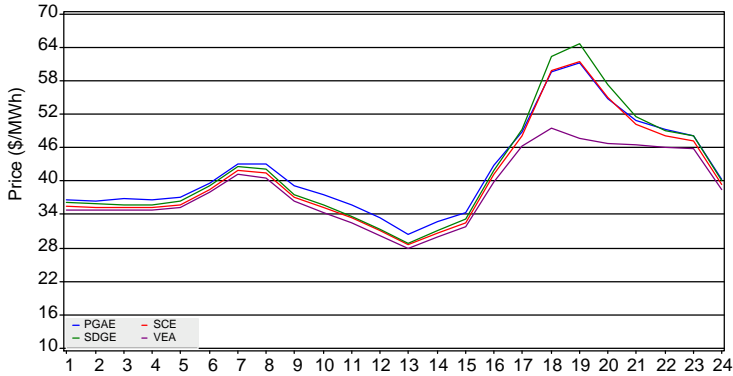


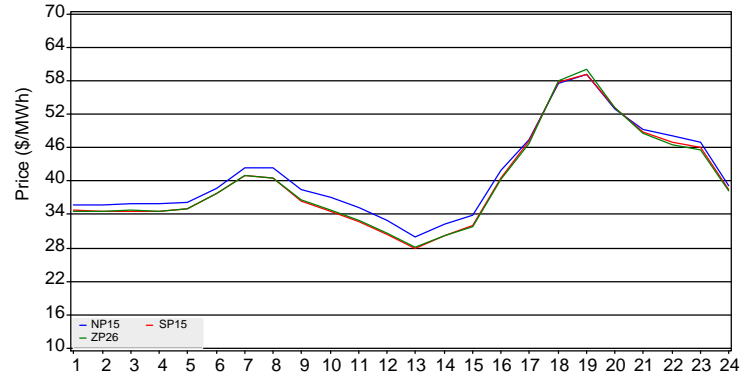
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

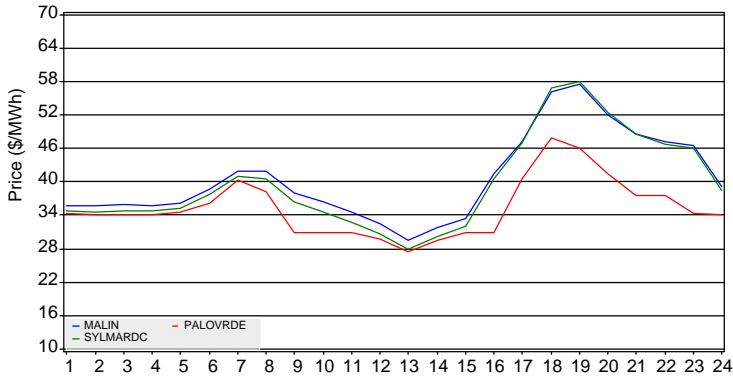
**IFM Default LAP LMPs**



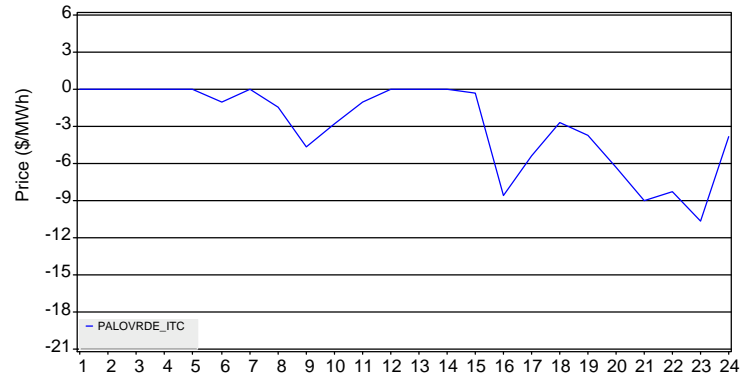
**IFM Trading Hub LMPs**



**Selected IFM Tie Point LMPs**



**Selected IFM Intertie Shadow Prices**



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

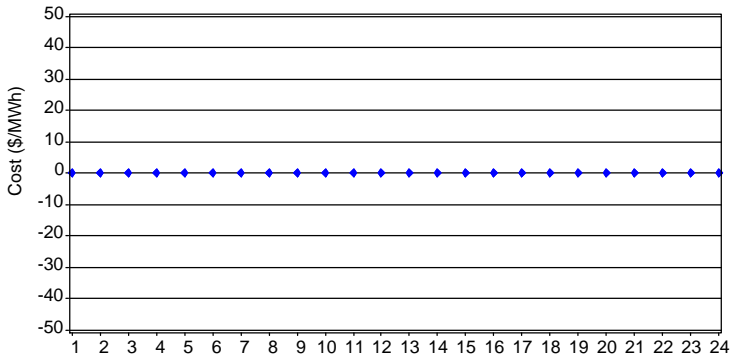
	NP15			SP15			ZP26			PG&E			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
<b>OFF</b>	46.95	38.05	35.66	45.95	37.00	34.56	45.69	36.92	34.53	48.19	38.94	36.43	47.09	37.80	35.30	48.14	38.44	35.80	45.82	37.10	34.73
<b>ON</b>	59.24	42.57	30.05	59.23	41.20	27.96	59.96	41.26	28.03	61.18	43.56	30.46	61.53	42.24	28.55	64.59	43.27	28.86	49.56	39.25	27.88

**Selected IFM Intertie Congestion Rents**

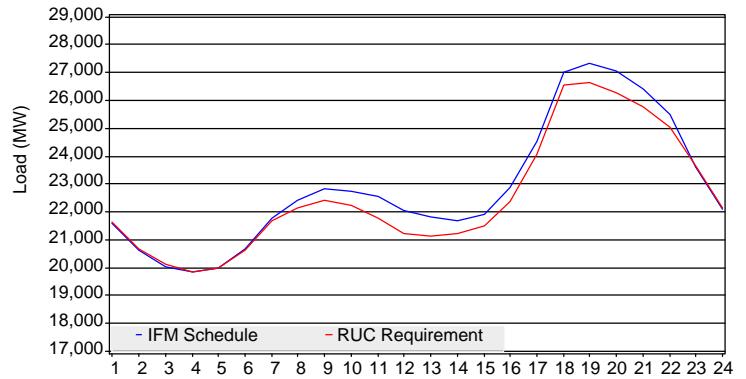
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
PALOVRDE_ITC	\$224,474.44	\$0.00	\$224,474.44	100.00%

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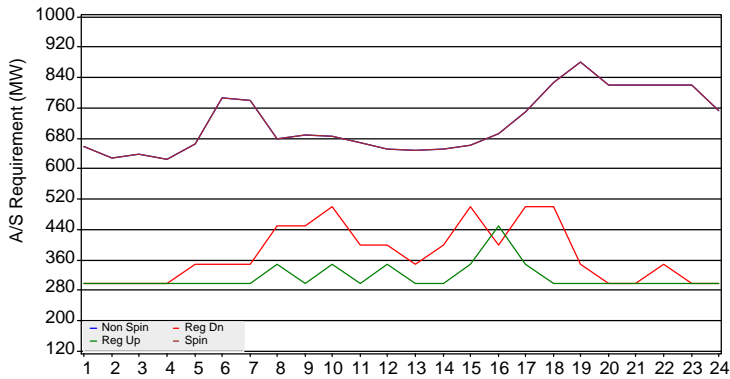
### RUC Cost to Underscheduled Load



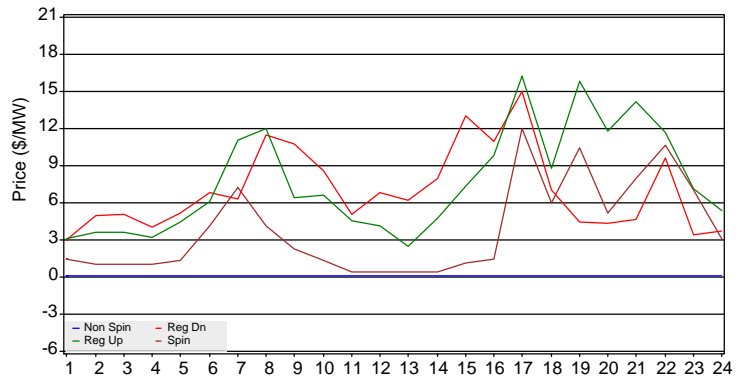
### IFM Cleared Quantity and RUC Requirement



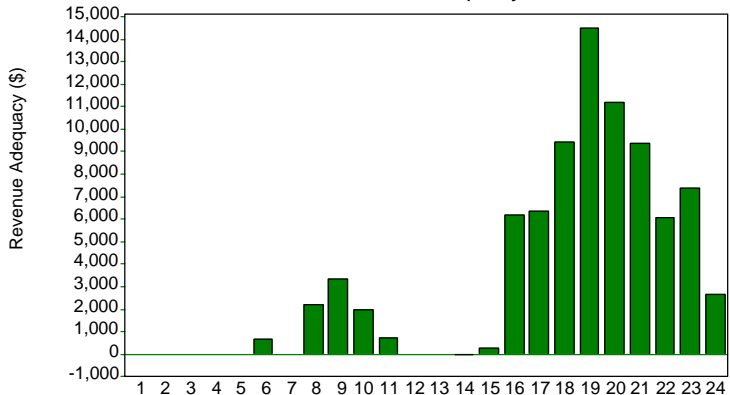
### A/S System Requirement



### A/S Average Price



### CRR Revenue Adequacy



### CRR Statistics

	22DEC2018	Cumulative
CONGESTION RENT	\$412,537.94	\$30,965,088.29
CRR PAYMENT	\$330,301.93	\$29,106,585.91
PERFECT HEDGE	.	\$2,151,418.04
CLAW BACK	.	\$1,803.83
CRR ADEQUACY	\$82,236.02	\$-291,111.82
ADEQUACY RATIO	124.90%	99.06%
AUCTION REVENUES	.	\$10,446,912.24
BALANCE ACCOUNT	.	\$10,155,800.42

\*The cumulative cost of perfect hedge is between 01DEC2018 and 22DEC2018

\*The cumulative cost of claw back is between 01DEC2018 and 21DEC2018