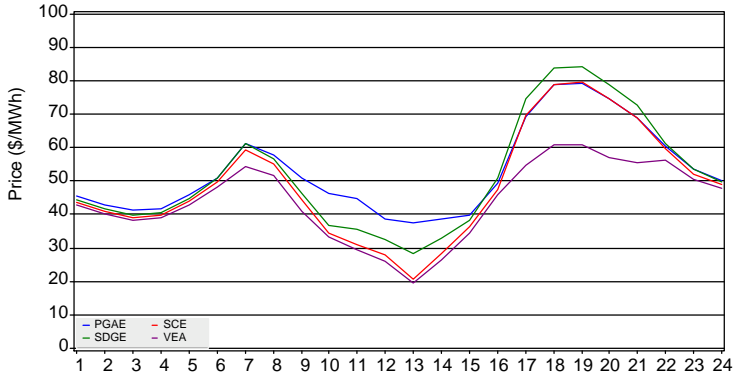


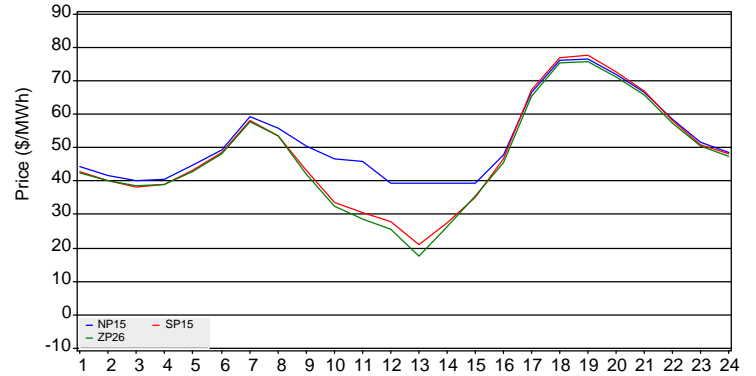
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

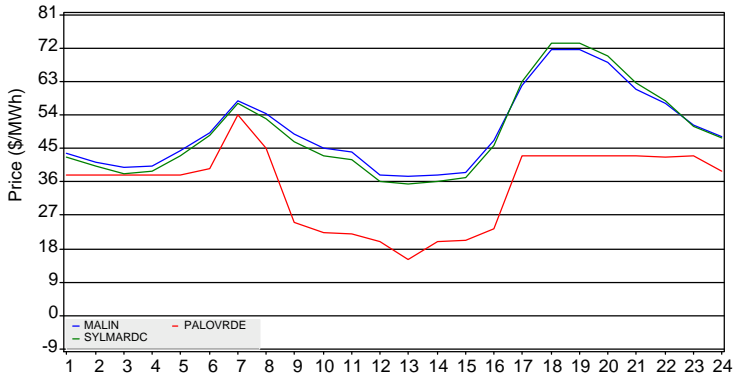
**IFM Default LAP LMPs**



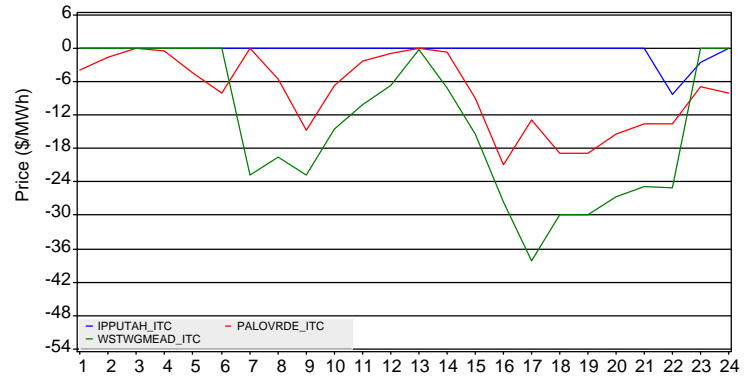
**IFM Trading Hub LMPs**



**Selected IFM Tie Point LMPs**



**Selected IFM Intertie Shadow Prices**



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

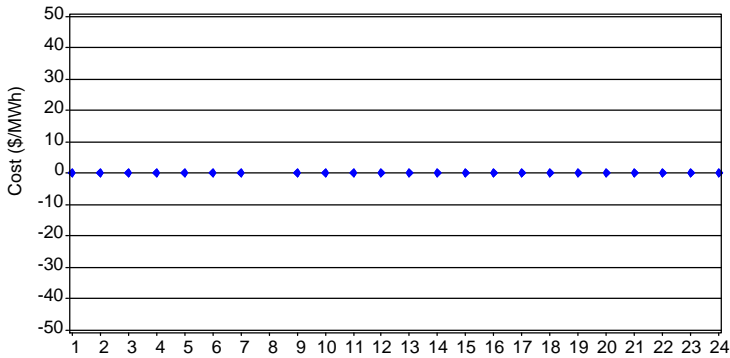
	NP15			SP15			ZP26			PGAE			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
<b>OFF</b>	51.60	45.12	40.16	50.96	43.92	38.38	50.46	43.69	38.43	53.50	46.56	41.31	52.23	44.88	39.19	53.40	45.67	39.77	50.47	43.80	38.31
<b>ON</b>	76.42	54.95	39.18	77.70	49.79	20.91	75.85	48.51	17.59	79.20	55.98	37.56	79.72	51.03	20.70	84.02	54.67	28.19	60.68	44.15	19.49

**Selected IFM Intertie Congestion Rents**

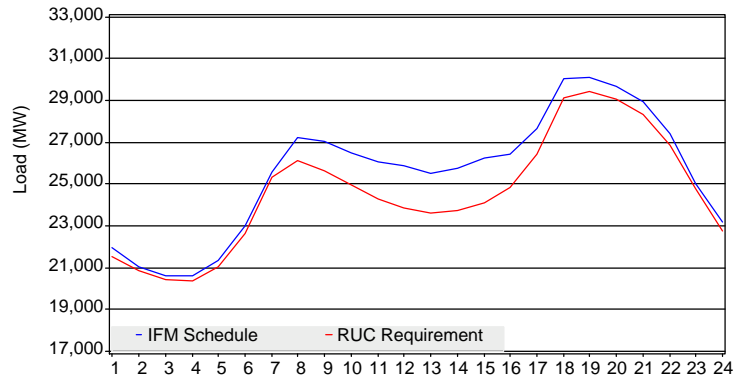
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
PALOVRDE_ITC	\$580,914.95	\$0.00	\$580,914.95	91.43%
WSTWGMEAD_ITC	\$52,438.99	\$0.00	\$52,438.99	8.25%
IPPUTAH_ITC	\$2,039.23	\$0.00	\$2,039.23	0.32%

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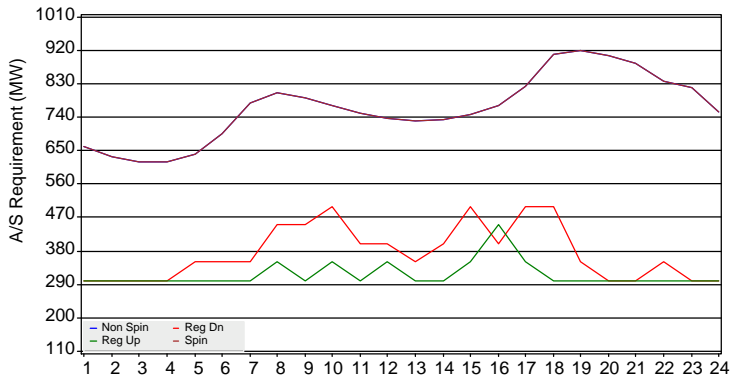
### RUC Cost to Underscheduled Load



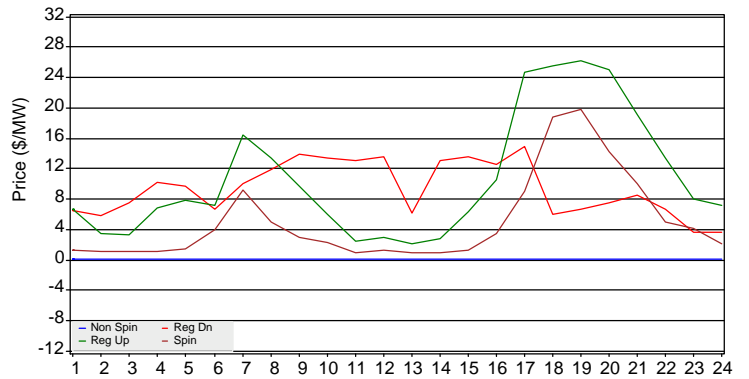
### IFM Cleared Quantity and RUC Requirement



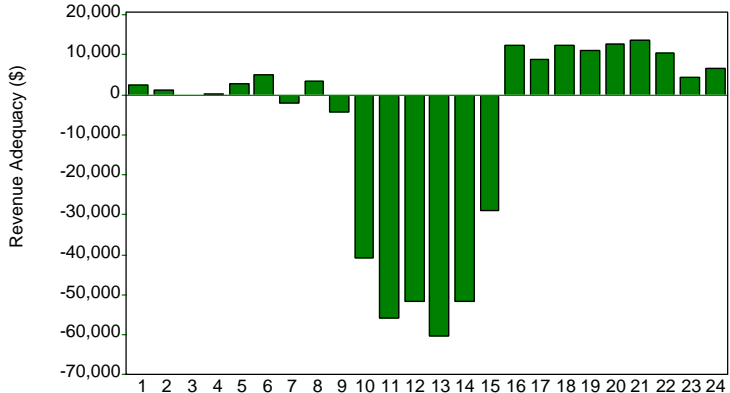
### A/S System Requirement



### A/S Average Price



### CRR Revenue Adequacy



### CRR Statistics

	13DEC2018	Cumulative
CONGESTION RENT	\$1,621,734.04	\$24,460,703.22
CRR PAYMENT	\$1,810,678.88	\$23,012,430.65
PERFECT HEDGE	.	\$1,332,829.24
CLAW BACK	.	\$490.15
CRR ADEQUACY	-\$188,944.84	\$115,933.48
ADEQUACY RATIO	89.56%	100.47%
AUCTION REVENUES	.	\$10,446,912.24
BALANCE ACCOUNT	.	\$10,562,845.72

\*The cumulative cost of perfect hedge is between 01DEC2018 and 10DEC2018

\*The cumulative cost of claw back is between 01DEC2018 and 10DEC2018