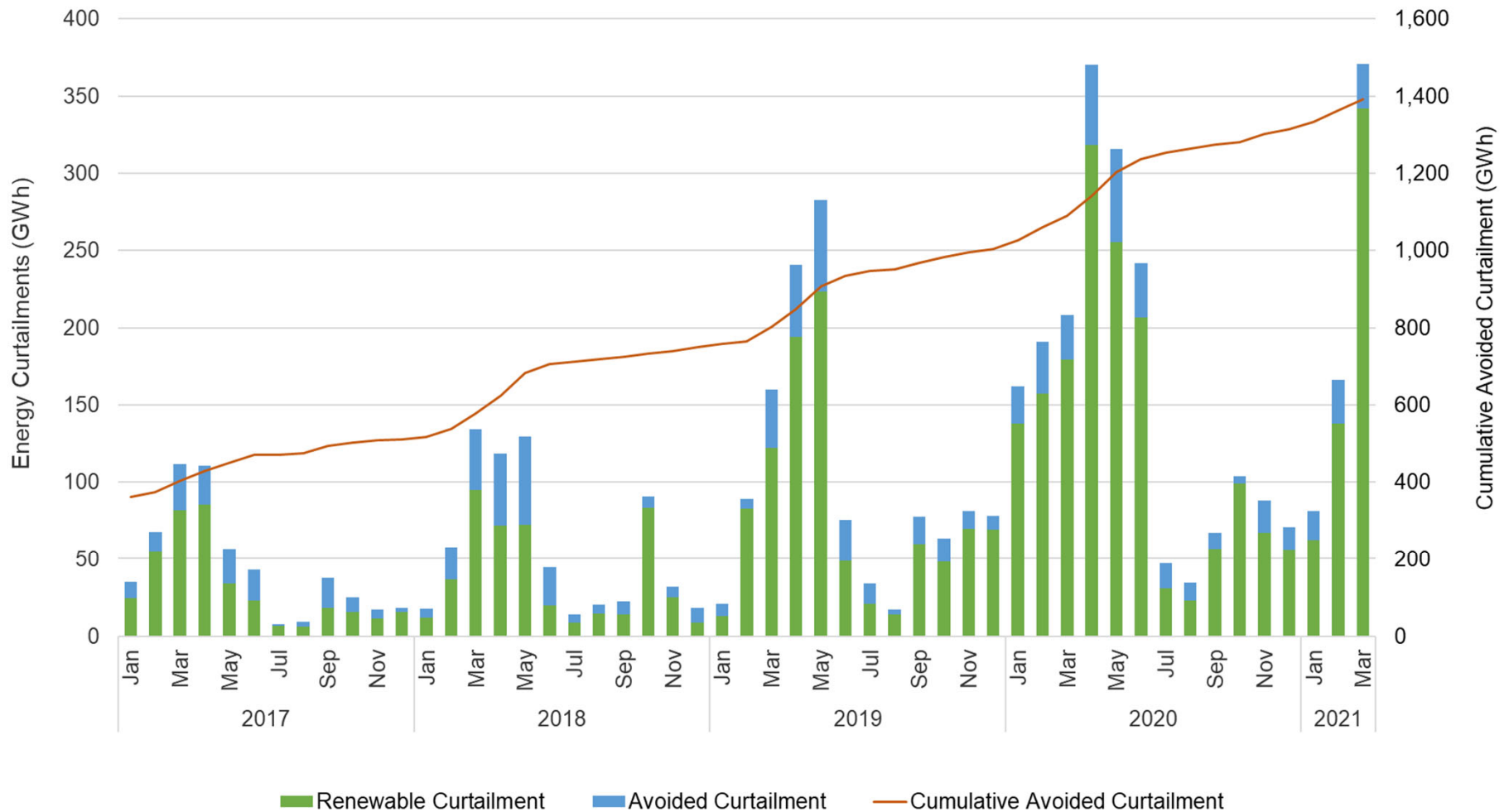
\$101.01 million gross economic benefits – Q1 2021



