

Market Highlights¹ (September 20–October 3)

- The average DLAP price in the integrated forward market was \$31.51. The maximum and minimum DLAP prices were \$77.26 and \$0.36, respectively. The maximum and minimum PNode prices in the integrated forward market were \$121.07 and -\$13.25 respectively.
- The top two interties congested in the integrated forward market were MALIN500 and NOB_ITC. Congestion rents in these two weeks totaled \$14,702,660.82.
- The average day-ahead ancillary service prices were between \$0.00 and \$37.94.
- Approximately 95.76 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$30.33, with a maximum price of \$158.57 and a minimum price of -\$14.64. The maximum and minimum PNode prices in the FMM were \$573.50 and -\$507.64, respectively.
- Out of the total 1,344 FMM intervals, 0 intervals saw DLAP prices above \$250, and 0 intervals saw DLAP prices below -\$150.
- Out of the total 1,344 FMM intervals, 3 intervals saw ELAP prices above \$250 and 2 intervals saw ELAP prices below -\$150. The average real-time FMM ELAP price was \$25.36, with a maximum price of \$285.92 and a minimum price of -\$163.14.
- The average real-time RTD DLAP price was \$25.81, with a maximum price of \$1,089.71 and a minimum price of -\$25.93. The maximum and minimum PNode prices in the RTD were \$1,323.53 and -\$487.01, respectively.
- Out of the total 4,032 RTD intervals, 13 intervals saw DLAP prices above \$250 and 0 interval saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 22 intervals saw ELAP prices above \$250 and 14 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$22.40, with a maximum price of \$1,031.56 and a minimum price of -\$153.28.
- Root cause for daily high price events are noted in Table 1.

Table 1 RTD Intervals	
Trade Date	Root Cause
RTD Sep 20 HE 18; Sep 25 HE 18	Load changes and renewable deviation
RTD Sep 21 HE 8	Re-dispatch of resources and generator de-rate
RTD Sep 21 HE 9	Renewable deviation 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 RTD Intervals continued	
Trade Date	Root Cause
RTD Sep 26 HE 20	Congestion on OP-6610_ELD-LUGO
RTD Sep 27 HE 18	Load changes and re-dispatch of resources
RTD Oct 2 HE 20	Load changes and re-dispatch of resources, congestion on 24086_LUGO_500_26105_VICTORVL_500_BR_1_1

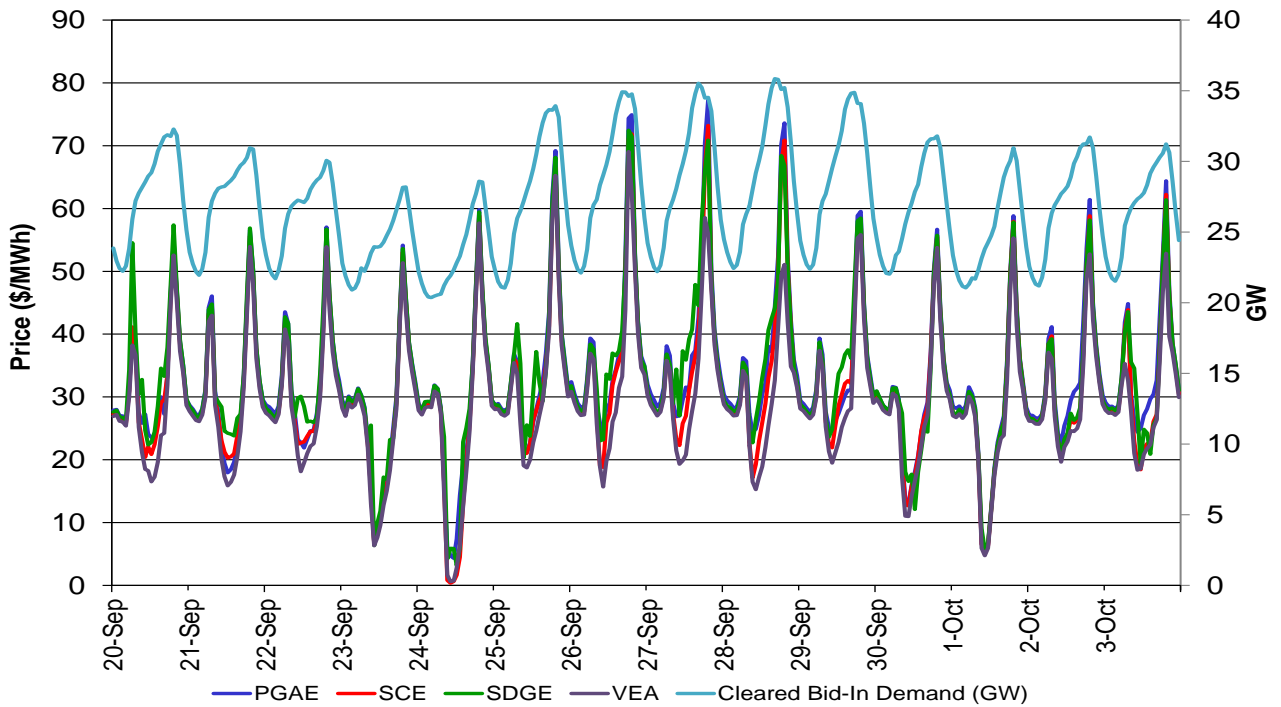
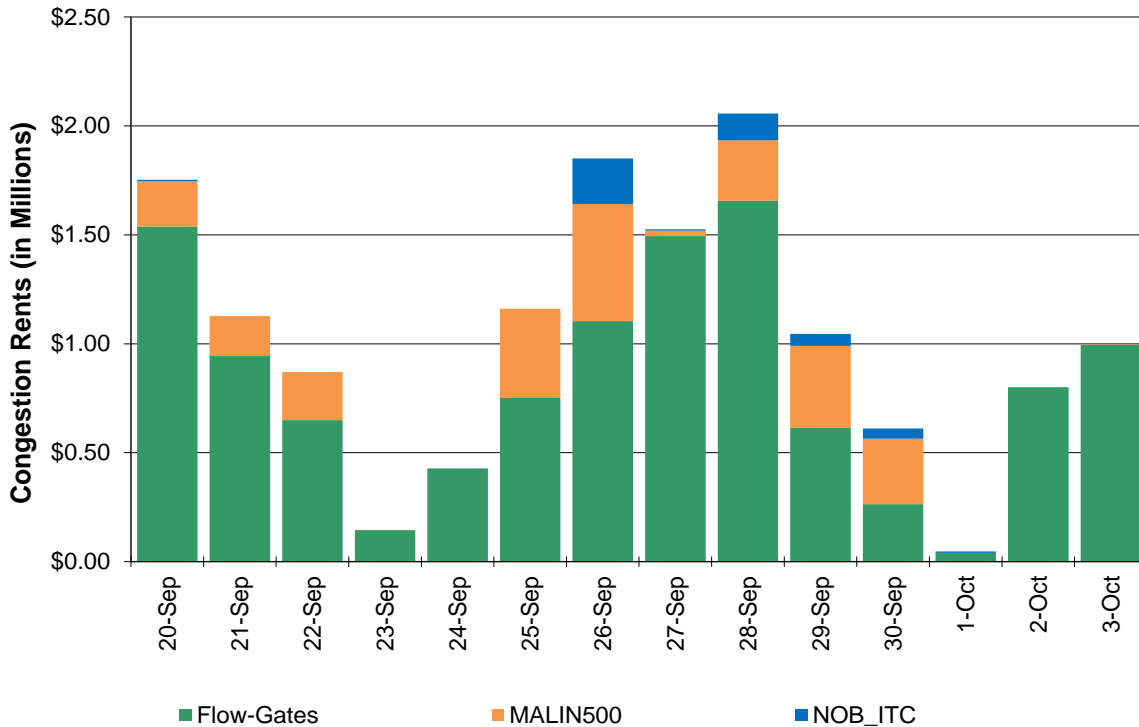
Figure 1: Day-Ahead (IFM) LAP LMP and Cleared Bid-In Demand


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	\$ 3,220,827.47
24016_BARRE_230_24154_VILLA PK_230_BR_1_1	\$ 2,276,940.68
24086_LUGO_500_26105_VICTORVL_500_BR_1_1	\$ 1,087,011.51
6310_CP6_NG	\$ 991,987.13
7820_TL_230S_OVERLOAD_NG	\$ 654,305.82
30735_METCALF_230_30042_METCALF_500_XF_13	\$ 463,387.00
30261_BELDENTP_230_30300_TABLMTN_230_BR_1_1	\$ 351,975.95
35122_NWARK EF_115_35350_AMES BS_115_BR_2_1	\$ 344,090.39
34112_EXCHEQUR_115_34116_LE GRAND_115_BR_1_1	\$ 251,231.00
30915_MORROBAY_230_30916_SOLARSS_230_BR_1_1	\$ 176,959.69
31334_CLER LKE_60.0_31338_KONOCIT6_60.0_BR_1_1	\$ 153,063.14
38000_LODI_230_30622_EIGHT MI_230_BR_1_1	\$ 138,747.15
30915_MORROBAY_230_30916_SOLARSS_230_BR_2_1	\$ 133,270.59
30805_BORDEN_230_30810_GREGG_230_BR_1_1	\$ 115,524.22
34116_LE GRAND_115_34134_WILSONAB_115_BR_1_1	\$ 98,357.43
31336_HPLND JT_60.0_31206_HPLND JT_115_XF_2	\$ 92,250.43
33315_RAVENSWD_115_33316_CLYLDG_115_BR_1_1	\$ 80,569.23
31566_KESWICK_60.0_31582_STLLWATR_60.0_BR_1_1	\$ 77,959.72

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

Transmission Constraint	Congestion Rent
30750_MOSSLD_230_30797_LASAGUIL_230_BR_1_1	\$ 70,170.29
31336_HPLND JT_60.0_31370_CLVRDLJT_60.0_BR_1_1	\$ 61,912.21
37585_TRCY PMP_230_30625_TESLA D_230_BR_2_1	\$ 54,859.76
31220_EGLE RCK_115_31228_HOMSTKTP_115_BR_1_1	\$ 49,184.92
33020_MORAGA_115_30550_MORAGA_230_XF_3_S	\$ 49,010.03
34427_ATWELL_115_34701_SMYRNA 1_115_BR_1_1	\$ 40,733.66
34469_GFFNJCT_70.0_34470_GIFFEN_70.0_BR_1_1	\$ 34,603.85
22773_BAY BLVD_69.0_22352_IMPRLBCH_69.0_BR_1_1	\$ 33,273.40
31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	\$ 31,535.47
22480_MIRAMAR_69.0_22756_SCRIPPS_69.0_BR_1_1	\$ 28,838.96
30590_USWP-JRW_230_30530_CAYETANO_230_BR_1_1	\$ 28,753.83
33208_MARTIN C_115_33300_DALY CTY_115_BR_1_1	\$ 27,504.45
31218_ER_FTNJT_115_31220_EGLE RCK_115_BR_1_1	\$ 26,819.26
30685_EMBRCDR_230_99160_MAR-EMBE_230_BR_1_1	\$ 18,818.93
7320_CP6_NG	\$ 18,650.30
33506_STANISLS_115_33503_FRGTNTP2_115_BR_1_1	\$ 17,204.23
38136_MARBLE_69.0_64281_MARBLSP_60.0_XF_1	\$ 13,999.92
32214_RIO OSO_115_32225_BRNSWKT1_115_BR_1_1	\$ 12,380.04
22208_EL CAJON_69.0_22408_LOSCOCHS_69.0_BR_1_1	\$ 11,855.59
HUMBOLDT_IMP_NG	\$ 11,316.63
22372_KEARNY_69.0_22496_MISSION_69.0_BR_1_1	\$ 11,264.28
31580_CASCADE_60.0_31582_STLLWATR_60.0_BR_1_1	\$ 10,244.93
31512_BIG BEN2_115_31516_WYANDJT2_115_BR_1_2	\$ 9,238.88
32212_E.NICOLS_115_32214_RIO OSO_115_BR_1_1	\$ 8,618.21
OMS 5227525 HUMBOLDT_IMP_NG	\$ 8,473.89
22136_CLAIRMNT_69.0_22140_CLARMTTP_69.0_BR_1_1	\$ 5,524.99
6110_SOL10_NG	\$ 4,241.60
31214_GEYERS56_115_31220_EGLE RCK_115_BR_1_1	\$ 3,940.79
31108_SWNS FLT_60.0_31110_BRDGVILLE_60.0_BR_1_1	\$ 3,666.08
31576_WNTU PMS_60.0_31570_BENTON_60.0_BR_1_1	\$ 2,403.63
31080_HUMBOLDT_60.0_31092_MPLE CRK_60.0_BR_1_1	\$ 2,160.45
31104_CARLOTTA_60.0_31105_RIODLLTP_60.0_BR_1_1	\$ 1,192.50
31092_MPLE CRK_60.0_31093_HYPOMJT_60.0_BR_1_1	\$ 786.81
31464_COTWDPGE_115_30105_COTTNWD_230_XF_1	\$ 745.34
32374_DRUM_60.0_32376_BONNIE N_60.0_BR_1_1	\$ 674.75
36266_SNTA MRA_115_36267_SNTAMRTP_115_BR_1_1	\$ 631.54
34288_Q548_70.0_34258_Q548SS_70.0_BR_1_1	\$ 370.13
31000_HUMBOLDT_115_31452_TRINITY_115_BR_1_1	\$ 324.55
32380_WEMR SWS_60.0_32382_FORST HL_60.0_BR_1_1	\$ 171.28
31461_JESSTAP_115_31464_COTWDPGE_115_BR_1_1	\$ 70.81
34859_PRMTFMTP_70.0_34873_Q484TP_70.0_BR_1_1	\$ 62.09
Total	\$ 11,424,691.83



