

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

02/09/2018

| 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   | EST   | EST    | EST    | EST    | EST    | EST   | EST    | EST    | EST    | EST    | EST    | EST   | EST   | EST    | EST    | EST    | EST    | EST    | EST    | EST    | EST    | EST    | EST    | EST    |
| CAPITL | 26.75 | 25.68  | 26.06  | 26.38  | 27.61  | 47.62 | 46.71  | 49.63  | 33.41  | 36.62  | 81.44  | 30.71 | 34.22 | 35.07  | 34.15  | 45.02  | 26.42  | 28.61  | 24.00  | 29.11  | 54.30  | 23.78  | 24.86  | 22.58  |
| 61757  | 2.31  | 2.22   | 2.25   | 2.22   | 2.37   | 4.13  | 3.95   | 3.97   | 2.72   | 2.97   | 6.66   | 2.51  | 2.81  | 2.85   | 2.79   | 3.64   | 2.14   | 2.13   | 1.90   | 2.37   | 4.33   | 1.89   | 1.96   | 1.74   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | -0.88  | -0.26  | 0.00   | -0.15 | 0.00  | -0.53  | 0.00   | 0.00   | 0.00   | -2.61  | -0.49  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| CENTRL | 24.63 | 23.70  | 24.04  | 24.42  | 25.60  | 44.09 | 43.30  | 46.04  | 30.06  | 33.67  | 75.61  | 28.44 | 31.81 | 32.10  | 31.67  | 41.71  | 24.52  | 24.35  | 21.83  | 26.89  | 50.40  | 21.98  | 22.99  | 20.95  |
| 61754  | 0.19  | 0.24   | 0.23   | 0.25   | 0.36   | 0.60  | 0.54   | 0.38   | 0.17   | 0.27   | 0.84   | 0.36  | 0.41  | 0.34   | 0.30   | 0.33   | 0.23   | 0.16   | 0.16   | 0.14   | 0.43   | 0.09   | 0.09   | 0.11   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | -0.07  | 0.00   | 0.00   | -0.02 | 0.00  | -0.07  | 0.00   | 0.00   | 0.00   | -0.32  | -0.06  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| DUNWOD | 27.04 | 26.02  | 26.33  | 26.74  | 27.94  | 48.05 | 47.35  | 50.76  | 41.57  | 43.29  | 82.94  | 31.20 | 34.89 | 35.68  | 34.92  | 46.00  | 26.94  | 30.49  | 24.33  | 29.68  | 55.32  | 24.29  | 25.45  | 23.08  |
| 61760  | 2.60  | 2.56   | 2.52   | 2.57   | 2.70   | 4.56  | 4.59   | 5.10   | 3.37   | 3.76   | 8.16   | 3.03  | 3.48  | 3.59   | 3.56   | 4.62   | 2.65   | 2.57   | 2.35   | 2.94   | 5.34   | 2.39   | 2.56   | 2.19   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | -8.39  | -6.14  | 0.00   | -0.11 | 0.00  | -0.40  | 0.00   | 0.00   | 0.00   | -4.05  | -0.37  | 0.00   | 0.00   | 0.00   | 0.00   | -0.04  |
| GENESE | 24.13 | 23.24  | 23.55  | 23.90  | 25.12  | 43.42 | 42.50  | 44.86  | 29.23  | 32.73  | 73.75  | 27.72 | 30.94 | 31.15  | 30.74  | 40.56  | 23.97  | 23.70  | 21.28  | 26.19  | 49.24  | 21.48  | 22.52  | 20.57  |
| 61753  | -0.31 | -0.22  | -0.26  | -0.27  | -0.13  | -0.07 | -0.26  | -0.79  | -0.63  | -0.67  | -1.03  | -0.34 | -0.46 | -0.59  | -0.62  | -0.81  | -0.32  | -0.41  | -0.38  | -0.55  | -0.74  | -0.42  | -0.37  | -0.27  |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | -0.05  | 0.00   | 0.00   | -0.01 | 0.00  | -0.05  | 0.00   | 0.00   | 0.00   | -0.24  | -0.05  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| H Q    | 23.62 | 22.61  | 23.01  | 23.34  | 24.34  | 42.03 | 41.41  | 44.31  | 28.90  | 32.39  | 72.55  | 27.19 | 30.40 | 30.68  | 30.37  | 40.12  | 23.51  | 23.17  | 20.95  | 25.96  | 48.53  | 21.27  | 22.24  | 20.23  |
| 61844  | -0.82 | -0.85  | -0.80  | -0.83  | -0.90  | -1.46 | -1.36  | -1.35  | -0.92  | -1.00  | -2.23  | -0.86 | -1.00 | -1.01  | -0.99  | -1.26  | -0.77  | -0.70  | -0.66  | -0.78  | -1.45  | -0.62  | -0.66  | -0.61  |
