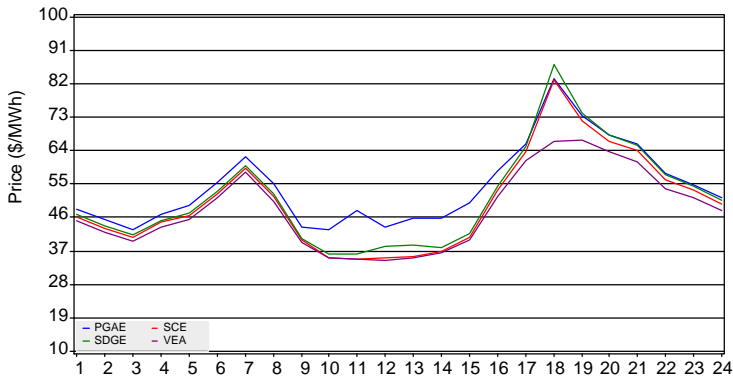


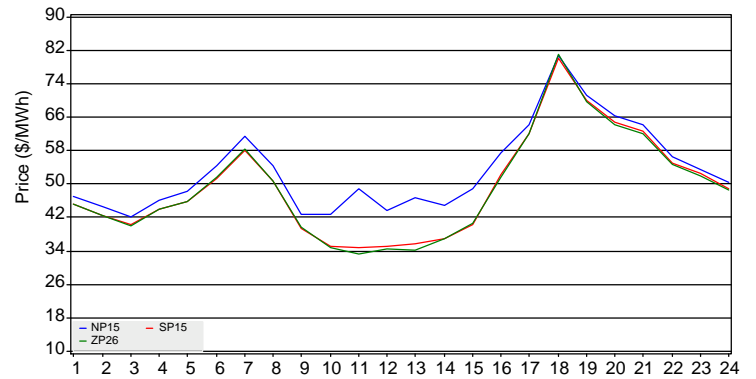
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

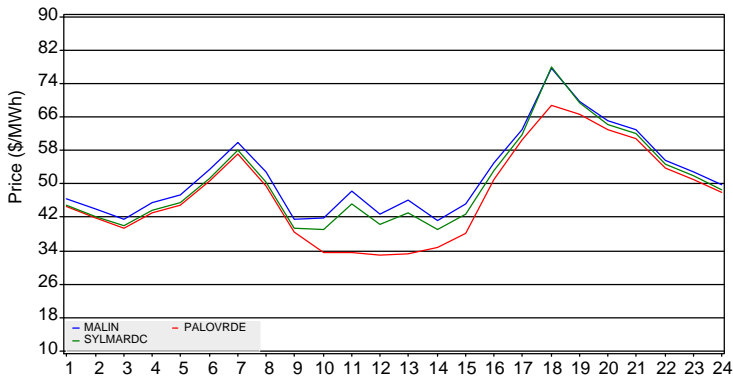
**IFM Default LAP LMPs**



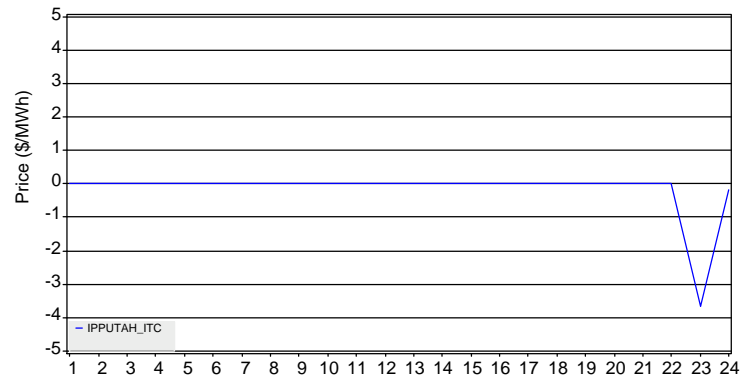
**IFM Trading Hub LMPs**



**Selected IFM Tie Point LMPs**



**Selected IFM Intertie Shadow Prices**



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

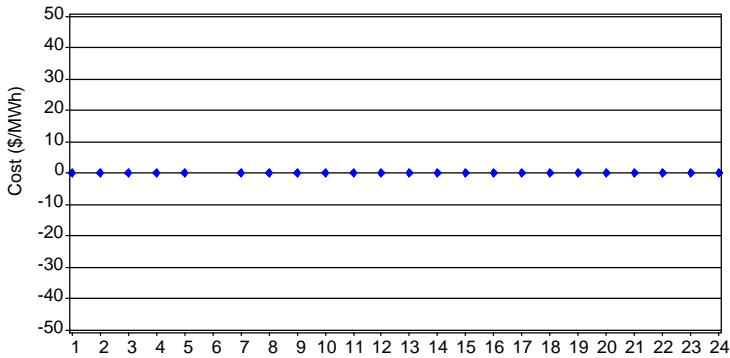
	NP15			SP15			ZP26			PG&E			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
<b>OFF</b>	54.46	48.34	42.09	52.49	46.32	40.17	51.88	46.17	40.14	55.44	49.26	42.83	53.38	47.09	40.81	54.26	47.72	41.28	51.38	45.79	39.68
<b>ON</b>	80.74	55.95	42.69	79.96	50.81	34.85	80.89	50.51	33.27	83.23	56.85	42.66	82.91	51.72	34.95	87.27	53.35	36.03	66.96	49.29	34.62

**Selected IFM Intertie Congestion Rents**

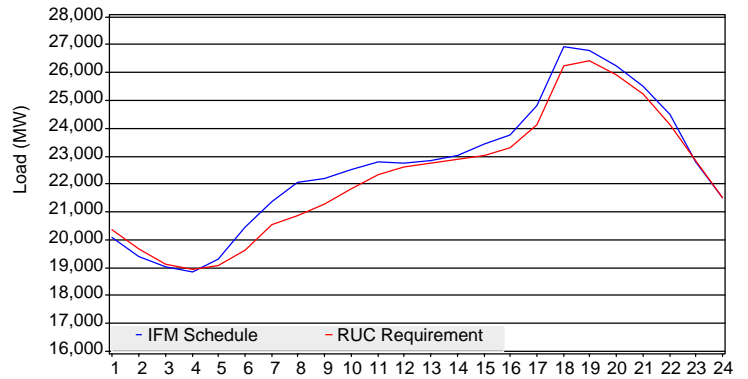
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
IPPUTAH_ITC	\$723.40	\$0.00	\$723.40	100.00%

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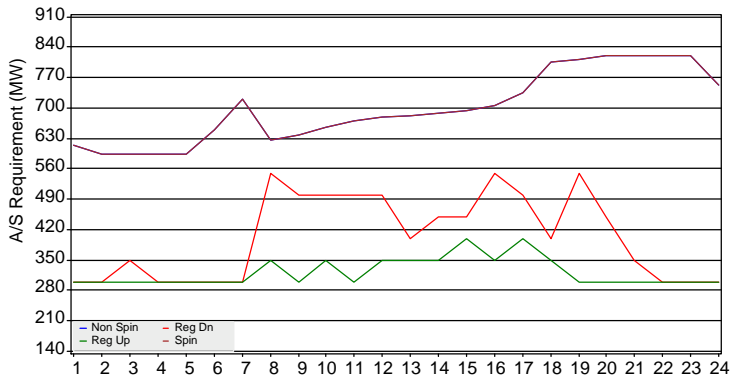
### RUC Cost to Underscheduled Load



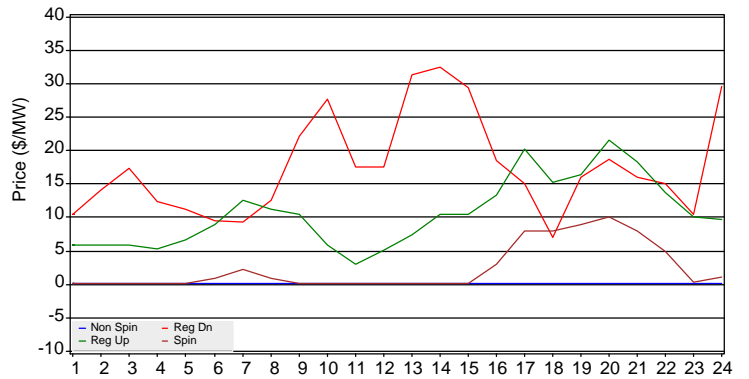
### IFM Cleared Quantity and RUC Requirement



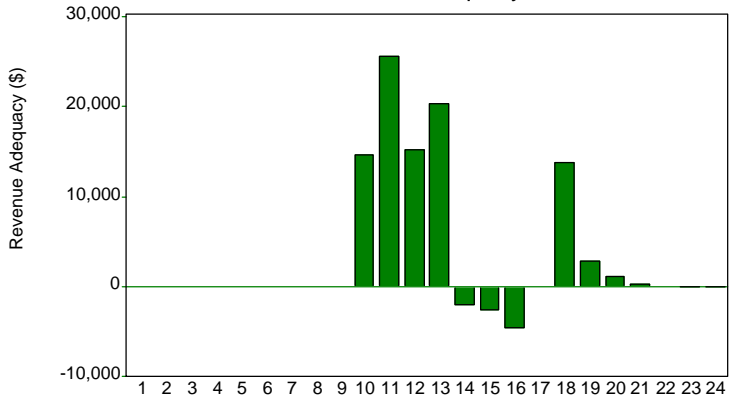
### A/S System Requirement



### A/S Average Price



### CRR Revenue Adequacy



### CRR Statistics

	23NOV2018	Cumulative
CONGESTION RENT	\$396,544.30	\$26,298,039.79
CRR PAYMENT	\$311,878.53	\$35,132,531.69
PERFECT HEDGE	.	\$-239,888.95
CLAW BACK	.	\$66,038.36
CRR ADEQUACY	\$84,665.78	\$-8,528,564.59
ADEQUACY RATIO	127.15%	75.37%
AUCTION REVENUES	.	\$7,753,511.72
BALANCE ACCOUNT	.	\$-775,052.87

\*The cumulative cost of perfect hedge is between 01NOV2018 and 20NOV2018

\*The cumulative cost of claw back is between 01NOV2018 and 20NOV2018