Individual Entity Benefits for 1st Quarter - millions



Energy imbalance market helps avoid curtailment

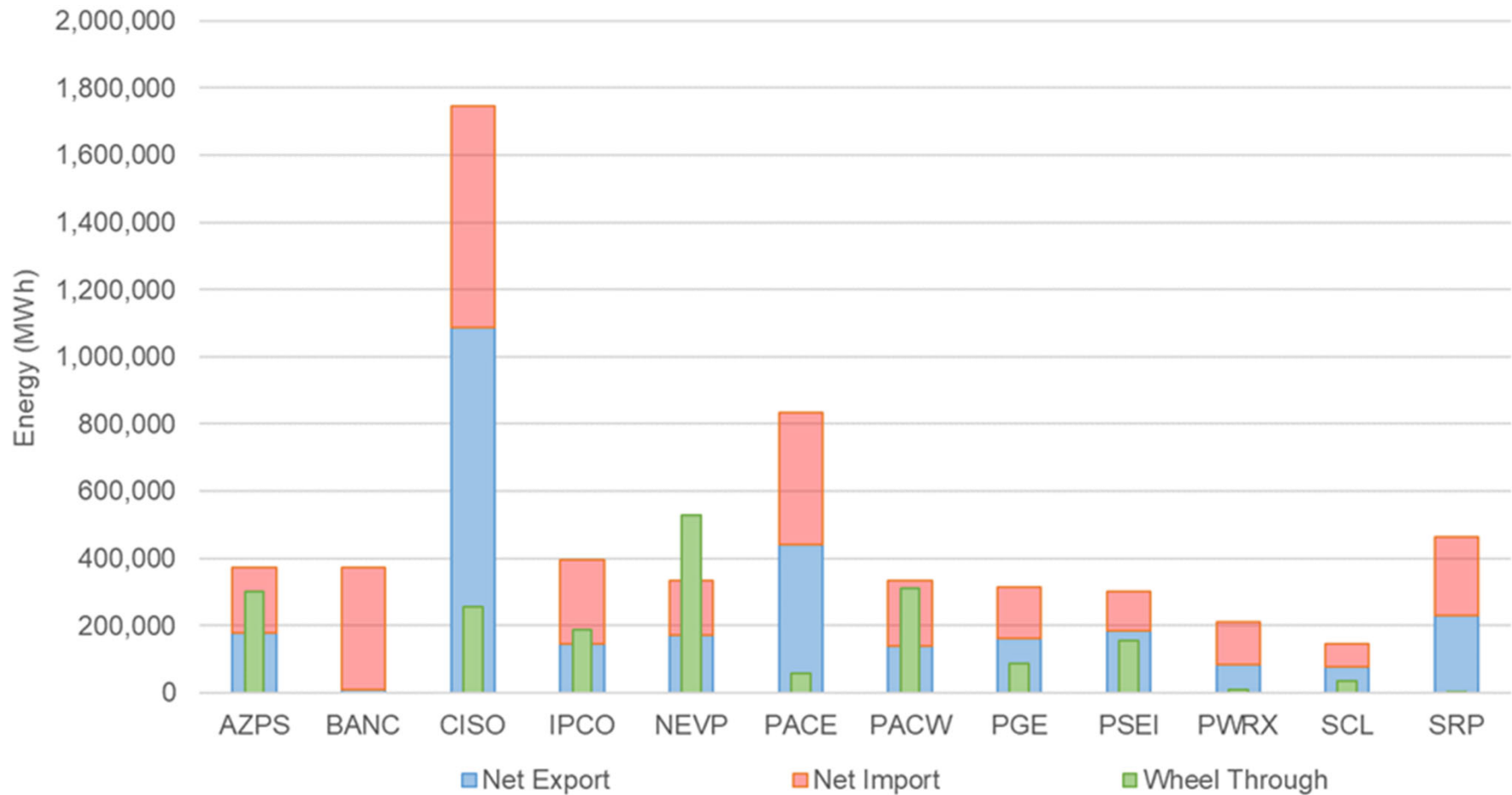


Avoided curtailments since 2015 represent a reduction of 599 equivalent Tons CO₂

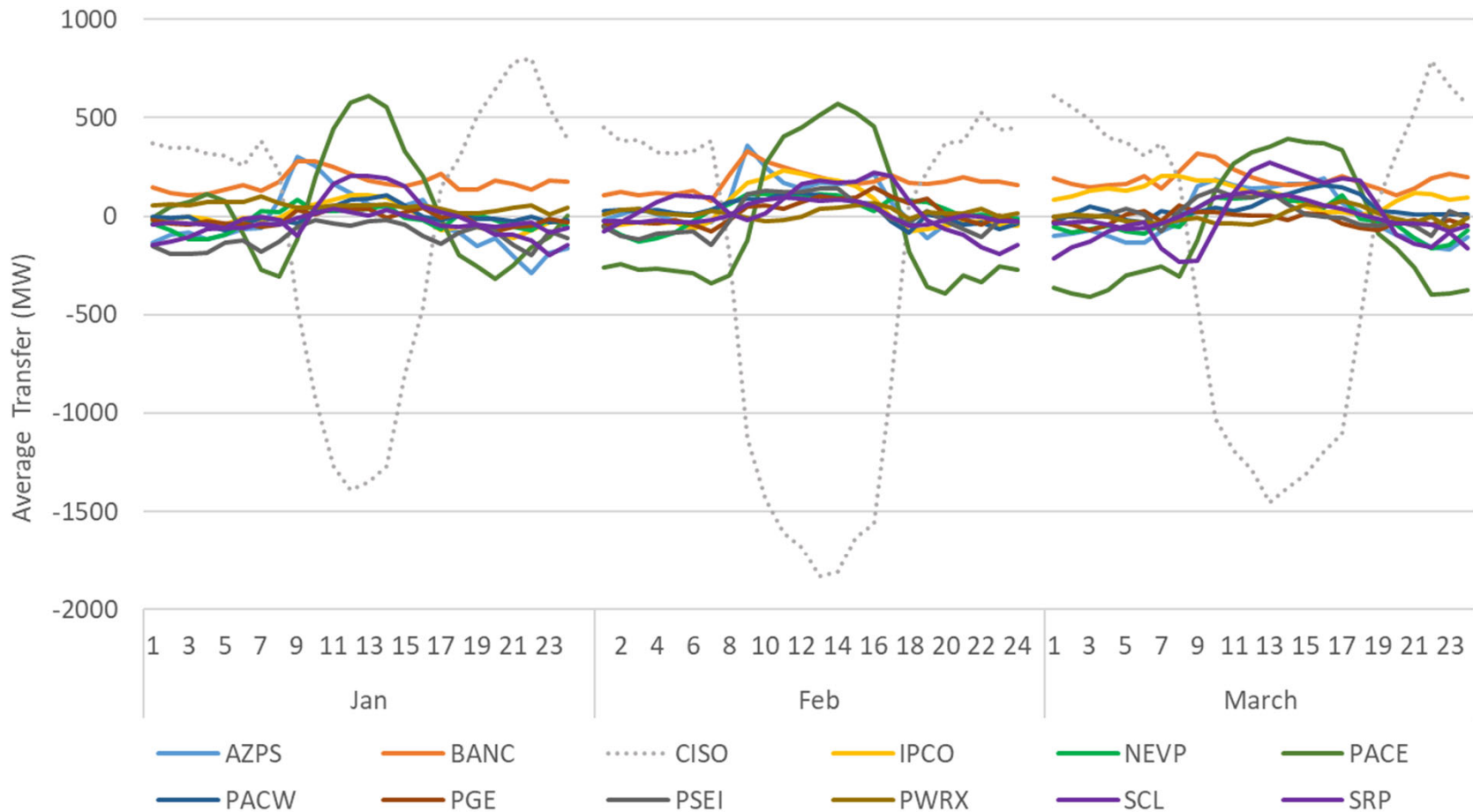
Flexible ramping procurement diversity savings Q1, 2021

	January		February		March	
Direction	Up	Down	Up	Down	Up	Down
Average MW saving (MW)	983	918	998	970	1,022	993
Sum of BAA requirements (MW)	1,956	1,804	2,011	1,943	2,188	1,978
Diversity Benefit	50%	51%	50%	50%	47%	50%
Estimated Savings	\$32,205	\$0	\$5,809	\$2,228	\$10,613	\$17,384

Estimated wheel-through transfers in Q1, 2021

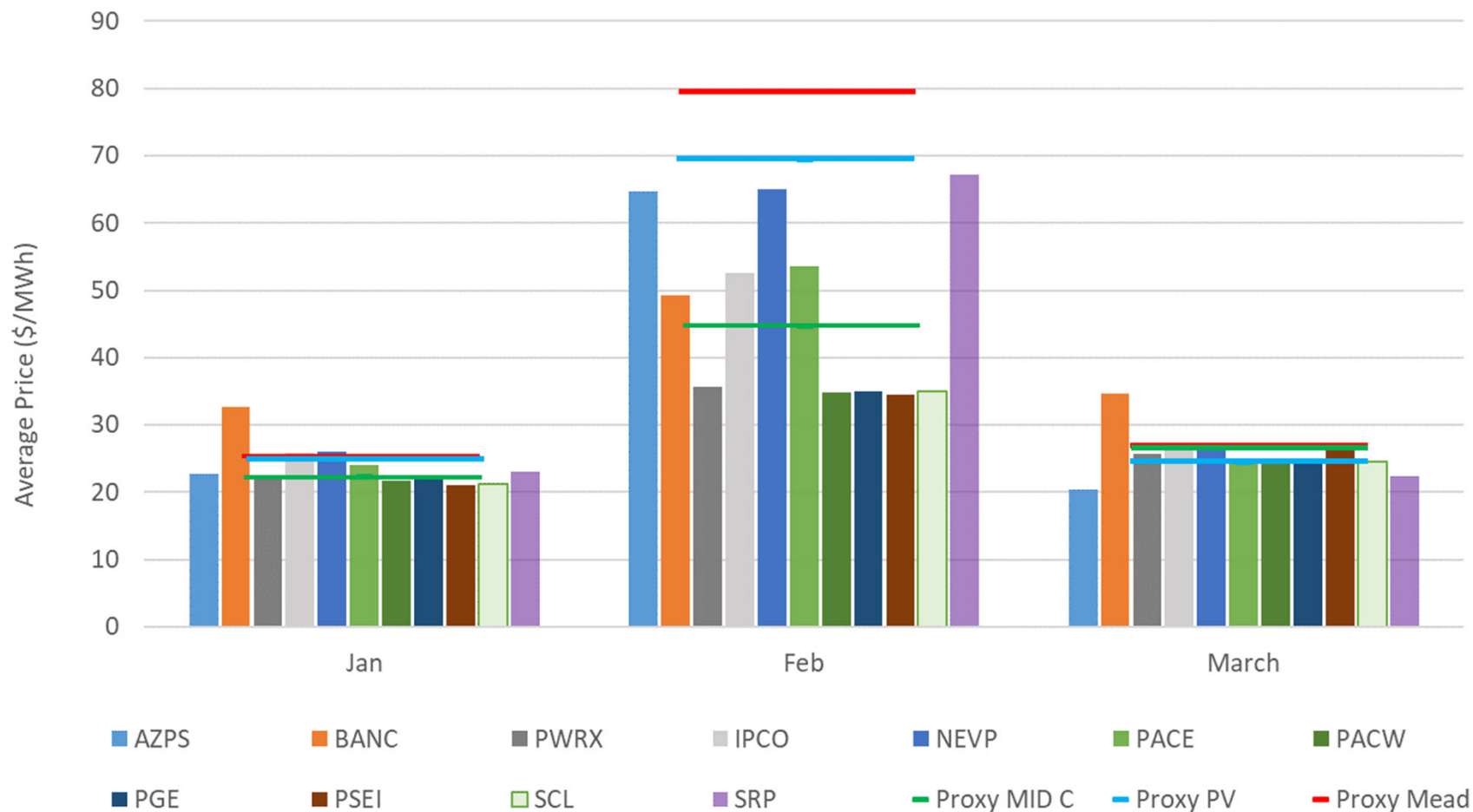


Robust energy transfers in Q1, 2021

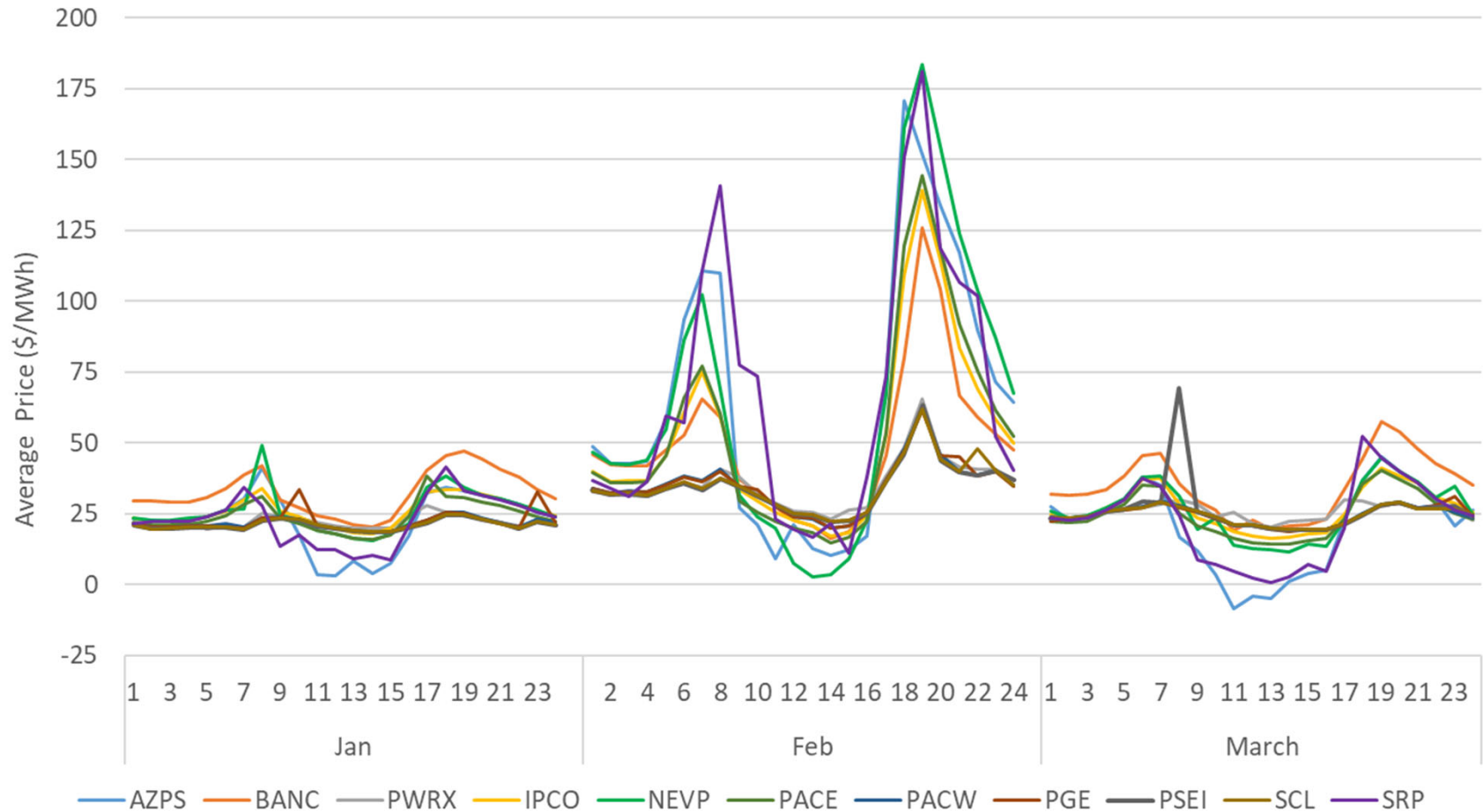


Transfer Axis: (+) Import (-) Export

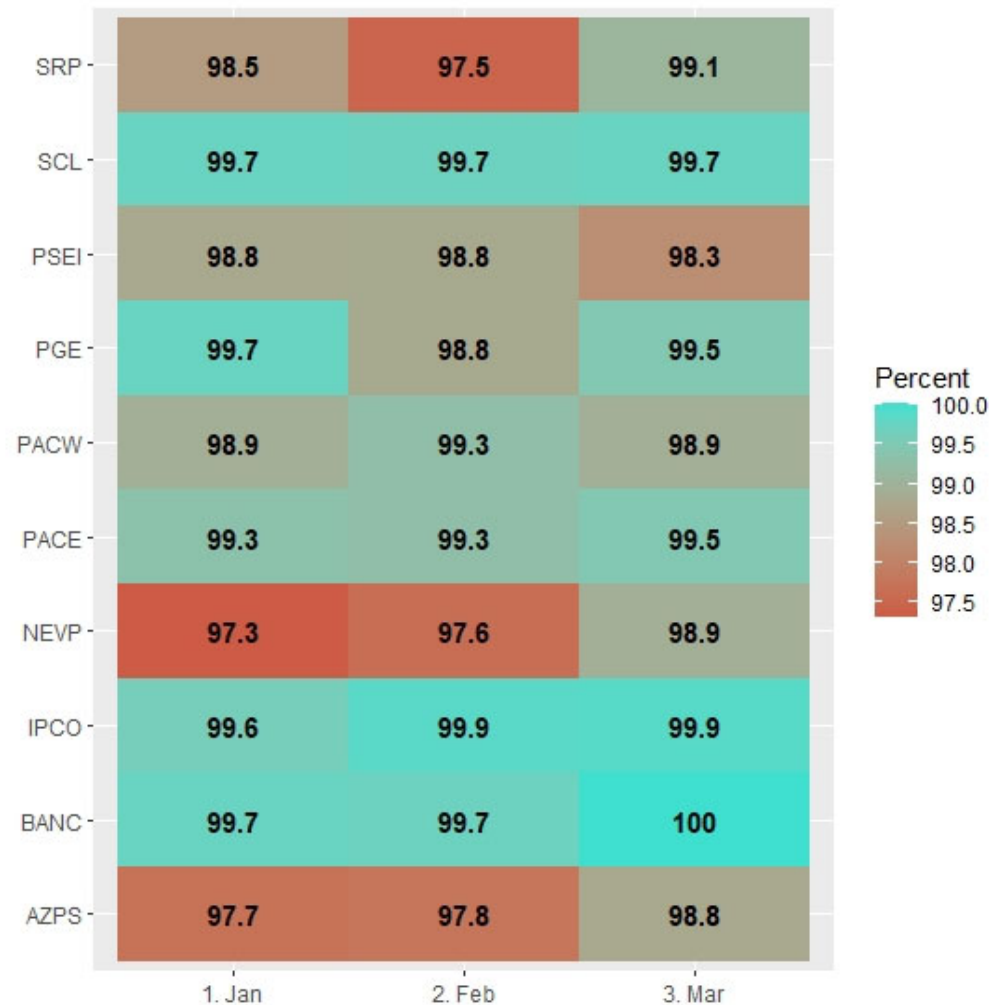
Monthly average prices increased mainly in the southwest areas in mid February given gas volatility in the US



