

Market Highlights¹ (December 26–January 8)

- The average DLAP price in the integrated forward market was \$42.52. The maximum and minimum DLAP prices were \$89.58 and \$10.00, respectively. The maximum and minimum PNode prices in the integrated forward market were \$187.39 and -\$30.03 respectively.
- The top two interties congested in the integrated forward market were PALOVRDE_ITC and MALIN500. Congestion rents in these two weeks totaled \$5,946,674.63.
- The average day-ahead ancillary service prices were between \$0.00 and \$40.00.
- Approximately 93.73 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$38.97, with a maximum price of \$237.77 and a minimum price of -\$21.35. The maximum and minimum PNode prices in the FMM were \$376.41 and -\$183.64, 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, 7 intervals saw ELAP prices above \$250 And 1 intervals saw ELAP prices below -\$150.
- The average real-time FMM ELAP price was \$31.42, with a maximum price of \$992.97 and a minimum price of -\$152.90.
- The average real-time RTD DLAP price was \$37.26, with a maximum price of \$1,082.90 and a minimum price of -\$124.48. The maximum and minimum PNode prices in the RTD were \$1,085.30 and -\$305.41, respectively.
- Out of the total 4,032 RTD intervals, 9 intervals saw DLAP prices above \$250 and 0 interval saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 33 intervals saw ELAP prices above \$250 and 4 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$30.79, with a maximum price of \$1,010.35 and a minimum price of -\$157.09.
- Root causes for daily high price events are noted in Tables 1 and 2.

Table 1 FMM Intervals	
Trade Date	Root Cause
	None

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 4 HE 17	Load changes.
RTD Jan 5 HE 10, HE 13	Renewable deviation.
RTD Jan 7 HE 9	Congestion on OMS 5601922_DV_RDBLF1.

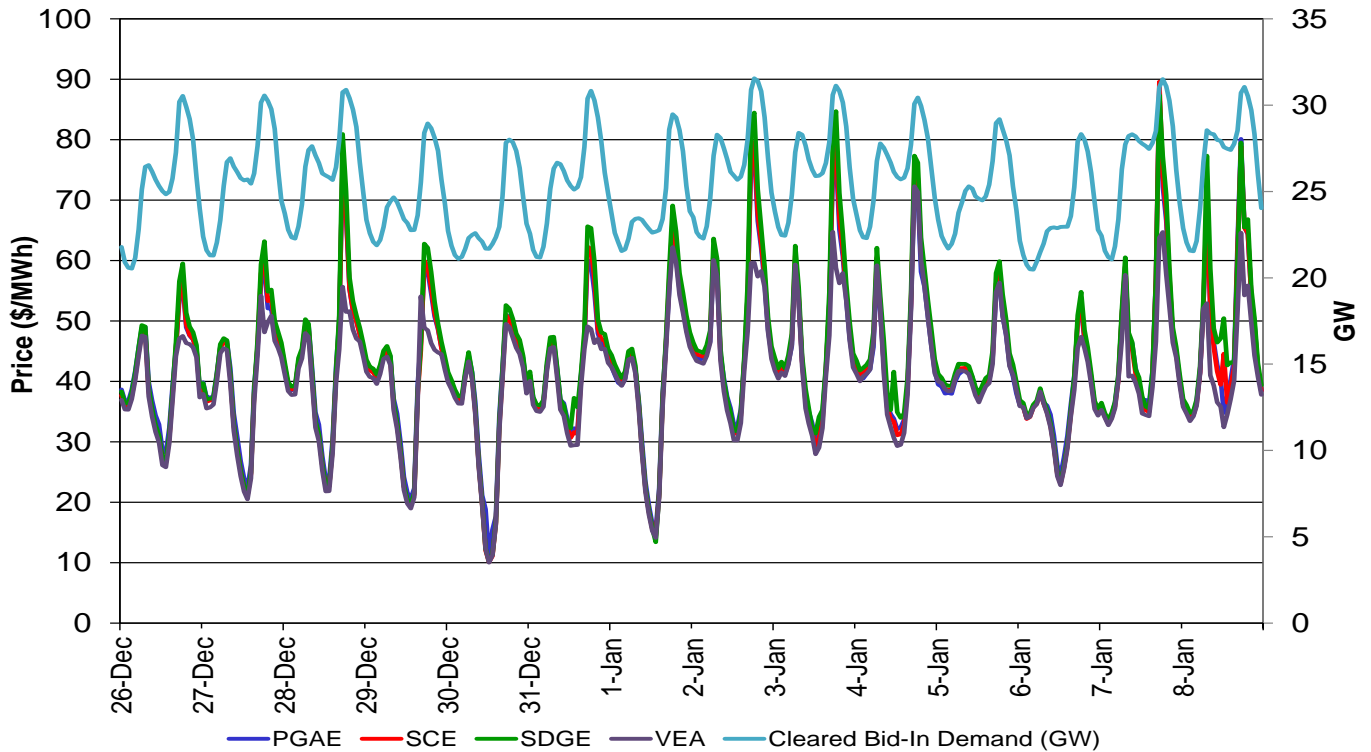
Figure 1: Day-Ahead (IFM) LAP LMP and Cleared Bid-In Demand




Figure 2: Day-Ahead Congestion Rents

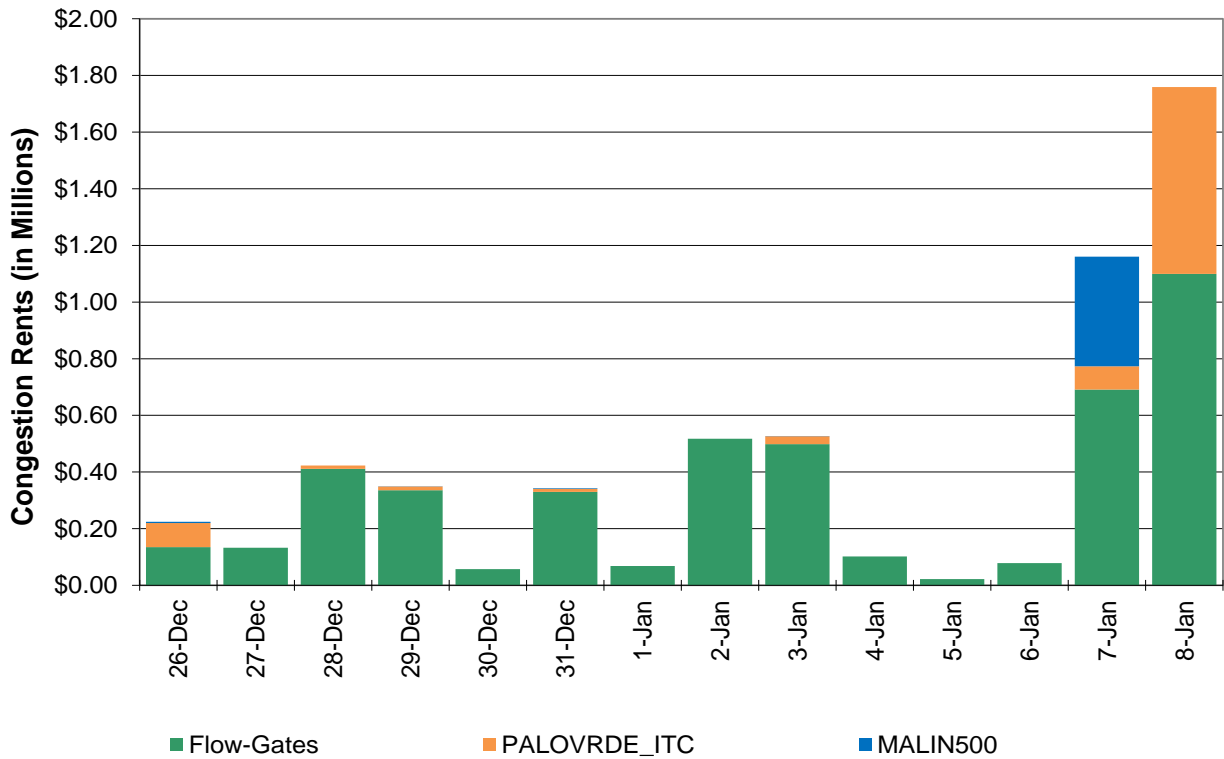


Figure 3: Day-Ahead Congestion Rents for Flow-Based Constraints

Transmission Constraint	Congestion Rent
24086_LUGO_500_26105_VICTORVL_500_BR_1_1	\$ 3,551,966.56
7820_TL_230S_OVERLOAD_NG	\$ 117,826.42
24036_EAGLROCK_230_24059_GOULD_230_BR_1_1	\$ 102,377.07
34700_SMYRNA_2_115_34742_SEMITRPJ_115_BR_1_1	\$ 76,698.06
IID-SCE_BG	\$ 65,007.81
30055_GATES1_500_30060_MIDWAY_500_BR_1_3	\$ 50,295.79
34418_KINGSBRG_115_34405_FRWT_TAP_115_BR_1_1	\$ 23,891.64
33530_KASSONJ2_115_33548_TRACY_115_BR_1_1	\$ 23,790.66
34742_SEMITRPJ_115_34746_GANSO_115_BR_1_1	\$ 20,829.29
22604_OTAY_69.0_22616_OTAYLKTP_69.0_BR_1_1	\$ 16,013.29
22256_ESCNDIDO_69.0_22724_SANMRCOS_69.0_BR_1_1	\$ 14,060.20
31000_HUMBOLDT_115_31015_BRDGVILLE_115_BR_1_1	\$ 10,995.38
7750_CP6_NG	\$ 10,006.87
HUMBOLDT_IMP_NG	\$ 9,840.96
BLYTHE_BG	\$ 8,968.59
22056_BERNARDO_69.0_22284_FELCTATP_69.0_BR_1_1	\$ 7,208.41
OMS_6642295_JHINDS-MIRAGE_NG	\$ 6,327.91
30885_MUSTANGS_230_30900_GATES_230_BR_1_1	\$ 5,719.68
22442_MELRSETP_69.0_22724_SANMRCOS_69.0_BR_1_1	\$ 5,305.73
30060_MIDWAY_500_24156_VINCENT_500_BR_2_3	\$ 4,322.65

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

Transmission Constraint	Congestion Rent
31080_HUMBOLDT_60.0_31088_HMBLJT_60.0_BR_1_1	\$ 3,695.36
7510-PAS-BAI-PAR-OOS_NG	\$ 3,411.26
34150_NEWHALL_115_34154_DAIRYLND_115_BR_1_1	\$ 1,793.61
31104_CARLOTTA_60.0_31105_RIODLLTP_60.0_BR_1_1	\$ 1,793.30
22372_KEARNY_69.0_22496_MISSION_69.0_BR_1_1	\$ 1,412.05
31214_GEYERS56_115_31220_EGLE RCK_115_BR_1_1	\$ 1,114.45
31727_ELKCRKJT_60.0_31726_ELKCREEK_60.0_BR_1_1	\$ 653.73
34269_BIOMSJCT_70.0_34268_MENDOTA_70.0_BR_1_1	\$ 167.90
34471_SNJQJCT_70.0_34469_GFFNJCT_70.0_BR_1_1	\$ 38.18
Totals	\$ 4,145,532.82

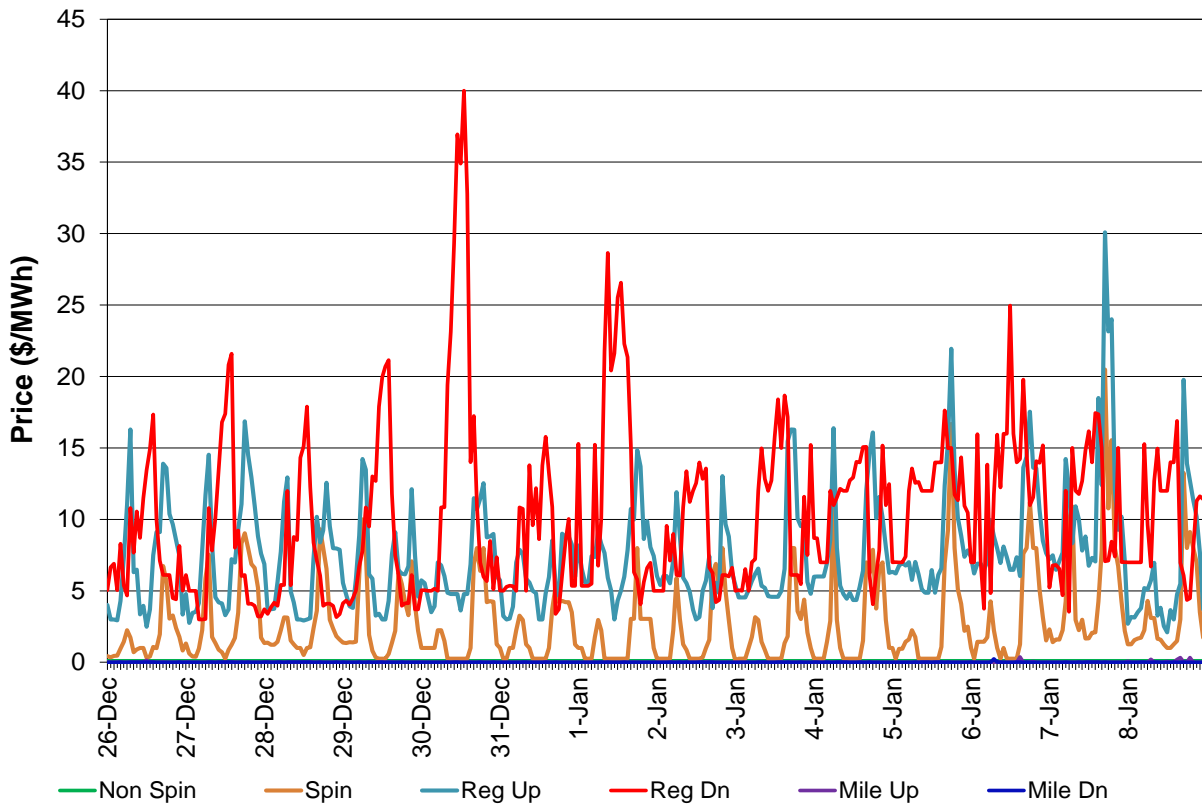
Figure 4: Day-Ahead (IFM) Average A/S Price




Figure 5: Day-Ahead Average RUC Price

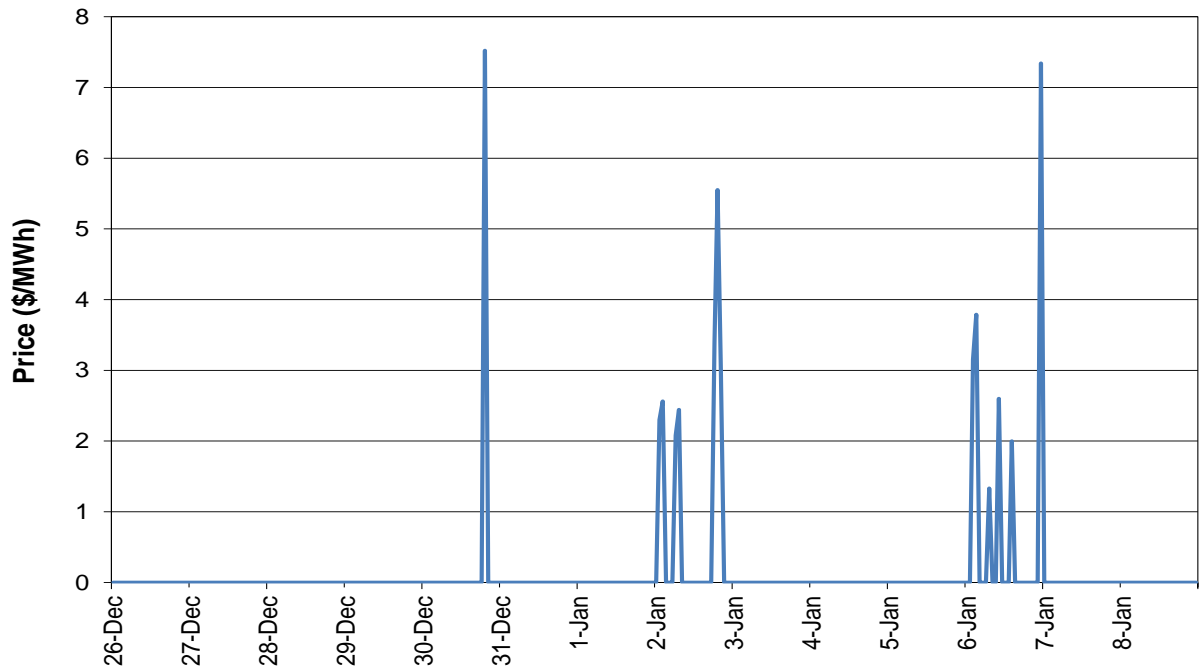


Figure 6: Real-Time FMM Average A/S Price

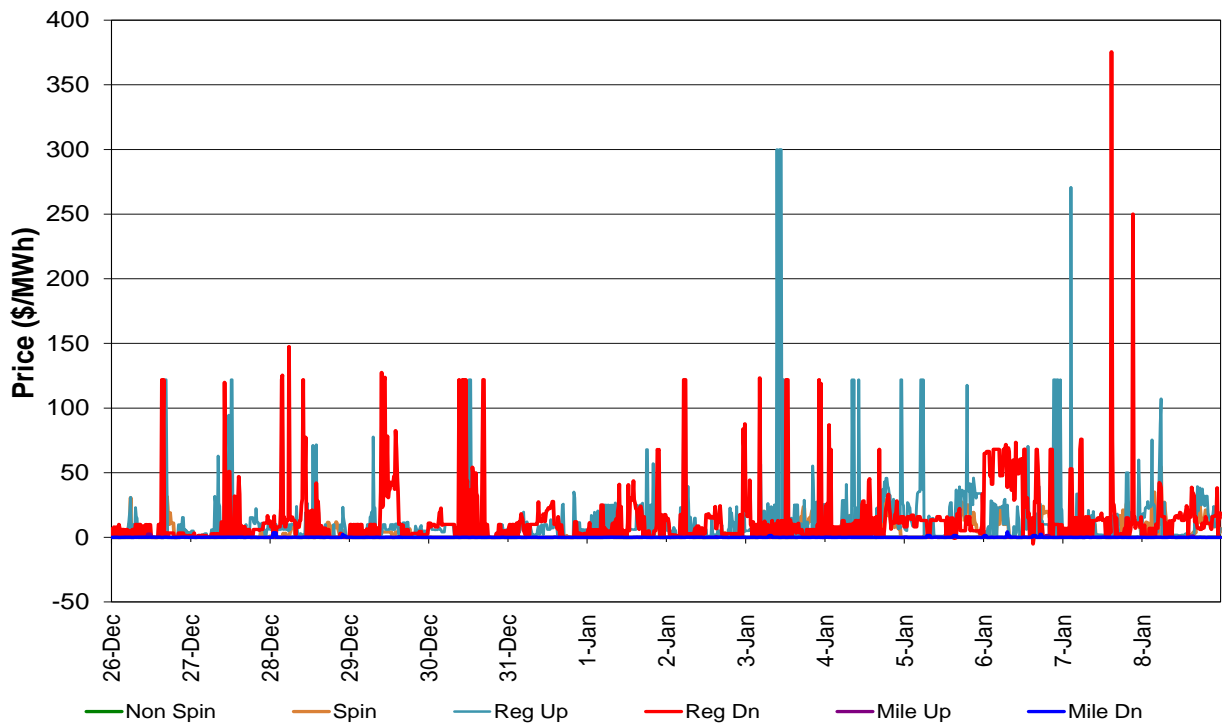




Figure 7: Real-Time FMM DLAP LMP

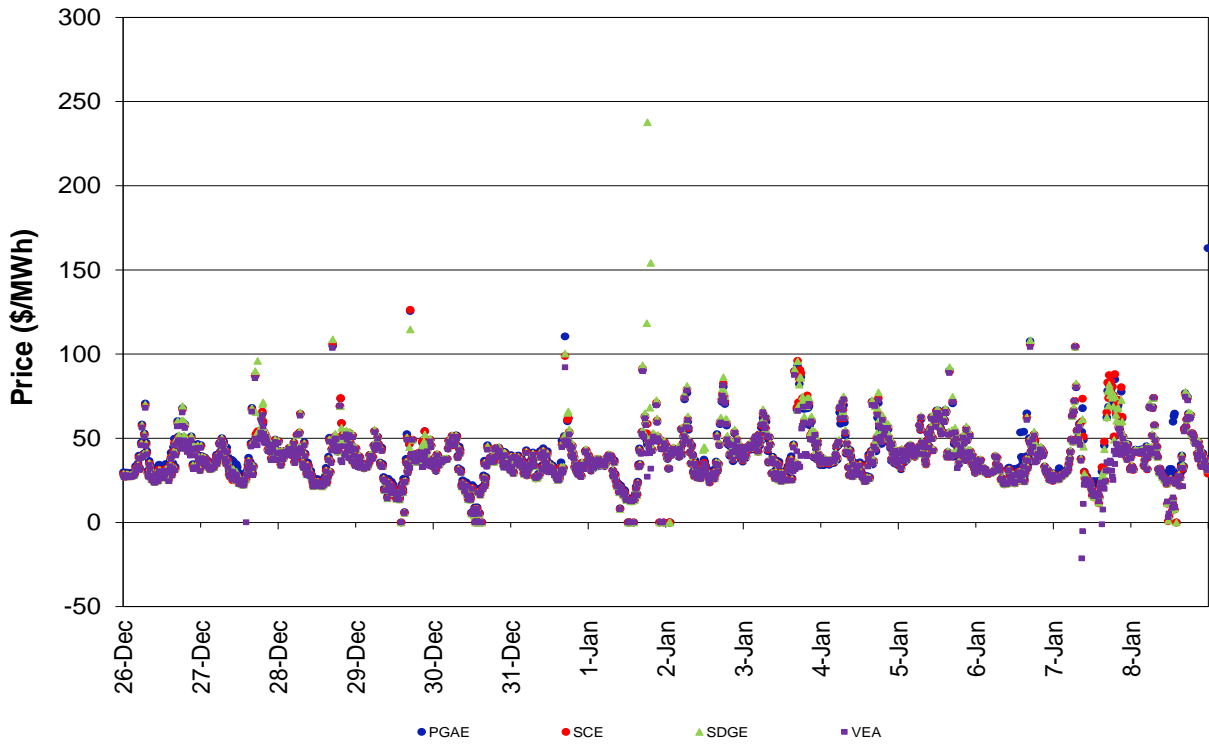


Figure 8: Real-Time RTD DLAP LMP

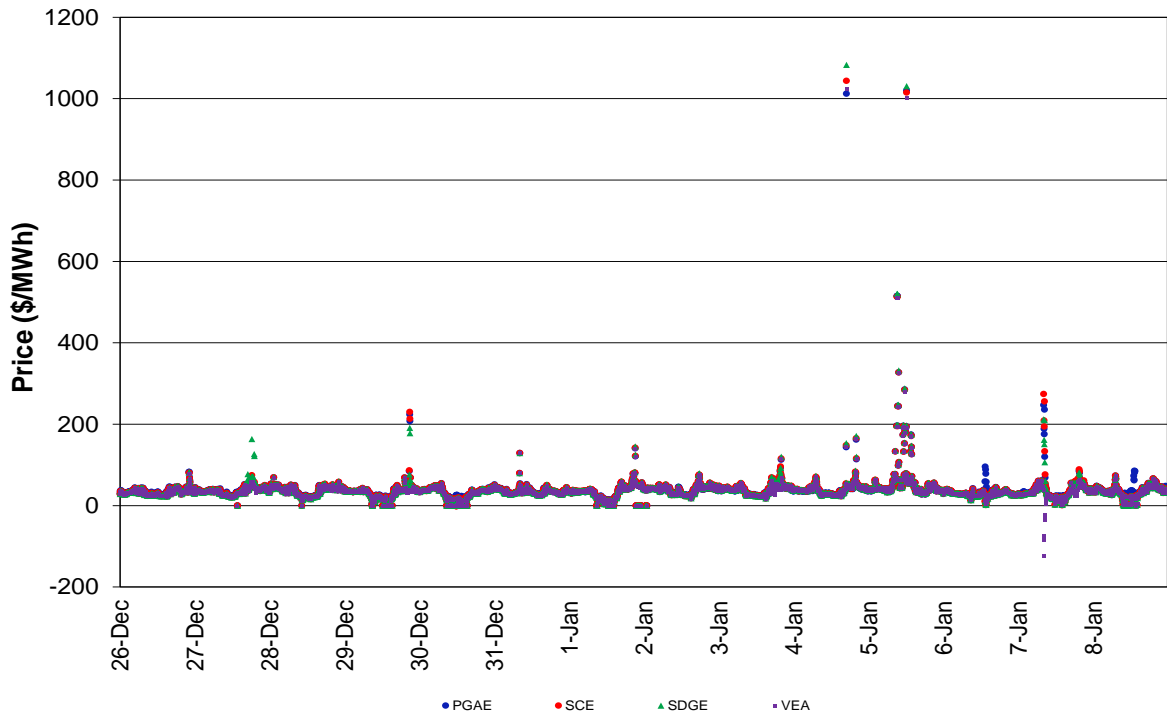


Figure 9: Real-Time FMM ELAP LMP

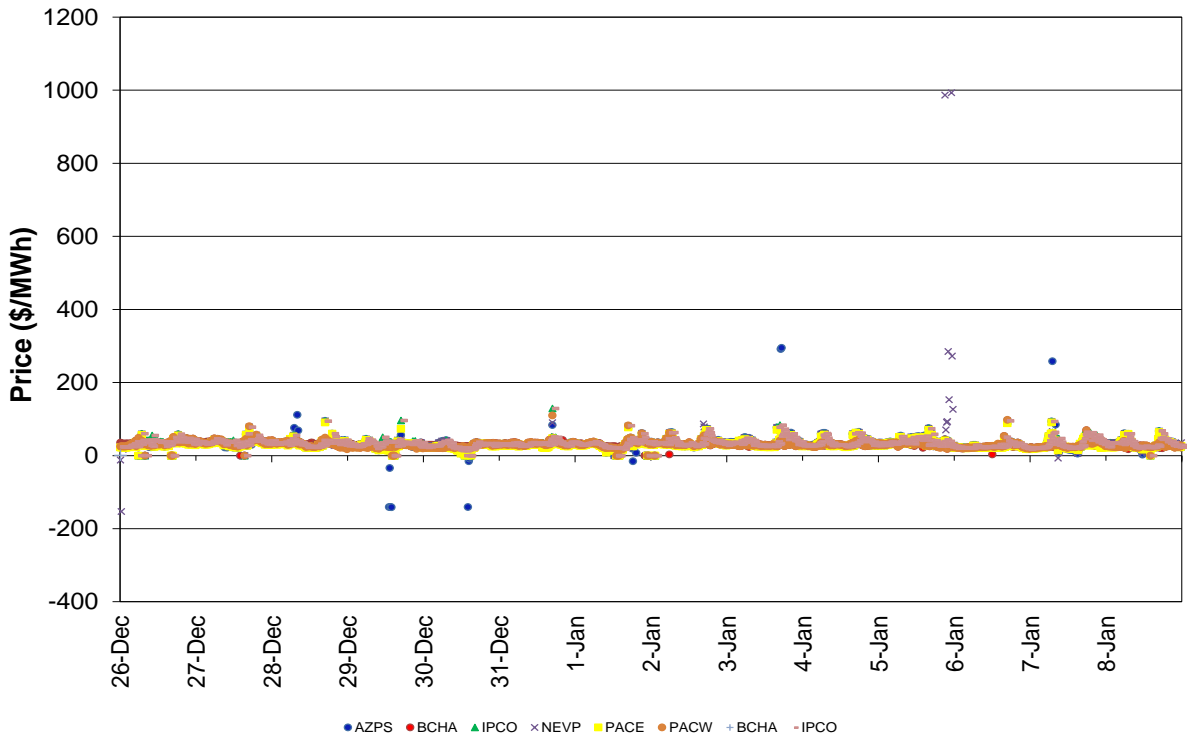


Figure 10: Real-Time RTD ELAP LMP