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

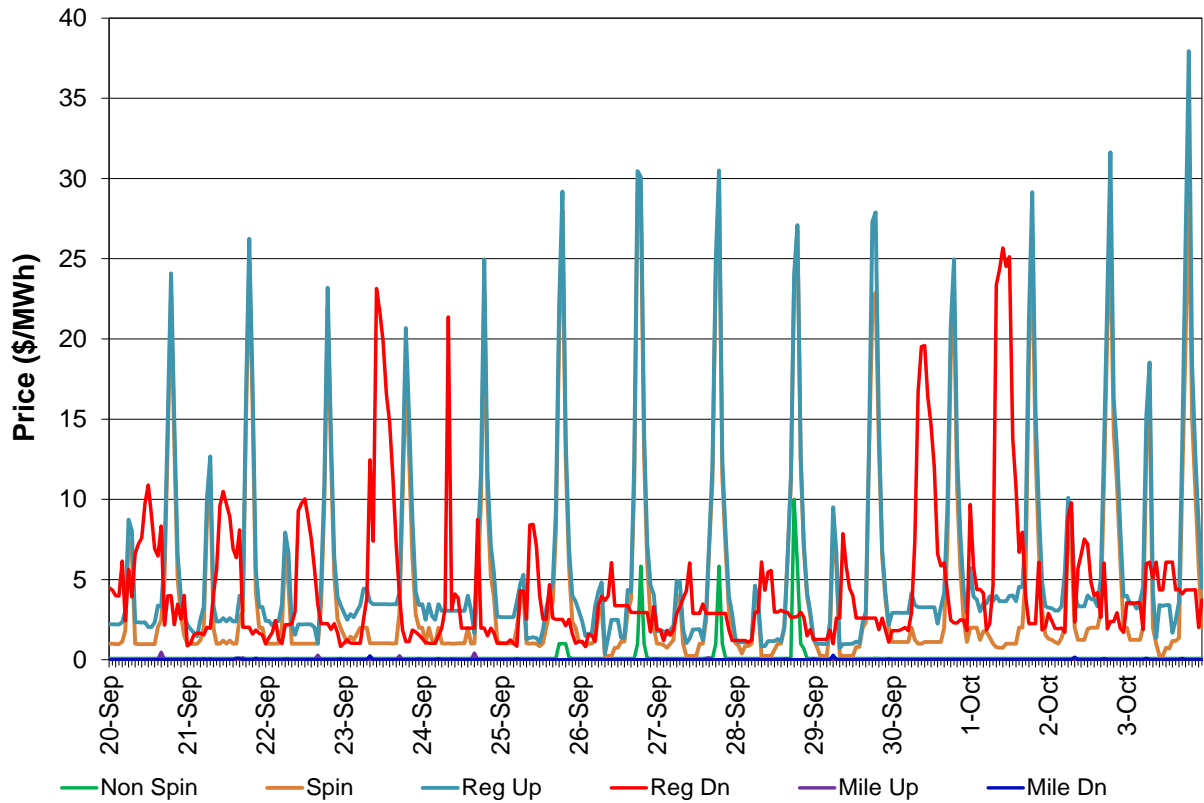


Figure 5: Day-Ahead Average RUC Price

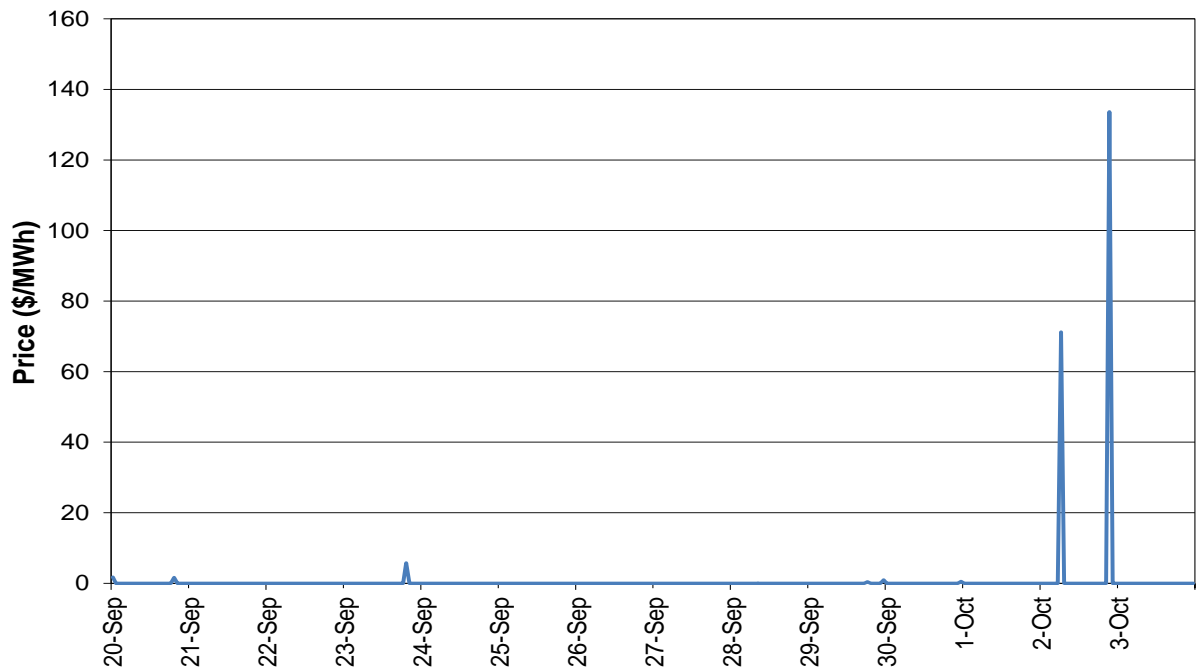




Figure 6: Real-Time FMM Average A/S Price

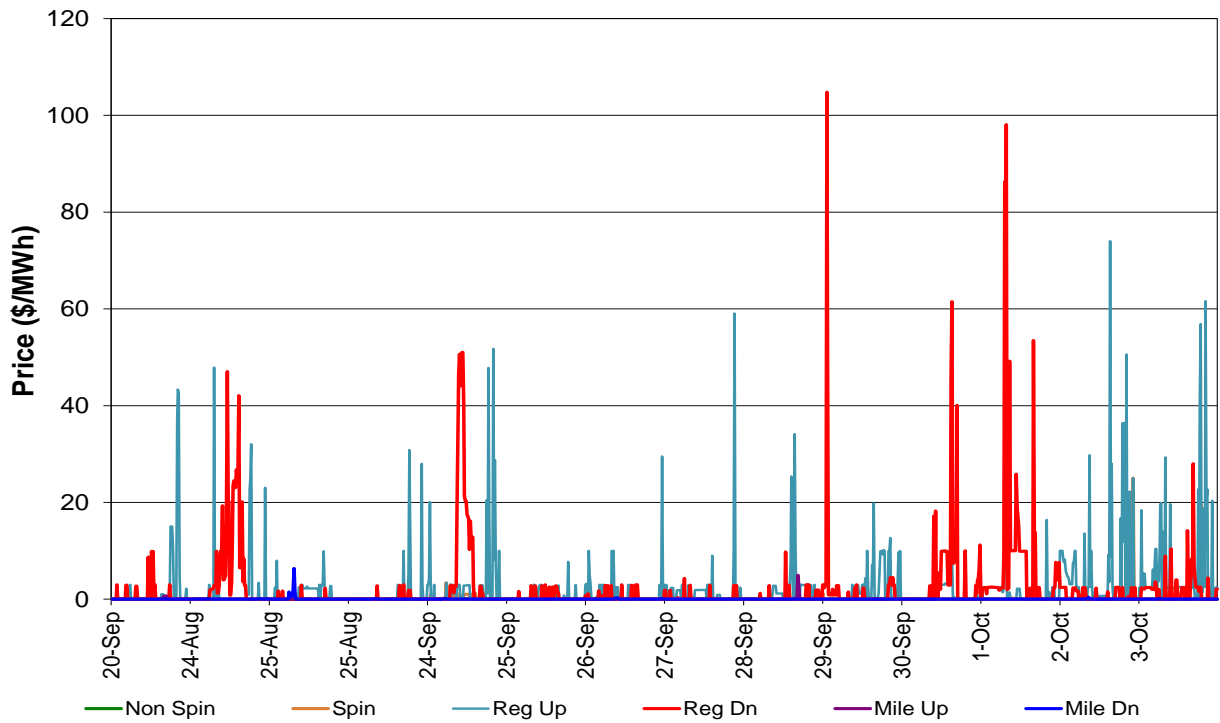


Figure 7: Real-Time FMM DLAP LMP

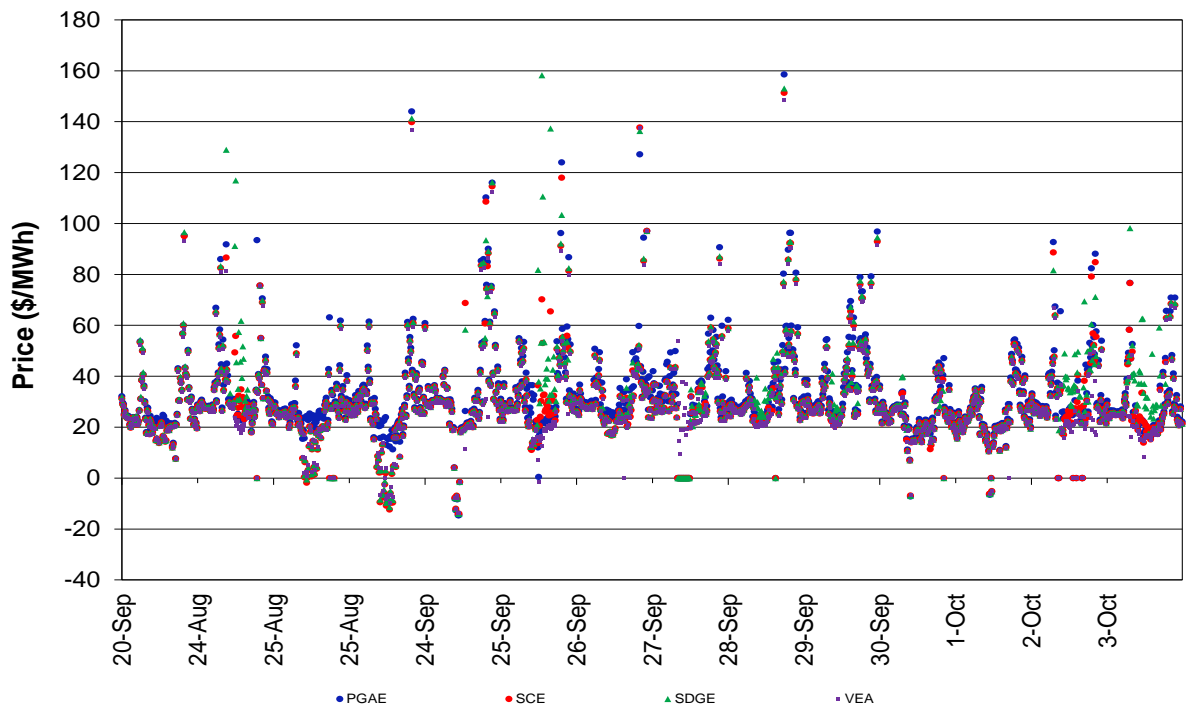


Figure 8: Real-Time RTD DLAP LMP

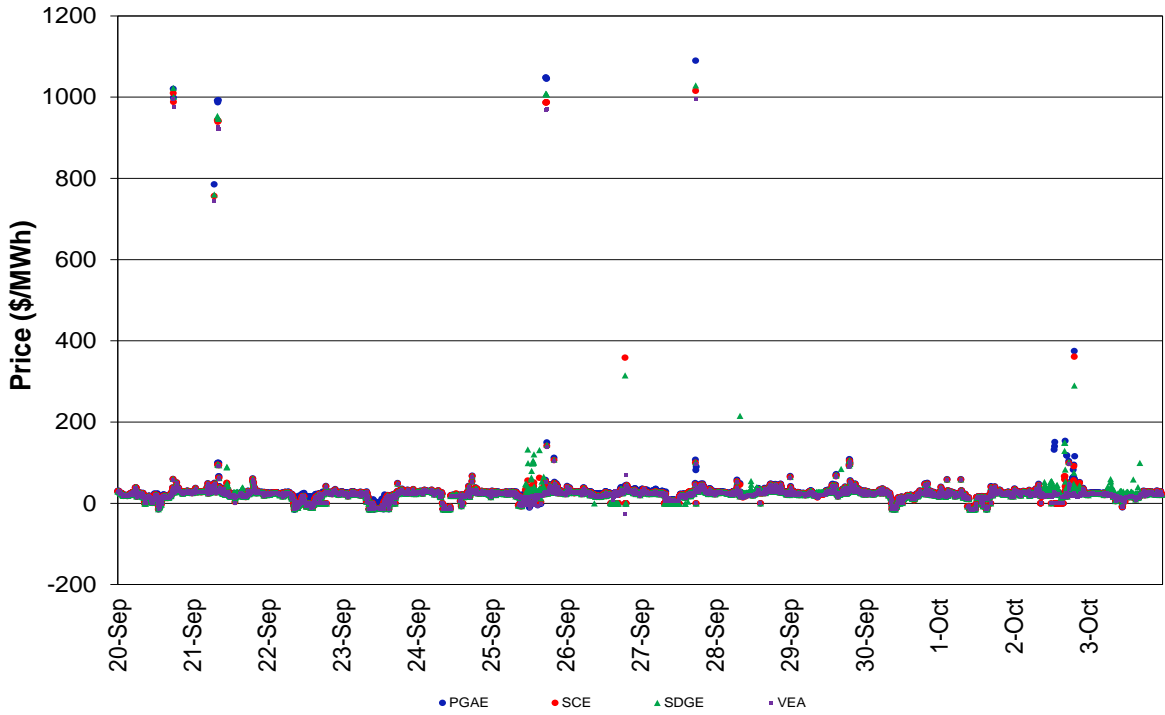


Figure 9: Real-Time FMM ELAP LMP

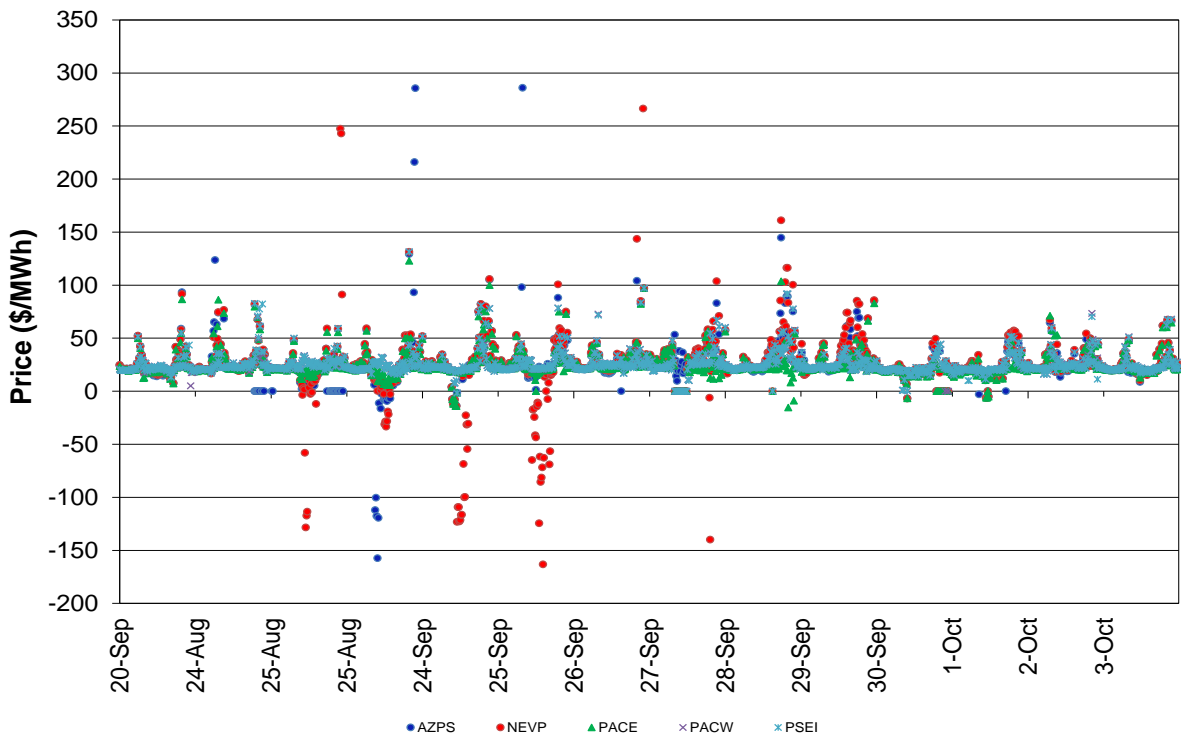




Figure 10: Real-Time RTD ELAP LMP