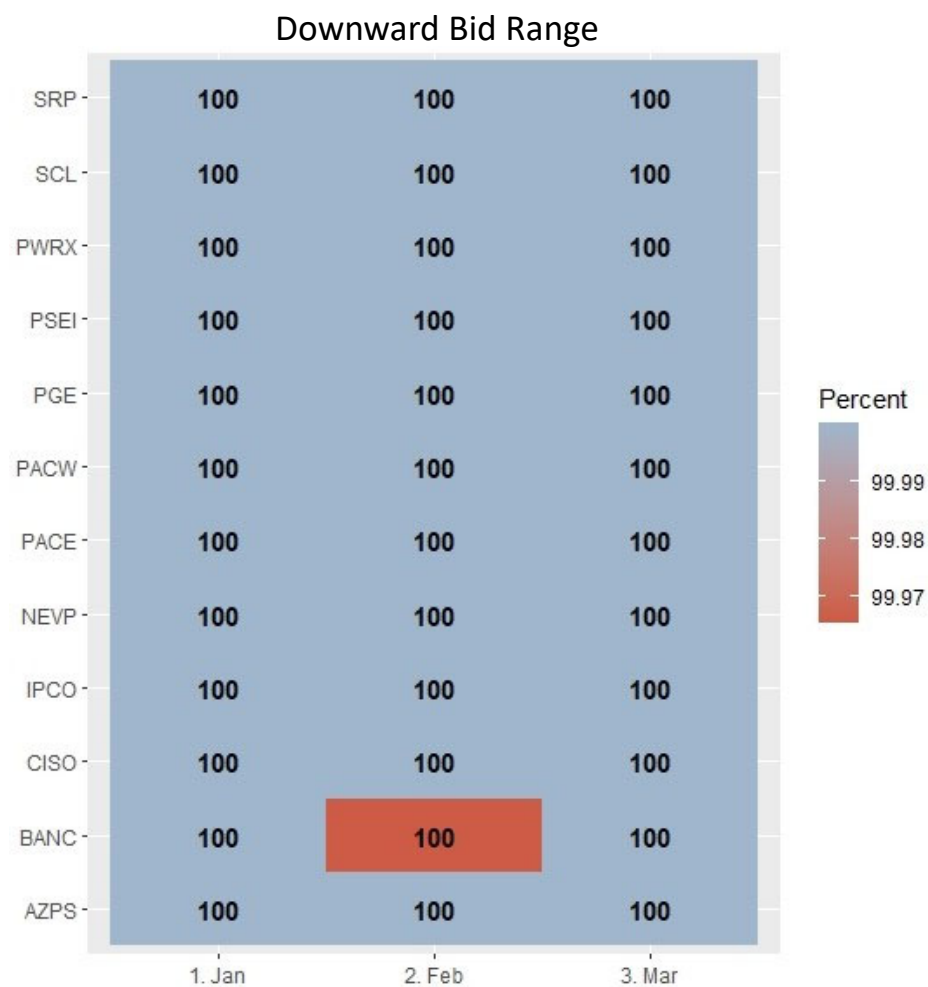
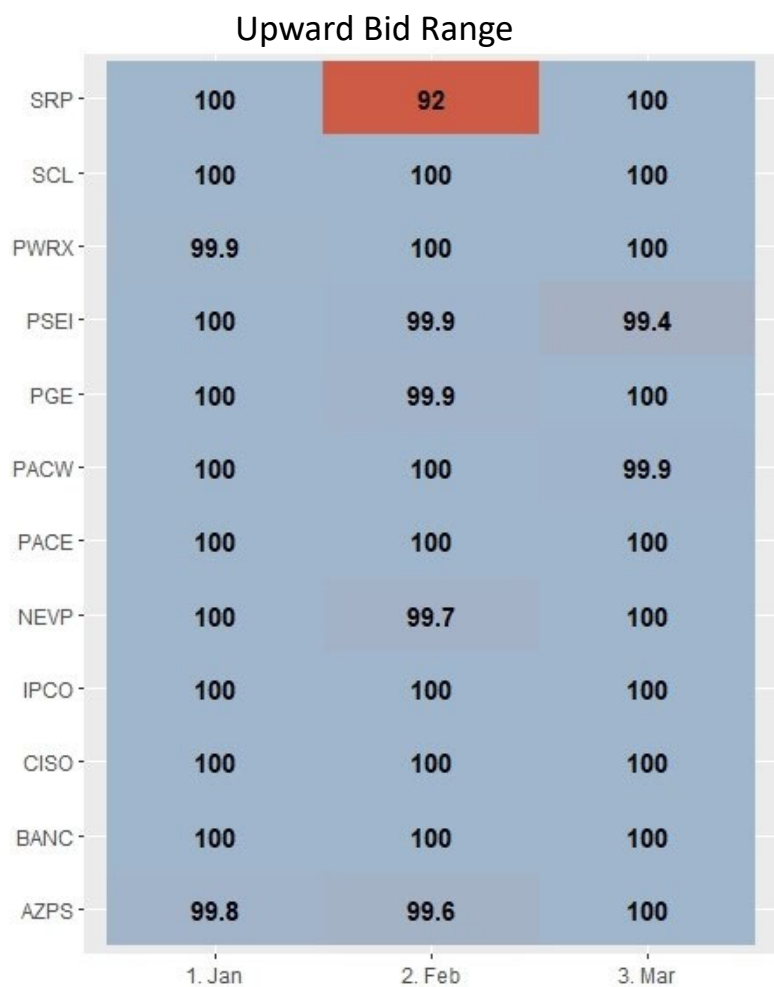
Monthly average prices increased in the southwest areas in mid-February given gas volatility in the US



EIM entities passed the balancing test over 95 percent of the time

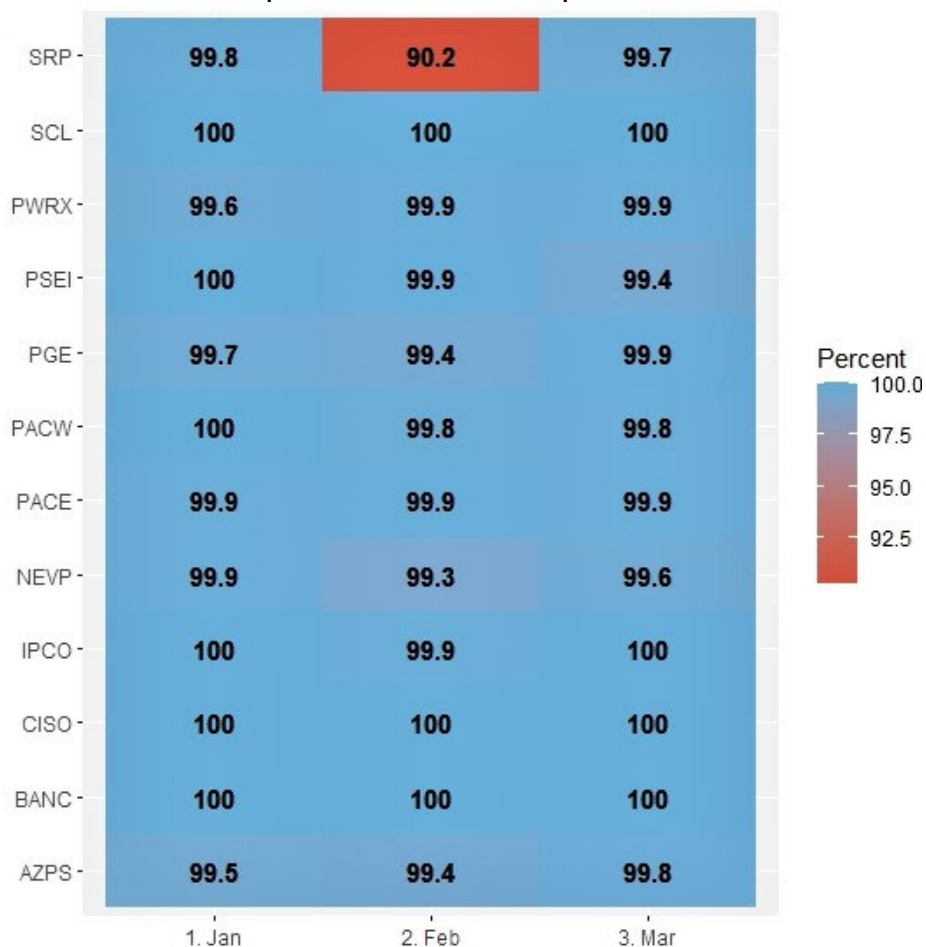


EIM entities passed the bid-range capacity test most of the times

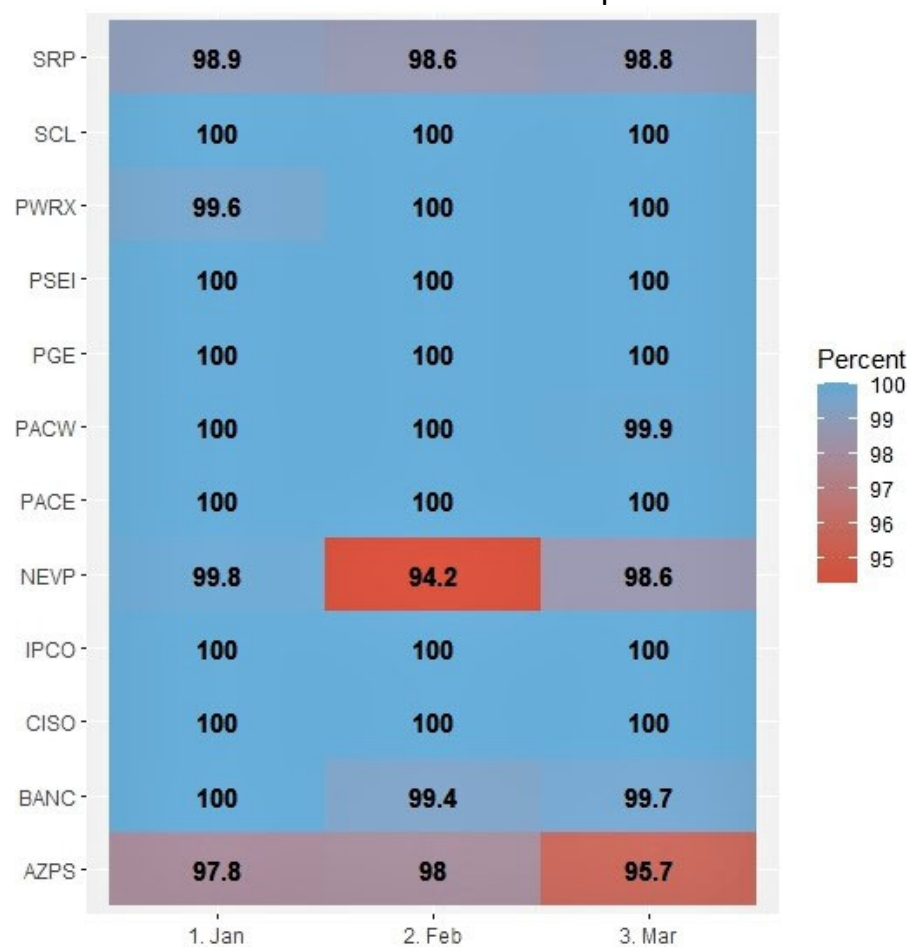


EIM entities passed the time the flexible ramp test at different rates

Upward Flexible Ramp



Downward Flexible Ramp

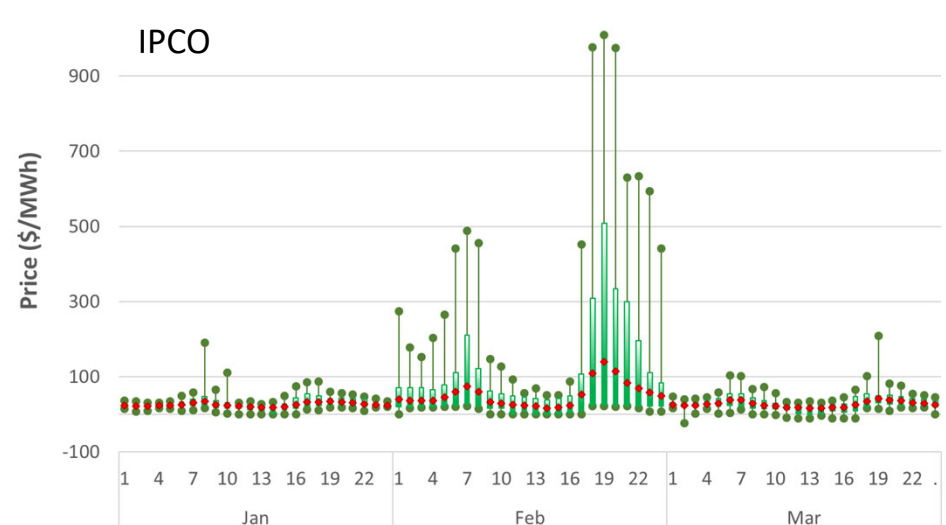
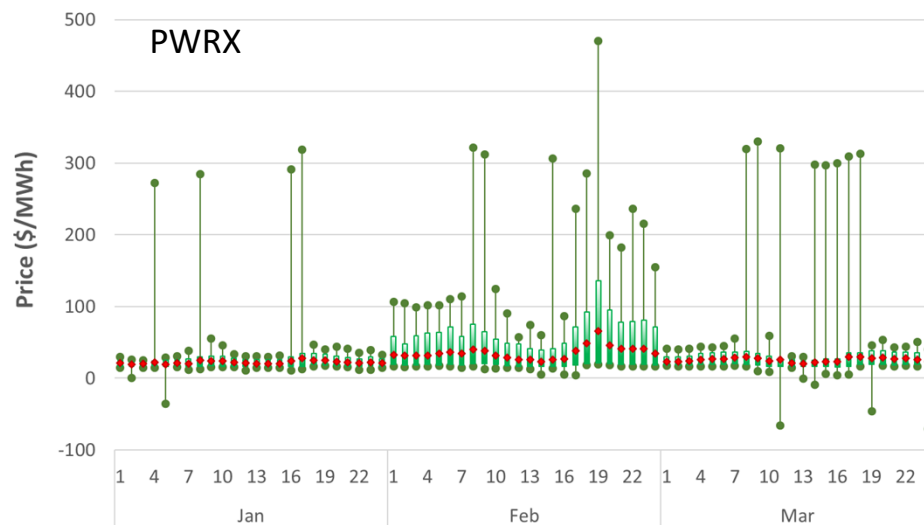
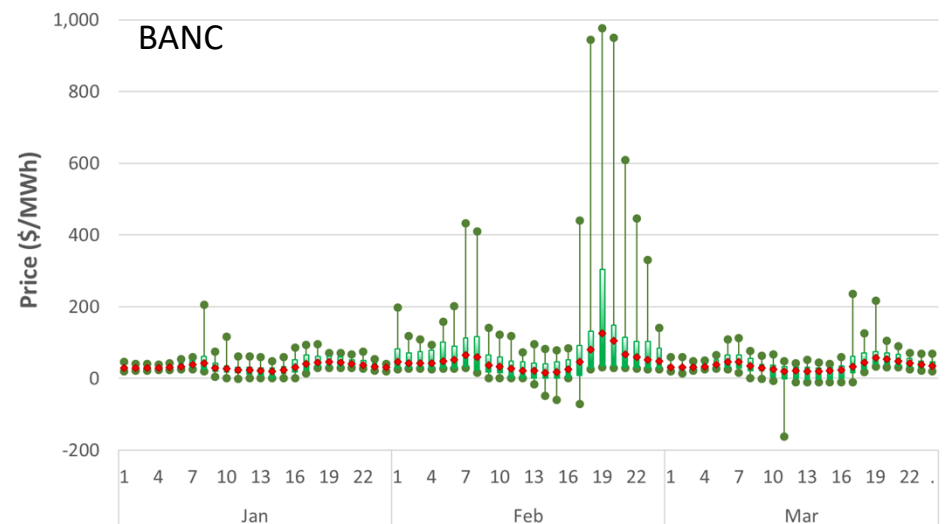
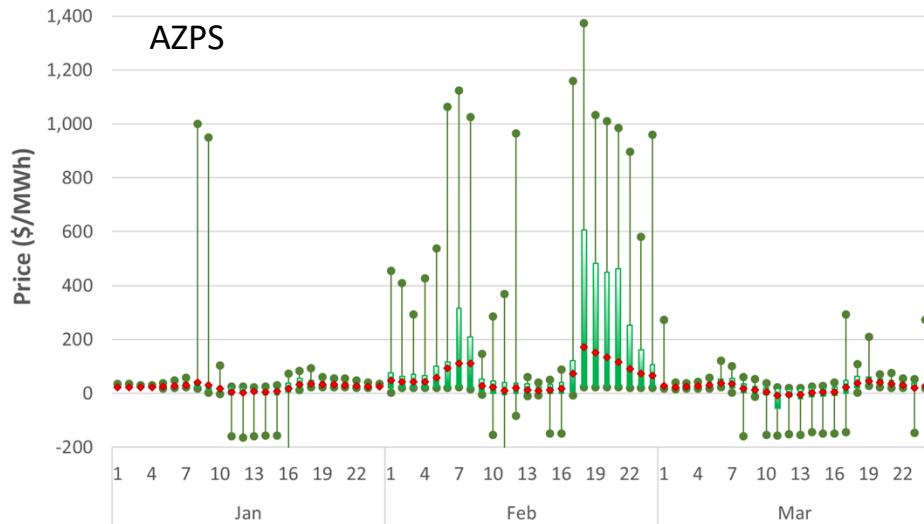




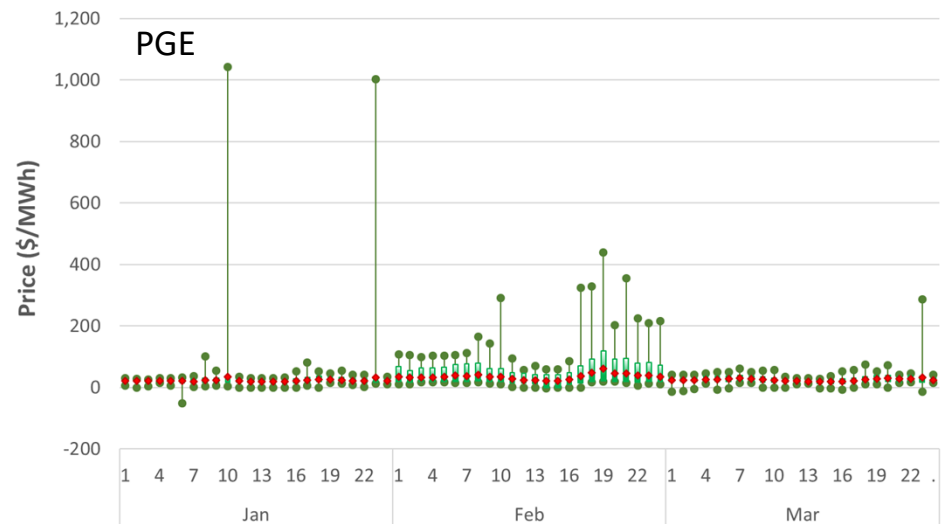
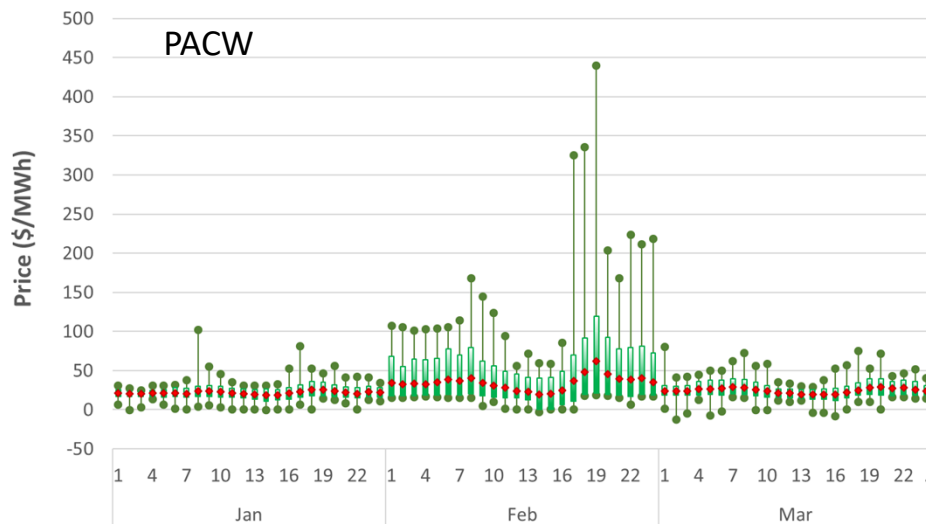
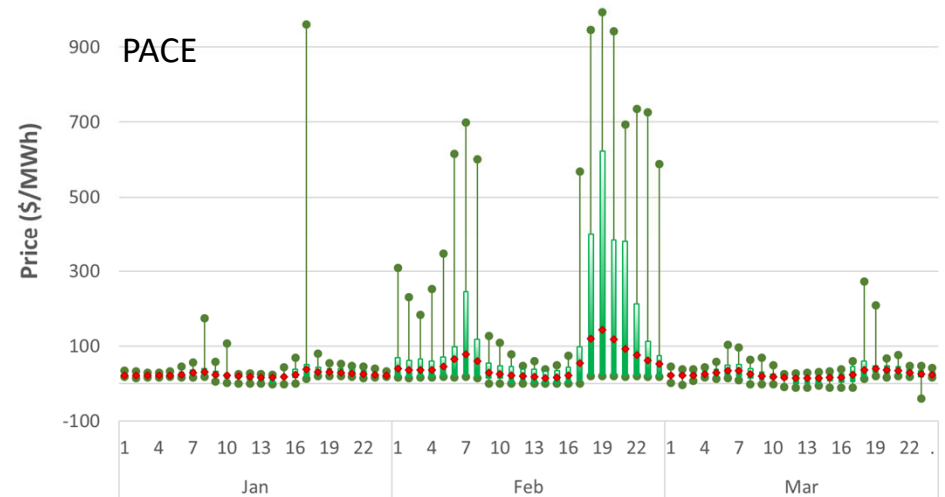
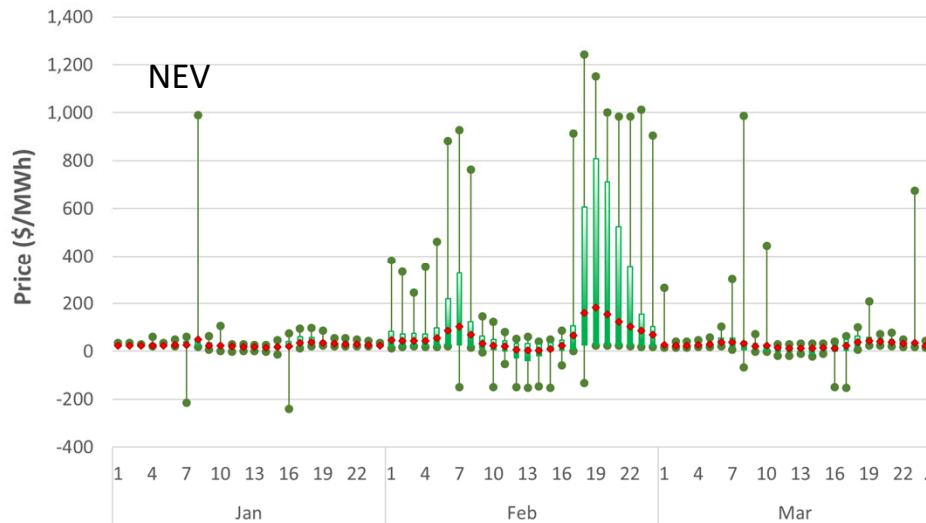
Appendix

Pricing Information

Fifteen-minute prices in Q1 2021



Fifteen-minute prices in Q1 2021



Fifteen-minute prices in Q1 2021

