



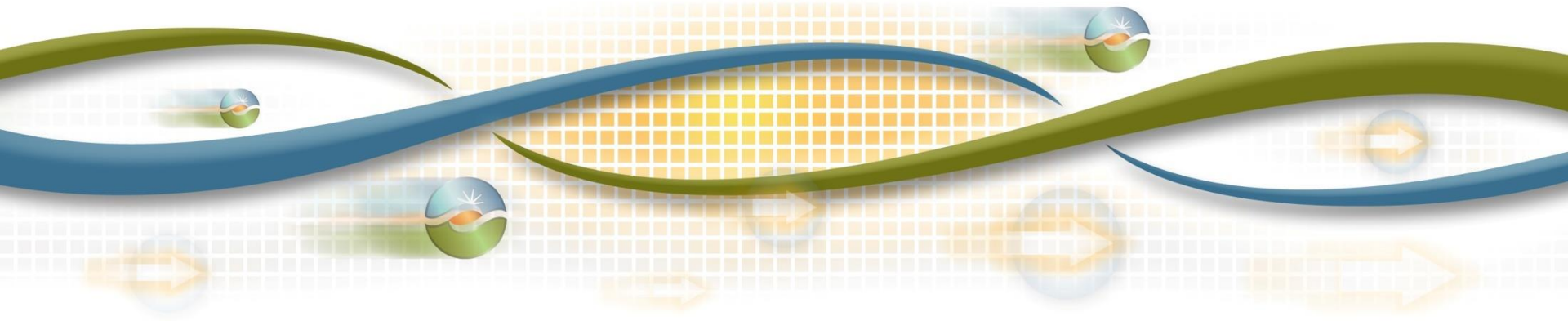
Briefing on renewable curtailments and the relationship between EIM transfers

Rahul Kalaskar

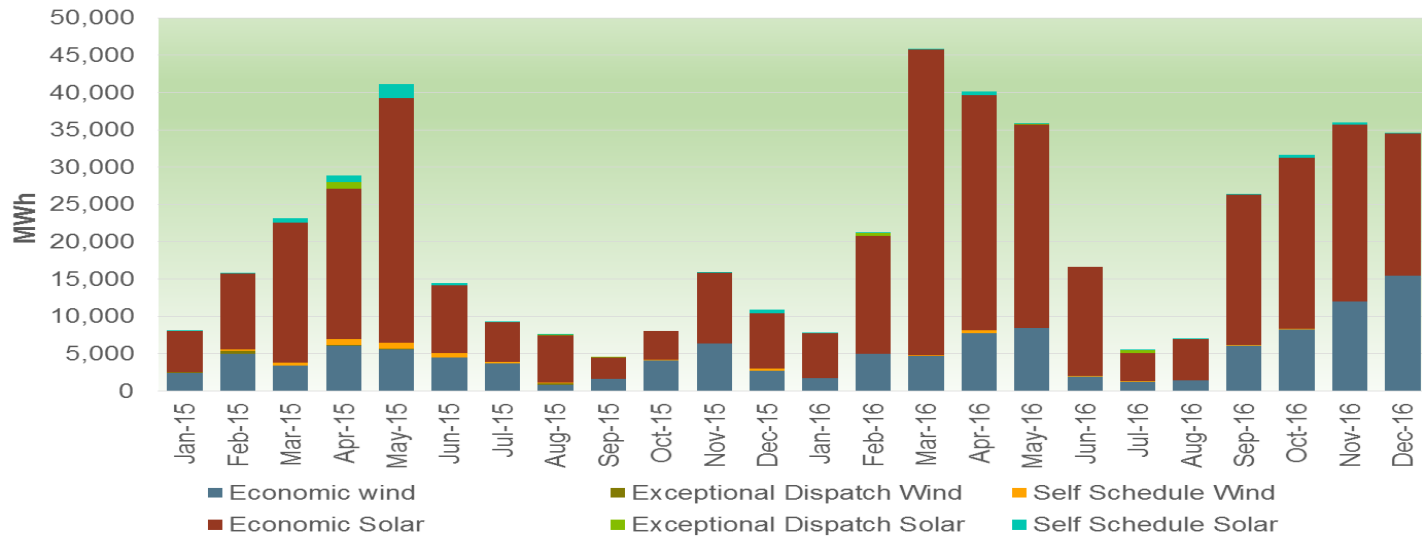
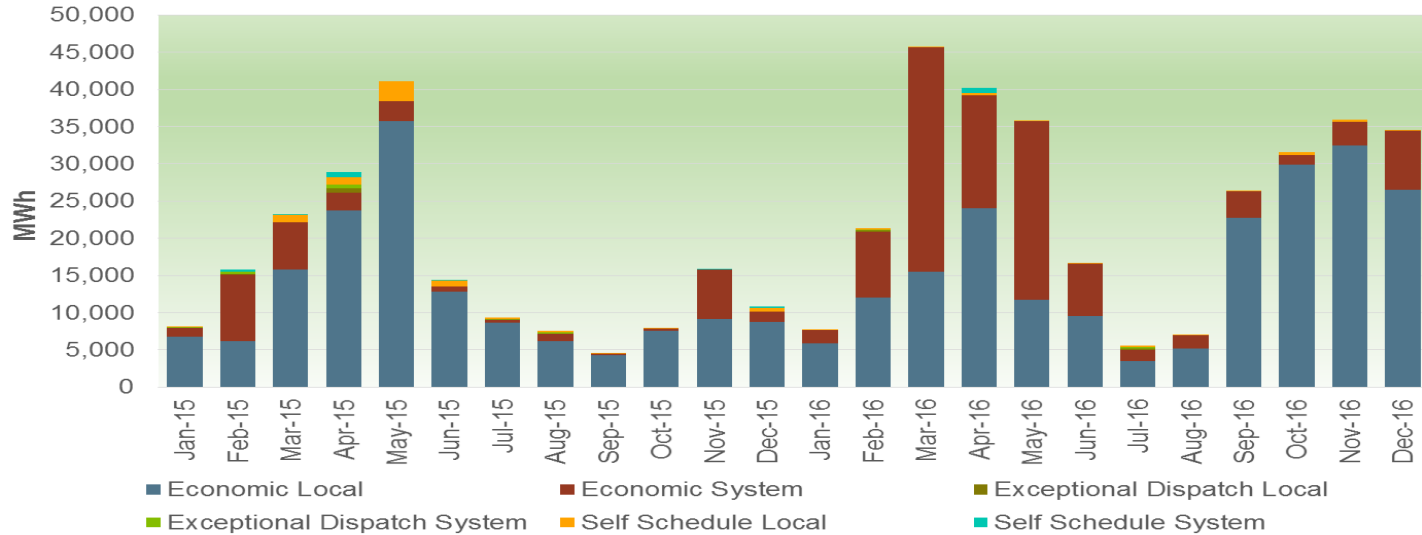
Market Validation and Quality Analyst Lead

Market Surveillance Committee Meeting

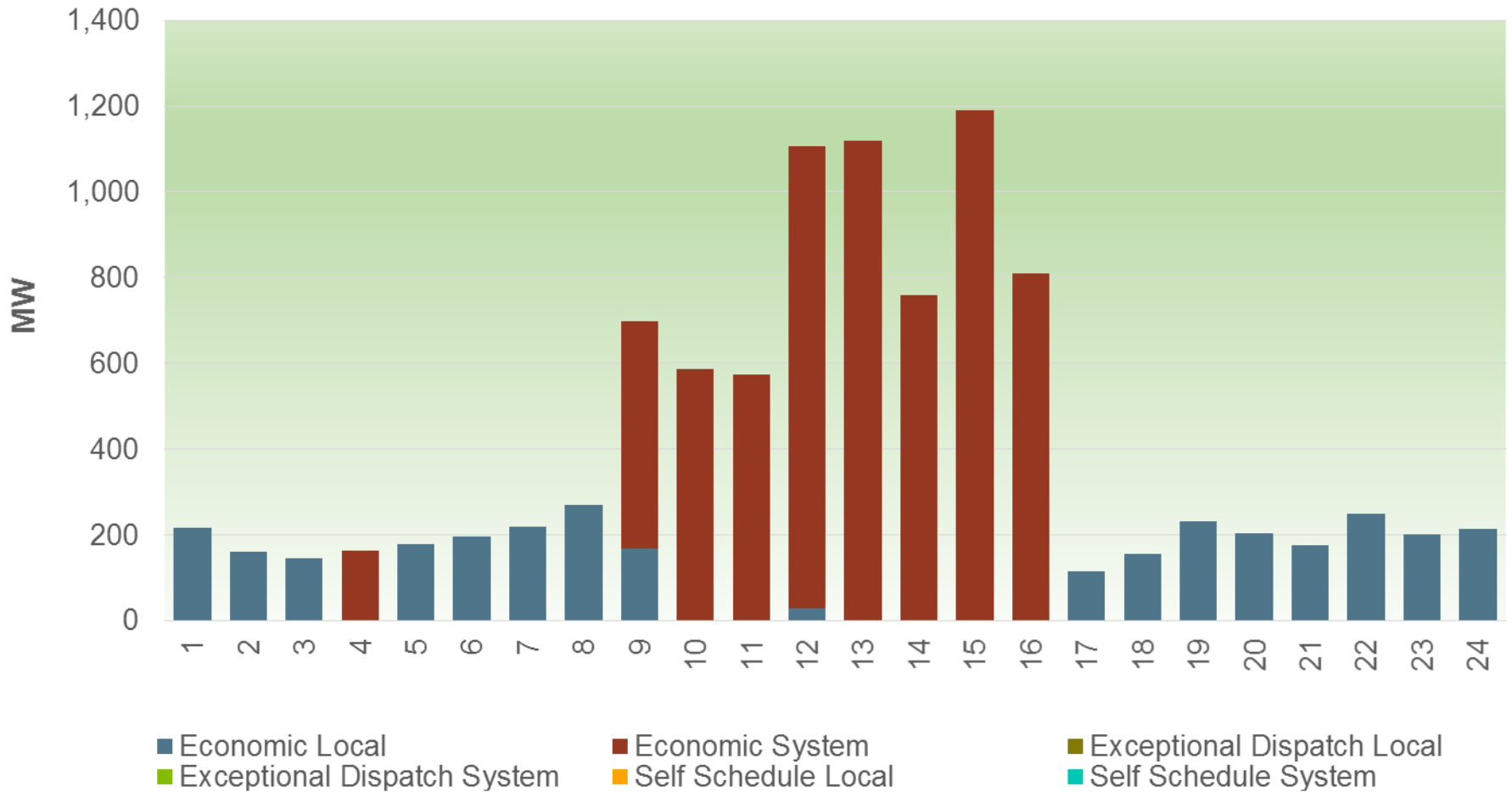
February 3, 2017



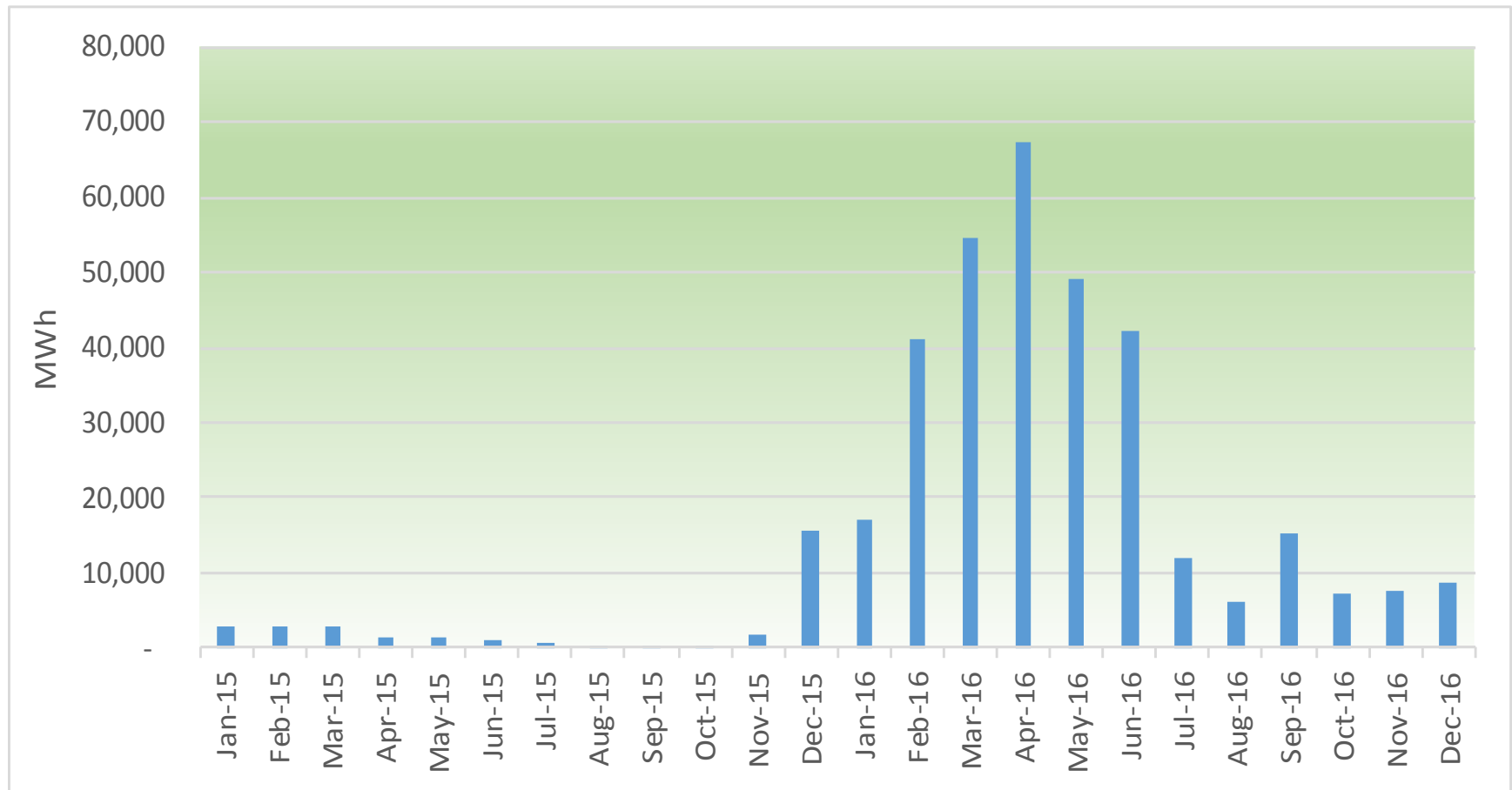
RTD renewable (VERS) curtailment trended upward since August 2016



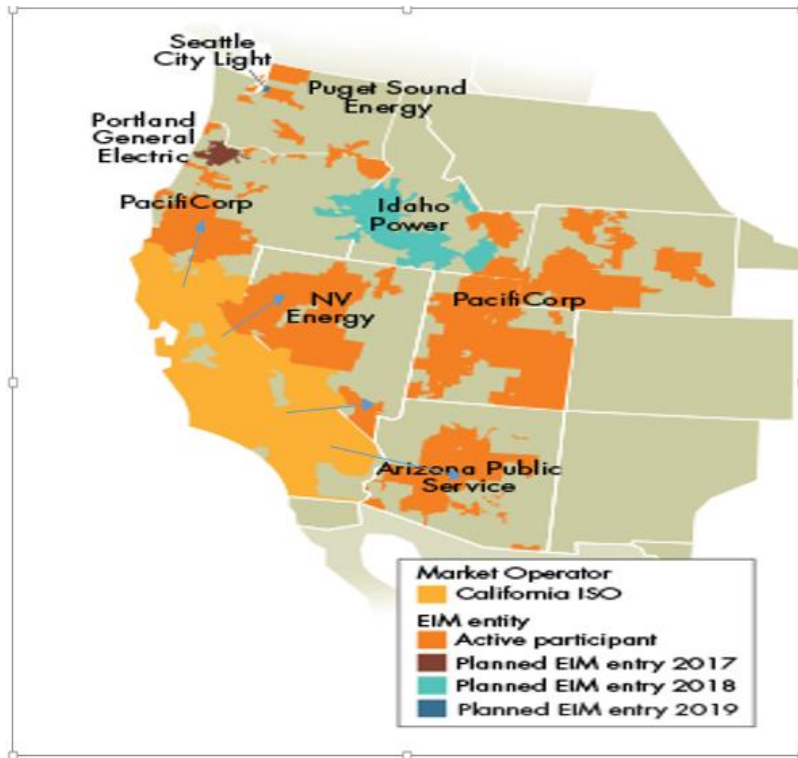
Hourly distribution of **maximum** RTD renewable (VERS) curtailment in December



Reduced Renewable Curtailment due to EIM transfers

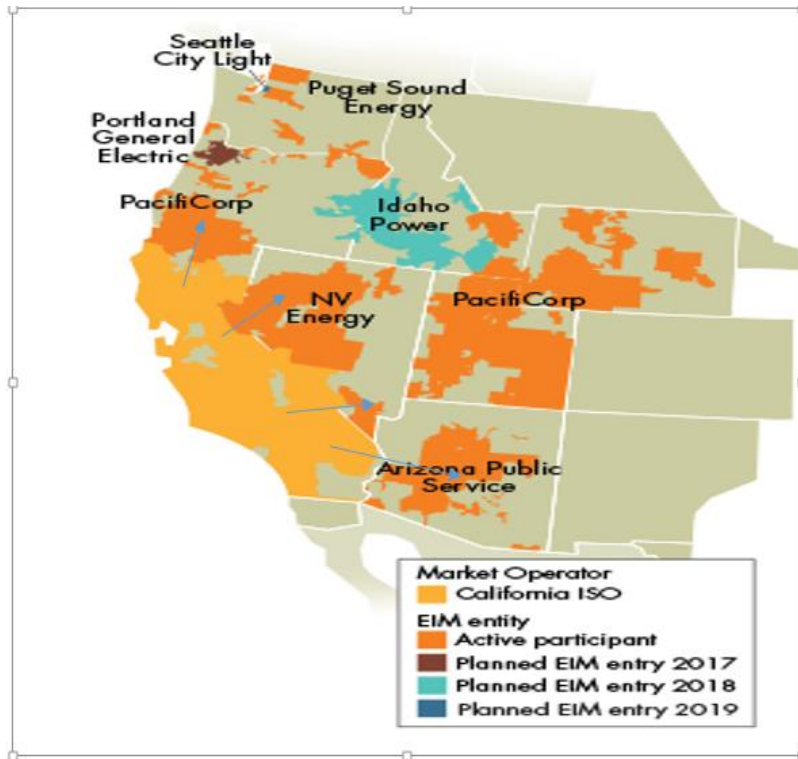


CAISO Export ETSR limits statistics for November 2016



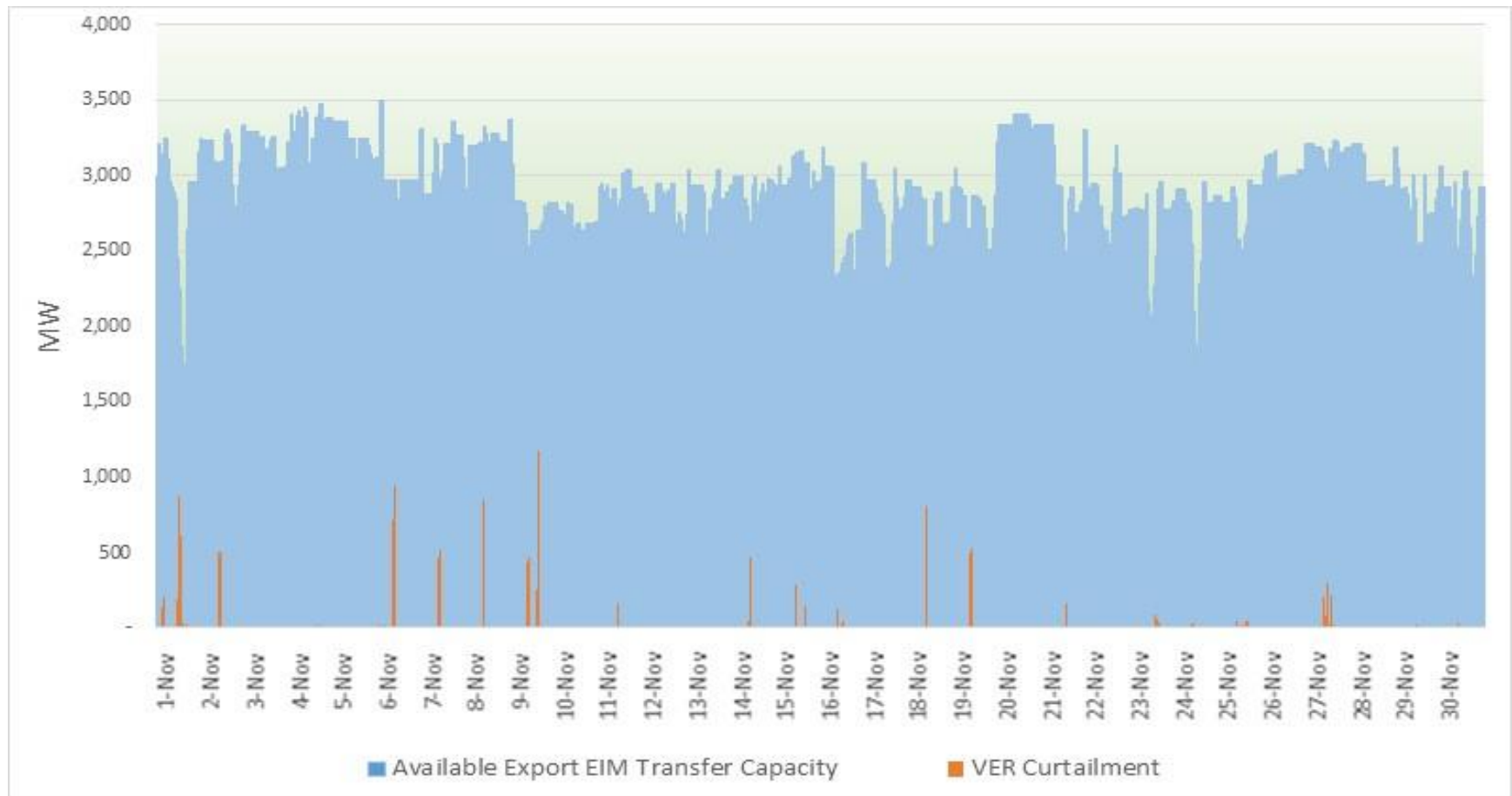
From BAA	To BAA	Path	Maximum	Average	Minimum
CAISO	AZPS	Nrthgila 500	295	143	0
CAISO	AZPS	Pvwest	1698	1,212	100
CAISO	AZPS	Westwing 500	349	311	0
CAISO	AZPS	Willowbeach	481	361	145
CAISO	NEVP	Eldorado 230	797	797	797
CAISO	NEVP	Summit 120	100	99	60
CAISO	PACW	Malin 500	50	49	0

CAISO Export ETSR limits statistics for December 2016



From BAA	To BAA	Path	Maximum	Average	Minimum
CAISO	AZPS	Nrthgila 500	188	114.4	0
CAISO	AZPS	Pvwest	2595	1,974.2	808
CAISO	AZPS	Westwing 500	236	235.8	223
CAISO	AZPS	Willowbeach	732	438.5	223
CAISO	NEVP	Eldorado 230	797	797.0	797
CAISO	NEVP	Summit 120	100	100.0	100
CAISO	PACW	Malin 500	200	52.8	0

Available Export EIM transfer Capacity in comparison to VER curtailment per five minute interval – November 2016



Available Export EIM transfer Capacity in comparison to VER curtailment per five minute interval – December 2016

