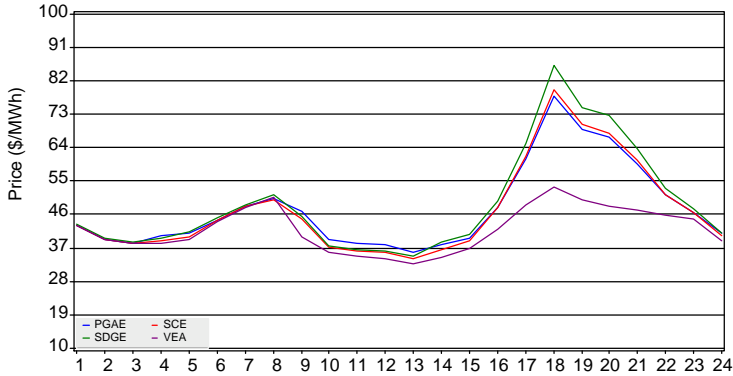


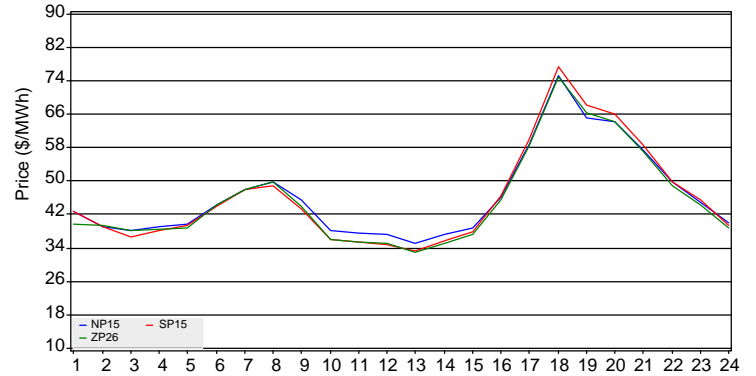
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(Note: An explanation of all metrics is available in the Day-Ahead Daily Market Watch Metric Catalog at <http://www.caiso.com/Documents/Day-AheadDailyMarketWatchMetricCatalog.pdf>)

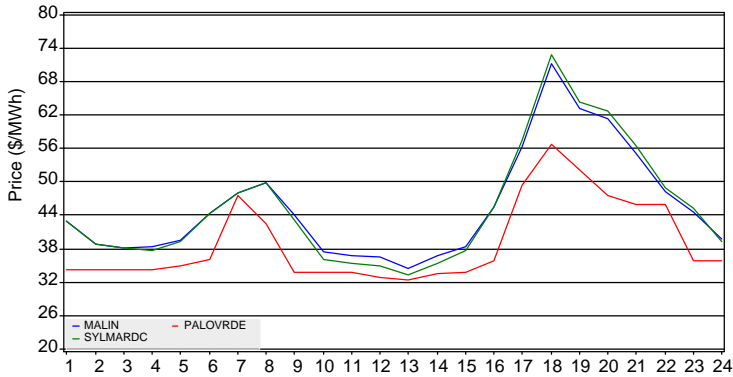
IFM Default LAP LMPs



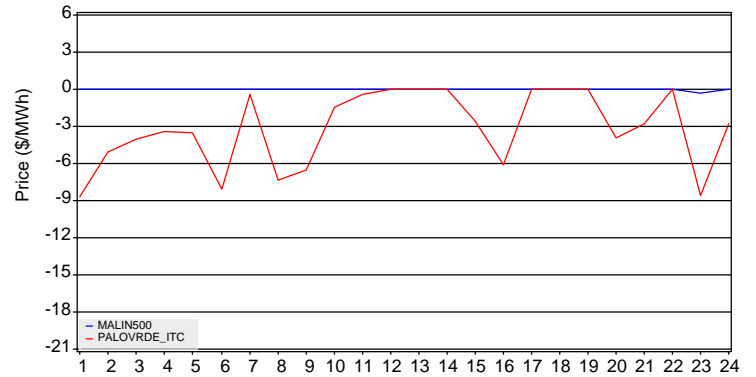
IFM Trading Hub LMPs



Selected IFM Tie Point LMPs



Selected IFM Intertie Shadow Prices



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

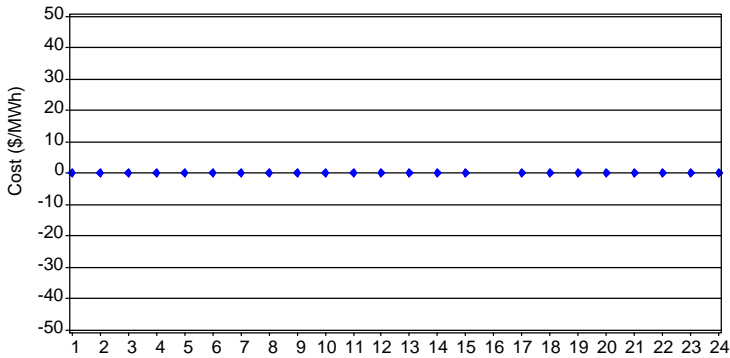
	NP15			SP15			ZP26			PG&E			SCE			SDGE			VEA		
	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min
OFF	44.97	40.99	38.17	45.40	40.63	36.75	44.43	40.27	38.17	46.62	41.81	38.29	46.48	41.30	38.17	47.46	41.98	38.62	44.93	40.76	38.17
ON	75.06	49.00	35.11	77.37	48.74	33.28	75.03	48.09	33.08	77.90	50.48	35.87	79.50	50.03	34.25	86.16	52.19	34.74	53.52	42.68	32.81

Selected IFM Intertie Congestion Rents

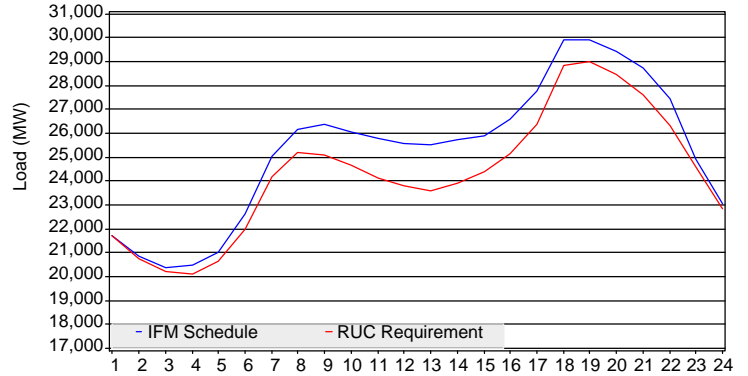
Inter-Tie	Import Rent	Export Rent	Total Rent	Total Rent Percent
PALOVRDE_ITC	\$235,525.33	\$0.00	\$235,525.33	99.72%
MALIN500	\$651.99	\$0.00	\$651.99	0.28%

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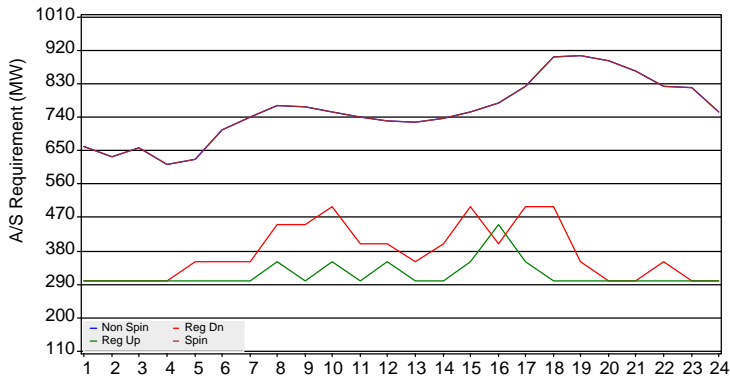
RUC Cost to Underscheduled Load



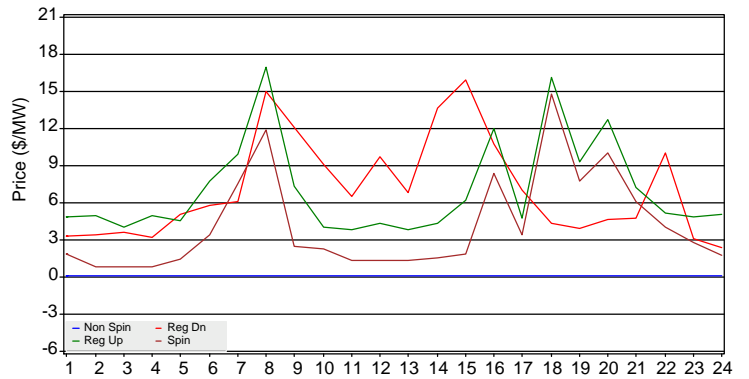
IFM Cleared Quantity and RUC Requirement



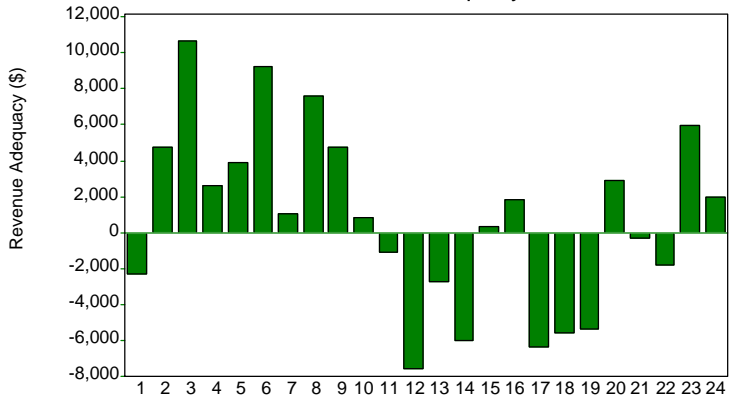
A/S System Requirement



A/S Average Price



CRR Revenue Adequacy



CRR Statistics

	20DEC2018	Cumulative
CONGESTION RENT	\$942,067.44	\$30,015,223.27
CRR PAYMENT	\$922,740.93	\$28,290,600.25
PERFECT HEDGE	.	\$1,848,317.69
CLAW BACK	.	\$1,575.71
CRR ADEQUACY	\$19,326.51	\$-122,118.97
ADEQUACY RATIO	102.09%	99.59%
AUCTION REVENUES	.	\$10,446,912.24
BALANCE ACCOUNT	.	\$10,324,793.28

*The cumulative cost of perfect hedge is between 01DEC2018 and 17DEC2018

*The cumulative cost of claw back is between 01DEC2018 and 17DEC2018