

Market Highlights¹ (January 25–February 7)

- The average DLAP price in the integrated forward market was \$32.73. The maximum and minimum DLAP prices were \$87.48 and -\$1.86, respectively. The maximum and minimum PNode prices in the integrated forward market were \$250.76 and -\$157.78 respectively.
- The top two interties congested in the integrated forward market were MALIN500 and NOB_ITC. Congestion rents in these two weeks totaled \$9,675,808.00.
- The average day-ahead ancillary service prices were between \$0.00 and \$47.50.
- Approximately 80.58 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$30.18, with a maximum price of \$142.76 and a minimum price of -\$208.50. The maximum and minimum PNode prices in the FMM were \$1,118.10 and -\$728.62, respectively.
- Out of the total 1,344 FMM intervals, 0 intervals saw DLAP prices above \$250, and 1 intervals saw DLAP prices below -\$150.
- Out of the total 1,344 FMM intervals, 2 intervals saw ELAP prices above \$250 and 4 intervals saw ELAP prices below -\$150. The average real-time FMM ELAP price was \$24.01, with a maximum price of \$1,007.66 and a minimum price of -\$225.25.
- The average real-time RTD DLAP price was \$25.86, with a maximum price of \$1,057.00 and a minimum price of -\$270.09. The maximum and minimum PNode prices in the RTD were \$1,287.70 and -\$1,059.88, respectively.
- Out of the total 4,032 RTD intervals, 10 intervals saw DLAP prices above \$250 and 13 intervals saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 44 intervals saw ELAP prices above \$250 and 34 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$20.83, with a maximum price of \$1,017.19 and a minimum price of -\$607.71.
- Root cause for daily high price events are noted in Table 1.

Table 1 RTD Intervals	
Trade Date	Root Cause
RTD Jan 29 HE 17	Congestion on OMS 4622069 TL50003 and load changes
RTD Jan 30 HE 19	Load changes
RTD Feb 5 HE 15	Renewable deviation
RTD Feb 6 HE 16	Load changes, renewable deviation and re-dispatch of resources
RTD Feb 6 HE 21	Load changes, re-dispatch of resources and congestion on MALIN500

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



Table 1 RTD Intervals	
Trade Date	Root Cause
RTD Feb 7 HE 16	Renewable deviation

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

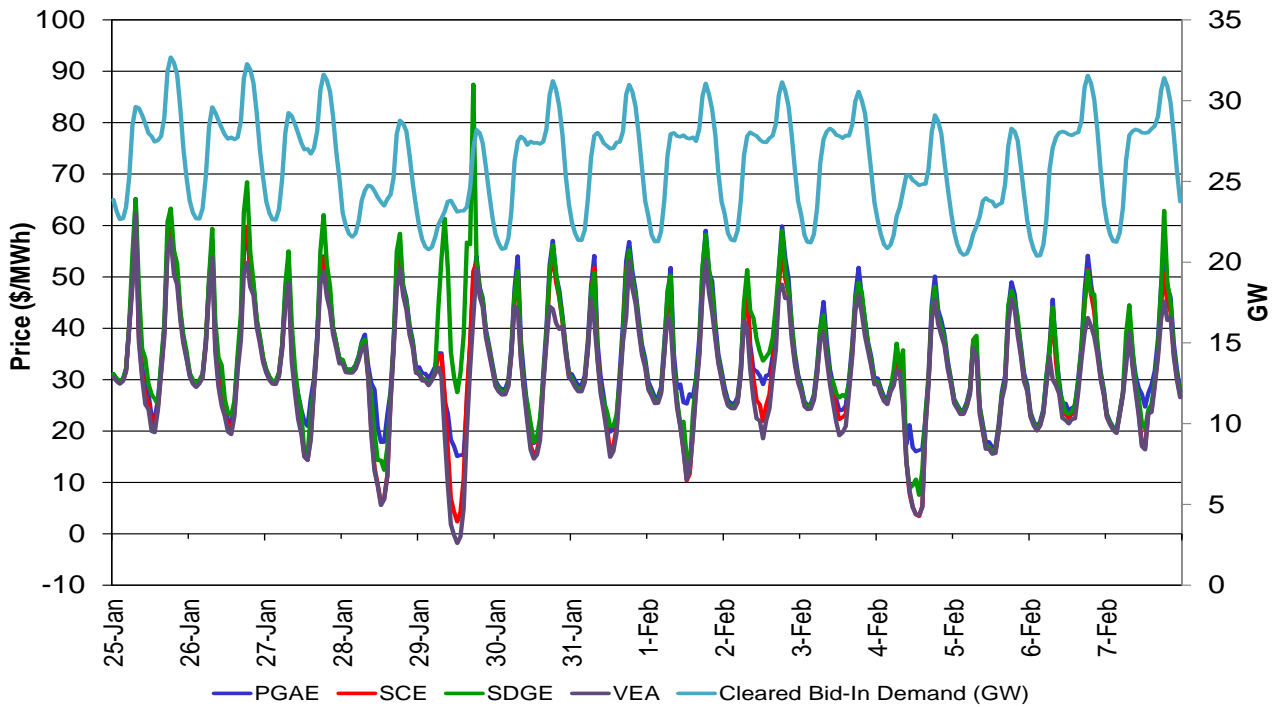




Figure 2: Day-Ahead Congestion Rents

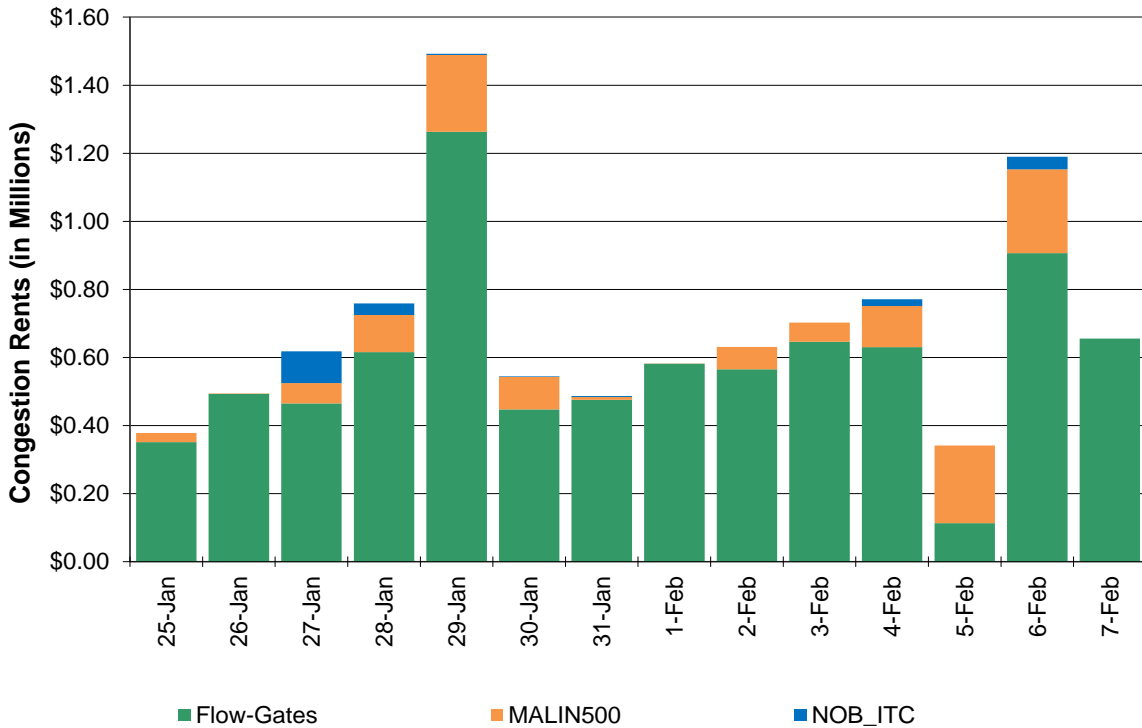


Figure 3: Day-Ahead Congestion Rents for Flow-Based Constraints

Transmission Constraint	Congestion Rent
23040_CROSSTRIP	\$ 1,779,407.44
PATH15_S-N	\$ 1,237,785.94
35122_NWARK EF_115_35350_AMES BS_115_BR_2_1	\$ 1,036,830.53
OMS 4622069 TL50003	\$ 983,286.03
24086_LUGO_500_26105_VICTORVL_500_BR_1_1	\$ 966,457.72
OMS 4585329 TL50001_NG	\$ 322,245.21
22596_OLD TOWN_230_22504_MISSION_230_BR_1_1	\$ 297,812.25
32214_RIO OSO_115_30330_RIO OSO_230_XF_2	\$ 241,346.05
IID-SCE_BG	\$ 205,436.18
7820_TL23040_IV_SPS_NG	\$ 152,124.33
OMS 4608811 MG_BK80_NG	\$ 131,447.92
7750_D-VISTA2_OOS_SOL6_NG	\$ 101,841.08
34874_WHEELER_70.0_34756_WHEELER_115_XF_2	\$ 94,818.32
32314_SMRTSVLE_60.0_32316_YUBAGOLD_60.0_BR_1_1	\$ 91,595.46
MAXBURN_ALISO_TOTAL	\$ 82,146.01
OMS 4436916_PATH15_S-N	\$ 79,300.15
HUMBOLDT_IMP_NG	\$ 77,597.11
7750_D-VISTA2_OOS_SOL5_NG	\$ 61,783.06
22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	\$ 52,366.17
MAXBURN_ALISO_SDGE	\$ 40,675.73

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

Transmission Constraint	Congestion Rent
22208_EL CAJON_69.0_22408_LOSCOCHS_69.0_BR_1_1	\$ 38,706.90
32214_RIO OSO_115_30330_RIO OSO_230_XF_1	\$ 30,150.72
32214_RIO OSO_115_32244_BRNSWKT2_115_BR_2_1	\$ 29,321.16
22865_GRNT HLL_138_22852_TELECYN_138_BR_1_1	\$ 22,648.63
31566_KESWICK_60.0_31582_STLLWATR_60.0_BR_1_1	\$ 9,397.74
30735_METCALF_230_30042_METCALF_500_XF_13	\$ 7,903.64
22480_MIRAMAR_69.0_22756_SCRIPPS_69.0_BR_1_1	\$ 6,487.98
32225_BRNSWKT1_115_32222_DTCH2TAP_115_BR_1_1	\$ 5,014.32
31464_COTWDPGE_115_30105_COTTNWD_230_XF_1	\$ 4,247.95
31108_SWNS FLT_60.0_31110_BRDGVILLE_60.0_BR_1_1	\$ 3,005.73
31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	\$ 2,912.72
31461_JESSTAP_115_31464_COTWDPGE_115_BR_1_1	\$ 2,643.74
31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	\$ 2,347.06
30337_GOLDHILL_230_30340_RALSTON_230_BR_1_1	\$ 1,969.35
31080_HUMBOLDT_60.0_31088_HMBLT JT_60.0_BR_1_1	\$ 1,469.98
31658_BANGOR_60.0_32308_COLGATE_60.0_BR_1_1	\$ 1,415.45
31000_HUMBOLDT_115_31452_TRINITY_115_BR_1_1	\$ 1,402.50
31092_MPLE CRK_60.0_31093_HYPOMJT_60.0_BR_1_1	\$ 1,219.01
7820_TL 230S_OVERLOAD_NG	\$ 470.23
31486_CARIBOU_115_30255_CARBOU M_1.0_XF_11	\$ 413.12
31104_CARLOTTA_60.0_31105_RIODLLTP_60.0_BR_1_1	\$ 46.71
Total	\$ 8,209,497.30



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

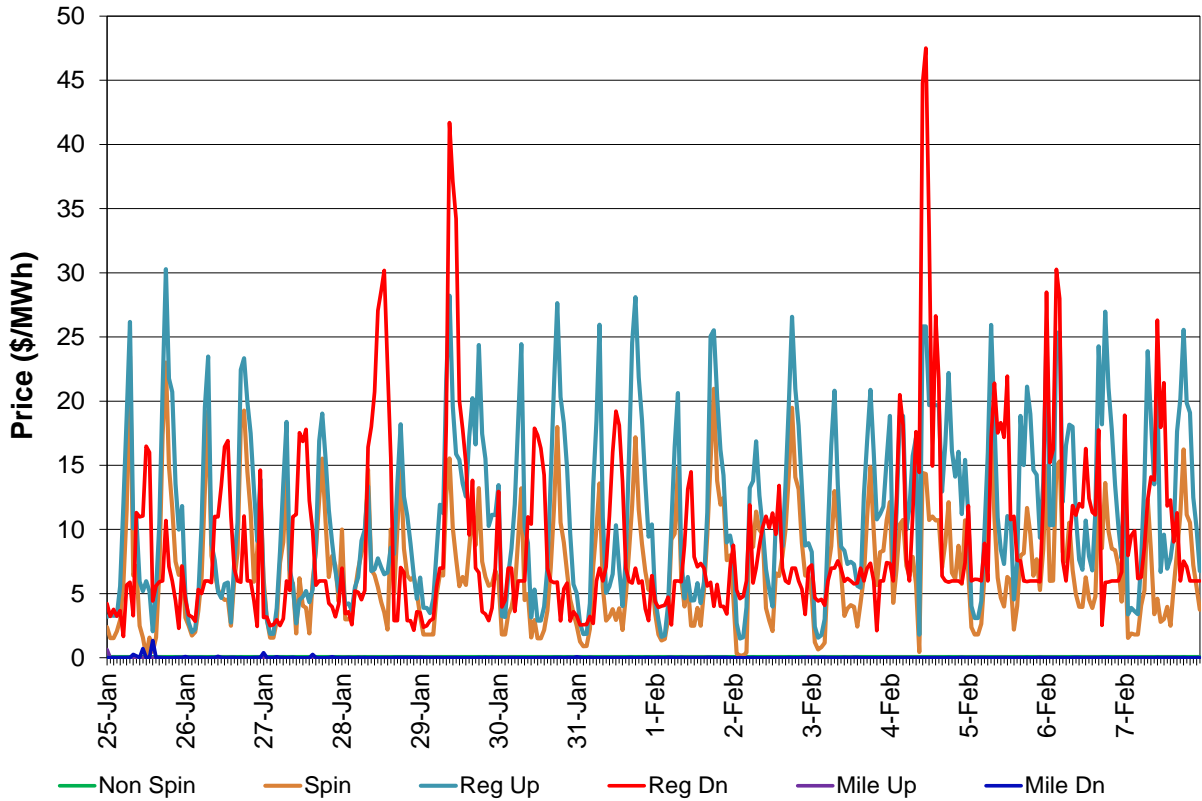


Figure 5: Day-Ahead Average RUC Price

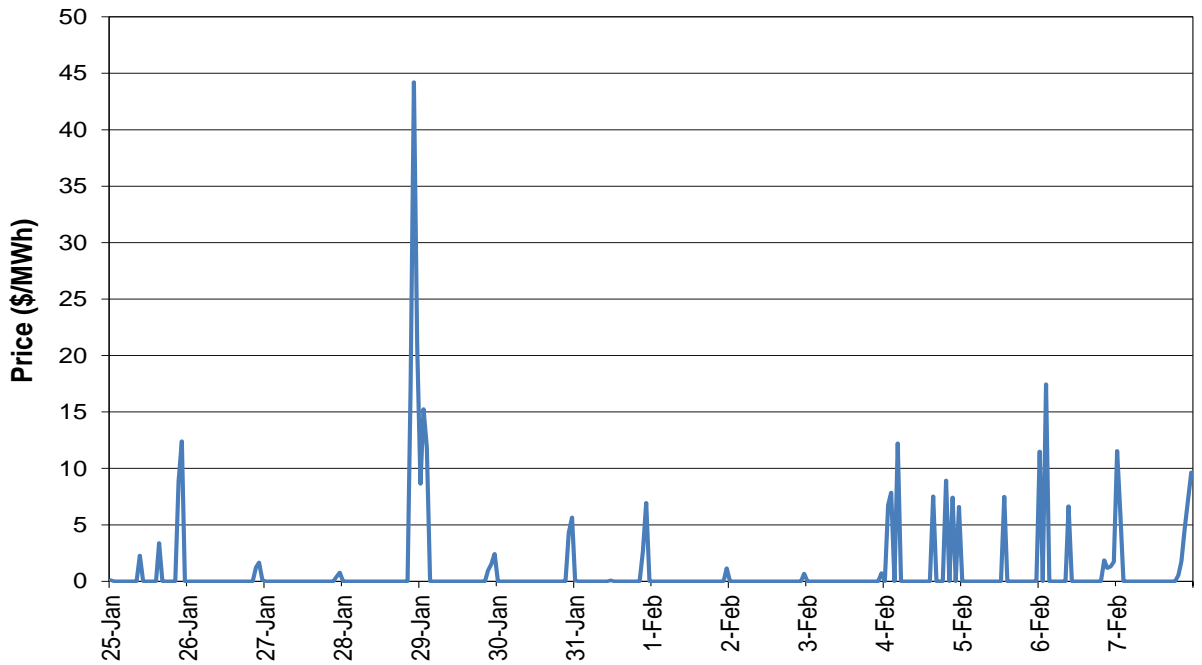


Figure 6: Real-Time FMM Average A/S Price

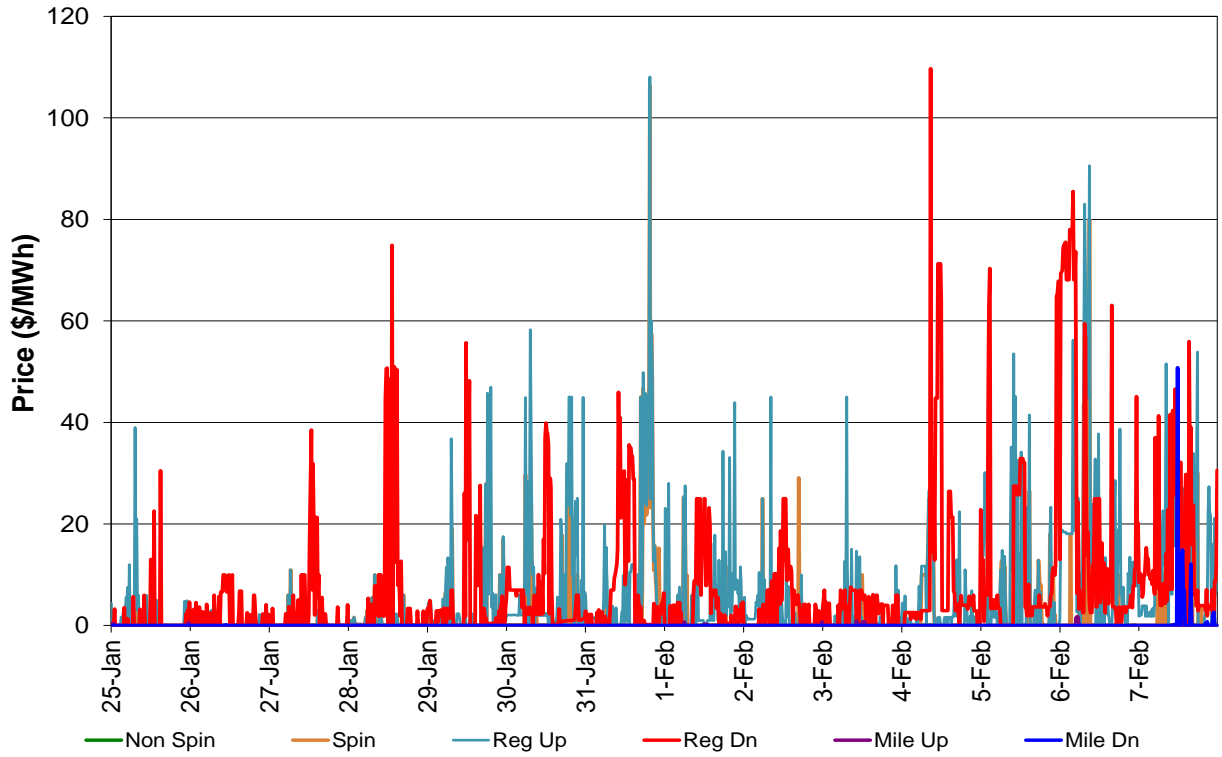


Figure 7: Real-Time FMM DLAP LMP

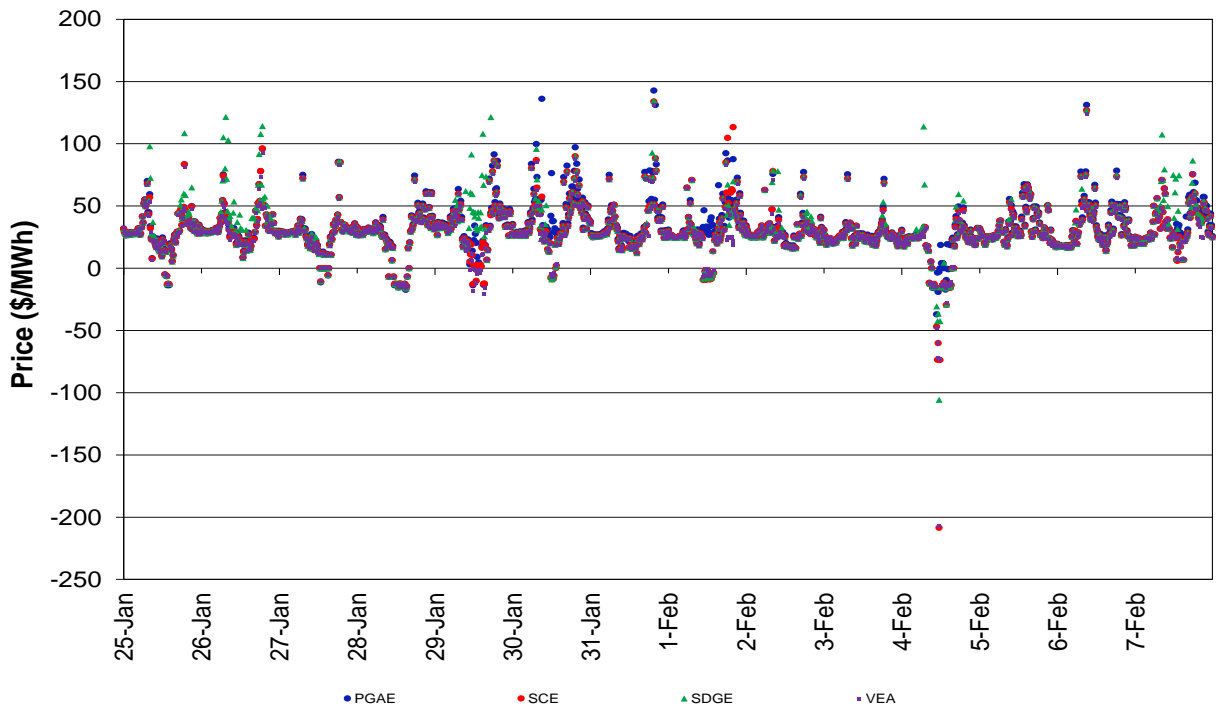


Figure 8: Real-Time RTD DLAP LMP

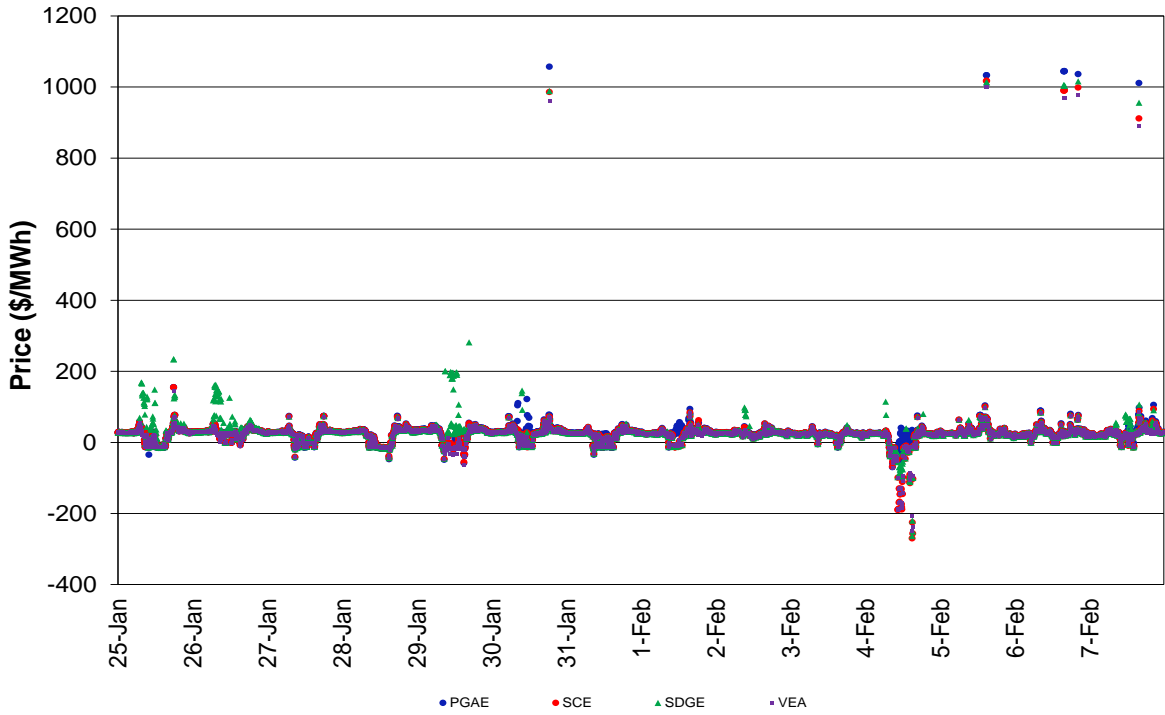


Figure 9: Real-Time FMM ELAP LMP

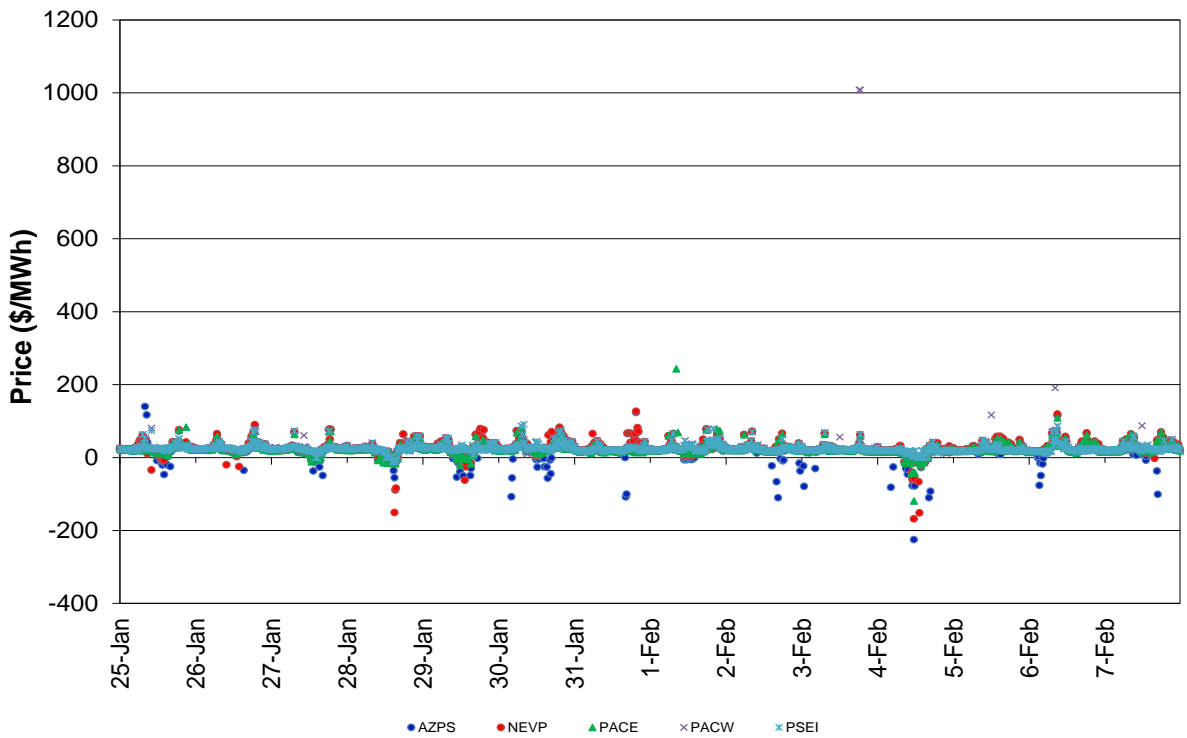




Figure 10: Real-Time RTD ELAP LMP

