

Market Highlights¹ (September 6–September 19)

- The average DLAP price in the integrated forward market was \$35.68. The maximum and minimum DLAP prices were \$121.00 and \$13.34, respectively. The maximum and minimum PNode prices in the integrated forward market were \$121.00 and -\$11.74 respectively.
- The top two interties congested in the integrated forward market were MALIN500 and NOB_ITC. Congestion rents in these two weeks totaled \$12,534,192.18.
- The average day-ahead ancillary service prices were between \$0.00 and \$86.91.
- Approximately 98.59 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$47.71, with a maximum price of \$1,165.00 and a minimum price of -\$5.02. The maximum and minimum PNode prices in the FMM were \$1,297.38 and -\$554.37, respectively.
- Out of the total 1,344 FMM intervals, 19 intervals saw DLAP prices above \$250, and 0 intervals saw DLAP prices below -\$150.
- Out of the total 1,344 FMM intervals, 66 intervals saw ELAP prices above \$250 and 6 intervals saw ELAP prices below -\$150.
- The average real-time FMM ELAP price was \$35.85, with a maximum price of \$1,226.32 and a minimum price of -\$156.96.
- The average real-time RTD DLAP price was \$32.38, with a maximum price of \$1,078.97 and a minimum price of -\$69.72. The maximum and minimum PNode prices in the RTD were \$1,144.04 and -\$585.94, respectively.
- Out of the total 4,032 RTD intervals, 23 intervals saw DLAP prices above \$250 and 0 interval saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 79 intervals saw ELAP prices above \$250 and 23 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$26.60, with a maximum price of \$1,004.09 and a minimum price of -\$156.64.
- Root cause for daily high price events are noted in Tables 1 and Table 2.

Table 1 FMM Intervals	
Trade Date	Root Cause
FMM Sep 11 HE 16, 17	Load changes and renewable deviation
FMM Sep 11 HE 18, 19	Load changes, renewable deviation, and net import reduction
FMM Sep 11 HE 20	Load changes and generator de-rate

¹ A description of the metrics presented in this report is available at <http://www.caiso.com/Documents/WeeklyPerformanceReportMetricsKey.pdf>

Table 1 FMM Intervals	
Trade Date	Root Cause
FMM Sep 12 HE 18, 19	Load changes and renewable deviation
Table 2 RTD Intervals	
Trade Date	Root Cause
RTD Sep 7 HE 17, 18	Congestion on 24086_LUGO _500_26105_VICTORVL_500_BR_1_1, load changes and renewable deviation
RTD Sep 8 HE 17; Sep 9 HE 15, 16	Load changes and renewable deviation
RTD Sep 11 HE 18, 19	Reduction of net import and renewable deviation
RTD Sep 15 HE 12	Congestion on 30735_METCALF _230_30042_METCALF _500 and renewable deviation.
RTD Sep 16 HE 18	Renewable deviation and re-dispatch of resources

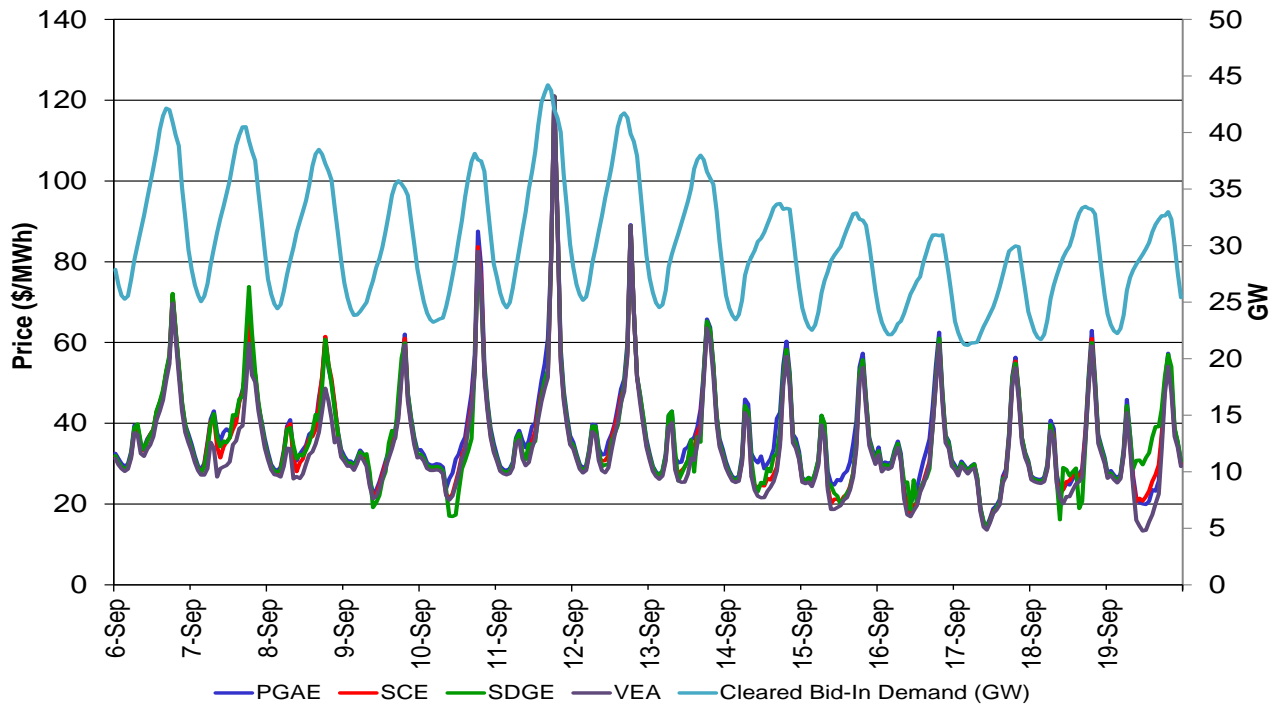
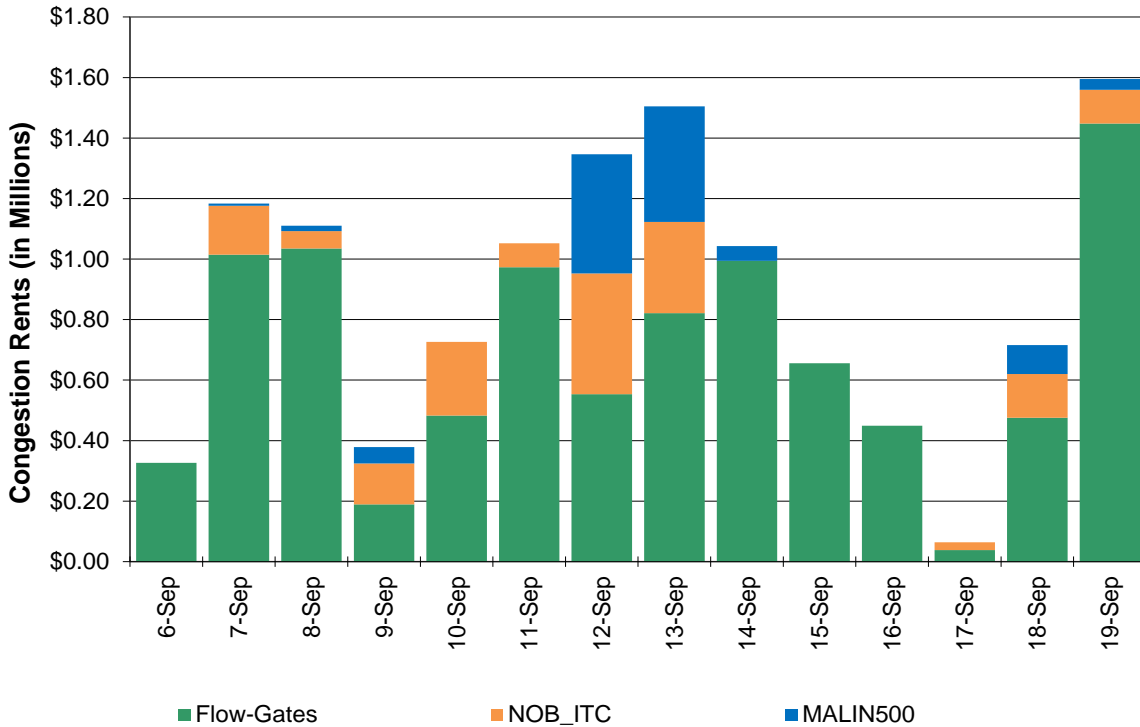
Figure 1: Day-Ahead (IFM) LAP LMP and Cleared Bid-In Demand


Figure 2: Day-Ahead Congestion Rents

Figure 3: Day-Ahead Congestion Rents for Flow-Based Constraints

Transmission Constraint	Congestion Rent
22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	\$ 2,480,305.10
30735_METCALF_230_30042_METCALF_500_XF_12	\$ 2,022,141.14
24016_BARRE_230_24154_VILLA PK_230_BR_1_1	\$ 1,475,817.10
24086_LUGO_500_26105_VICTORVL_500_BR_1_1	\$ 816,163.62
30735_METCALF_230_30042_METCALF_500_XF_13	\$ 426,574.61
30300_TABLMTN_230_30330 RIO OSO_230_BR_1_1	\$ 325,214.87
35122_NWARK EF_115_35350_AMES BS_115_BR_2_1	\$ 223,374.97
34112_EXCHEQUR_115_34116_LE GRAND_115_BR_1_1	\$ 191,548.01
30830_KEARNEY_230_30835_HERNDON_230_BR_1_1	\$ 144,744.74
6310_CP6_NG	\$ 135,472.13
24016_BARRE_230_25201_LEWIS_230_BR_1_1	\$ 115,737.92
32218_DRUM_115_32244_BRNSWKT2_115_BR_2_1	\$ 112,042.62
35612_TRIMBLE_115_35616_SNJOSEB_115_BR_1_1	\$ 110,624.13
24114_PARDEE_230_24147_SYLMAR S_230_BR_2_1	\$ 103,825.84
7320_CP6_NG	\$ 77,297.78
38000_LODI_230_30622_EIGHT MI_230_BR_1_1	\$ 76,563.67
7820_TL 230S_OVERLOAD_NG	\$ 62,045.97
22300_FRIARS_138_22500_MISSION_138_BR_1_1	\$ 60,079.01

Figure 3: Day-Ahead Congestion Rents for Flow-Based Constraints (cont)

Transmission Constraint	Congestion Rent
22604_OTAY_69.0_22616_OTAYLKTP_69.0_BR_1_1	\$ 39,187.99
30523_CC SUB_230_30525_C.COSTA_230_BR_1_1	\$ 38,553.34
OMS 5227525 HUMBOLDT_IMP_NG	\$ 35,946.52
30261_BELDENTP_230_30300_TABLMTN_230_BR_1_1	\$ 35,347.23
30590_USWP-JRW_230_30530_CAYETANO_230_BR_1_1	\$ 33,251.19
34427_ATWELL_115_34701_SMYRNA 1_115_BR_1_1	\$ 31,698.93
31336_HPLND JT_60.0_31370_CLVRDLJT_60.0_BR_1_1	\$ 27,783.98
30515_WARNERVL_230_30800_WILSON_230_BR_1_1	\$ 26,796.68
22208_EL CAJON_69.0_22408_LOSCOCHS_69.0_BR_1_1	\$ 26,513.68
34469_GFFNJCT_70.0_34470_GIFFEN_70.0_BR_1_1	\$ 22,455.89
30105_COTTNWD_230_30245_ROUND MT_230_BR_3_1	\$ 19,313.17
31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	\$ 14,694.55
OMS 5219229 50002_OOS_TDM	\$ 14,554.30
31090_HMBLT BY_60.0_31100_EEL RIVR_60.0_BR_1_1	\$ 14,275.28
22136_CLAIRMNT_69.0_22140_CLARMTTP_69.0_BR_1_1	\$ 13,296.08
31306_WILLITS_60.0_31308_LYTNVLE_60.0_BR_1_1	\$ 12,104.47
32212_E.NICOLS_115_32214_RIO OSO_115_BR_1_1	\$ 12,100.49
31334_CLER LKE_60.0_31338_KONOCI6_60.0_BR_1_1	\$ 11,943.28
99254_J.HINDS2_230_24806_MIRAGE_230_BR_1_1	\$ 11,238.24
33506_STANISLS_115_33503_FRGTNTP2_115_BR_1_1	\$ 7,289.87
34116_LE GRAND_115_34134_WILSONAB_115_BR_1_1	\$ 6,895.69
32208_GLEAF TP_115_32214_RIO OSO_115_BR_1_1	\$ 6,363.52
31378_FULTON_60.0_31382_FTCHMTNP_60.0_BR_1_1	\$ 5,955.07
31104_CARLOTTA_60.0_31105_RIODLLTP_60.0_BR_1_1	\$ 5,266.39
38136_MARBLE_69.0_64281_MARBLSP_60.0_XF_1	\$ 4,825.61
31220_EGLE RCK_115_31228_HOMSTKTP_115_BR_1_1	\$ 4,096.11
31218_ER_FTNJT_115_31220_EGLE RCK_115_BR_1_1	\$ 3,660.75
31110_BRDGVLE_60.0_31112_FRUITLND_60.0_BR_1_1	\$ 2,184.93
32950_PITSBURG_115_32970_CLAYTN_115_BR_4_1	\$ 2,025.83
34548_KETTLEMN_70.0_34552_GATES_70.0_BR_1_1	\$ 1,677.98
34807_ARVINJ2_115_34758_LAMONT_115_BR_1_1	\$ 1,523.68
33047_CC JCT1_115_33045_FIBRJCT1_115_BR_1_1	\$ 1,105.09
31108_SWNS FLT_60.0_31110_BRDGVLE_60.0_BR_1_1	\$ 813.61
34107_CERTANTP_115_34101_CERTANJ2_115_BR_1_1	\$ 654.48
31116_GRBRVLE_60.0_31118_KEKAWAKA_60.0_BR_1_1	\$ 601.33
34774_MIDWAY_115_34225_BELRDG J_115_BR_1_1	\$ 160.01
31092_MPLE CRK_60.0_31093_HYMPOMJT_60.0_BR_1_1	\$ 144.39
22480_MIRAMAR_69.0_22756_SCRIPPS_69.0_BR_1_1	\$ 139.51
22256_ESCNDIDO_69.0_22724_SANMRCOS_69.0_BR_1_1	\$ 19.85
Total	\$ 9,456,032.22



Figure 4: Day-Ahead (IFM) Average A/S Price

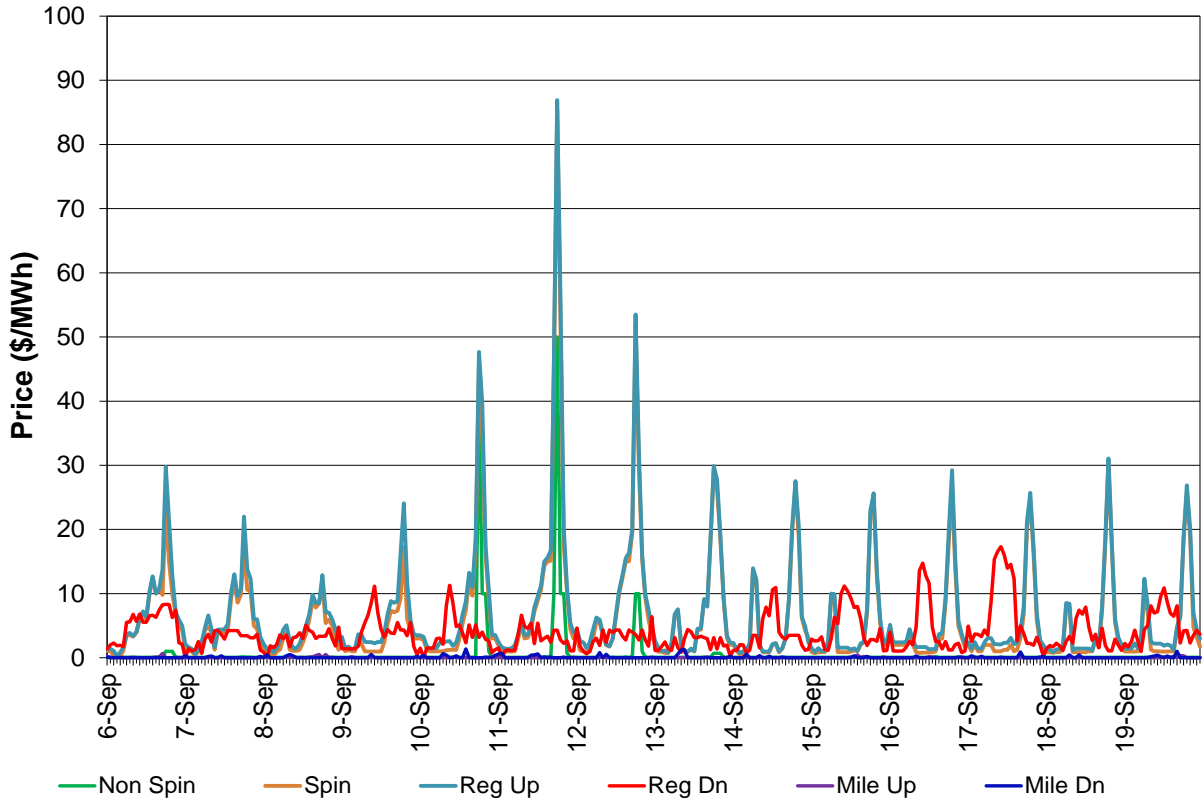


Figure 5: Day-Ahead Average RUC Price

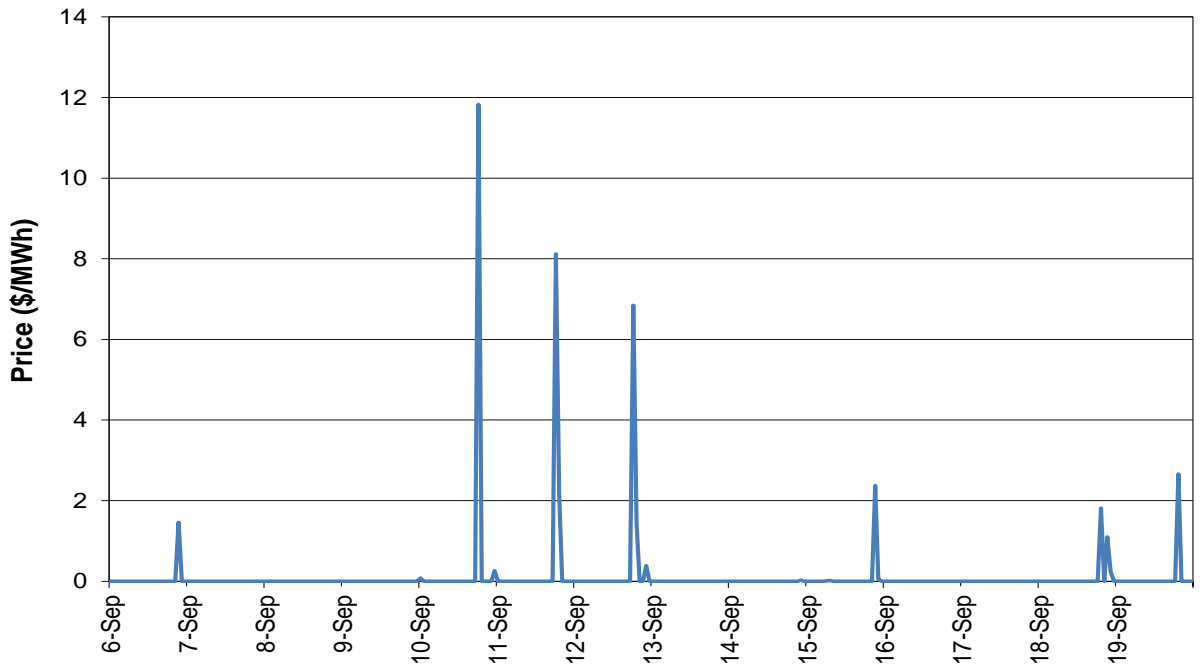


Figure 6: Real-Time FMM Average A/S Price

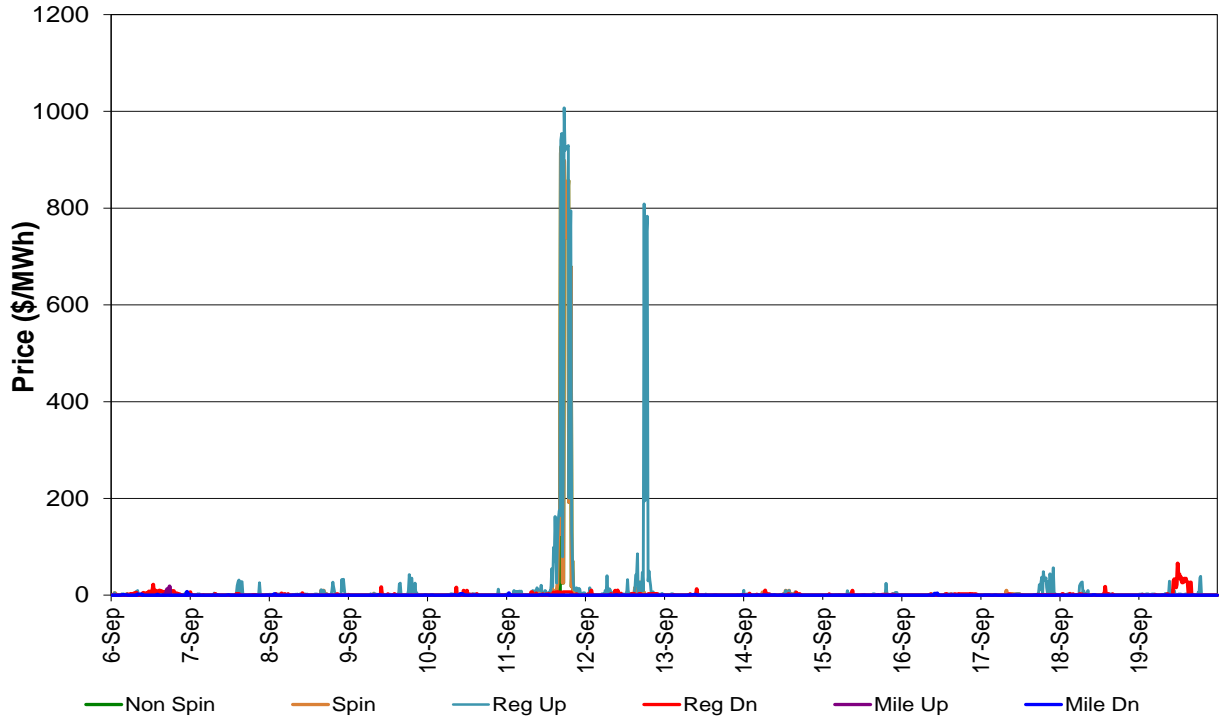


Figure 7: Real-Time FMM DLAP LMP

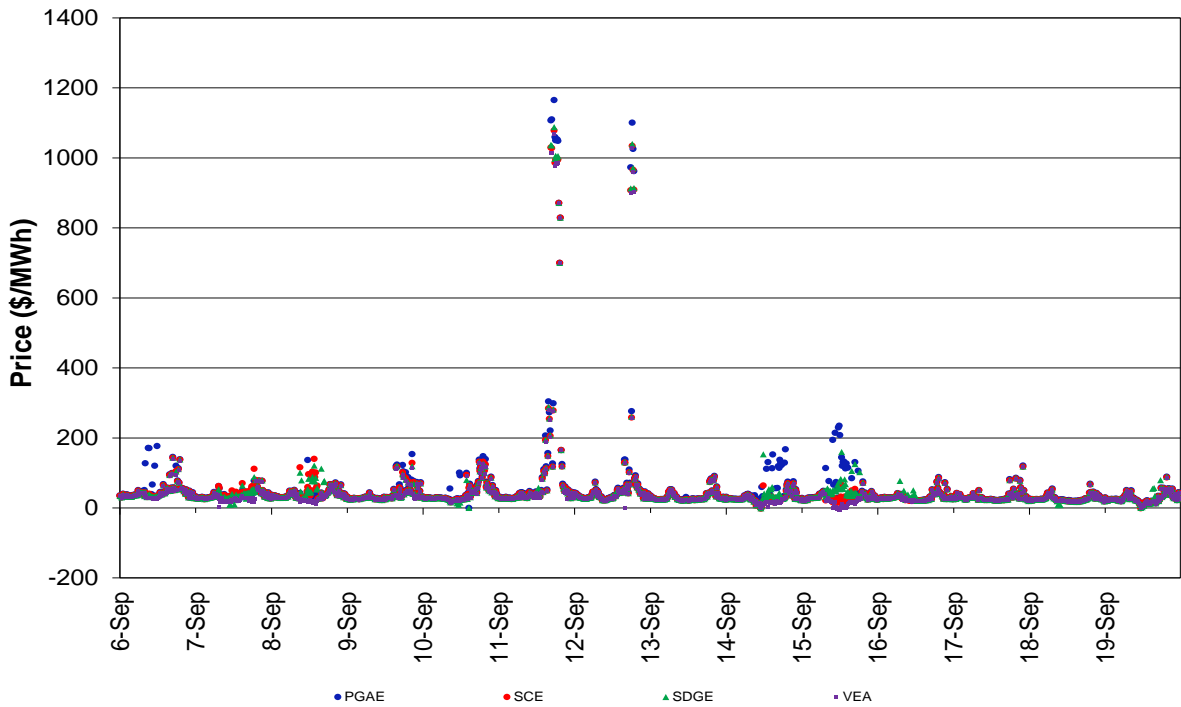




Figure 8: Real-Time RTD DLAP LMP

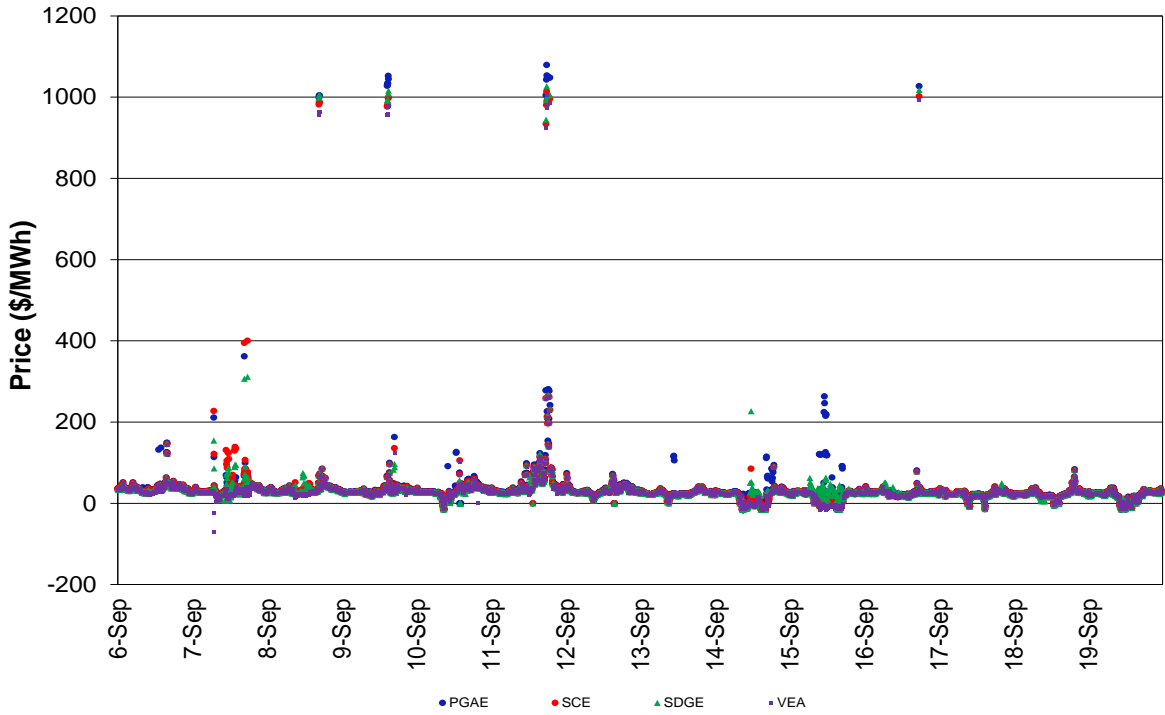


Figure 9: Real-Time FMM ELAP LMP

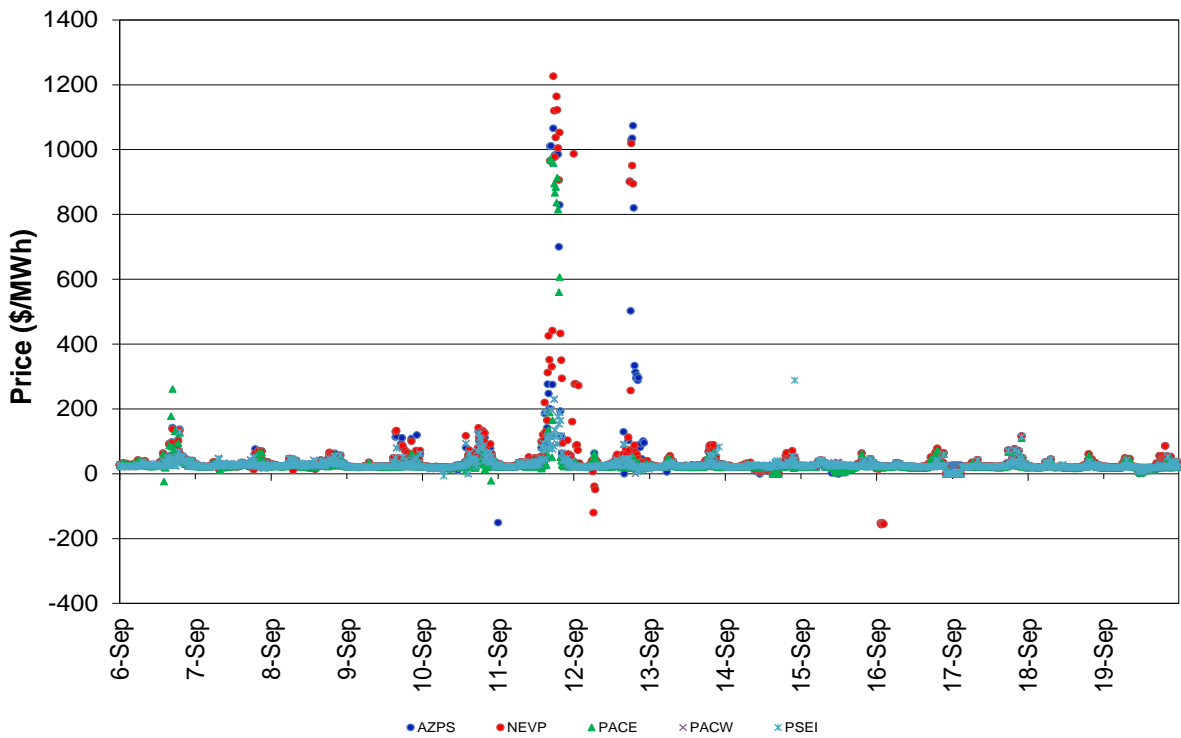




Figure 10: Real-Time RTD ELAP LMP

