Market Highlights[1] (June 13–June 26)

- The average DLAP price in the integrated forward market was $30.82. The maximum and minimum DLAP prices were $101.18 and -$1.01, respectively. The maximum and minimum PNode prices in the integrated forward market were $1,098.85 and -$471.89 respectively.

- The top two interties congested in the integrated forward market were MALIN500 and NOB_ITC. Congestion rents in these two weeks totaled $22,593,661.87.

- The average day-ahead ancillary service prices were between $0.00 and $59.35.

- Approximately 96.27 percent of the RUC requirements were met from RA units.

- The average real-time FMM DLAP price was $25.65, with a maximum price of $352.62 and a minimum price of -$10.76. The maximum and minimum PNode prices in the FMM were $1,242.60 and -$164.35, 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, 35 intervals saw ELAP prices above $250 And 4 intervals saw ELAP prices below -$150.

- The average real-time FMM ELAP price was $22.23, with a maximum price of $1,102.68 and a minimum price of -$154.38.

- The average real-time RTD DLAP price was $24.23, with a maximum price of $753.62 and a minimum price of -$17.90. The maximum and minimum PNode prices in the RTD were $1,149.86 and -$182.43, respectively.

- Out of the total 4,032 RTD intervals, 6 intervals saw DLAP prices above $250 and 0 interval saw DLAP prices below -$150.

- Out of the total 4,032 RTD intervals, 104 intervals saw ELAP prices above $250 and 15 intervals saw ELAP prices below -$150. The average real-time RTD ELAP price was $22.36, with a maximum price of $1,040.52 and a minimum price of -$155.76.

- Root cause for daily high price events are noted in Tables 1 and Table 2.

Table 1 FMM Intervals	
Trade Date	Root Cause
FMM Jun 21 HE 21	Congestion on RM_TM12_NG and re-dispatch of resources.

Table 1 RTD Intervals	
Trade Date	Root Cause
RTD Jun 22 HE 23; Jun 23 HE 20, 21; Jun 25 HE 20	Congestion on RM_TM12_NG.
RTD Jun 25 HE 19	Congestion on RM_TM12_NG and load changes.

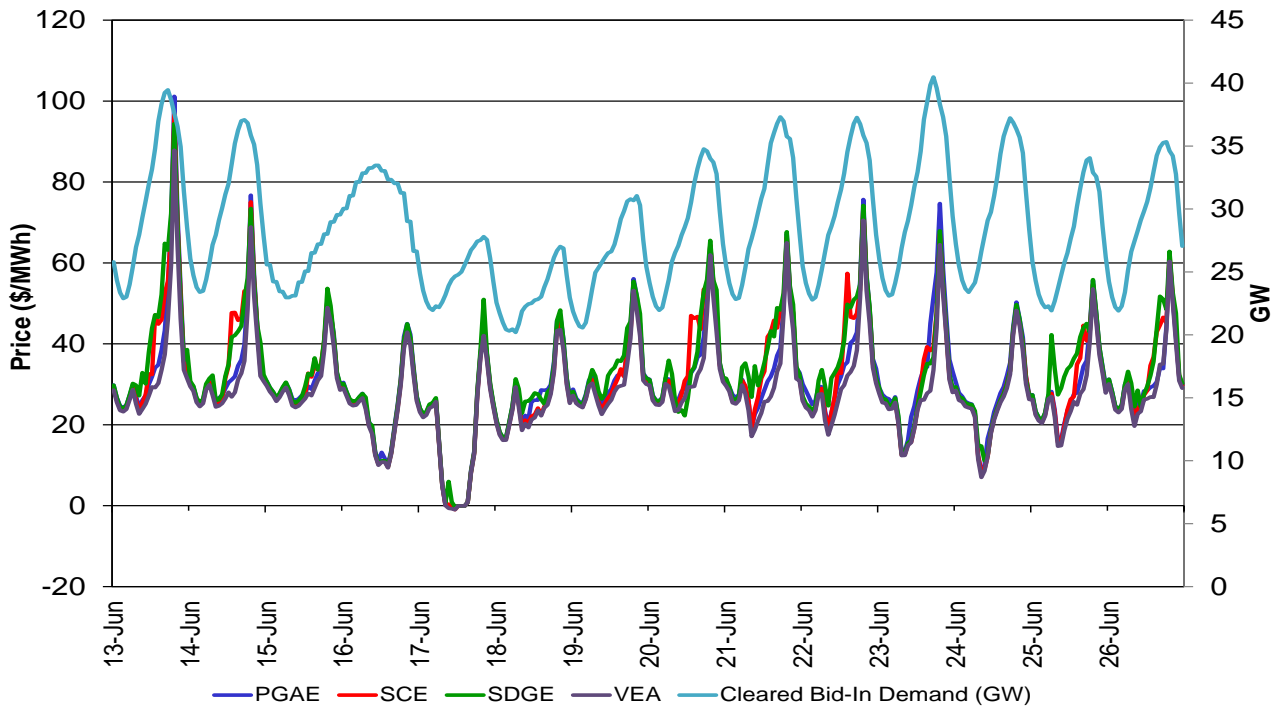**Figure 1: Day-Ahead (IFM) LAP LMP and Cleared Bid-In Demand**
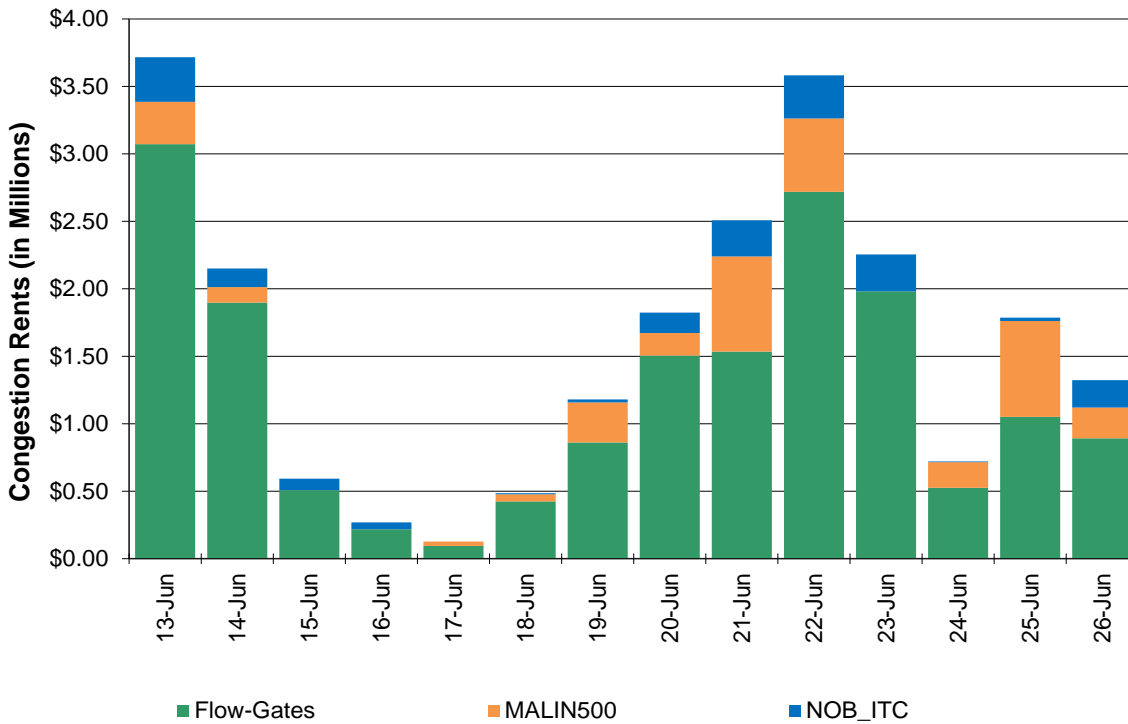
Figure 2: Day-Ahead Congestion Rents

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

Transmission Constraint	Congestion Rent
RM_TM12_NG	$ 3,356,207.32
24016_BARRE _230_24154_VILLA PK_230_BR_1 _1	$ 2,434,713.91
33020_MORAGA _115_32780_CLARMNT _115_BR_1 _1	$ 1,407,263.47
24016_BARRE _230_25201_LEWIS _230_BR_1 _1	$ 1,273,321.47
22192_DOUBLTTP_138_22300_FRIARS _138_BR_1 _1	$ 1,039,982.25
24036_EAGLROCK_230_24059_GOULD _230_BR_1 _1	$ 1,013,775.17
7820_TL23040_IV_SPS_NG	$ 808,285.42
25001_GOODRICH_230_24076_LAGUBELL_230_BR_1 _1	$ 737,447.36
7820_TL 230S_OVERLOAD_NG	$ 405,130.21
34548_KETTLEMN_70.0_34552_GATES _70.0_BR_1 _1	$ 316,319.20
22824_SWTWTRTP_69.0_22820_SWEETWTR_69.0_BR_1 _1	$ 297,176.88
30440_TULUCAY _230_30460_VACA-DIX_230_BR_1 _1	$ 268,980.40
24074_LA FRESA_230_24076_LAGUBELL_230_BR_1 _1	$ 248,925.46
35612_TRIMBLE _115_35616_SNJOSEB _115_BR_1 _1	$ 236,867.85
24091_MESA CAL_230_24126_RIOHONDO_230_BR_1 _1	$ 226,718.60
32056_CORTINA _60.0_30451_CRTNA M_ 1.0_XF_1	$ 224,874.52
24092_MIRALOMA_500_24093_MIRALOM _230_XF_4 _P	$ 222,678.55
34427_ATWELL _115_34701_SMYRNA 1_115_BR_1 _1	$ 204,800.14
30050_LOSBANOS_500_30055_GATES1 _500_BR_1 _1	$ 190,487.16
32765_ELCTOTP2_115_33010_SOBRANTE_115_BR_1 _1	$ 182,207.09

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

Transmission Constraint	Congestion Rent
33378_WTRSHTPA_60.0_33380_JEFFERSN_60.0_BR_1 _1	$ 181,805.52
30055_GATES1 _500_30900_GATES _230_XF_11_S	$ 137,186.09
32568_IGNACIO _115_32574_SAN RAFL_115_BR_1 _1	$ 126,438.61
33369_REDWDTP2_60.0_33374_BLHVNTP2_60.0_BR_1 _1	$ 125,359.40
31336_HPLND JT_60.0_31206_HPLND JT_115_XF_2	$ 125,125.50
34116_LE GRAND_115_34134_WILSONAB_115_BR_1 _1	$ 108,646.77
34860_TAFT _70.0_34943_Q356TAP _70.0_BR_1 _1	$ 108,300.92
OMS_5967229_TL23021_41_NG	$ 89,262.64
34112_EXCHEQUR_115_34116_LE GRAND_115_BR_1 _1	$ 87,474.03
OMS_5958404_TL23021_41_NG	$ 83,931.96
32214_RIO OSO _115_31986_W.SCRMNO_115_BR_1 _1	$ 82,907.63
OMS_5967192_TL23021_41_NG	$ 70,310.08
35101_SN LNDRO_115_35113_DMTAR_SL_115_BR_1 _1	$ 66,967.57
36851_NORTHERN_115_36852_SCOTT _115_BR_2 _1	$ 63,866.99
33380_JEFFERSN_60.0_33387_WOODSIDE_60.0_BR_1 _1	$ 60,020.72
33506_STANISLS_115_33503_FRGTNTP2_115_BR_1 _1	$ 53,880.20
34469_GFFNJCT _70.0_34470_GIFFEN _70.0_BR_1 _1	$ 50,029.13
33360_HILLSDLE_60.0_33361_HLLSDLJT_60.0_BR_1 _1	$ 43,260.59
22136_CLAIRMNT_69.0_22140_CLARMTTP_69.0_BR_1 _1	$ 40,767.80
30105_COTTNWD _230_30245_ROUND MT_230_BR_2 _1	$ 40,341.35
24036_EAGLROCK_230_24147_SYLMAR S_230_BR_1 _1	$ 39,771.36
33310_SANMATEO_115_33315_RAVENSWD_115_BR_1 _1	$ 37,668.81
25001_GOODRICH_230_24059_GOULD _230_BR_1 _1	$ 34,999.67
34859_PRMTFMTP_70.0_34873_Q484TP _70.0_BR_1 _1	$ 33,592.26
22480_MIRAMAR _69.0_22756_SCRIPPS _69.0_BR_1 _1	$ 31,394.41
33360_HILLSDLE_60.0_33358_BERESFRD_60.0_BR_1 _1	$ 27,328.61
31218_ER_FTNJT_115_31220_EGLE RCK_115_BR_1 _1	$ 22,669.46
32326_ENCL TAP_60.0_32332_PEASE _60.0_BR_1 _1	$ 21,801.64
35349_AMES DST_115_35122_NWARK EF_115_BR_1 _1	$ 20,330.04
HUMBOLDT_IMP_NG	$ 17,510.89
33008_GRIZLYJ2_115_33010_SOBRANTE_115_BR_2 _1	$ 13,320.11
32380_WEMR SWS_60.0_32382_FORST HL_60.0_BR_1 _1	$ 12,904.91
35618_SN JSE A_115_35616_SNJOSEB _115_BR_1 _1	$ 9,235.67
33020_MORAGA _115_32790_STATIN X_115_BR_1 _1	$ 8,643.67
30763_Q0577SS _230_30765_LOSBANOS_230_BR_1 _1	$ 6,678.19
32225_BRNSWKT1_115_32222_DTCH2TAP_115_BR_1 _1	$ 6,447.66
31110_BRDGVLLE_60.0_31112_FRUITLND_60.0_BR_1 _1	$ 5,925.05
31000_HUMBOLDT_115_31452_TRINITY _115_BR_1 _1	$ 5,812.75
24025_CHINO _230_24093_MIRALOM _230_BR_3 _1	$ 5,725.65
31566_KESWICK _60.0_31582_STLLWATR_60.0_BR_1 _1	$ 5,638.23
31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1 _1	$ 5,297.56
OMS 6026396 HUMBOLDT_IMP	$ 4,930.05
33385_MNLOJCT2_60.0_33388_S.L.A.C._60.0_BR_1 _1	$ 4,911.44

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

Transmission Constraint	Congestion Rent
22256_ESCNDIDO_69.0_22724_SANMRCOS_69.0_BR_1 _1	$ 4,911.24
OMS_6031106-7510-Pas-Par_NG	$ 4,573.66
34887_TAP SKRN_70.0_34882_SAN EMDO_70.0_BR_1 _1	$ 3,850.18
35618_SN JSE A_115_35620_EL PATIO_115_BR_1 _1	$ 3,431.32
34418_KINGSBRG_115_34405_FRWT TAP_115_BR_1 _1	$ 3,209.15
35122_NWARK EF_115_36851_NORTHERN_115_BR_2 _1	$ 2,392.66
33203_MISSON _115_33204_POTRERO _115_BR_1 _1	$ 2,291.04
34774_MIDWAY _115_34225_BELRDG J_115_BR_1 _1	$ 2,289.49
BLYTHE_BG	$ 1,625.52
32218_DRUM _115_32244_BRNSWKT2_115_BR_2 _1	$ 1,208.19
31640_TRES VIS_60.0_31718_TBLE MTN_60.0_BR_1 _1	$ 1,169.40
32208_GLEAF TP_115_32214_RIO OSO _115_BR_1 _1	$ 1,168.30
33315_RAVENSWD_115_33316_CLYLDG _115_BR_1 _1	$ 1,150.81
24420_NEENACH _66.0_24452_TAP 85 _66.0_BR_1 _1	$ 791.17
34321_MCSWAINJ_70.0_34232_EXCHEQUR_70.0_BR_1 _1	$ 642.84
33398_WTRSHTPB_60.0_33380_JEFFERSN_60.0_BR_1 _1	$ 570.95
22040_BARRETT _69.0_22416_LOVELAND_69.0_BR_1 _1	$ 475.63
34552_GATES _70.0_39003_Q633SS _70.0_BR_1 _1	$ 425.85
31593_COWCREEK_60.0_31597_DESCHTP1_60.0_BR_1 _1	$ 400.78
34242_BER VLLY_70.0_34244_BRCEBG J_70.0_BR_1 _1	$ 286.29
22208_EL CAJON_69.0_22408_LOSCOCHS_69.0_BR_1 _1	$ 232.41
31378_FULTON _60.0_31382_FTCHMTNP_60.0_BR_1 _1	$ 213.06
33045_FIBRJCT1_115_33049_RIVERVEW_115_BR_1 _1	$ 103.46
Totals	**$ 17,249,243.28**

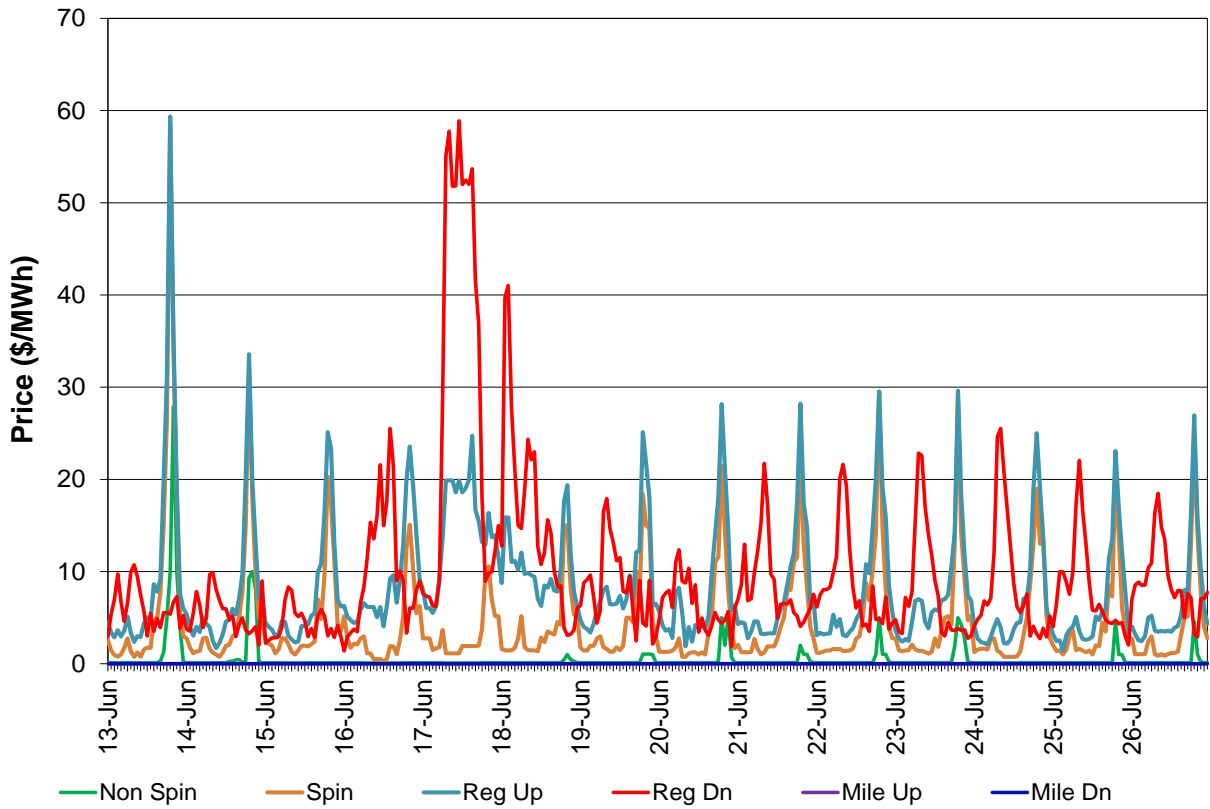**Figure 4: Day-Ahead (IFM) Average A/S Price**

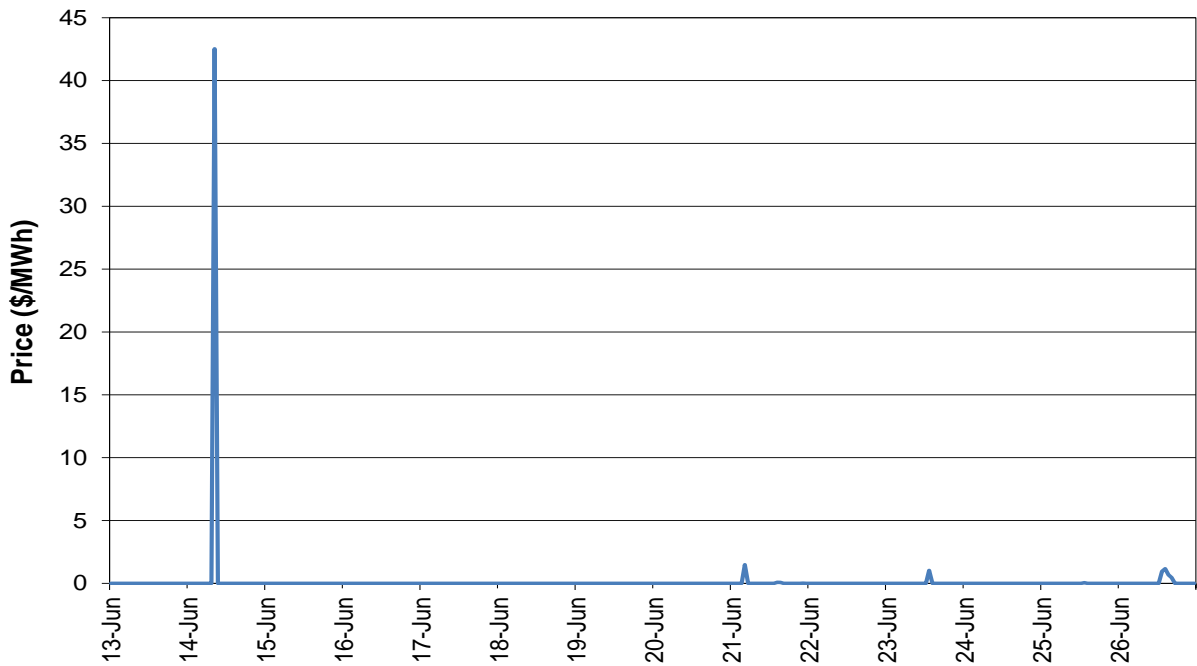

Figure 5: Day-Ahead Average RUC Price
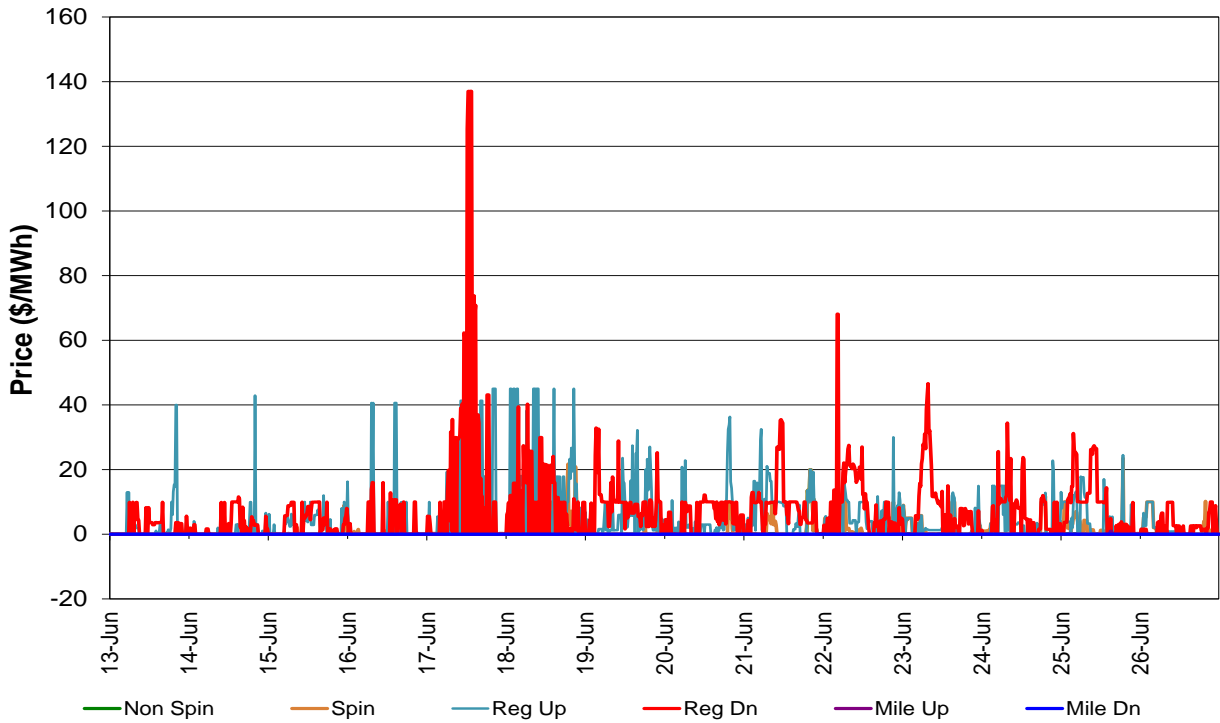
Figure 6: Real-Time FMM Average A/S Price

Figure 7: Real-Time FMM DLAP LMP

Figure 8: Real-Time RTD DLAP LMP
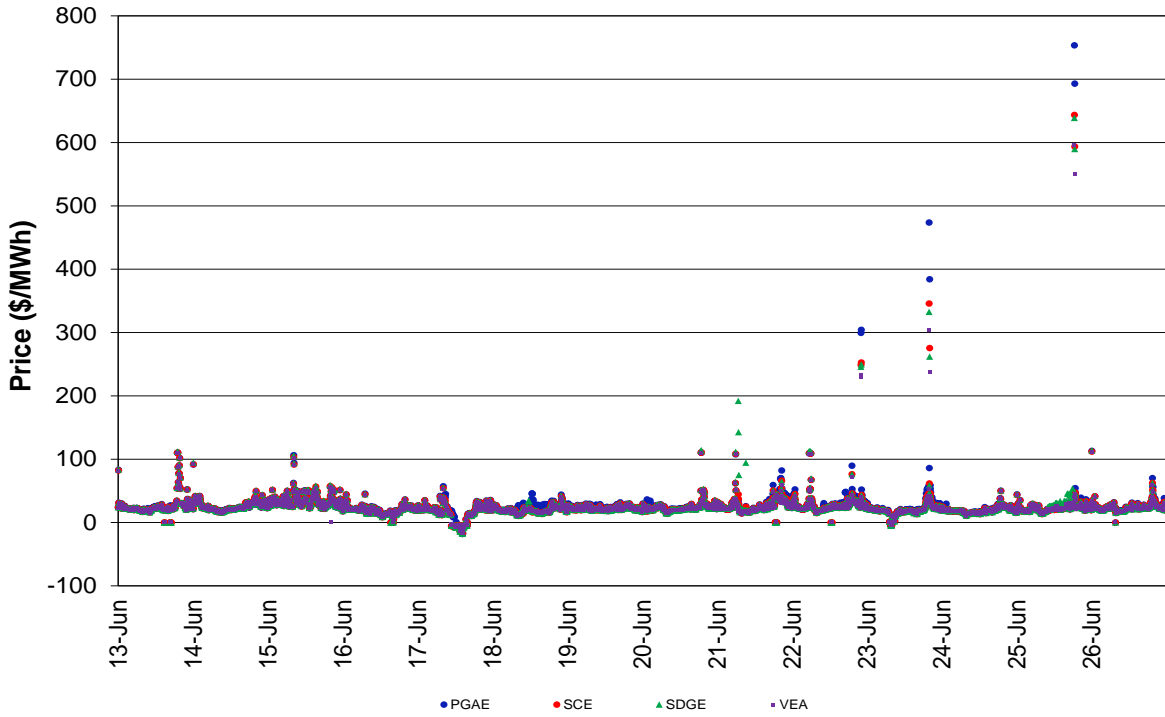

Legend: ● PGAE   ● SCE   ▲ SDGE   ▪ VEA

Figure 9: Real-Time FMM ELAP LMP
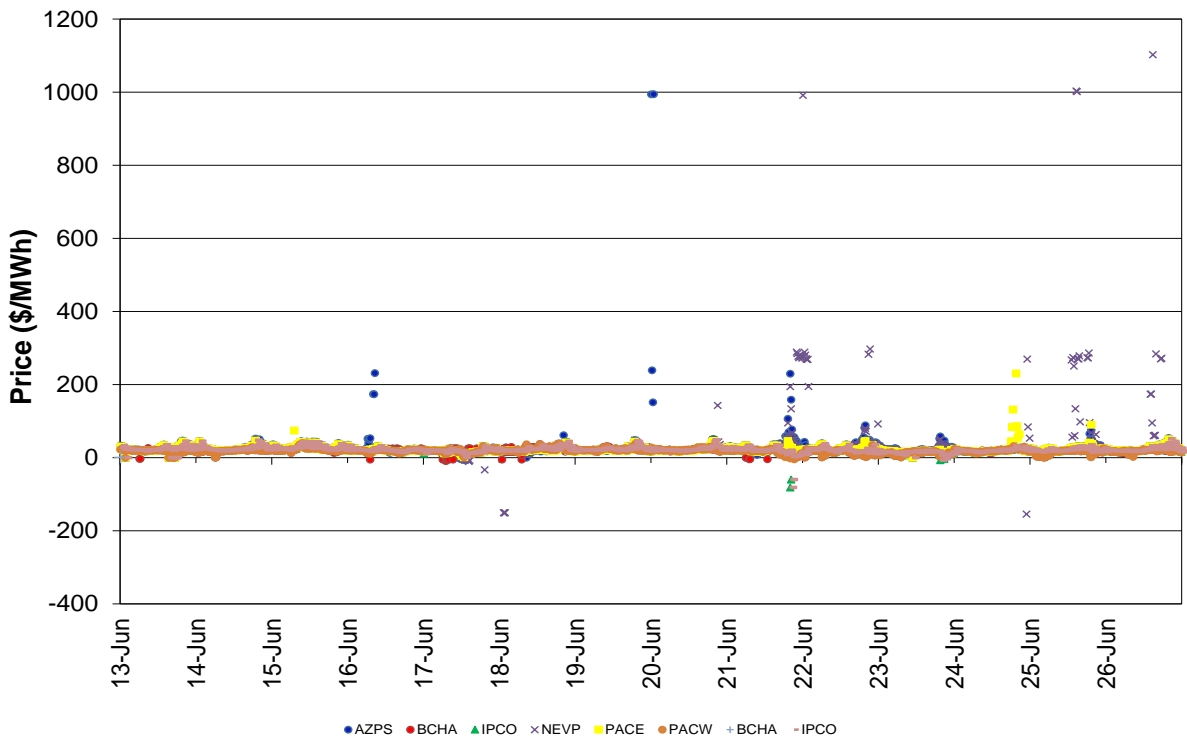

Legend: ● AZPS   ● BCHA   ▲ IPCO   ✕ NEVP   ▪ PACE   ● PACW   + BCHA   - IPCO

Figure 10: Real-Time RTD ELAP LMP