

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

07/05/2016

| Name   | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00  | 18:00  | 19:00  | 20:00 | 21:00   | 22:00  | 23:00  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|---------|--------|--------|
| PTID   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT    | EDT    | EDT    | EDT   | EDT     | EDT    | EDT    |
| CAPITL | 22.08 | 20.55 | 16.30 | 12.69 | 14.25 | 16.13 | 21.29 | 25.11 | 21.37 | 23.29 | 27.24 | 31.10 | 47.93 | 33.36 | 38.64 | 54.83 | 80.57 | 80.12  | 595.53 | 76.23  | 44.15 | 42.54   | 29.34  | 24.59  |
| 61757  | 1.53  | 1.42  | 1.15  | 0.88  | 0.98  | 1.13  | 1.38  | 1.58  | 1.35  | 1.39  | 1.62  | 1.86  | 2.79  | 1.92  | 2.23  | 3.22  | 4.83  | 4.94   | 39.34  | 4.75   | 2.63  | 2.68    | 1.83   | 1.53   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| CENTRL | 20.95 | 19.42 | 15.39 | 12.03 | 13.49 | 15.30 | 20.30 | 24.08 | 20.48 | 22.36 | 26.19 | 29.97 | 46.23 | 32.21 | 37.33 | 52.79 | 77.49 | 76.70  | 563.89 | 72.36  | 42.05 | 40.43   | 28.00  | 23.47  |
| 61754  | 0.41  | 0.28  | 0.25  | 0.22  | 0.22  | 0.31  | 0.38  | 0.55  | 0.45  | 0.46  | 0.57  | 0.73  | 1.09  | 0.77  | 0.91  | 1.18  | 1.75  | 1.52   | 7.71   | 0.87   | 0.52  | 0.56    | 0.49   | 0.41   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| DUNWOD | 22.24 | 20.66 | 16.34 | 12.75 | 14.32 | 16.25 | 21.58 | 25.41 | 21.57 | 23.55 | 27.78 | 31.56 | 48.87 | 34.10 | 39.59 | 56.29 | 82.48 | 81.52  | 603.56 | 77.32  | 44.93 | 43.42   | 30.06  | 25.36  |
| 61760  | 1.70  | 1.52  | 1.19  | 0.94  | 1.05  | 1.25  | 1.67  | 1.87  | 1.55  | 1.65  | 2.16  | 2.32  | 3.74  | 2.66  | 3.18  | 4.68  | 6.74  | 6.34   | 47.37  | 5.83   | 3.41  | 3.56    | 2.56   | 2.30   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| GENESE | 20.94 | 19.33 | 15.31 | 11.96 | 13.40 | 15.17 | 20.10 | 23.92 | 20.42 | 22.27 | 25.93 | 29.80 | 45.90 | 32.03 | 37.14 | 52.53 | 77.20 | 76.76  | 563.03 | 72.26  | 41.88 | 40.26   | 28.05  | 23.47  |
| 61753  | 0.40  | 0.19  | 0.16  | 0.15  | 0.13  | 0.17  | 0.18  | 0.39  | 0.40  | 0.37  | 0.31  | 0.56  | 0.76  | 0.59  | 0.72  | 0.92  | 1.46  | 1.58   | 6.85   | 0.77   | 0.36  | 0.39    | 0.54   | 0.41   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| H Q    | 19.85 | 18.53 | 14.64 | 11.40 | 12.78 | 14.45 | 19.26 | 22.77 | 19.35 | 21.23 | 24.78 | 28.27 | 43.66 | 30.40 | 35.20 | 49.86 | 73.17 | 72.78  | 539.40 | 69.57  | 40.44 | 39.75   | 26.61  | 22.26  |
| 61844  | -0.70 | -0.61 | -0.50 | -0.41 | -0.44 | -0.55 | -0.66 | -0.77 | -0.67 | -0.67 | -0.84 | -0.97 | -1.48 | -1.04 | -1.21 | -1.75 | -2.57 | -2.40  | -16.78 | -1.91  | -1.09 | -1.21   | -0.90  | -0.80  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.05  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | -1.10 | 0.00    | 0.00   | 0.00   |
| HUD VL | 22.23 | 20.63 | 16.32 | 12.74 | 14.30 | 16.22 | 21.55 | 25.42 | 21.61 | 23.58 | 27.79 | 31.63 | 48.97 | 34.19 | 39.68 | 56.44 | 82.79 | 81.97  | 606.74 | 77.71  | 45.11 | 43.53   | 30.05  | 25.29  |
| 61758  | 1.68  | 1.50  | 1.17  | 0.93  | 1.03  | 1.23  | 1.63  | 1.88  | 1.58  | 1.68  | 2.17  | 2.38  | 3.83  | 2.75  | 3.27  | 4.83  | 7.05  | 6.79   | 50.56  | 6.22   | 3.59  | 3.66    | 2.54   | 2.23   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| LONGIL | 22.59 | 21.04 | 16.64 | 12.90 | 14.51 | 16.49 | 21.98 | 25.74 | 21.79 | 23.89 | 34.87 | 41.84 | 52.62 | 37.98 | 40.87 | 58.07 | 91.05 | 137.05 | 705.02 | 98.84  | 48.51 | 409.94  | 46.61  | 38.32  |
| 61762  | 1.93  | 1.90  | 1.49  | 1.09  | 1.24  | 1.50  | 2.07  | 2.20  | 1.77  | 1.99  | 2.97  | 3.27  | 4.93  | 3.63  | 4.23  | 6.11  | 8.74  | 8.04   | 59.23  | 7.53   | 4.37  | 4.60    | 3.38   | 2.97   |
|        | -0.11 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -6.29 | -9.33 | -2.55 | -2.91 | -0.24 | -0.35 | -6.57 | -53.83 | -89.60 | -19.82 | -2.61 | -365.47 | -15.73 | -12.29 |
| MHK VL | 21.15 | 19.67 | 15.56 | 12.15 | 13.65 | 15.47 | 20.64 | 24.62 | 20.96 | 22.90 | 26.82 | 30.68 | 47.35 | 32.96 | 38.13 | 53.92 | 79.15 | 78.48  | 579.54 | 74.47  | 43.27 | 41.61   | 28.68  | 23.94  |
| 61756  | 0.61  | 0.53  | 0.42  | 0.34  | 0.38  | 0.48  | 0.72  | 1.08  | 0.94  | 1.00  | 1.20  | 1.44  | 2.20  | 1.52  | 1.71  | 2.31  | 3.41  | 3.30   | 23.36  | 2.99   | 1.75  | 1.74    | 1.17   | 0.88   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| MILLWD | 22.27 | 20.68 | 16.35 | 12.76 | 14.33 | 16.25 | 21.59 | 25.44 | 21.61 | 23.61 | 27.85 | 31.67 | 49.03 | 34.21 | 39.73 | 56.52 | 82.87 | 82.01  | 607.22 | 77.77  | 45.16 | 43.61   | 30.13  | 25.38  |
| 61759  | 1.72  | 1.54  | 1.20  | 0.95  | 1.05  | 1.25  | 1.67  | 1.91  | 1.59  | 1.71  | 2.23  | 2.42  | 3.88  | 2.76  | 3.32  | 4.91  | 7.13  | 6.83   | 51.03  | 6.29   | 3.63  | 3.74    | 2.62   | 2.31   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| N.Y.C. | 22.36 | 20.79 | 16.43 | 12.83 | 14.40 | 16.34 | 21.71 | 25.55 | 21.69 | 23.67 | 27.93 | 31.67 | 48.96 | 34.23 | 39.74 | 56.49 | 82.64 | 81.15  | 604.63 | 80.61  | 45.77 | 60.95   | 36.92  | 29.46  |
| 61761  | 1.82  | 1.65  | 1.29  | 1.02  | 1.13  | 1.34  | 1.80  | 2.01  | 1.67  | 1.77  | 2.31  | 2.43  | 3.93  | 2.78  | 3.33  | 4.88  | 6.90  | 6.49   | 48.43  | 6.03   | 3.57  | 3.77    | 2.71   | 2.47   |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.11  | 0.00  | 0.00  | 0.00  | 0.00  | 0.52   | -0.01  | -3.09  | -0.68 | -17.31  | -6.71  | -3.93  |
| NORTH  | 19.75 | 18.39 | 14.50 | 11.27 | 12.69 | 14.27 | 19.18 | 22.79 | 19.35 | 21.36 | 24.86 | 28.38 | 43.79 | 30.46 | 35.24 | 49.83 | 73.12 | 72.76  | 540.69 | 69.87  | 40.54 | 38.57   | 26.39  | 21.97  |
| 61755  | -0.80 | -0.75 | -0.64 | -0.55 | -0.58 | -0.72 | -0.74 | -0.75 | -0.68 | -0.54 | -0.76 | -0.86 | -1.35 | -0.99 | -1.18 | -1.78 | -2.63 | -2.42  | -15.49 | -1.62  | -0.98 | -1.29   | -1.12  | -1.09  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00    | 0.00   | 0.00   |
| NPX    | 21.92 | 20.43 | 16.21 | 12.83 | 14.11 | 16.24 | 21.22 | 24.71 | 21.28 | 23.16 | 27.19 | 30.96 | 46.85 | 33.21 | 38.47 | 54.64 | 80.21 | 79.60  | 583.58 | 66.40  | 40.62 | 43.82   | 29.47  | 24.67  |
| 61845  | 1.38  | 1.29  | 1.06  | 0.82  | 0.89  | 1.04  | 1.30  | 1.43  | 1.22  | 1.26  | 1.57  | 1.72  | 2.55  | 1.76  | 2.06  | 3.03  | 4.46  | 4.50   | 35.58  | 4.10   | 2.28  | 2.46    | 1.77   | 1.61   |
|        | 0.00  | 0.00  | 0.00  | -0.20 | 0.05  | -0.21 | 0.00  | 0.25  | -0.05 | 0.00  | 0.00  | 0.00  | 0.84  | 0.00  | 0.00  | 0.00  | 0.00  | 0.07   | 8.19   | 9.18   | 3.18  | -1.50   | -0.19  | 0.00   |

|               |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                           |                            |                        |                        |                        |                        |
|---------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|----------------------------|------------------------|------------------------|------------------------|------------------------|
| O H<br>61846  | 20.58<br>0.04<br>0.00 | 18.94<br>-0.20<br>0.00 | 15.04<br>-0.11<br>0.00 | 11.78<br>-0.03<br>0.00 | 13.17<br>-0.10<br>0.00 | 14.88<br>-0.12<br>0.00 | 19.57<br>-0.35<br>0.00 | 23.22<br>-0.31<br>0.00 | 19.67<br>-0.35<br>0.00 | 21.27<br>-0.63<br>0.00 | 24.63<br>-0.99<br>0.00 | 28.29<br>-0.95<br>0.00 | 43.37<br>-1.77<br>0.00 | 30.19<br>-1.25<br>0.00 | 34.98<br>-1.43<br>0.00 | 49.35<br>-2.26<br>0.00 | 72.54<br>-3.20<br>0.00 | 71.80<br>-3.39<br>0.00 | 524.64<br>-31.55<br>0.00  | 67.47<br>-4.02<br>0.00     | 39.23<br>-2.29<br>0.00 | 37.82<br>-2.04<br>0.00 | 26.60<br>-0.90<br>0.00 | 22.45<br>-0.62<br>0.00 |
| PJM<br>61847  | 16.98<br>0.60<br>4.17 | 19.43<br>0.35<br>0.07  | 15.48<br>0.33<br>0.00  | 12.13<br>0.32<br>0.00  | 13.54<br>0.31<br>0.05  | 15.42<br>0.42<br>0.00  | 20.31<br>0.42<br>0.04  | 24.14<br>0.60<br>0.00  | 20.37<br>0.35<br>0.00  | 9.17<br>0.18<br>12.91  | 18.30<br>0.21<br>7.52  | 9.45<br>0.27<br>20.06  | 37.67<br>0.30<br>7.77  | 25.90<br>0.21<br>5.75  | 36.13<br>0.32<br>0.60  | 41.57<br>0.32<br>10.36 | 76.25<br>0.51<br>0.00  | 65.71<br>0.14<br>9.61  | 449.36<br>-4.21<br>102.62 | -168.46<br>-0.74<br>239.21 | 31.27<br>-0.41<br>9.83 | 30.75<br>-0.20<br>8.92 | 27.72<br>0.21<br>0.00  | 23.38<br>0.31<br>0.00  |
| WEST<br>61752 | 20.98<br>0.44<br>0.00 | 19.29<br>0.15<br>0.00  | 15.30<br>0.16<br>0.00  | 11.98<br>0.16<br>0.00  | 13.38<br>0.11<br>0.00  | 15.13<br>0.13<br>0.00  | 19.90<br>-0.02<br>0.00 | 23.65<br>0.11<br>0.00  | 20.09<br>0.06<br>0.00  | 21.73<br>-0.17<br>0.00 | 25.15<br>-0.46<br>0.00 | 28.92<br>-0.32<br>0.00 | 44.38<br>-0.76<br>0.00 | 30.91<br>-0.53<br>0.00 | 35.80<br>-0.61<br>0.00 | 50.52<br>-1.09<br>0.00 | 74.27<br>-1.47<br>0.00 | 73.49<br>-1.69<br>0.00 | 536.29<br>-19.89<br>0.00  | 68.90<br>-2.59<br>0.00     | 40.03<br>-1.50<br>0.00 | 38.60<br>-1.27<br>0.00 | 27.19<br>-0.33<br>0.00 | 22.92<br>-0.14<br>0.00 |