

Market Highlights¹ (January 24–February 6)

- The average DLAP price in the integrated forward market was \$30.55. The maximum and minimum DLAP prices were \$86.15 and \$1.08, respectively. The maximum and minimum PNode prices in the integrated forward market were \$71.14 and -\$6.59 respectively.
- The top two interties congested in the integrated forward market were NOB_ITC and MALIN500. Congestion rents in these two weeks totaled \$16,938,703.56.
- The average day-ahead ancillary service prices were between \$0.00 and \$45.55.
- Approximately 97.52 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$30.12, with a maximum price of \$414.87 and a minimum price of -\$0.49. The maximum and minimum PNode prices in the FMM were \$634.99 and -\$520.05, respectively.
- Out of the total 1,344 FMM intervals, 3 intervals saw DLAP prices above \$250, and 0 intervals saw DLAP prices below -\$150.
- Out of the total 1,344 FMM intervals, 7 intervals saw ELAP prices above \$250 and 2 intervals saw ELAP prices below -\$150.
- The average real-time FMM ELAP price was \$20.96, with a maximum price of \$304.16 and a minimum price of -\$152.03.
- The average real-time RTD DLAP price was \$28.82, with a maximum price of \$1,104.46 and a minimum price of -\$17.82. The maximum and minimum PNode prices in the RTD were \$1,642.09 and -\$718.00, respectively.
- Out of the total 4,032 RTD intervals, 21 intervals saw DLAP prices above \$250 and 0 interval saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 18 intervals saw ELAP prices above \$250 and 7 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$19.63, with a maximum price of \$989.21 and a minimum price of -\$641.83.
- Root cause for daily high price events are noted in Tables 1 and 2.

Table 1 FMM Intervals	
Trade Date	Root Cause
FMM Jan 28 HE 17	Load changes and change of renewable forecast.
FMM Jan 29 HE 18	Congestion on 24138_SERRANO_500_24137_SERRANO_230_XF_1_P.
FMM Jan 30 HE 9,10	Congestion on OMS 5092302 MG_BK81_NG.

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 24 HE 16; Jan 29 HE 17; Feb 2 HE 17	Load changes and renewable deviation.
RTD Jan 24 HE 18	Congestion on OMS 5555651 CRY-MCC_6510_NG and load changes.
RTD Jan 29 HE 16	Congestion on 24138_SERRANO_500_24137_SERRANO_230_XF_1_P and re-dispatch of resources.
RTD Jan 30 HE 18	Congestion on 24138_SERRANO_500_24137_SERRANO_230_XF_1_P and 7820_TL23040_IV_SPS_NG.
RTD Jan 30 HE 8, 23	Congestion on OMS 5092302 MG_BK81_NG.
RTD Jan 30 HE 10,11; Jan 31 HE 17	Congestion on 24138_SERRANO_500_24137_SERRANO_230_XF_1_P and congestion on 7820_TL 230S_OVERLOAD_NG.
RTD Feb 2 HE 21; Feb 5 HE 7	Load changes and reduction of imports.
RTD Feb 6 HE 17	Load changes, renewable deviation, and reduction of imports.

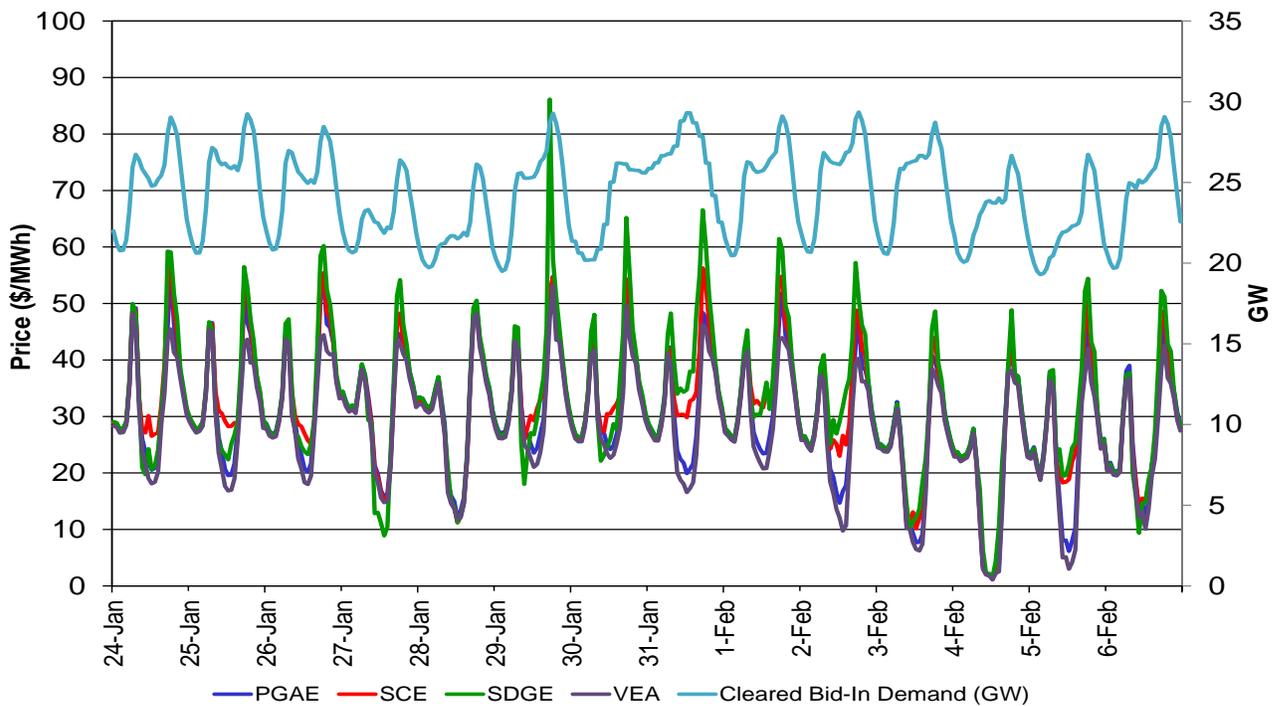
Figure 1: Day-Ahead (IFM) LAP LMP and Cleared Bid-In Demand




Figure 2: Day-Ahead Congestion Rents

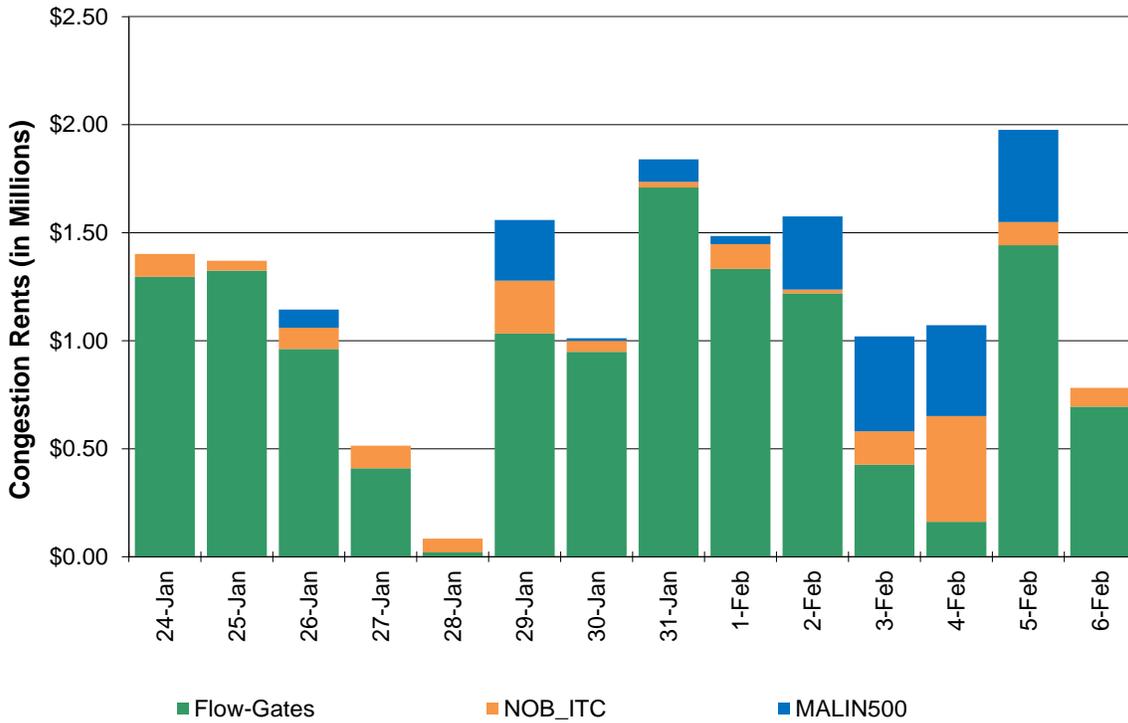


Figure 3: Day-Ahead Congestion Rents for Flow-Based Constraints

Transmission Constraint	Congestion Rent
24138_SERRANO_500_24137_SERRANO_230_XF_1_P	\$8,153,451
22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	\$3,281,305
24086_LUGO_500_26105_VICTORVL_500_BR_1_1	\$691,509
7820_TL 230S_OVERLOAD_NG	\$389,741
OMS 5092302 MG_BK81_NG	\$162,062
30275_CRESTA_230_30330_RIO OSO_230_BR_1_1	\$63,557
25001_GOODRICH_230_24076_LAGUBELL_230_BR_1_1	\$56,472
OMS 4790142 Caribou Bank	\$50,648
HUMBOLDT_IMP_NG	\$23,506
7820_TL23040_IV_SPS_NG	\$21,391
24402_ANTELOPE_66.0_24420_NEENACH_66.0_BR_1_1	\$20,884
31336_HPLND JT_60.0_31206_HPLND JT_115_XF_2	\$19,057
31214_GEYERS56_115_31220_EGLE RCK_115_BR_1_1	\$18,231
30450_CORTINA_230_30460_VACA-DIX_230_BR_1_1	\$14,009
31227_HGHLNDJ2_115_31950_CORTINA_115_BR_1_1	\$6,188
99254_J.HINDS2_230_24806_MIRAGE_230_BR_1_1	\$3,605
31334_CLER LKE_60.0_31338_KONOCTI6_60.0_BR_1_1	\$1,572
31336_HPLND JT_60.0_31370_CLVRDLJT_60.0_BR_1_1	\$1,540
IID-SCE_BG	\$1,382

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

Transmission Constraint	Congestion Rent
22484_MIRAMAR1_69.0_22492_MIRAMRTP_69.0_BR_1_1	\$899
22324_GLENCLIF_69.0_22328_GLNCLFTP_69.0_BR_1_1	\$528
33310_SANMATEO_115_33315_RAVENSWD_115_BR_1_1	\$420
32374_DRUM_60.0_32376_BONNIE N_60.0_BR_1_1	\$251
22644_PENSQTOS_69.0_22164_DELMARTP_69.0_BR_1_1	\$200
22200_DUNHILTP_69.0_22196_DUNHILL_69.0_BR_1_1	\$33
Total	\$ 8,153,451.43

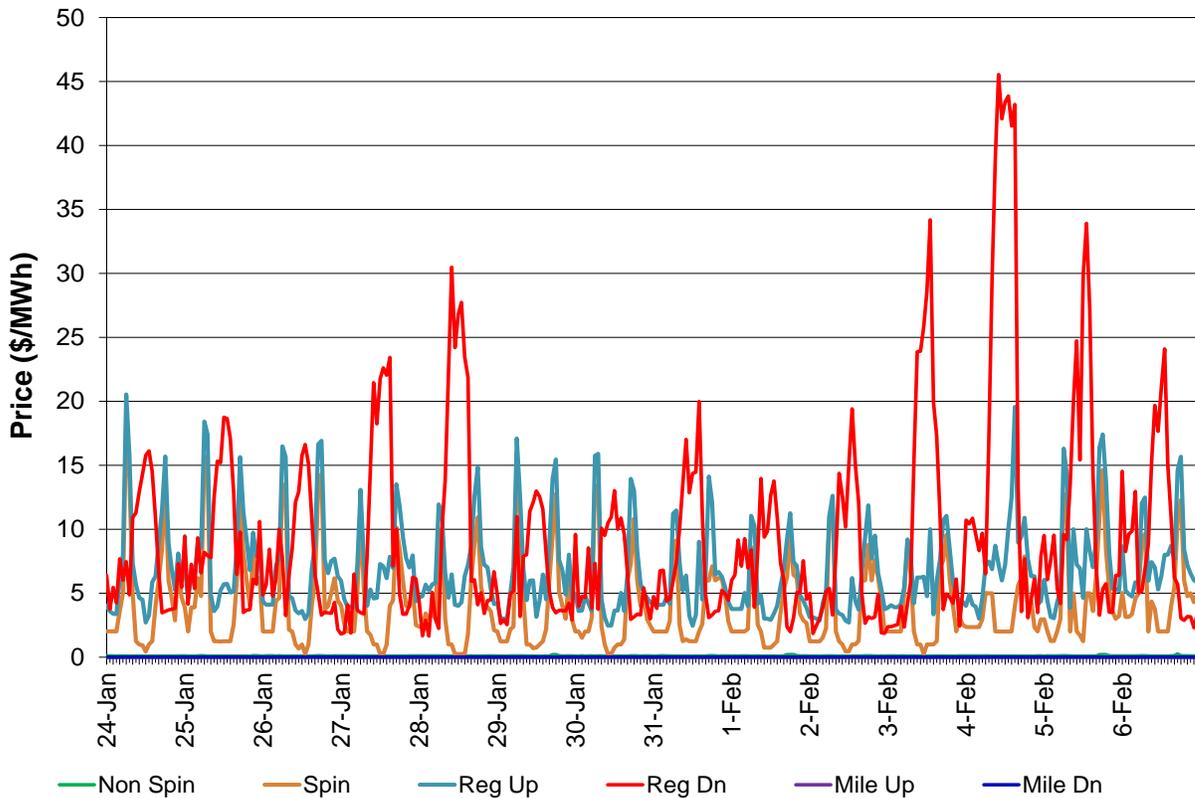
Figure 4: Day-Ahead (IFM) Average A/S Price


Figure 5: Day-Ahead Average RUC Price

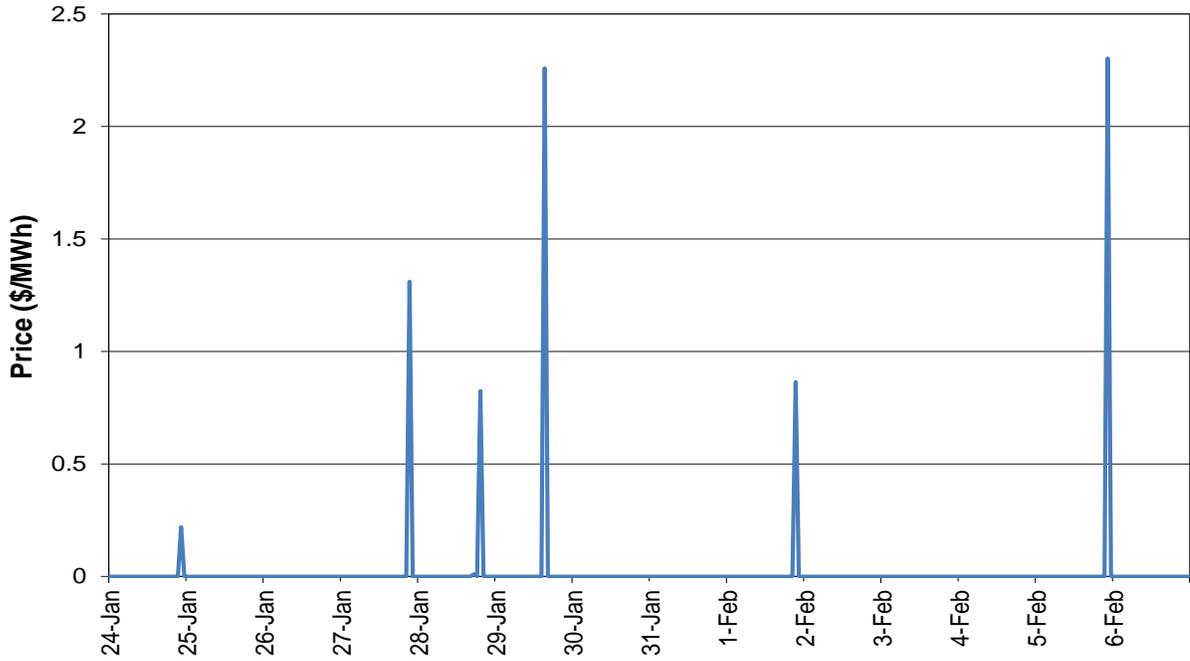


Figure 6: Real-Time FMM Average A/S Price

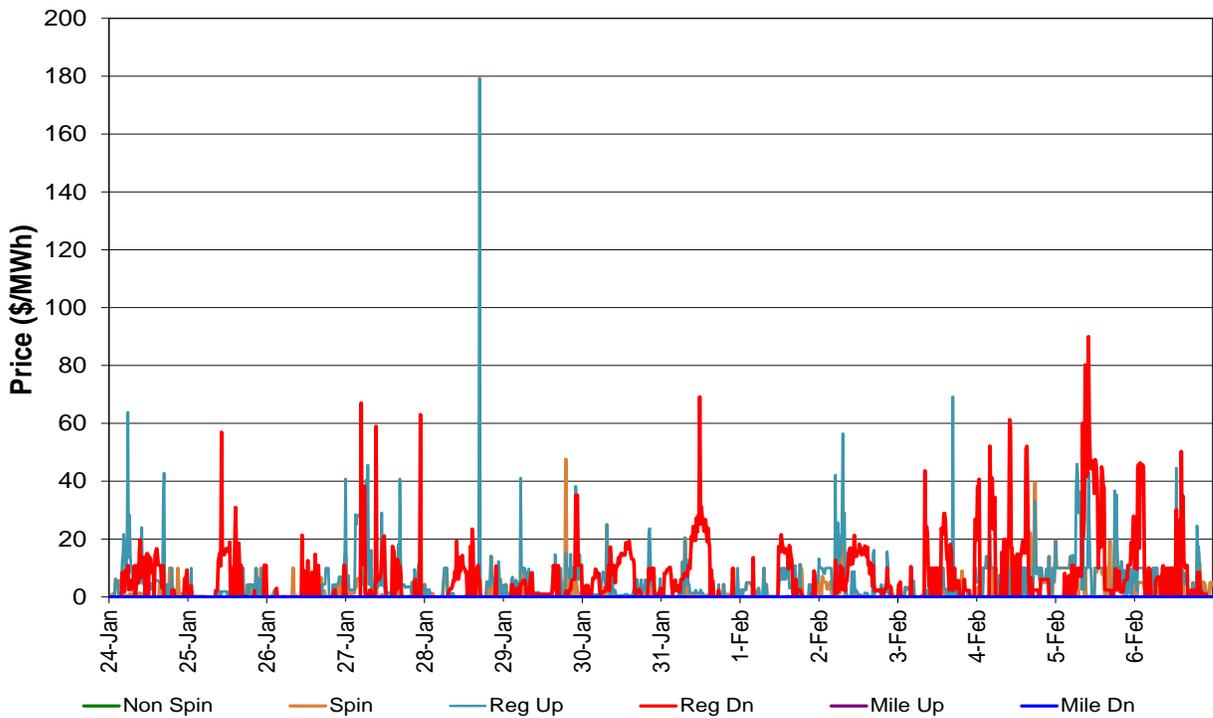


Figure 7: Real-Time FMM DLAP LMP

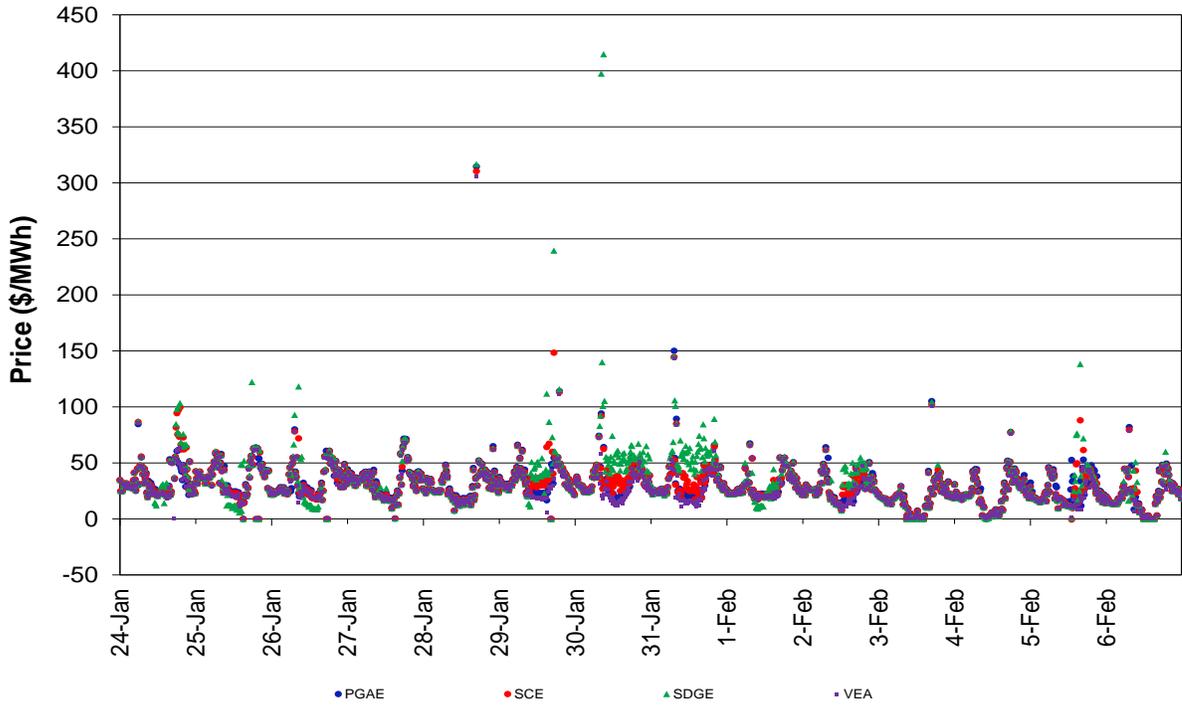


Figure 8: Real-Time RTD DLAP LMP

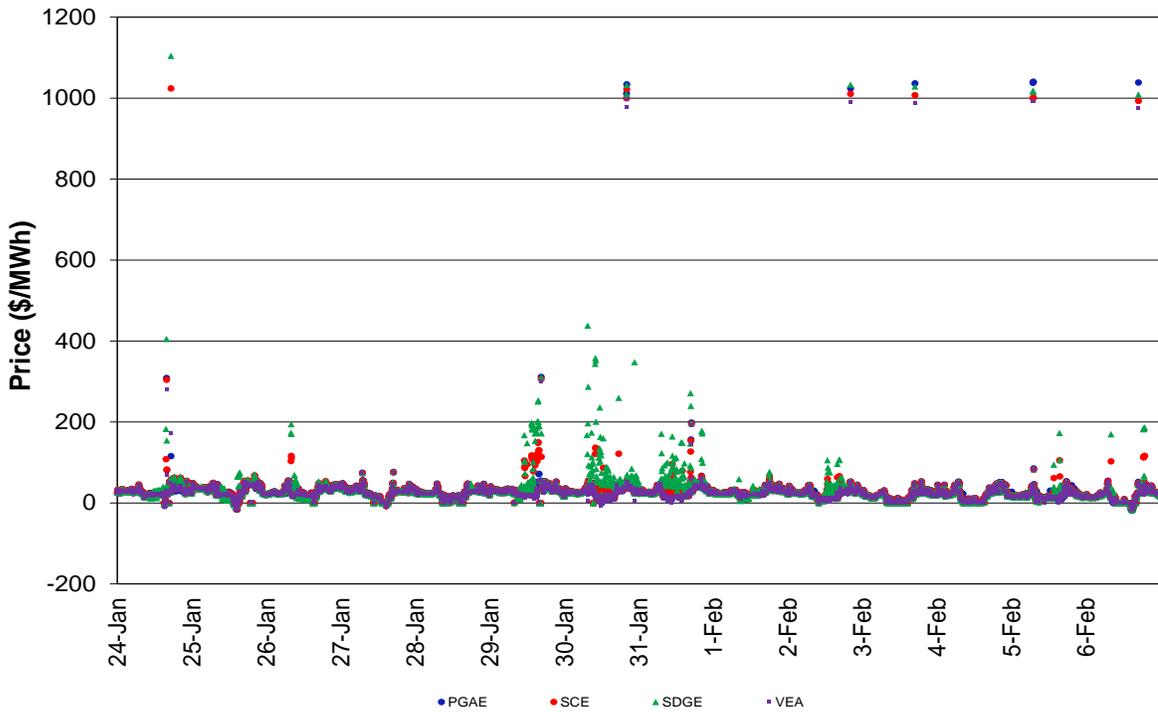




Figure 9: Real-Time FMM ELAP LMP

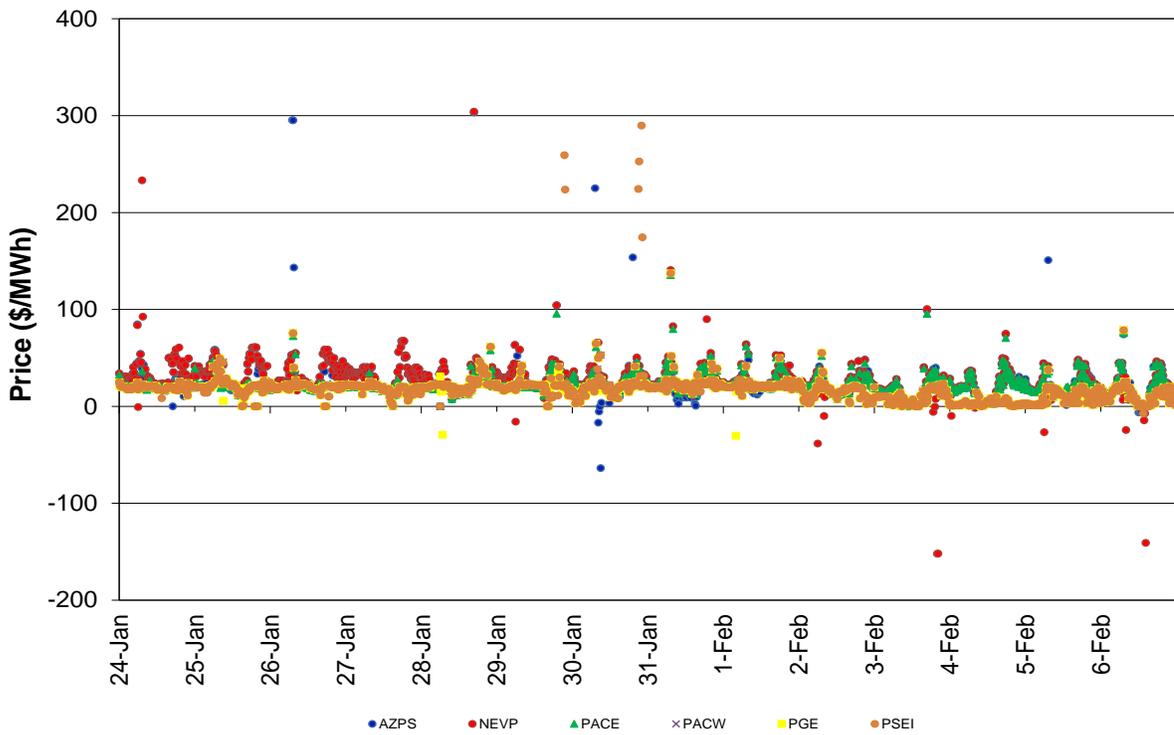


Figure 10: Real-Time RTD ELAP LMP

