

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

08/20/2018

| 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   | 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 | 19.26 | 17.51 | 20.30 | 21.79 | 19.98 | 18.38 | 22.11 | 24.02 | 25.79 | 24.06 | 23.70 | 21.81 | 23.51 | 25.22 | 30.86 | 35.76 | 32.89 | 31.96 | 29.80 | 68.34 | 28.04 | 23.93 | 20.83 | 18.91 |
| 61757  | 1.17  | 1.10  | 1.32  | 1.42  | 1.28  | 1.15  | 1.37  | 1.55  | 1.66  | 1.54  | 1.45  | 1.27  | 1.41  | 1.44  | 1.73  | 2.14  | 2.03  | 2.02  | 1.92  | 4.54  | 1.83  | 1.55  | 1.37  | 1.30  |
|        | 0.00  | 0.00  | 0.00  | -0.07 | 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 | 18.52 | 16.73 | 19.32 | 20.60 | 18.94 | 17.50 | 21.18 | 23.03 | 24.69 | 23.02 | 22.81 | 21.07 | 22.69 | 25.30 | 35.10 | 38.74 | 38.07 | 31.94 | 28.72 | 65.70 | 26.92 | 23.04 | 19.95 | 19.52 |
| 61754  | 0.43  | 0.32  | 0.34  | 0.29  | 0.25  | 0.27  | 0.44  | 0.56  | 0.56  | 0.48  | 0.55  | 0.53  | 0.59  | 0.74  | 1.07  | 1.21  | 1.06  | 1.00  | 0.85  | 1.90  | 0.72  | 0.67  | 0.48  | 0.44  |
|        | 0.00  | 0.00  | 0.00  | -0.01 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.79 | -4.90 | -3.91 | -6.15 | -1.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -1.48 |
| DUNWOD | 19.69 | 17.75 | 20.50 | 21.94 | 20.12 | 18.56 | 22.57 | 24.55 | 26.41 | 24.63 | 24.29 | 22.39 | 24.09 | 25.90 | 31.68 | 36.59 | 33.60 | 32.47 | 30.21 | 68.97 | 28.49 | 24.35 | 21.21 | 19.28 |
| 61760  | 1.60  | 1.34  | 1.52  | 1.59  | 1.42  | 1.33  | 1.83  | 2.08  | 2.28  | 2.10  | 2.03  | 1.85  | 1.99  | 2.12  | 2.55  | 2.97  | 2.74  | 2.53  | 2.33  | 5.18  | 2.29  | 1.97  | 1.75  | 1.67  |
|        | 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  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| GENESE | 18.38 | 16.53 | 18.94 | 20.12 | 18.49 | 17.13 | 20.82 | 22.62 | 24.17 | 22.45 | 22.30 | 20.63 | 22.29 | 24.20 | 29.96 | 34.58 | 31.66 | 30.74 | 28.44 | 64.87 | 26.51 | 22.78 | 19.69 | 17.83 |
| 61753  | 0.28  | 0.12  | -0.05 | -0.18 | -0.20 | -0.10 | 0.08  | 0.15  | 0.04  | -0.08 | 0.04  | 0.09  | 0.19  | 0.42  | 0.83  | 0.96  | 0.80  | 0.80  | 0.56  | 1.08  | 0.30  | 0.40  | 0.22  | 0.22  |
|        | 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    | 17.49 | 15.92 | 18.37 | 19.68 | 17.94 | 16.72 | 20.10 | 21.75 | 23.37 | 21.85 | 21.58 | 19.94 | 21.43 | 23.05 | 28.19 | 32.51 | 29.85 | 29.01 | 27.02 | 61.80 | 25.38 | 21.64 | 18.82 | 13.43 |
| 61844  | -0.60 | -0.49 | -0.61 | -0.62 | -0.54 | -0.51 | -0.63 | -0.72 | -0.76 | -0.68 | -0.68 | -0.61 | -0.67 | -0.73 | -0.94 | -1.11 | -1.02 | -0.94 | -0.86 | -2.00 | -0.83 | -0.74 | -0.64 | -0.66 |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.22  | 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  | 3.51  |
| HUD VL | 19.62 | 17.70 | 20.47 | 21.90 | 20.09 | 18.55 | 22.53 | 24.51 | 26.37 | 24.60 | 24.28 | 22.38 | 24.10 | 25.91 | 31.74 | 36.64 | 33.65 | 32.53 | 30.26 | 69.19 | 28.55 | 24.39 | 21.21 | 19.25 |
| 61758  | 1.53  | 1.29  | 1.49  | 1.55  | 1.40  | 1.32  | 1.80  | 2.04  | 2.23  | 2.08  | 2.02  | 1.84  | 1.99  | 2.14  | 2.61  | 3.02  | 2.79  | 2.59  | 2.39  | 5.40  | 2.35  | 2.01  | 1.75  | 1.65  |
|        | 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  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| LONGIL | 20.36 | 18.29 | 21.09 | 22.55 | 20.71 | 19.18 | 23.40 | 25.37 | 27.22 | 25.30 | 24.99 | 22.89 | 24.61 | 26.49 | 32.46 | 37.55 | 34.41 | 33.31 | 31.06 | 70.57 | 29.23 | 24.93 | 21.91 | 19.79 |
| 61762  | 2.27  | 1.88  | 2.11  | 2.20  | 2.01  | 1.95  | 2.66  | 2.90  | 3.08  | 2.77  | 2.73  | 2.34  | 2.51  | 2.72  | 3.33  | 3.93  | 3.55  | 3.37  | 3.18  | 6.77  | 3.03  | 2.56  | 2.45  | 2.19  |
|        | 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  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| MHK VL | 18.73 | 16.98 | 19.61 | 20.96 | 19.30 | 17.83 | 21.55 | 23.45 | 25.23 | 23.56 | 23.36 | 21.59 | 23.23 | 24.98 | 30.63 | 35.28 | 32.39 | 31.45 | 29.29 | 67.03 | 27.54 | 23.48 | 20.33 | 21.91 |
| 61756  | 0.64  | 0.57  | 0.63  | 0.65  | 0.61  | 0.60  | 0.81  | 0.98  | 1.10  | 1.03  | 1.10  | 1.05  | 1.12  | 1.20  | 1.50  | 1.66  | 1.53  | 1.51  | 1.41  | 3.24  | 1.34  | 1.10  | 0.87  | 0.72  |
|        | 0.00  | 0.00  | 0.00  | -0.01 | 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  | -3.58 |
| MILLWD | 19.67 | 17.73 | 20.49 | 21.92 | 20.10 | 18.54 | 22.53 | 24.53 | 26.39 | 24.62 | 24.29 | 22.40 | 24.10 | 25.91 | 31.71 | 36.62 | 33.62 | 32.50 | 30.24 | 69.08 | 28.52 | 24.36 | 21.21 | 19.27 |
| 61759  | 1.58  | 1.32  | 1.51  | 1.57  | 1.40  | 1.31  | 1.80  | 2.06  | 2.25  | 2.09  | 2.03  | 1.85  | 1.99  | 2.13  | 2.58  | 3.00  | 2.76  | 2.56  | 2.36  | 5.29  | 2.32  | 1.98  | 1.75  | 1.66  |
|        | 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  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| N.Y.C. | 19.98 | 17.98 | 20.75 | 22.19 | 20.35 | 18.78 | 22.89 | 24.90 | 26.78 | 25.31 | 24.64 | 25.22 | 26.52 | 27.76 | 32.13 | 37.07 | 34.03 | 32.87 | 30.56 | 69.68 | 28.85 | 24.67 | 21.48 | 19.53 |
| 61761  | 1.88  | 1.57  | 1.77  | 1.85  | 1.66  | 1.54  | 2.15  | 2.43  | 2.65  | 2.46  | 2.38  | 2.16  | 2.33  | 2.48  | 3.00  | 3.45  | 3.17  | 2.93  | 2.68  | 5.89  | 2.65  | 2.29  | 2.02  | 1.92  |
|        | 0.00  | 0.00  | 0.00  | -0.05 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.33 | 0.00  | -2.51 | -2.09 | -1.50 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| NORTH  | 17.52 | 16.03 | 18.35 | 19.69 | 18.22 | 16.75 | 20.18 | 21.83 | 23.49 | 22.01 | 21.74 | 20.13 | 21.62 | 23.23 | 28.35 | 32.67 | 30.01 | 29.22 | 27.26 | 62.29 | 25.53 | 21.74 | 18.86 | 6.28  |
| 61755  | -0.57 | -0.38 | -0.63 | -0.61 | -0.47 | -0.48 | -0.56 | -0.63 | -0.64 | -0.52 | -0.52 | -0.42 | -0.49 | -0.55 | -0.78 | -0.96 | -0.85 | -0.72 | -0.62 | -1.50 | -0.67 | -0.64 | -0.61 | -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  | 10.44 |
| NPX    | 19.49 | 17.55 | 20.33 | 21.82 | 20.21 | 18.39 | 22.22 | 24.11 | 25.74 | 24.12 | 23.76 | 21.86 | 23.52 | 25.07 | 30.82 | 35.95 | 32.84 | 31.80 | 29.61 | 67.82 | 28.25 | 23.82 | 20.58 | 19.28 |
| 61845  | 1.27  | 1.14  | 1.34  | 1.46  | 1.31  | 1.16  | 1.48  | 1.64  | 1.73  | 1.58  | 1.50  | 1.32  | 1.42  | 1.43  | 1.69  | 2.12  | 1.98  | 1.85  | 1.74  | 4.03  | 1.66  | 1.45  | 1.37  | 1.38  |
|        | -0.12 | 0.00  | 0.00  | -0.06 | -0.20 | 0.00  | 0.00  | 0.00  | 0.13  | -0.02 | 0.00  | 0.00  | 0.00  | 0.00  | 0.13  | 0.00  | -0.21 | 0.00  | 0.00  | 0.00  | -0.39 | 0.00  | 0.26  | -0.29 |

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| OH<br>61846   | 18.10 | 16.30 | 18.61 | 19.74 | 18.08 | 16.72 | 20.36 | 22.21 | 23.57 | 21.77 | 21.64 | 20.00 | 21.60 | 20.73 | 11.45  | 19.66  | 8.61   | 26.13  | 27.57 | 62.98 | 25.64 | 22.18 | 19.22 | 17.53 |
|               | 0.01  | -0.15 | -0.36 | -0.57 | -0.62 | -0.51 | -0.38 | -0.25 | -0.57 | -0.76 | -0.61 | -0.55 | -0.50 | -0.27 | 0.08   | 0.04   | -0.14  | -0.11  | -0.31 | -0.82 | -0.56 | -0.20 | -0.25 | -0.08 |
|               | 0.00  | -0.04 | 0.00  | -0.01 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.78  | 17.76  | 14.00  | 22.11  | 3.70   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| PJM<br>61847  | 18.96 | 17.09 | 19.73 | 21.03 | 19.05 | 17.79 | 21.64 | 23.56 | 25.22 | 23.48 | 23.23 | 21.64 | 23.26 | 26.03 | 36.64  | 40.20  | 39.98  | 32.60  | 29.13 | 66.59 | 27.32 | 23.45 | 20.35 | 18.51 |
|               | 0.87  | 0.68  | 0.75  | 0.70  | 0.57  | 0.55  | 0.90  | 1.09  | 1.09  | 0.93  | 0.97  | 0.88  | 0.98  | 1.15  | 1.59   | 1.82   | 1.60   | 1.45   | 1.25  | 2.79  | 1.12  | 1.07  | 0.89  | 0.91  |
|               | 0.00  | 0.00  | 0.00  | -0.03 | 0.22  | 0.00  | 0.00  | 0.00  | 0.00  | -0.02 | 0.00  | -0.21 | -0.18 | -1.10 | -5.92  | -4.76  | -7.52  | -1.21  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| WEST<br>61752 | 18.49 | 16.59 | 18.96 | 20.07 | 18.39 | 17.03 | 20.76 | 22.71 | 24.11 | 22.28 | 22.20 | 20.55 | 22.21 | 33.93 | 92.06  | 82.97  | 108.01 | 43.23  | 28.34 | 64.76 | 26.37 | 22.79 | 19.69 | 17.96 |
|               | 0.40  | 0.18  | -0.02 | -0.24 | -0.31 | -0.20 | 0.02  | 0.24  | -0.02 | -0.25 | -0.06 | 0.01  | 0.11  | 0.42  | 0.99   | 1.08   | 0.81   | 0.77   | 0.47  | 0.96  | 0.16  | 0.41  | 0.23  | 0.35  |
|               | 0.00  | 0.00  | 0.00  | -0.01 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -9.73 | -61.94 | -48.26 | -76.34 | -12.52 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |