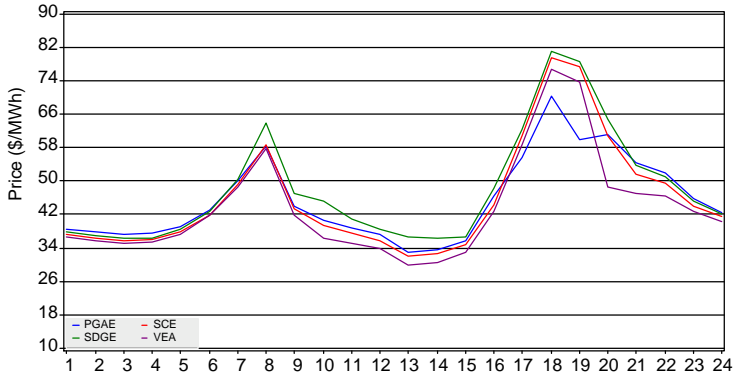


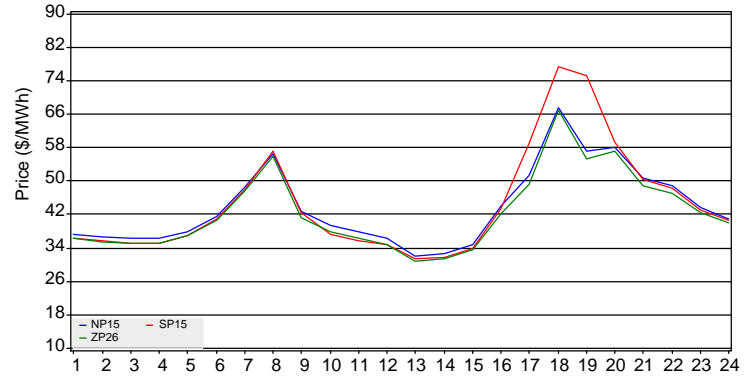
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

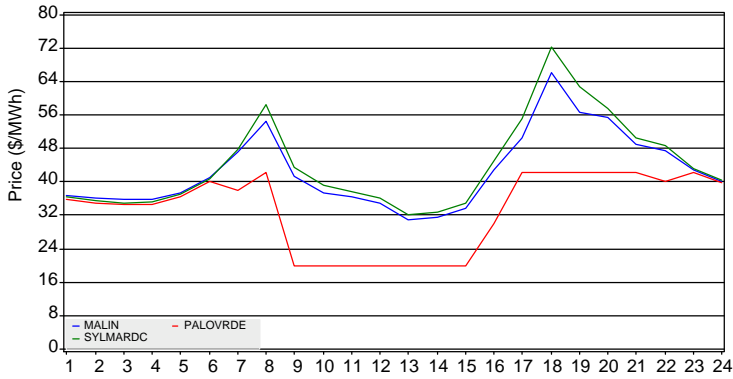
**IFM Default LAP LMPs**



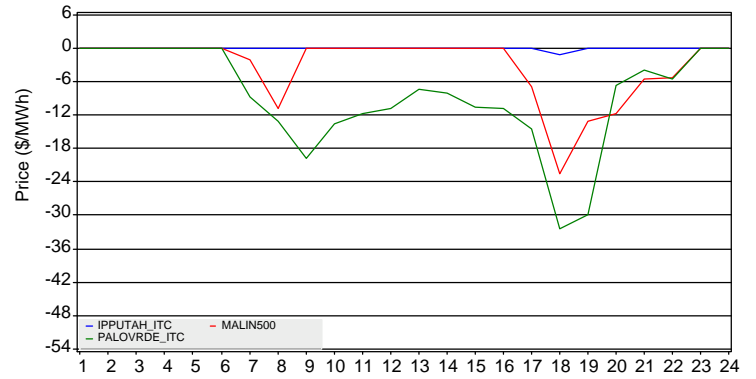
**IFM Trading Hub LMPs**



**Selected IFM Tie Point LMPs**



**Selected IFM Intertie Shadow Prices**



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

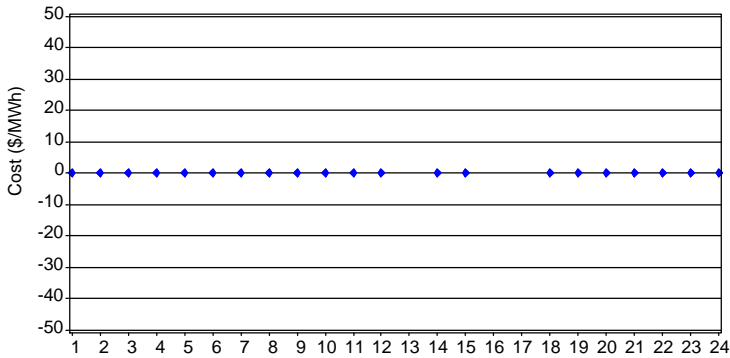
	NP15			SP15			ZP26			PG&E			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
<b>OFF</b>	43.65	38.84	36.29	43.12	37.99	35.04	42.59	37.82	35.11	45.80	40.15	37.35	44.07	38.78	35.76	45.24	39.54	36.35	42.76	38.10	35.02
<b>ON</b>	67.60	46.17	32.01	77.33	47.80	31.39	67.09	44.79	30.69	70.38	48.17	32.82	79.64	49.18	31.97	81.15	52.24	36.32	76.71	46.31	29.88

**Selected IFM Intertie Congestion Rents**

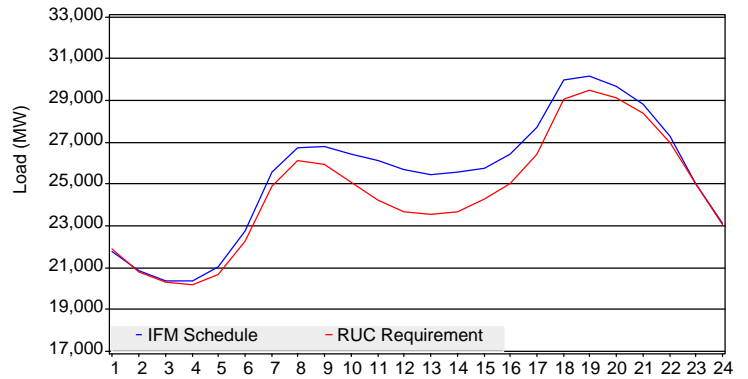
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
PALOVRDE_ITC	\$639,707.07	\$0.00	\$639,707.07	76.21%
MALIN500	\$199,459.90	\$0.00	\$199,459.90	23.76%
IPPUTAH_ITC	\$183.76	\$0.00	\$183.76	0.02%

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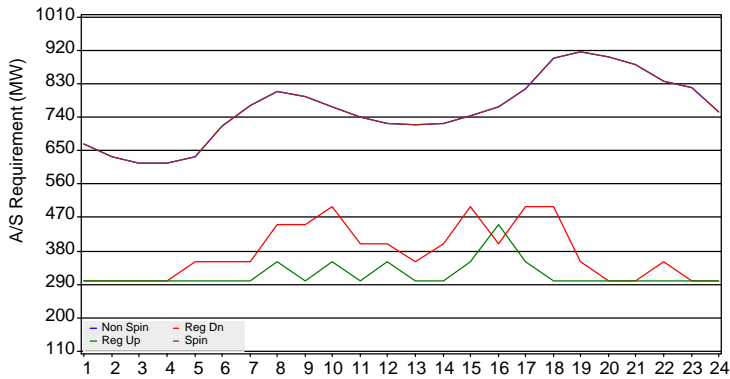
### RUC Cost to Underscheduled Load



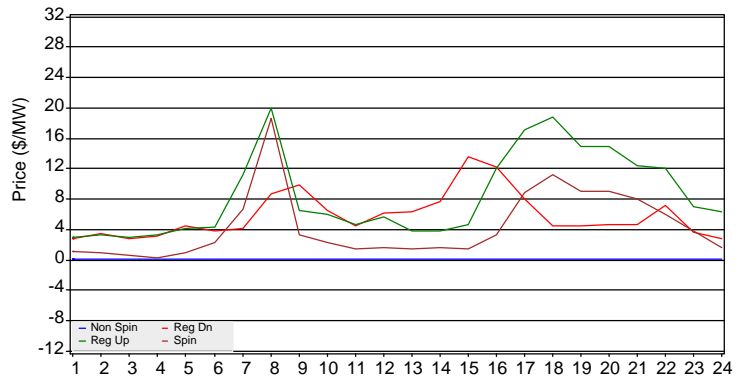
### IFM Cleared Quantity and RUC Requirement



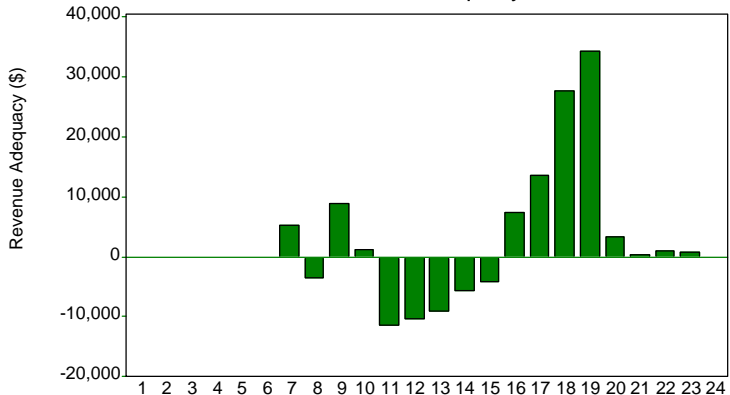
### A/S System Requirement



### A/S Average Price



### CRR Revenue Adequacy



### CRR Statistics

	18DEC2018	Cumulative
CONGESTION RENT	\$1,139,316.67	\$27,674,901.93
CRR PAYMENT	\$1,079,860.59	\$26,052,541.89
PERFECT HEDGE	.	\$1,833,543.50
CLAW BACK	.	\$1,489.44
CRR ADEQUACY	\$59,456.08	\$-209,694.02
ADEQUACY RATIO	105.51%	99.24%
AUCTION REVENUES	.	\$10,446,912.24
BALANCE ACCOUNT	.	\$10,237,218.23

\*The cumulative cost of perfect hedge is between 01DEC2018 and 15DEC2018

\*The cumulative cost of claw back is between 01DEC2018 and 15DEC2018