

Market Highlights¹ (January 9–January 22)

- The average DLAP price in the integrated forward market was \$40.98. The maximum and minimum DLAP prices were \$76.25 and \$5.90, respectively. The maximum and minimum PNode prices in the integrated forward market were \$259.64 and -\$93.00 respectively.
- The top two interties congested in the integrated forward market were PALOVRDE_ITC and NOB_ITC. Congestion rents in these two weeks totaled \$9,681,585.17.
- The average day-ahead ancillary service prices were between \$0.00 and \$46.00.
- Approximately 96.43 percent of the RUC requirements were met from RA units.
- The average real-time FMM DLAP price was \$40.33, with a maximum price of \$248.72 and a minimum price of \$2.03. The maximum and minimum PNode prices in the FMM were \$361.35 and -\$180.05, 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, 33 intervals saw ELAP prices above \$250 And 11 intervals saw ELAP prices below -\$150.
- The average real-time FMM ELAP price was \$32.27, with a maximum price of \$1,009.94 and a minimum price of -\$159.36.
- The average real-time RTD DLAP price was \$42.68, with a maximum price of \$1,061.30 and a minimum price of -\$3.03. The maximum and minimum PNode prices in the RTD were \$1,064.02 and -\$163.85, respectively.
- Out of the total 4,032 RTD intervals, 44 intervals saw DLAP prices above \$250 and 0 interval saw DLAP prices below -\$150.
- Out of the total 4,032 RTD intervals, 129 intervals saw ELAP prices above \$250 and 45 intervals saw ELAP prices below -\$150. The average real-time RTD ELAP price was \$33.42, with a maximum price of \$1,018.86 and a minimum price of -\$187.65.
- Root causes for daily high price events are noted in Tables 1 and 2.

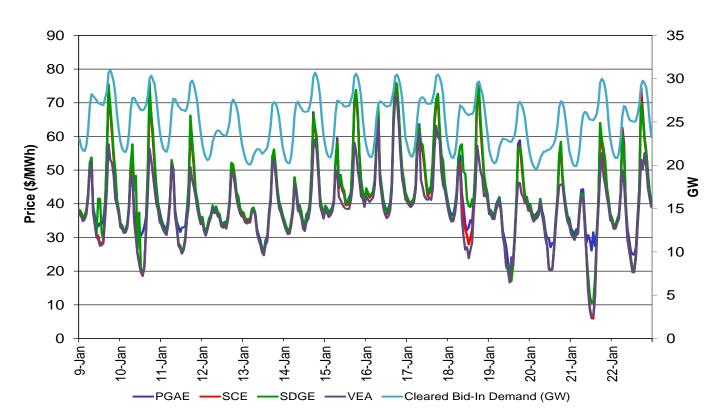
Table 1 FMM Intervals				
Trade Date	Trade Date Root Cause			
	None			

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



Table 2 RTD Intervals				
Trade Date	Root Cause			
RTD Jan 11 HE 13; Jan 15 HE 10; Jan 16 HE 21, Jan 17 HE 15	Congestion on 7820_TL 230S_OVERLOAD_NG.			
RTD Jan 12 HE 17	Changes in load forecast.			
RTD Jan 12 HE 20	Load changes and re-dispatch of resources.			
RTD Jan 12 HE 21; Jan 13 HE 16; Jan 14 HE 8, 9, 11; Jan 15 HE 9, 14; Jan 21 HE 7, HE 8, HE 9	Load changes and renewable deviation.			
RTD Jan 12 HE 22; Jan 15 HE 20, HE 21	Load changes and reduction of net imports.			







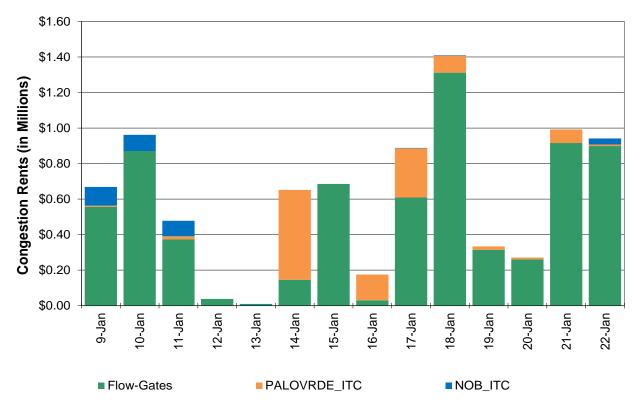


Figure 2: Day-Ahead Congestion Rents

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

Transmission Constraint	Congestion Rent	
24086_LUGO _500_26105_VICTORVL_500_BR_1_1	\$ 3,461,579.70	
OMS_6773765_TL23054_NG	\$ 496,104.54	
OMS_5413443_LOSBNS_MDWY2	\$ 368,625.35	
7750_D-ECASCO_OOS_CP6_NG	\$ 346,304.40	
30765_LOSBANOS_230_30790_PANOCHE _230_BR_2 _1	\$ 251,481.25	
34418_KINGSBRG_115_34405_FRWT TAP_115_BR_1 _1	\$ 170,051.80	
24036_EAGLROCK_230_24059_GOULD _230_BR_1 _1	\$ 115,761.10	
7820_TL23040_IV_SPS_NG	\$ 81,156.11	
30885_MUSTANGS_230_30900_GATES _230_BR_1 _1	\$ 65,636.68	
33530_KASSONJ2_115_33548_TRACY _115_BR_1 _1	\$ 55,834.94	
22372_KEARNY _69.0_22496_MISSION _69.0_BR_1 _1	\$ 53,375.28	
30056_GATES2 _500_30060_MIDWAY _500_BR_2 _3	\$ 33,127.82	
33558_LCKFRDJB_115_33562_BELLOTA _115_BR_1 _1	\$ 31,048.15	
31461_JESSTAP _115_31464_COTWDPGE_115_BR_1 _1	\$ 27,500.18	
22136_CLAIRMNT_69.0_22140_CLARMTTP_69.0_BR_1_1	\$ 26,751.85	
HUMBOLDT_IMP_NG	\$ 21,419.19	
22592_OLD TOWN_69.0_22873_VINE SUB_69.0_BR_1 _1	\$ 20,175.32	
34540_HENRITTA_70.0_30881_HENRIETA_230_XF_2	\$ 7,605.32	
34582_ARCO _70.0_34942_LST HLLS_70.0_BR_1 _1	\$ 3,891.23	
30881_HENRIETA_230_34430_HENRETTA_115_XF_3	\$ 2,675.41	

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Transmission Constraint		Congestion Rent	
BLYTHE_BG	\$	2,567.88	
30055_GATES1 _500_30900_GATES _230_XF_11_S	\$	1,904.02	
34474_HELM _70.0_34556_STRD JCT_70.0_BR_1 _1	\$	1,679.38	
31090_HMBLT BY_60.0_31100_EEL RIVR_60.0_BR_1 _1	\$	973.00	
31000_HUMBOLDT_115_31015_BRDGVLLE_115_BR_1 _1	\$	730.37	
34556_STRD JCT_70.0_34562_SCHLNDLR_70.0_BR_1 _1	\$	594.01	
22604_OTAY69.0_22616_OTAYLKTP_69.0_BR_1 _1	\$	560.94	
34471_SNJQJCT _70.0_34469_GFFNJCT _70.0_BR_1 _1	\$	375.42	
31000_HUMBOLDT_115_31452_TRINITY _115_BR_1 _1	\$	240.89	
34405_FRWT TAP_115_34420_CORCORAN_115_BR_1 _1	\$	157.19	
Totals	\$	5,649,888.72	

Figure 3: Day	v-Ahead Congestion	Rents for Flov	w-Based Constraint	s (contin.)
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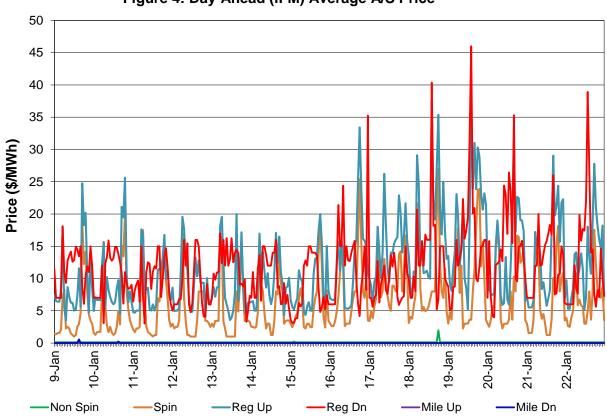


Figure 4: Day-Ahead (IFM) Average A/S Price



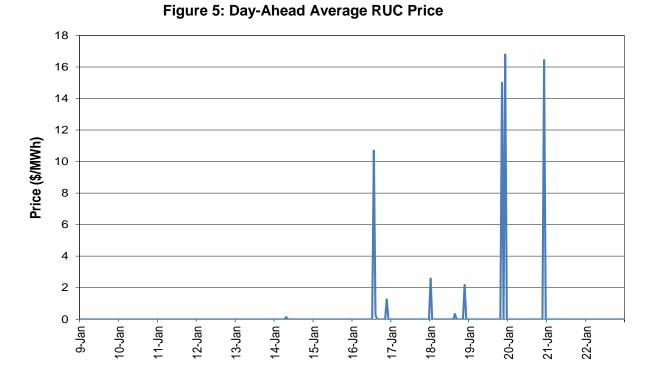
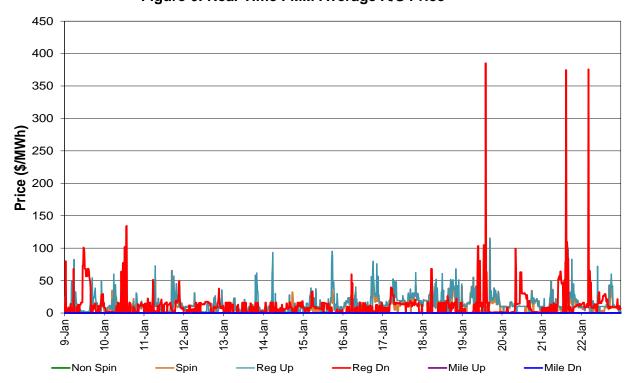


Figure 6: Real-Time FMM Average A/S Price



Market Quality and Renewable Integration/L.Hernandez



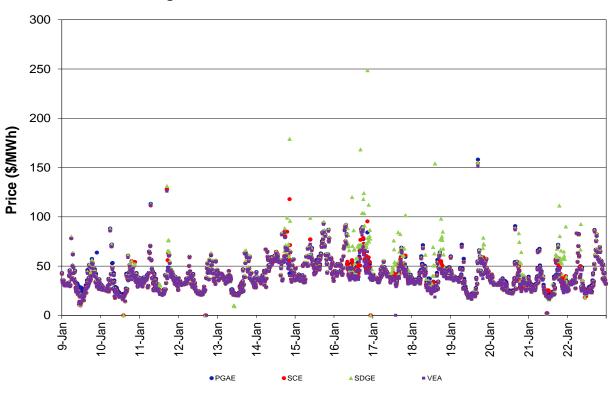
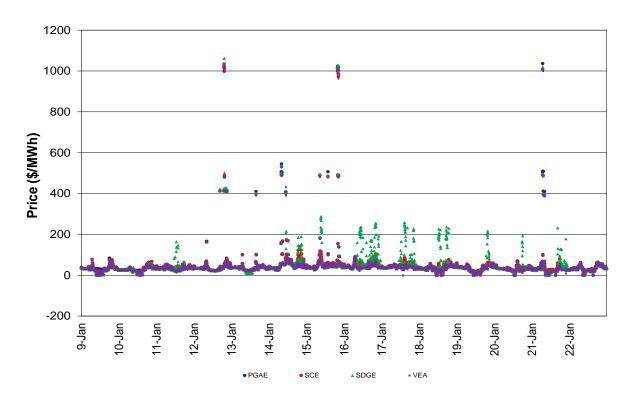


Figure 7: Real-Time FMM DLAP LMP







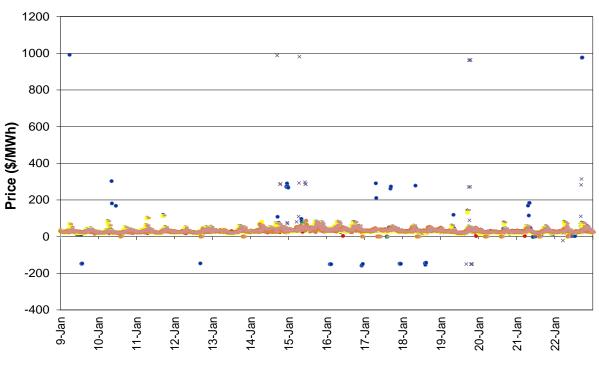


Figure 9: Real-Time FMM ELAP LMP

●AZPS ●BCHA ▲IPCO ×NEVP ■PACE ●PACW +BCHA -IPCO

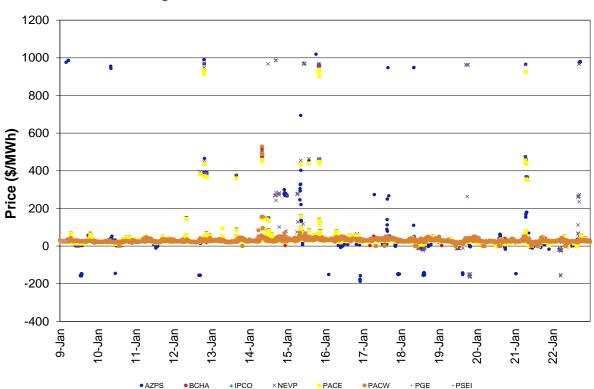


Figure 10: Real-Time RTD ELAP LMP