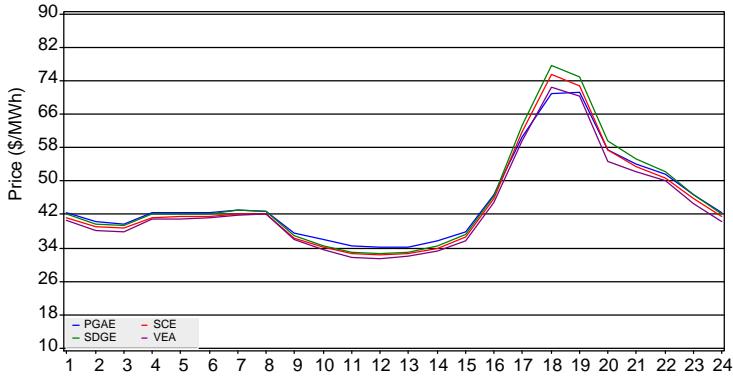


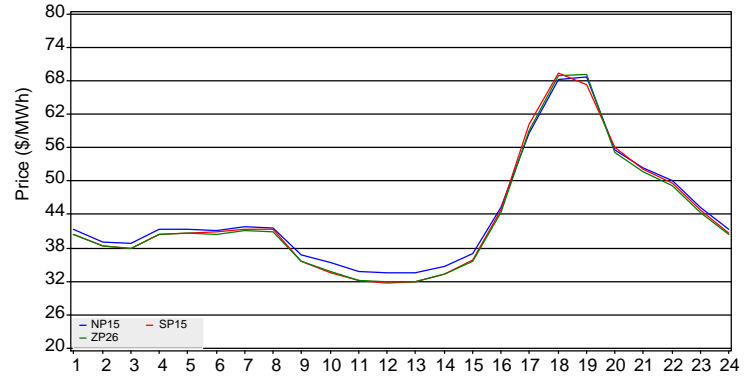
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

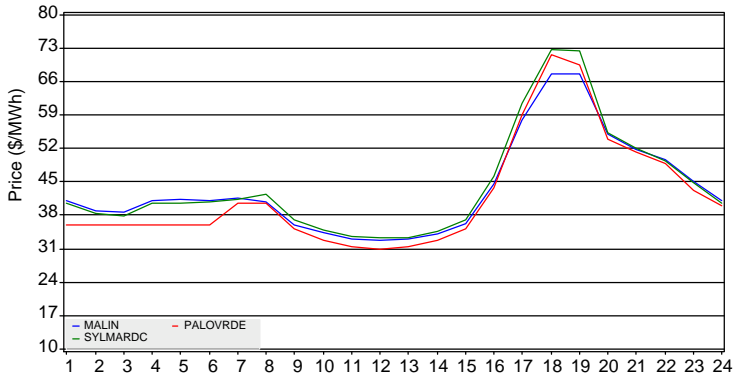
**IFM Default LAP LMPs**



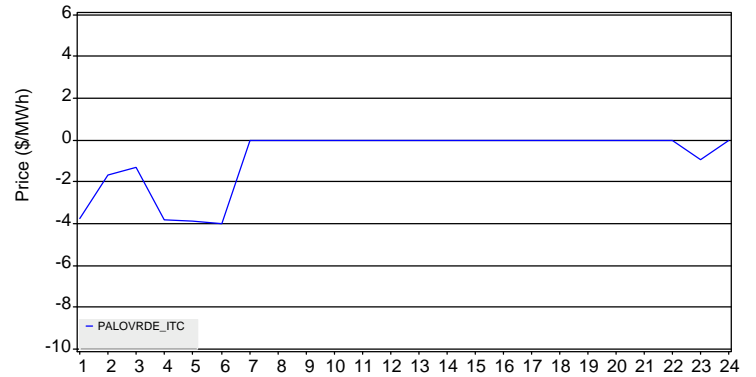
**IFM Trading Hub LMPs**



**Selected IFM Tie Point LMPs**



**Selected IFM Intertie Shadow Prices**



**IFM LMP Statistics for On-Peak and Off-Peak Hours (\$/MWh)**

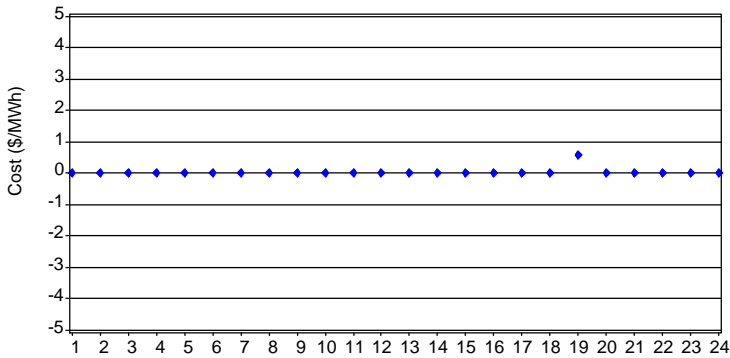
	NP15			SP15			ZP26			PG&E			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
<b>OFF</b>	68.77	44.03	33.54	69.28	43.33	31.70	69.15	43.18	31.84	71.31	45.30	34.19	75.45	44.63	32.31	77.51	45.55	32.59	72.44	43.59	31.36

**Selected IFM Intertie Congestion Rents**

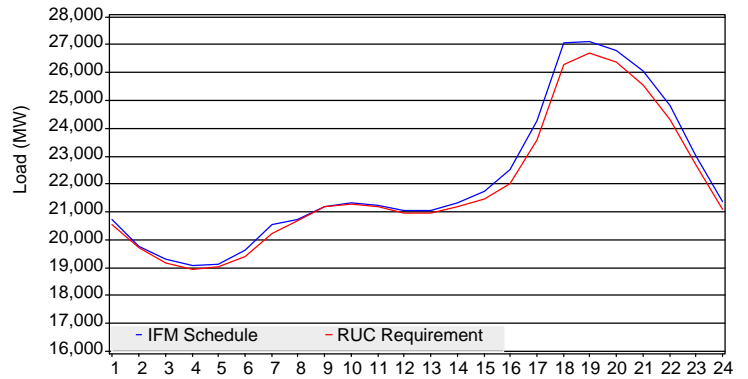
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
PALOVRDE_ITC	\$59,658.17	\$0.00	\$59,658.17	100.00%

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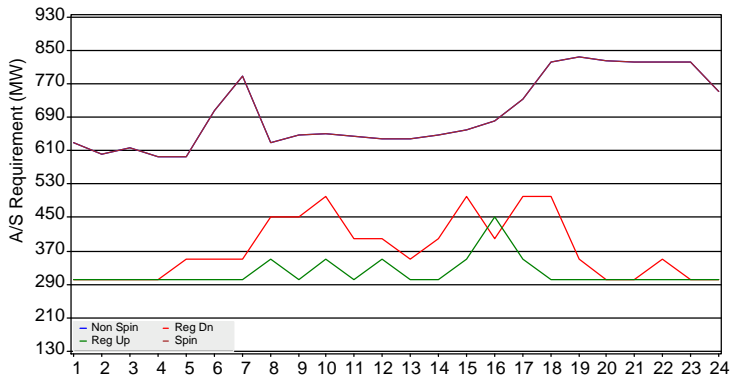
### RUC Cost to Underscheduled Load



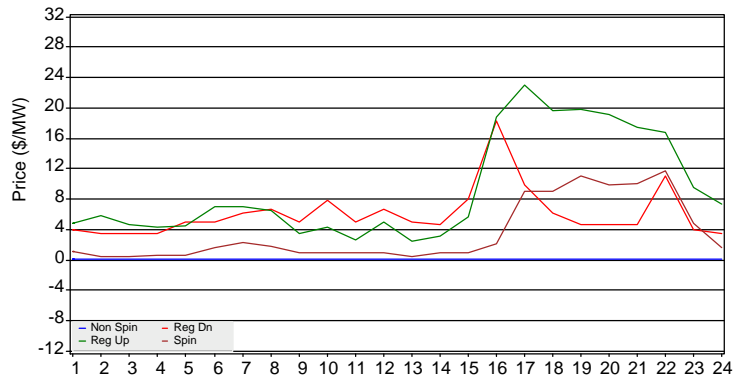
### IFM Cleared Quantity and RUC Requirement



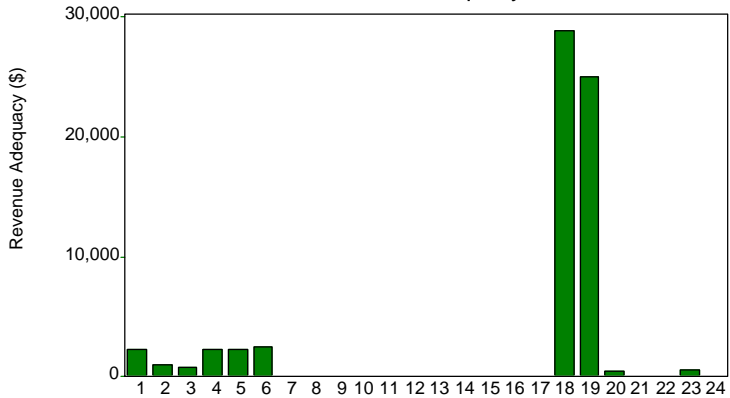
### A/S System Requirement



### A/S Average Price



### CRR Revenue Adequacy



### CRR Statistics

	16DEC2018	Cumulative
CONGESTION RENT	\$152,937.57	\$26,223,928.48
CRR PAYMENT	\$87,050.70	\$24,632,691.44
PERFECT HEDGE	.	\$1,713,578.72
CLAW BACK	.	\$1,433.52
CRR ADEQUACY	\$65,886.87	\$-120,908.16
ADEQUACY RATIO	175.69%	99.54%
AUCTION REVENUES	.	\$10,446,912.24
BALANCE ACCOUNT	.	\$10,326,004.08

\*The cumulative cost of perfect hedge is between 01DEC2018 and 13DEC2018

\*The cumulative cost of claw back is between 01DEC2018 and 13DEC2018