|        | 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   |
| HUD VL | 26.93 | 25.91  | 26.23  | 26.63  | 27.83  | 47.93 | 47.23  | 50.58  | 32.60  | 36.34  | 82.64  | 31.08 | 34.75 | 35.52  | 34.77  | 45.78  | 26.81  | 27.97  | 24.25  | 29.57  | 55.15  | 24.19  | 25.32  | 22.85  |
| 61758  | 2.49  | 2.45   | 2.42   | 2.45   | 2.59   | 4.44  | 4.46   | 4.93   | 3.24   | 3.62   | 7.87   | 2.91  | 3.34  | 3.43   | 3.41   | 4.41   | 2.54   | 2.47   | 2.28   | 2.83   | 5.18   | 2.29   | 2.43   | 2.08   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.45   | 0.67   | 0.00   | -0.11 | 0.00  | -0.40  | 0.00   | 0.00   | 0.01   | -1.63  | -0.37  | 0.00   | 0.00   | 0.00   | 0.00   | 0.06   |
| LONGIL | 27.98 | 26.95  | 27.22  | 27.60  | 28.92  | 49.96 | 73.20  | 83.51  | 51.96  | 61.87  | 116.57 | 38.35 | 36.65 | 41.64  | 43.09  | 68.76  | 48.01  | 58.99  | 57.08  | 33.41  | 98.64  | 46.70  | 32.67  | 37.71  |
| 61762  | 3.54  | 3.49   | 3.40   | 3.43   | 3.67   | 6.47  | 6.68   | 7.30   | 4.75   | 5.17   | 11.19  | 4.24  | 4.79  | 4.92   | 4.89   | 6.41   | 3.67   | 3.55   | 3.24   | 4.10   | 7.58   | 3.38   | 3.65   | 3.16   |
|        | 0.00  | -0.01  | -0.01  | 0.00   | 0.00   | 0.00  | -23.76 | -30.55 | -17.39 | -23.31 | -30.60 | -6.06 | -0.45 | -5.03  | -6.83  | -20.97 | -20.06 | -31.56 | -32.24 | -2.58  | -41.08 | -21.42 | -6.12  | -13.70 |
| MHK VL | 25.18 | 24.19  | 24.53  | 24.92  | 26.08  | 45.07 | 44.48  | 47.60  | 31.12  | 34.82  | 77.98  | 29.24 | 32.70 | 33.03  | 32.59  | 42.96  | 25.17  | 25.10  | 22.49  | 27.74  | 51.88  | 22.65  | 23.65  | 21.48  |
| 61756  | 0.74  | 0.73   | 0.72   | 0.75   | 0.83   | 1.58  | 1.72   | 1.94   | 1.24   | 1.43   | 3.21   | 1.17  | 1.30  | 1.27   | 1.23   | 1.58   | 0.89   | 0.89   | 0.82   | 1.00   | 1.91   | 0.76   | 0.75   | 0.64   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | -0.07  | 0.00   | 0.00   | -0.02 | 0.00  | -0.07  | 0.00   | 0.00   | 0.00   | -0.33  | -0.06  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| MILLWD | 27.07 | 26.05  | 26.36  | 26.79  | 27.99  | 48.17 | 47.50  | 50.92  | 33.42  | 37.00  | 83.15  | 31.27 | 34.96 | 35.75  | 34.98  | 46.10  | 27.00  | 28.31  | 24.41  | 29.76  | 55.49  | 24.34  | 25.50  | 22.99  |
| 61759  | 2.63  | 2.59   | 2.55   | 2.62   | 2.75   | 4.69  | 4.74   | 5.26   | 3.46   | 3.84   | 8.38   | 3.10  | 3.55  | 3.65   | 3.62   | 4.72   | 2.72   | 2.64   | 2.43   | 3.02   | 5.51   | 2.45   | 2.60   | 2.22   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | -0.14  | 0.22   | 0.00   | -0.11 | 0.00  | -0.40  | 0.00   | 0.00   | 0.01   | -1.79  | -0.37  | 0.00   | 0.00   | 0.00   | 0.00   | 0.07   |
| N.Y.C. | 27.30 | 26.29  | 26.59  | 27.00  | 28.20  | 48.44 | 47.78  | 62.06  | 56.01  | 55.93  | 85.25  | 34.46 | 37.96 | 53.47  | 49.01  | 47.12  | 40.73  | 33.89  | 33.70  | 41.06  | 65.02  | 28.81  | 26.54  | 24.31  |
| 61761  | 2.86  | 2.83   | 2.78   | 2.83   | 2.95   | 4.95  | 5.02   | 5.66   | 3.73   | 4.17   | 8.94   | 3.34  | 3.83  | 3.96   | 3.93   | 5.10   | 2.93   | 2.81   | 2.58   | 3.22   | 5.82   | 2.64   | 2.85   | 2.43   |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | -10.74 | -22.46 | -18.37 | -1.53  | -3.06 | -2.72 | -17.82 | -13.71 | -0.65  | -13.52 | -7.20  | -9.51  | -11.10 | -9.23  | -4.28  | -0.79  | -1.05  |
| NORTH  | 23.40 | 22.37  | 22.80  | 23.15  | 24.09  | 41.83 | 41.50  | 44.63  | 29.11  | 32.73  | 73.33  | 27.42 | 30.64 | 30.92  | 30.63  | 40.54  | 23.63  | 23.67  | 21.24  | 26.29  | 49.11  | 21.47  | 22.46  | 20.37  |
| 61755  | -1.04 | -1.09  | -1.01  | -1.02  | -1.15  | -1.66 | -1.26  | -1.03  | -0.70  | -0.66  | -1.44  | -0.63 | -0.77 | -0.78  | -0.73  | -0.84  | -0.65  | -0.20  | -0.37  | -0.46  | -0.86  | -0.42  | -0.43  | -0.47  |
|        | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| NPX    | 36.95 | 37.96  | 39.87  | 45.28  | 40.83  | 52.99 | 46.33  | 53.78  | 45.12  | 51.15  | 85.91  | 38.07 | 40.40 | 40.13  | 39.39  | 46.52  | 34.67  | 38.77  | 37.89  | 40.90  | 64.23  | 36.99  | 36.36  | 30.86  |
| 61845  | 2.60  | 2.54   | 2.55   | 2.57   | 2.71   | 4.55  | 4.23   | 4.55   | 3.10   | 3.45   | 7.69   | 2.88  | 3.29  | 3.37   | 3.32   | 4.31   | 2.50   | 2.43   | 2.18   | 2.76   | 5.05   | 2.25   | 2.38   | 2.10   |
|        | -9.90 | -11.96 | -13.51 | -18.53 | -12.88 | -4.96 | 0.66   | -3.57  | -12.21 | -14.31 | -3.45  | -7.13 | -5.71 | -5.06  | -4.71  | -0.83  | -7.88  | -12.46 | -14.09 | -11.40 | -9.20  | -12.85 | -11.09 | -7.92  |

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| O H<br>61846  | 23.43 | 22.64 | 22.95 | 30.12 | 24.50 | 42.32 | 40.99 | 42.88 | 27.83 | 31.23 | 70.62 | 26.56 | 29.68 | 29.82 | 29.42 | 38.85 | 22.95 | 22.65 | 20.25 | 24.99 | 47.27 | 20.63 | 21.76 | 19.91 |
|               | -1.01 | -0.82 | -0.86 | -0.92 | -0.75 | -1.17 | -1.77 | -2.78 | -2.05 | -2.17 | -4.16 | -1.52 | -1.73 | -1.94 | -1.95 | -2.53 | -1.33 | -1.55 | -1.42 | -1.76 | -2.70 | -1.26 | -1.13 | -0.93 |
|               | 0.00  | 0.00  | 0.00  | -6.87 | 0.00  | 0.00  | 0.00  | 0.00  | -0.07 | 0.00  | 0.00  | -0.02 | 0.00  | -0.07 | 0.00  | 0.00  | 0.00  | -0.32 | -0.06 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| PJM<br>61847  | 25.17 | 24.27 | 24.60 | 25.00 | 26.20 | 45.10 | 44.13 | 52.04 | 21.21 | 32.79 | 76.78 | 28.87 | 32.33 | 32.81 | 32.24 | 42.45 | 24.87 | 22.50 | 22.25 | 27.33 | 51.31 | 22.41 | 23.52 | 21.36 |
|               | 0.73  | 0.81  | 0.78  | 0.83  | 0.96  | 1.62  | 1.37  | 1.19  | 0.63  | 0.82  | 2.01  | 0.76  | 0.93  | 0.89  | 0.88  | 1.07  | 0.58  | 0.44  | 0.43  | 0.59  | 1.33  | 0.52  | 0.62  | 0.52  |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -5.19 | 9.24  | 1.43  | 0.01  | -0.06 | 0.00  | -0.23 | 0.00  | 0.00  | 0.00  | 1.81  | -0.21 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| WEST<br>61752 | 23.99 | 23.19 | 23.50 | 23.85 | 25.16 | 43.53 | 42.13 | 44.00 | 28.61 | 32.15 | 72.78 | 27.36 | 30.56 | 30.70 | 30.29 | 39.86 | 23.60 | 23.26 | 20.80 | 25.63 | 48.43 | 21.11 | 22.26 | 20.36 |
|               | -0.45 | -0.27 | -0.31 | -0.32 | -0.08 | 0.04  | -0.64 | -1.66 | -1.27 | -1.24 | -2.00 | -0.71 | -0.84 | -1.05 | -1.07 | -1.51 | -0.68 | -0.92 | -0.86 | -1.11 | -1.54 | -0.78 | -0.63 | -0.47 |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.07 | 0.00  | 0.00  | -0.02 | 0.00  | -0.06 | 0.00  | 0.00  | 0.00  | -0.30 | -0.06 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |