

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

11/17/2018

| 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 | 32.65  | 45.53  | 42.88  | 46.41  | 38.68  | 38.26  | 44.08  | 26.34  | 32.44  | 33.19  | 36.23  | 37.16  | 36.80  | 33.60  | 32.86  | 36.27  | 33.23  | 36.61  | 39.32  | 30.16  | 35.49 | 55.48  | 34.96 | 33.19 |
| 61757  | 1.94   | 0.72   | 0.11   | -0.23  | 0.25   | 0.29   | -0.20  | 1.55   | 2.59   | 2.70   | 2.92   | 3.02   | 3.05   | 2.72   | 2.60   | 2.76   | 2.69   | 2.97   | 3.17   | 2.43   | 2.86  | 4.36   | 2.59  | 2.43  |
|        | -2.81  | -35.12 | -41.29 | -49.79 | -34.96 | -34.08 | -46.80 | -6.15  | 0.00   | 0.00   | -0.73  | -0.39  | 0.00   | -1.14  | -1.57  | -2.98  | -0.94  | -1.02  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| CENTRL | 28.56  | 14.23  | 6.72   | 3.10   | 7.91   | 8.23   | 3.34   | 19.70  | 30.32  | 31.04  | 33.25  | 34.39  | 34.36  | 30.37  | 29.34  | 31.44  | 30.28  | 33.50  | 36.97  | 28.35  | 33.33 | 52.16  | 32.93 | 31.22 |
| 61754  | 0.30   | 0.09   | 0.01   | -0.03  | 0.03   | 0.05   | -0.04  | 0.28   | 0.47   | 0.54   | 0.57   | 0.59   | 0.61   | 0.49   | 0.45   | 0.54   | 0.56   | 0.74   | 0.82   | 0.61   | 0.70  | 1.04   | 0.56  | 0.46  |
|        | -0.36  | -4.45  | -5.22  | -6.27  | -4.41  | -4.29  | -5.90  | -0.78  | 0.00   | 0.00   | -0.09  | -0.05  | 0.00   | -0.14  | -0.20  | -0.38  | -0.12  | -0.13  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| DUNWOD | 32.26  | 36.41  | 32.18  | 33.50  | 29.62  | 29.43  | 31.95  | 25.00  | 32.66  | 33.40  | 36.34  | 37.33  | 37.05  | 33.47  | 32.66  | 35.73  | 33.13  | 36.38  | 39.33  | 30.23  | 35.65 | 55.67  | 35.12 | 33.46 |
| 61760  | 2.28   | 0.70   | 0.11   | -0.22  | 0.25   | 0.30   | -0.19  | 1.81   | 2.81   | 2.91   | 3.22   | 3.30   | 3.30   | 2.90   | 2.80   | 3.00   | 2.84   | 3.00   | 3.18   | 2.49   | 3.02  | 4.55   | 2.75  | 2.70  |
|        | -2.08  | -26.01 | -30.58 | -36.88 | -25.90 | -25.24 | -34.66 | -4.55  | 0.00   | 0.00   | -0.54  | -0.29  | 0.00   | -0.84  | -1.16  | -2.21  | -0.70  | -0.76  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| GENESE | 27.50  | 12.79  | 5.37   | 1.65   | 6.70   | 7.04   | 1.96   | 19.00  | 29.55  | 30.17  | 32.29  | 33.45  | 33.51  | 29.48  | 28.42  | 30.49  | 29.52  | 32.87  | 36.32  | 27.79  | 32.57 | 50.94  | 31.98 | 30.19 |
| 61753  | -0.67  | -0.23  | -0.03  | 0.08   | -0.09  | -0.09  | 0.03   | -0.22  | -0.30  | -0.32  | -0.36  | -0.33  | -0.24  | -0.37  | -0.42  | -0.32  | -0.16  | 0.15   | 0.17   | 0.06   | -0.06 | -0.18  | -0.39 | -0.58 |
|        | -0.27  | -3.34  | -3.92  | -4.73  | -3.32  | -3.24  | -4.45  | -0.59  | 0.00   | 0.00   | -0.07  | -0.04  | 0.00   | -0.11  | -0.15  | -0.28  | -0.09  | -0.10  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| H Q    | 27.16  | 9.44   | 1.45   | -3.08  | 3.38   | 3.78   | -2.43  | 18.05  | 28.94  | 29.51  | 31.53  | 32.66  | 32.66  | 28.78  | 27.76  | 29.51  | 28.59  | 31.52  | 35.03  | 26.85  | 31.60 | 49.55  | 31.39 | 29.85 |
| 61844  | -0.74  | -0.25  | -0.04  | 0.08   | -0.09  | -0.11  | 0.08   | -0.59  | -0.91  | -0.98  | -1.05  | -1.08  | -1.09  | -0.96  | -0.94  | -1.01  | -1.00  | -1.11  | -1.12  | -0.88  | -1.03 | -1.57  | -0.98 | -0.91 |
|        | 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 | 32.14  | 36.39  | 32.18  | 33.52  | 29.62  | 29.43  | 31.97  | 24.89  | 32.50  | 33.25  | 36.18  | 37.16  | 36.86  | 33.30  | 32.47  | 35.56  | 33.00  | 36.26  | 39.19  | 30.10  | 35.50 | 55.43  | 34.97 | 33.27 |
| 61758  | 2.16   | 0.68   | 0.11   | -0.22  | 0.24   | 0.29   | -0.19  | 1.70   | 2.66   | 2.76   | 3.06   | 3.13   | 3.10   | 2.72   | 2.61   | 2.82   | 2.71   | 2.88   | 3.04   | 2.36   | 2.87  | 4.31   | 2.60  | 2.51  |
|        | -2.08  | -26.02 | -30.58 | -36.88 | -25.91 | -25.25 | -34.68 | -4.55  | 0.00   | 0.00   | -0.54  | -0.29  | 0.00   | -0.84  | -1.16  | -2.21  | -0.70  | -0.76  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| LONGIL | 61.75  | 52.67  | 55.16  | 62.11  | 29.73  | 29.53  | 39.38  | 38.17  | 57.73  | 62.50  | 59.03  | 64.87  | 57.37  | 62.55  | 90.02  | 55.68  | 83.29  | 50.74  | 61.23  | 43.70  | 46.16 | 67.94  | 36.20 | 34.41 |
| 61762  | 3.20   | 1.03   | 0.16   | -0.33  | 0.36   | 0.40   | -0.28  | 2.47   | 3.87   | 3.96   | 4.13   | 4.21   | 4.21   | 3.70   | 3.57   | 3.86   | 3.78   | 4.00   | 4.28   | 3.37   | 4.04  | 6.06   | 3.81  | 3.64  |
|        | -30.65 | -41.95 | -53.51 | -65.59 | -25.90 | -25.24 | -42.18 | -17.06 | -24.02 | -28.05 | -22.31 | -26.92 | -19.40 | -29.11 | -57.76 | -21.30 | -49.92 | -14.11 | -20.80 | -12.59 | -9.49 | -10.77 | -0.01 | 0.00  |
| MHK VL | 29.05  | 14.44  | 6.77   | 3.10   | 8.01   | 8.37   | 3.41   | 19.96  | 30.80  | 31.55  | 33.82  | 35.01  | 35.00  | 30.92  | 29.88  | 31.92  | 30.75  | 33.97  | 37.50  | 28.73  | 33.79 | 52.88  | 33.42 | 31.69 |
| 61756  | 0.79   | 0.25   | 0.04   | -0.08  | 0.09   | 0.11   | -0.07  | 0.55   | 0.95   | 1.06   | 1.14   | 1.22   | 1.25   | 1.04   | 1.00   | 1.04   | 1.05   | 1.22   | 1.34   | 0.99   | 1.16  | 1.76   | 1.05  | 0.93  |
|        | -0.36  | -4.49  | -5.25  | -6.33  | -4.45  | -4.37  | -6.00  | -0.78  | 0.00   | 0.00   | -0.09  | -0.05  | 0.00   | -0.14  | -0.19  | -0.36  | -0.11  | -0.12  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| MILLWD | 32.25  | 36.73  | 32.55  | 33.95  | 29.94  | 29.73  | 32.37  | 25.02  | 32.63  | 33.36  | 36.29  | 37.28  | 36.98  | 33.42  | 32.60  | 35.70  | 33.09  | 36.38  | 39.33  | 30.20  | 35.61 | 55.60  | 35.08 | 33.39 |
| 61759  | 2.24   | 0.70   | 0.11   | -0.22  | 0.25   | 0.30   | -0.20  | 1.77   | 2.78   | 2.87   | 3.16   | 3.24   | 3.23   | 2.83   | 2.73   | 2.94   | 2.79   | 2.99   | 3.17   | 2.46   | 2.98  | 4.48   | 2.70  | 2.62  |
|        | -2.11  | -26.33 | -30.95 | -37.33 | -26.21 | -25.55 | -35.08 | -4.61  | 0.00   | 0.00   | -0.55  | -0.29  | 0.00   | -0.85  | -1.18  | -2.24  | -0.71  | -0.76  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| N.Y.C. | 32.46  | 36.45  | 32.19  | 33.48  | 29.65  | 29.45  | 31.93  | 25.17  | 32.92  | 33.66  | 36.64  | 37.62  | 37.38  | 33.77  | 32.94  | 36.01  | 33.38  | 36.62  | 39.60  | 30.45  | 35.90 | 56.09  | 35.37 | 33.72 |
| 61761  | 2.48   | 0.75   | 0.12   | -0.24  | 0.28   | 0.32   | -0.21  | 1.98   | 3.07   | 3.17   | 3.51   | 3.59   | 3.63   | 3.19   | 3.08   | 3.28   | 3.08   | 3.24   | 3.44   | 2.72   | 3.26  | 4.97   | 3.00  | 2.95  |
|        | -2.08  | -26.01 | -30.58 | -36.88 | -25.90 | -25.24 | -34.65 | -4.55  | 0.00   | 0.00   | -0.54  | -0.29  | 0.00   | -0.84  | -1.16  | -2.21  | -0.70  | -0.76  | 0.00   | 0.00   | 0.00  | 0.00   | 0.00  | 0.00  |
| NORTH  | 26.77  | 9.31   | 1.42   | -3.05  | 3.34   | 3.74   | -2.41  | 17.84  | 28.60  | 29.17  | 31.18  | 32.32  | 32.38  | 28.57  | 27.53  | 29.29  | 28.36  | 31.15  | 34.72  | 26.65  | 31.43 | 49.29  | 31.24 | 29.78 |
| 61755  | -1.13  | -0.37  | -0.06  | 0.10   | -0.13  | -0.15  | 0.11   | -0.79  | -1.25  | -1.32  | -1.40  | -1.43  | -1.37  | -1.17  | -1.16  | -1.23  | -1.23  | -1.48  | -1.44  | -1.08  | -1.20 | -1.83  | -1.13 | -0.98 |
|        | 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    | 79.07  | 56.65  | 38.37  | 40.91  | 34.90  | 34.57  | 38.92  | 26.23  | 36.20  | 41.88  | 41.01  | 44.46  | 52.36  | 65.25  | 70.06  | 73.49  | 56.44  | 64.39  | 53.24  | 34.48  | 35.84 | 57.60  | 35.41 | 36.44 |
| 61845  | 2.49   | 0.85   | 0.13   | -0.27  | 0.29   | 0.34   | -0.23  | 1.85   | 3.00   | 3.09   | 3.36   | 3.50   | 3.54   | 3.11   | 3.02   | 3.20   | 3.00   | 3.21   | 3.43   | 2.67   | 3.21  | 4.93   | 2.98  | 2.89  |
|        | -48.69 | -46.10 | -36.76 | -44.33 | -31.13 | -30.34 | -41.66 | -5.74  | -3.35  | -8.29  | -5.07  | -7.22  | -15.07 | -32.40 | -38.34 | -39.76 | -23.85 | -28.56 | -13.65 | -4.07  | -0.01 | -1.55  | -0.06 | -2.78 |

|               |       |        |        |        |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| O H<br>61846  | 26.85 | 13.50  | 6.48   | 3.11   | 7.57   | 7.88   | 3.31   | 18.69 | 28.73 | 29.33 | 31.38 | 32.51 | 32.61 | 28.62 | 27.59 | 29.71 | 28.61 | 31.86 | 35.26 | 26.98 | 31.72 | 49.75 | 31.10 | 29.40 |
|               | -1.40 | -0.50  | -0.07  | 0.15   | -0.18  | -0.19  | 0.08   | -0.70 | -1.12 | -1.16 | -1.30 | -1.29 | -1.15 | -1.25 | -1.29 | -1.18 | -1.09 | -0.89 | -0.89 | -0.76 | -0.92 | -1.37 | -1.28 | -1.37 |
|               | -0.34 | -4.31  | -5.06  | -6.11  | -4.29  | -4.18  | -5.74  | -0.75 | 0.00  | 0.00  | -0.09 | -0.05 | 0.00  | -0.14 | -0.19 | -0.37 | -0.12 | -0.12 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| PJM<br>61847  | 29.91 | 24.99  | 19.25  | 18.15  | 18.56  | 18.63  | 17.49  | 22.02 | 30.99 | 31.75 | 34.25 | 35.30 | 35.17 | 31.36 | 30.42 | 33.05 | 31.10 | 34.28 | 37.47 | 28.74 | 33.94 | 53.14 | 33.40 | 31.75 |
|               | 0.81  | 0.22   | 0.04   | -0.07  | 0.08   | 0.11   | -0.08  | 0.74  | 1.14  | 1.26  | 1.36  | 1.39  | 1.42  | 1.14  | 1.06  | 1.25  | 1.10  | 1.21  | 1.31  | 1.00  | 1.31  | 2.02  | 1.02  | 0.98  |
|               | -1.21 | -15.08 | -17.73 | -21.38 | -15.01 | -14.63 | -20.09 | -2.64 | 0.00  | 0.00  | -0.31 | -0.17 | 0.00  | -0.49 | -0.67 | -1.28 | -0.41 | -0.44 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| WEST<br>61752 | 27.30 | 13.65  | 6.49   | 3.05   | 7.62   | 7.94   | 3.25   | 19.05 | 29.33 | 29.99 | 32.13 | 33.28 | 33.38 | 29.29 | 28.25 | 30.46 | 29.38 | 32.79 | 36.31 | 27.76 | 32.64 | 51.16 | 31.92 | 30.11 |
|               | -0.94 | -0.34  | -0.05  | 0.10   | -0.13  | -0.12  | 0.03   | -0.34 | -0.51 | -0.50 | -0.54 | -0.52 | -0.37 | -0.59 | -0.63 | -0.43 | -0.32 | 0.04  | 0.16  | 0.03  | 0.01  | 0.04  | -0.45 | -0.65 |
|               | -0.34 | -4.30  | -5.06  | -6.10  | -4.28  | -4.17  | -5.73  | -0.75 | 0.00  | 0.00  | -0.09 | -0.05 | 0.00  | -0.14 | -0.19 | -0.36 | -0.12 | -0.12 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |