

Market Highlights¹ (January 23–February 5)

- The average DLAP price in the integrated forward market was \$40.30. The maximum and minimum DLAP prices were \$91.05 and \$10.25, respectively. The maximum and minimum PNode prices in the integrated forward market were \$450.00 and -\$54.60 respectively.
- The top two interties congested in the integrated forward market were IPPDCADLN_ITC and PALOVRDE_ITC. Congestion rents in these two weeks totaled \$6,742,084.18.
- The average day-ahead ancillary service prices were between \$0.00 and \$65.40.
- Approximately 95.13 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$40.40, with a maximum price of \$273.49 and a minimum price of -\$34.35. The maximum and minimum PNode prices in the FMM were \$1,038.14 and -\$252.93, respectively.
- Out of the total 1,344 FMM intervals, 1 intervals saw DLAP prices above \$250, and 0 intervals saw DLAP prices below -\$150.
- Out of the total 1,344 FMM intervals, 15 intervals saw ELAP prices above \$250 And 2 intervals saw ELAP prices below -\$150.
- The average real-time FMM ELAP price was \$33.06, with a maximum price of \$408.86 and a minimum price of -\$150.96.
- The average real-time RTD DLAP price was \$39.35, with a maximum price of \$1,042.13 and a minimum price of -\$255.74. The maximum and minimum PNode prices in the RTD were \$1,052.50 and -\$430.32, respectively.
- Out of the total 4,032 RTD intervals, 18 intervals saw DLAP prices above \$250 and 1 interval saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 57 intervals saw ELAP prices above \$250 and 11 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$32.75, with a maximum price of \$1,000.40 and a minimum price of -\$163.54.
- Root causes for daily high price events are noted in Tables 1 and 2.

Table 1 FMM Intervals	
Trade Date	Root Cause
FMM Feb 5 HE 18	Load changes and change in renewable forecast.

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

Table 2 RTD Intervals	
Trade Date	Root Cause
RTD Jan 25 HE 23	Reduction of net imports and resource re-dispatch of resources.
RTD Jan 28 HE 6	Load changes.
RTD Jan 28 HE 16; Jan 29 HE 16; Feb 2 HE 9	Load change and renewable deviation.
RTD Jan 28 HE 23	Load changes and reduction of net imports
RTD Jan 29 HE 19	Renewable deviation.
RTD Feb 1 HE 16	Renewable deviation and re-dispatch of resources.
RTD Feb 4 HE 12	Load changes, renewable deviation, and re-dispatch of resources.

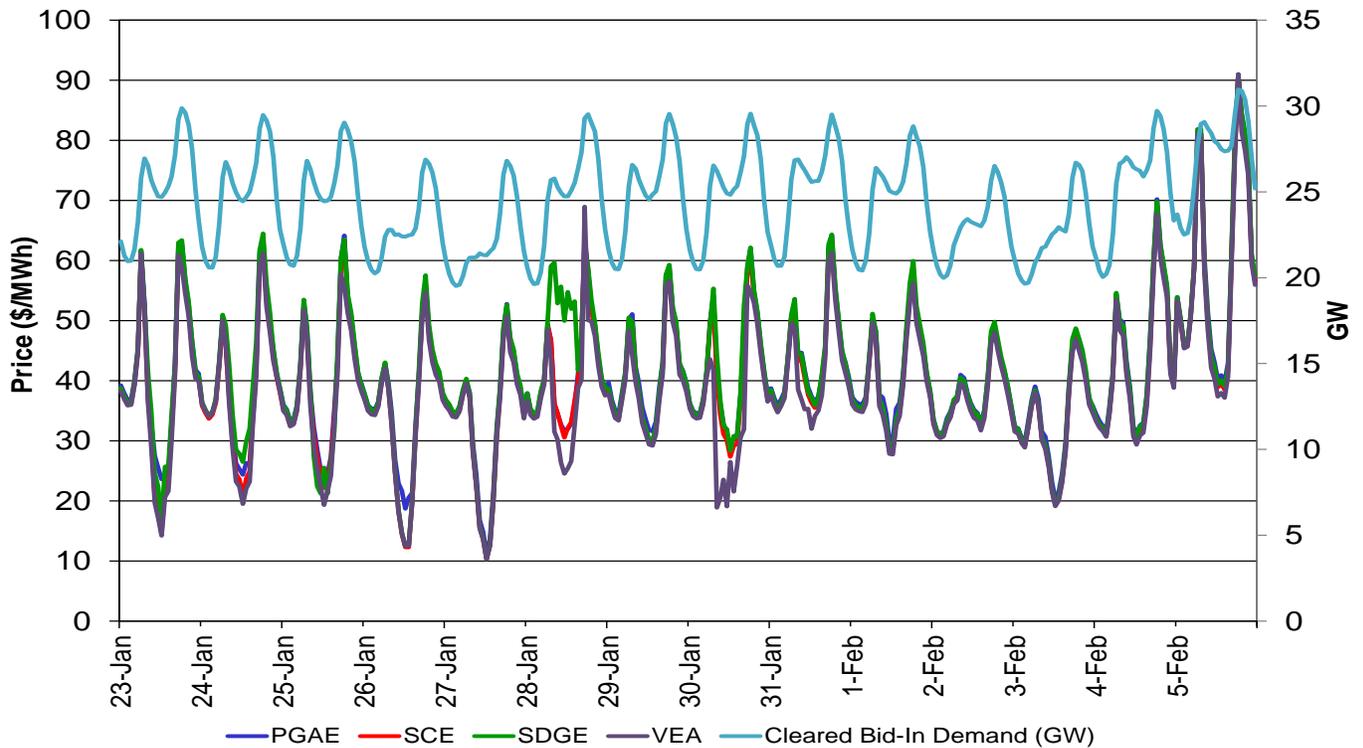
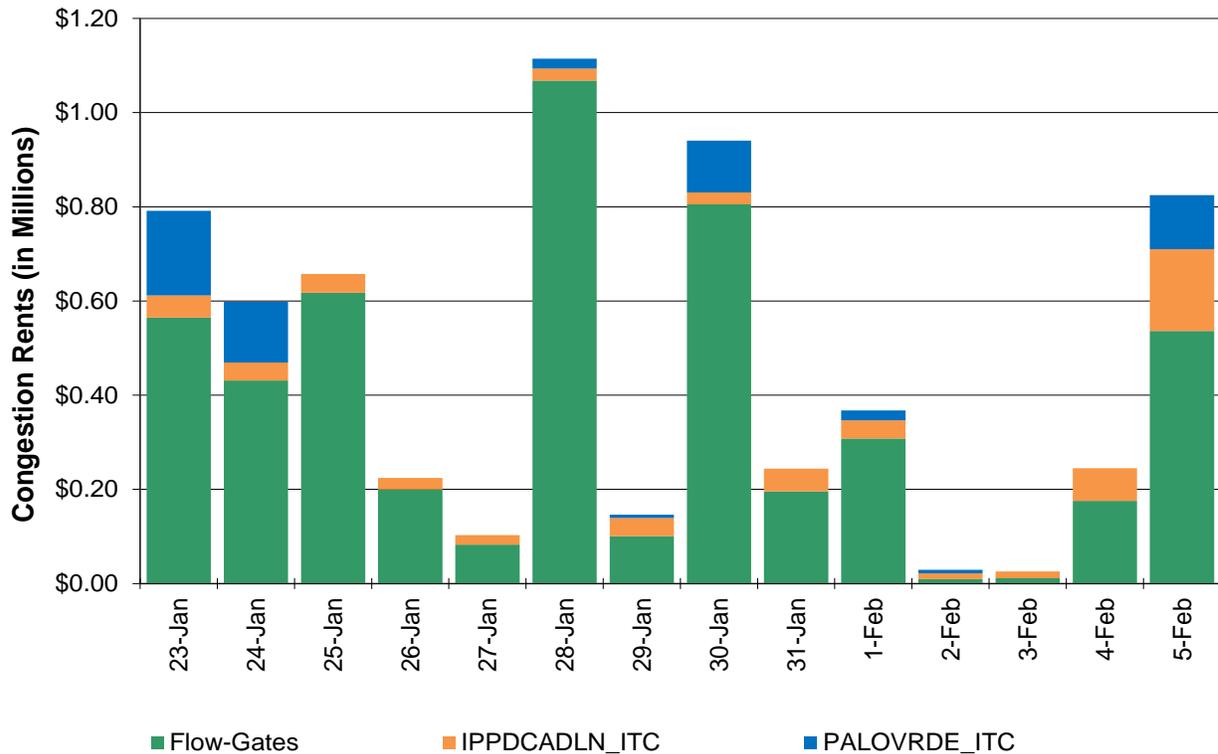
Figure 1: Day-Ahead (IFM) LAP LMP and Cleared Bid-In Demand


Figure 2: Day-Ahead Congestion Rents

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

Transmission Constraint	Congestion Rent
24086_LUGO_500_26105_VICTORVL_500_BR_1_1	\$ 940,164.81
7750_D-ECASCO_OOS_CP6_NG	\$ 914,096.07
MIGUEL_BKs_MXFLW_NG	\$ 358,402.77
OMS 6791208_TL23054_55_NG	\$ 344,986.25
22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	\$ 337,707.93
OMS 6771357_PAS-BAI_OOS_NG	\$ 288,316.68
7820_TL_230S_OVERLOAD_NG	\$ 286,874.57
30056_GATES2_500_30060_MIDWAY_500_BR_2_3	\$ 269,335.03
34418_KINGSBRG_115_34405_FRWT_TAP_115_BR_1_1	\$ 262,681.91
OMS 5601922_DV_RDBLF1	\$ 224,749.85
32973_LAKEWOOD_115_99108_LAK-MOR1_115_BR_1_1	\$ 208,537.11
7510-PAS-BAI-PAR-OOS_NG	\$ 169,486.87
36851_NORTHERN_115_36852_SCOTT_115_BR_1_1	\$ 142,012.89
24036_EAGLROCK_230_24059_GOULD_230_BR_1_1	\$ 123,472.89
30765_LOSBANOS_230_30790_PANOCHÉ_230_BR_2_1	\$ 94,627.72
OP-6610_ELD-LUGO	\$ 50,877.07
22372_KEARNY_69.0_22496_MISSION_69.0_BR_1_1	\$ 31,357.20
BLYTHE_BG	\$ 11,855.90
30885_MUSTANGS_230_30900_GATES_230_BR_1_1	\$ 9,444.92

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

Transmission Constraint	Congestion Rent
22604_OTAY_69.0_22616_OTAYLKTP_69.0_BR_1_1	\$ 8,506.63
34405_FRWT TAP_115_34420_CORCORAN_115_BR_1_1	\$ 8,392.63
31566_KESWICK_60.0_31582_STLLWATR_60.0_BR_1_1	\$ 2,904.34
34548_KETTLEMN_70.0_34552_GATES_70.0_BR_1_1	\$ 2,902.76
22136_CLAIRMNT_69.0_22140_CLARMTTP_69.0_BR_1_1	\$ 2,839.02
31000_HUMBOLDT_115_31015_BRDGVILLE_115_BR_1_1	\$ 2,663.70
32225_BRNSWKT1_115_32222_DTCH2TAP_115_BR_1_1	\$ 1,628.30
HUMBOLDT_IMP_NG	\$ 1,459.65
33016_ALHAMTP2_115_32754_OLEUM_115_BR_1_1	\$ 1,450.83
OMS 6642295 JHINDS-MIRAGE_NG	\$ 892.18
22644_PENSQTOS_69.0_22856_TOREYPNS_69.0_BR_1_1	\$ 816.11
31080_HUMBOLDT_60.0_31092_MPLE CRK_60.0_BR_1_1	\$ 814.64
22331_MIRASNT0_69.0_22644_PENSQTOS_69.0_BR_1_1	\$ 552.00
33543_AEC_TP2_115_33540_TESLA_115_BR_1_1	\$ 481.06
22372_KEARNY_69.0_22140_CLARMTTP_69.0_BR_1_1	\$ 439.50
22444_MESA RIM_69.0_22480_MIRAMAR_69.0_BR_1_1	\$ 97.68
31555_MSS TAP2_60.0_31553_BIG BAR_60.0_BR_1_1	\$ 1.78
Totals	\$ 5,105,831.27

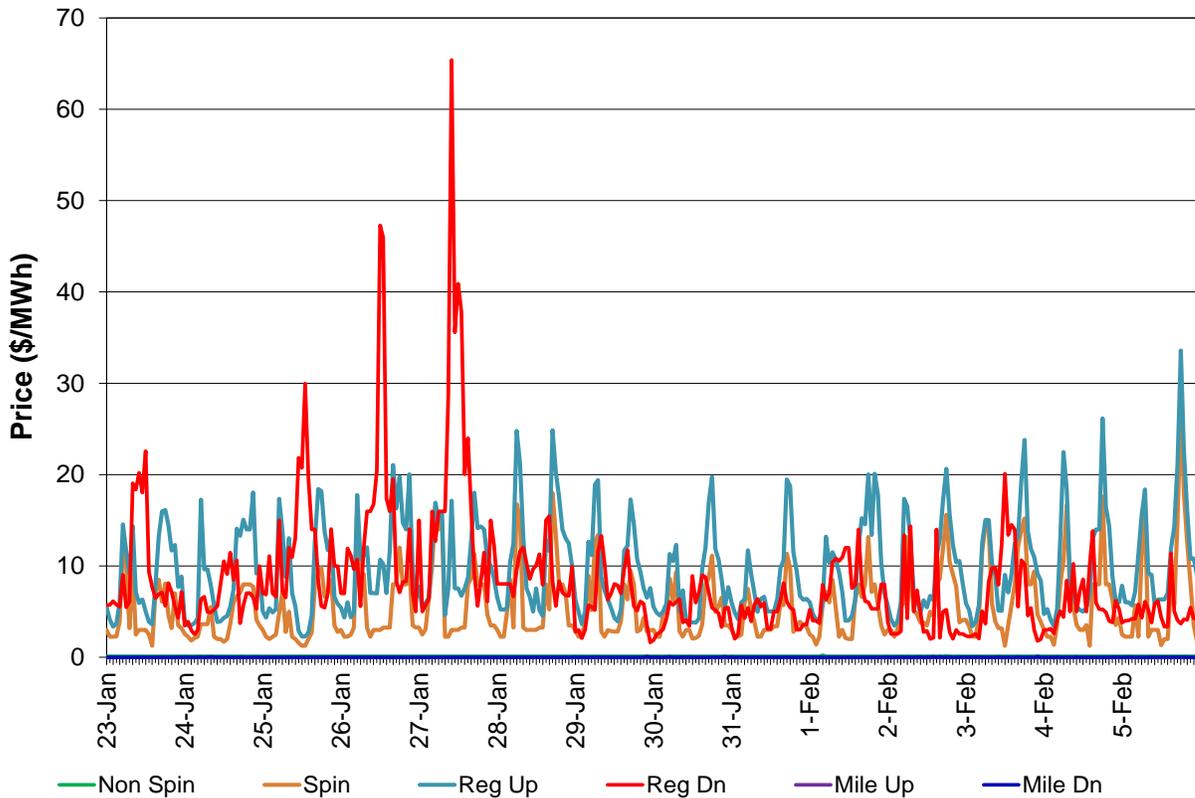
Figure 4: Day-Ahead (IFM) Average A/S Price




Figure 5: Day-Ahead Average RUC Price

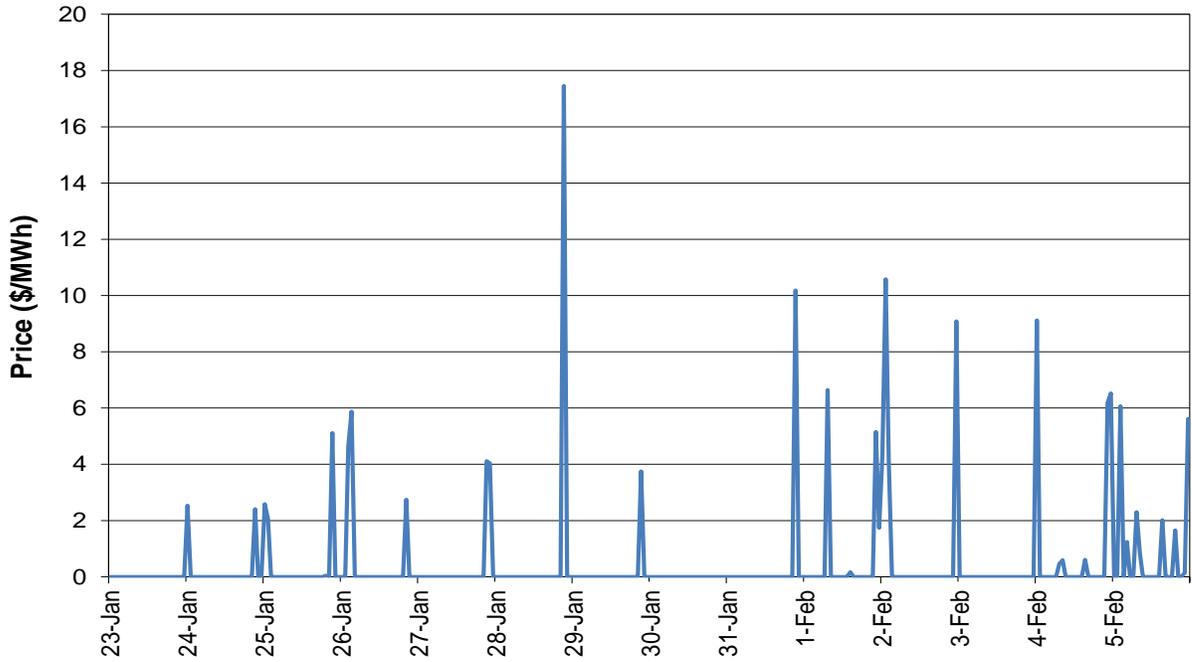


Figure 6: Real-Time FMM Average A/S Price

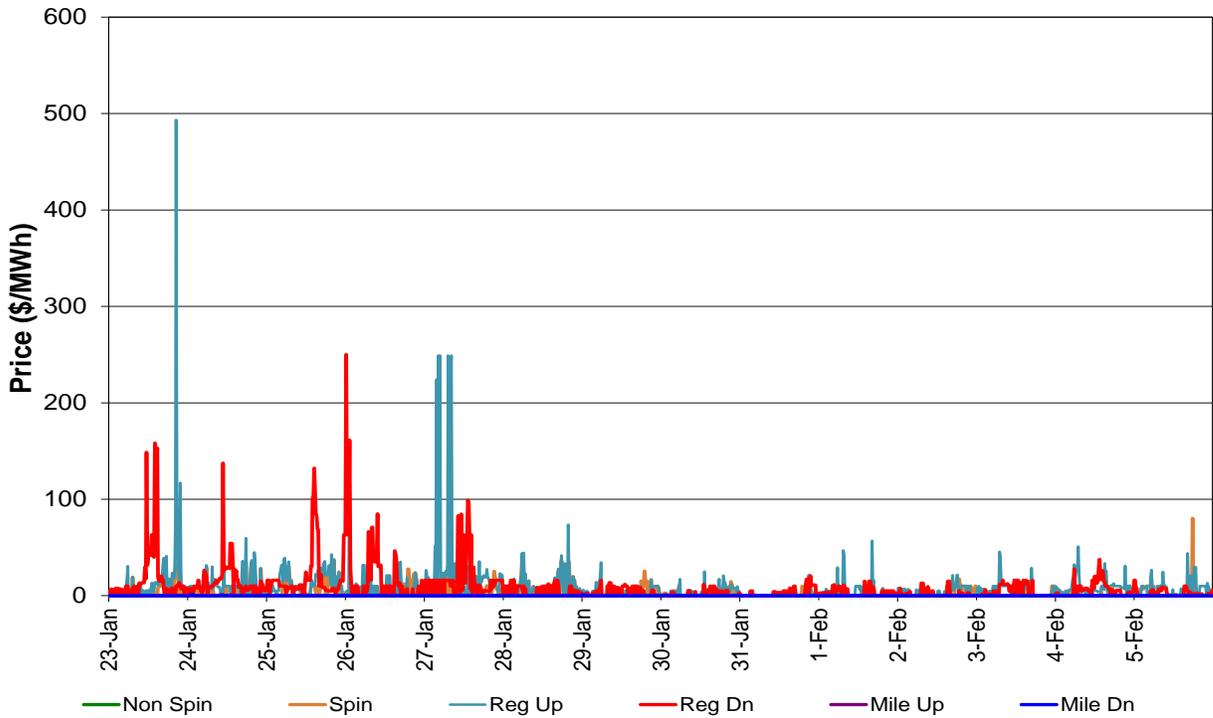




Figure 7: Real-Time FMM DLAP LMP

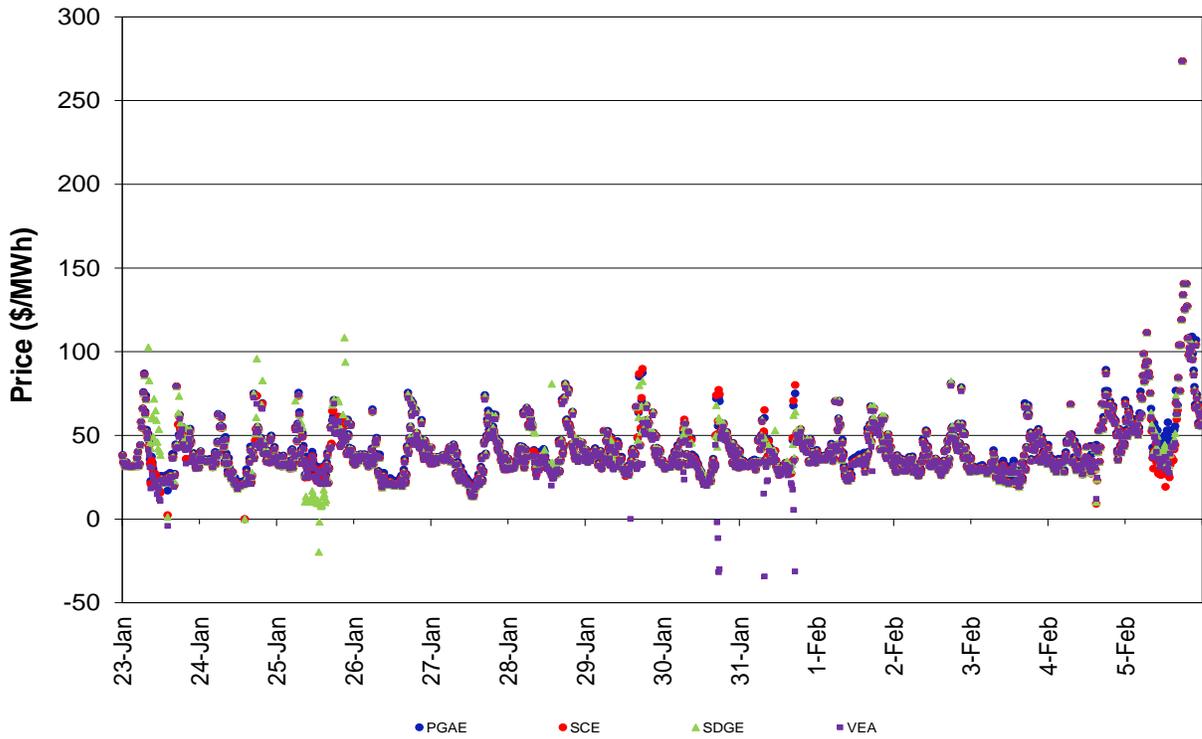


Figure 8: Real-Time RTD DLAP LMP

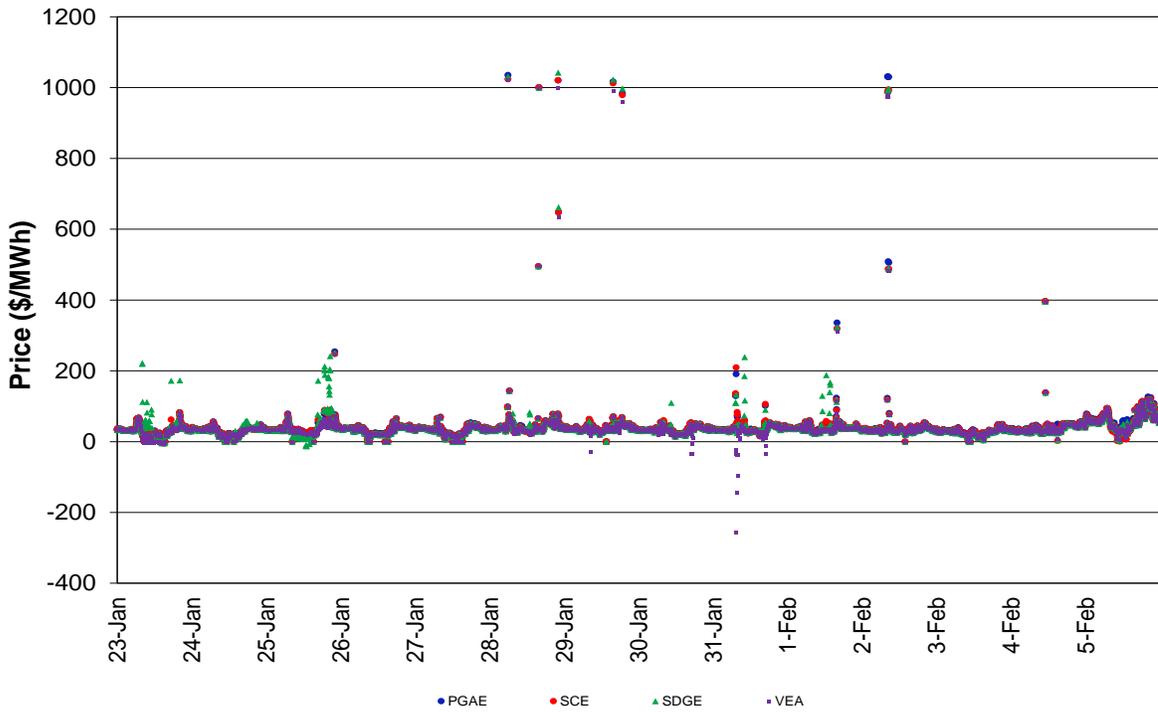


Figure 9: Real-Time FMM ELAP LMP

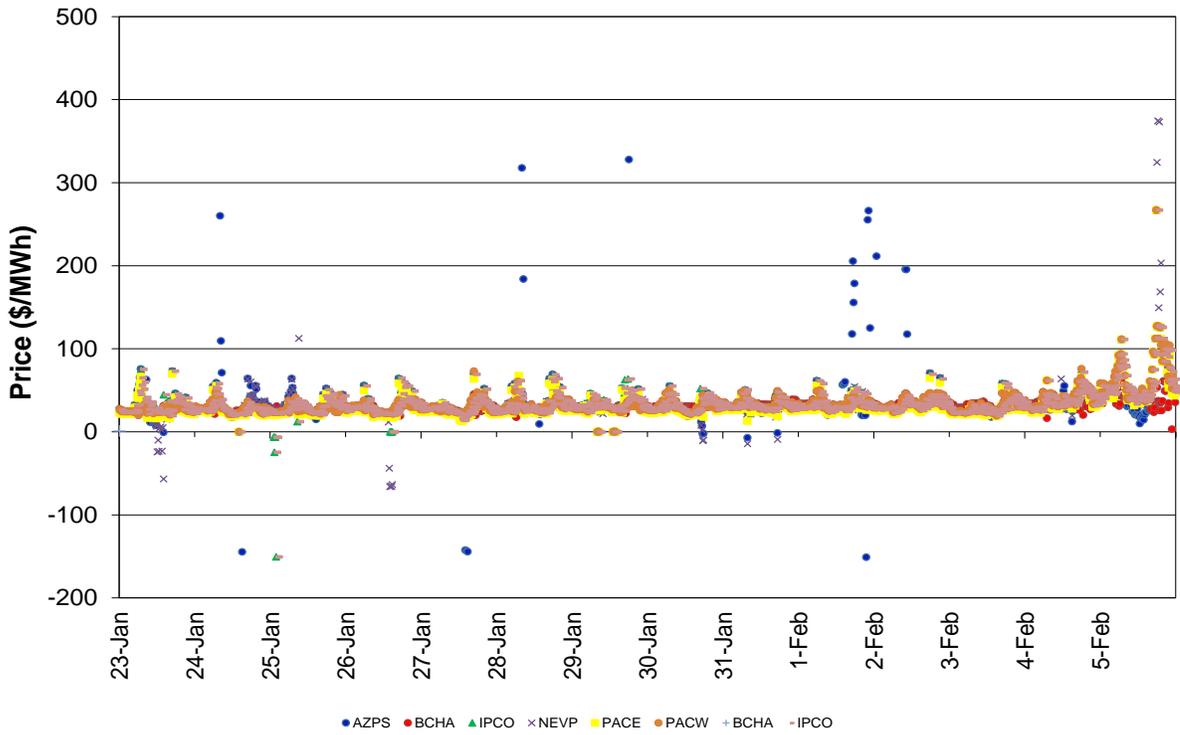


Figure 10: Real-Time RTD ELAP LMP

