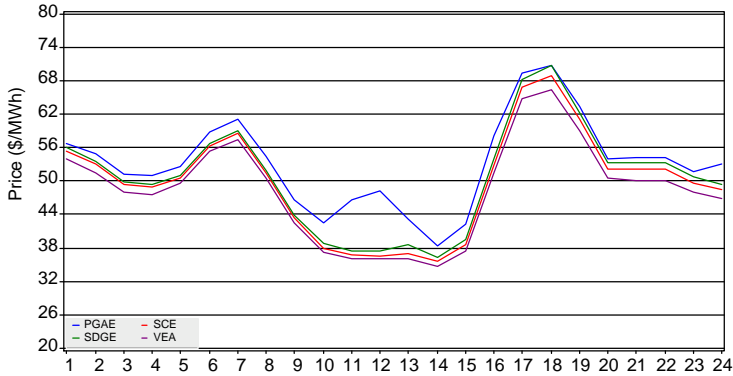


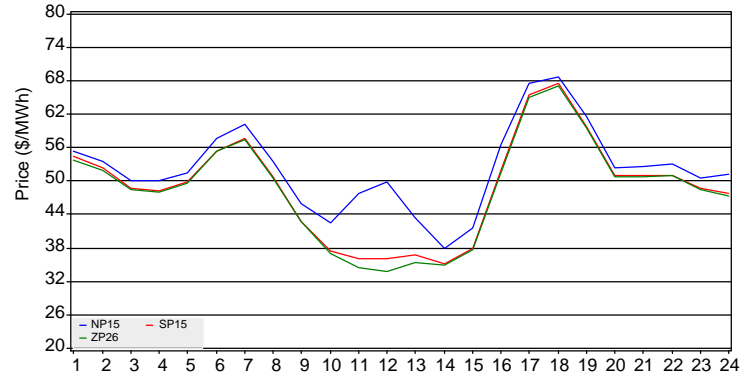
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

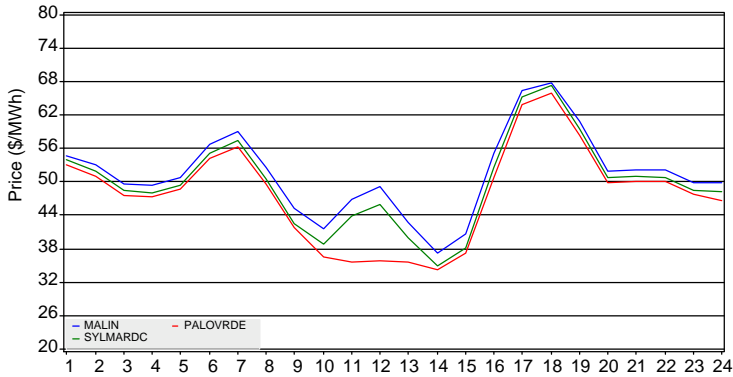
**IFM Default LAP LMPs**



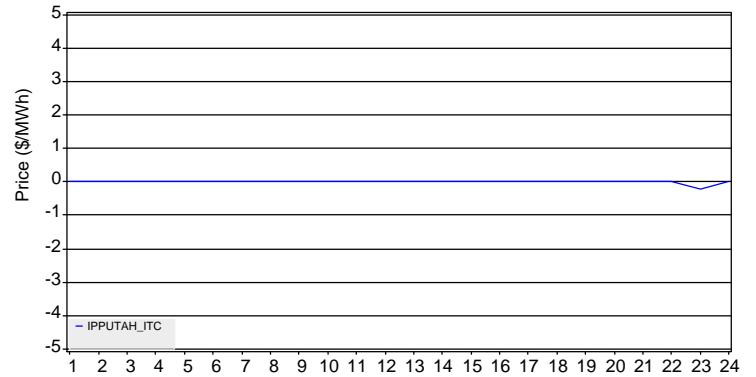
**IFM Trading Hub LMPs**



**Selected IFM Tie Point LMPs**



**Selected IFM Intertie Shadow Prices**



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

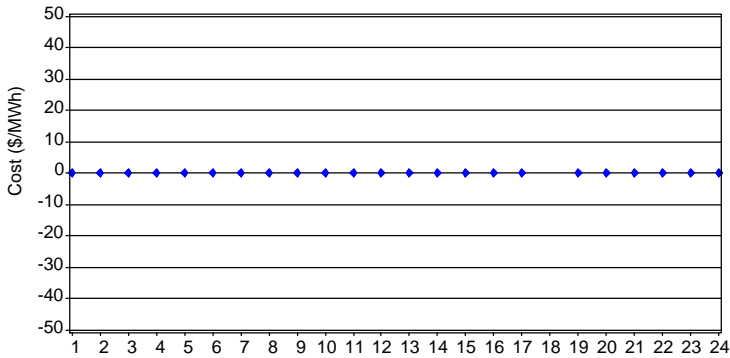
	NP15			SP15			ZP26			PG&E			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
<b>OFF</b>	68.68	52.30	37.85	67.49	48.91	35.10	66.98	48.43	33.85	70.78	53.21	38.39	69.00	49.74	35.72	70.76	50.62	36.37	66.50	48.37	34.65

**Selected IFM Intertie Congestion Rents**

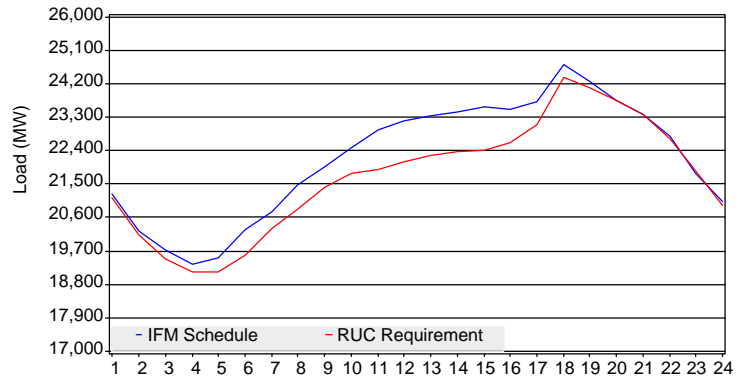
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
IPPUTAH_ITC	\$40.98	\$0.00	\$40.98	100.00%

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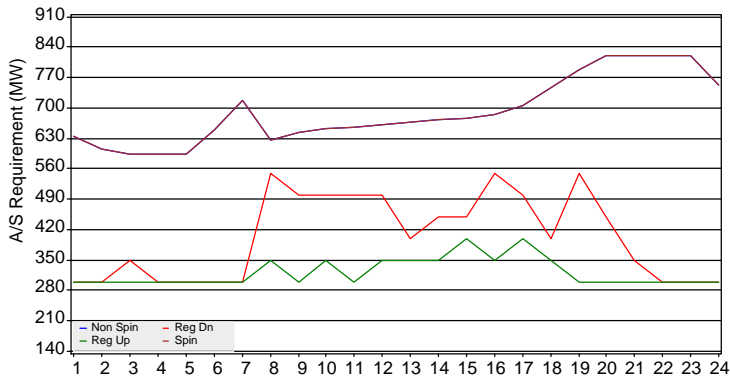
### RUC Cost to Underscheduled Load



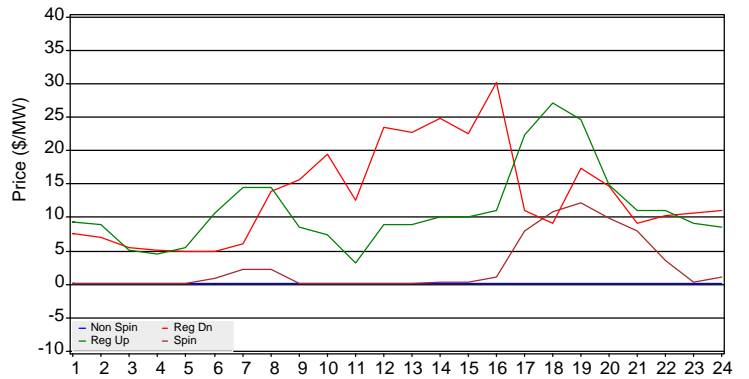
### IFM Cleared Quantity and RUC Requirement



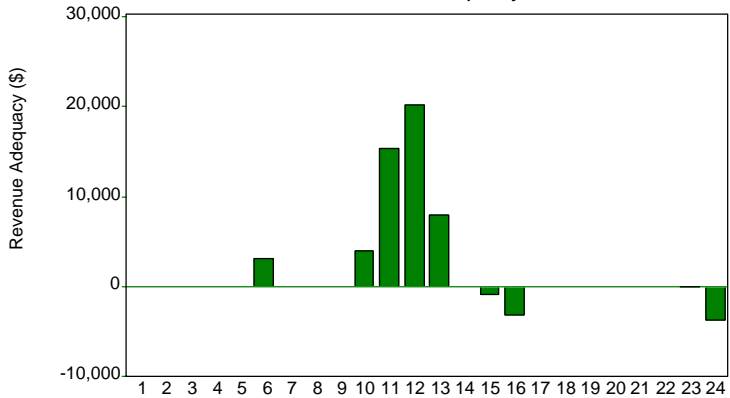
### A/S System Requirement



### A/S Average Price



### CRR Revenue Adequacy



### CRR Statistics

	22NOV2018	Cumulative
CONGESTION RENT	\$131,746.70	\$25,901,495.49
CRR PAYMENT	\$88,697.45	\$34,820,653.17
PERFECT HEDGE	.	\$-122,705.88
CLAW BACK	.	\$66,000.10
CRR ADEQUACY	\$43,049.25	\$-8,730,451.70
ADEQUACY RATIO	148.53%	74.65%
AUCTION REVENUES	.	\$7,753,511.72
BALANCE ACCOUNT	.	\$-976,939.98

\*The cumulative cost of perfect hedge is between 01NOV2018 and 19NOV2018

\*The cumulative cost of claw back is between 01NOV2018 and 19NOV2018