

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

10/17/2019

| 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 | 18.53 | 16.96 | 14.93 | 14.51 | 12.25 | 17.20 | 19.23 | 19.88  | 18.53  | 18.13  | 20.76 | 20.58 | 18.52 | 19.58  | 21.22  | 20.73 | 20.98 | 23.40  | 32.46  | 30.00  | 23.92 | 21.47 | 19.55 | 15.31 |
| 61757  | 0.77  | 0.70  | 0.64  | 0.63  | 0.55  | 0.82  | 0.95  | 0.98   | 0.89   | 0.87   | 0.93  | 0.90  | 0.84  | 0.89   | 0.98   | 0.98  | 1.03  | 1.21   | 1.77   | 1.51   | 1.22  | 0.94  | 0.69  | 0.64  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | -0.02 | -0.38 | 0.00  | -0.77  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00  | -0.33  | 0.00   | 0.00   | 0.00  | -2.15 | -5.71 | 0.00  |
| CENTRL | 17.77 | 16.27 | 14.29 | 13.88 | 11.67 | 16.03 | 18.38 | 18.28  | 17.70  | 17.33  | 19.95 | 19.81 | 17.76 | 18.77  | 20.35  | 19.82 | 20.01 | 21.99  | 30.76  | 28.71  | 22.77 | 18.71 | 13.89 | 14.71 |
| 61754  | 0.00  | 0.01  | 0.01  | 0.01  | -0.01 | -0.01 | 0.10  | 0.06   | 0.06   | 0.06   | 0.11  | 0.13  | 0.09  | 0.09   | 0.10   | 0.06  | 0.06  | 0.09   | 0.07   | 0.21   | 0.07  | 0.05  | 0.01  | 0.04  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.05 | 0.00  | -0.10  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00  | -0.04  | 0.00   | 0.00   | 0.00  | -0.27 | -0.73 | 0.00  |
| DUNWOD | 18.73 | 17.11 | 15.06 | 14.63 | 12.33 | 17.23 | 19.51 | 20.08  | 19.04  | 18.68  | 21.49 | 21.31 | 19.13 | 20.26  | 21.95  | 21.41 | 21.62 | 23.85  | 33.12  | 30.73  | 24.56 | 21.49 | 18.38 | 15.68 |
| 61760  | 0.96  | 0.86  | 0.77  | 0.74  | 0.64  | 0.95  | 1.23  | 1.39   | 1.40   | 1.42   | 1.65  | 1.63  | 1.46  | 1.58   | 1.70   | 1.66  | 1.66  | 1.76   | 2.43   | 2.23   | 1.85  | 1.53  | 1.02  | 1.01  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -0.28 | 0.00  | -0.57  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00  | -0.24  | 0.00   | 0.00   | 0.00  | -1.58 | -4.21 | 0.00  |
| GENESE | 17.16 | 15.73 | 13.82 | 13.42 | 11.31 | 15.59 | 17.93 | 17.70  | 17.15  | 16.78  | 19.36 | 19.25 | 17.27 | 18.23  | 19.75  | 19.24 | 19.06 | 21.27  | 29.82  | 25.93  | 22.07 | 17.78 | 13.26 | 14.27 |
| 61753  | -0.61 | -0.53 | -0.46 | -0.46 | -0.37 | -0.44 | -0.34 | -0.49  | -0.49  | -0.49  | -0.48 | -0.42 | -0.41 | -0.46  | -0.50  | -0.52 | -0.62 | -0.61  | -0.87  | -0.64  | -0.63 | -0.55 | -0.41 | -0.40 |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.04 | 0.00  | -0.07  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.28  | -0.03  | 0.00   | 1.92   | 0.00  | 0.05  | -0.52 | 0.00  |
| H Q    | 17.77 | 16.26 | 14.28 | 13.88 | 11.68 | 16.00 | 18.28 | 18.13  | 17.64  | 17.26  | 19.84 | 19.68 | 17.67 | 18.69  | 20.25  | 19.75 | 19.65 | 21.85  | 30.69  | 28.49  | 22.70 | 18.38 | 13.15 | 14.67 |
| 61844  | 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  |
|        | 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  | 0.30  | 0.00   | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  |
| HUD VL | 18.64 | 17.04 | 14.99 | 14.56 | 12.28 | 17.16 | 19.42 | 19.94  | 18.89  | 18.51  | 21.27 | 21.10 | 18.94 | 20.05  | 21.73  | 21.21 | 21.43 | 23.66  | 32.89  | 30.53  | 24.38 | 21.33 | 18.24 | 15.58 |
| 61758  | 0.88  | 0.78  | 0.70  | 0.68  | 0.59  | 0.88  | 1.14  | 1.25   | 1.24   | 1.24   | 1.44  | 1.42  | 1.27  | 1.37   | 1.49   | 1.45  | 1.48  | 1.57   | 2.20   | 2.04   | 1.68  | 1.37  | 0.91  | 0.91  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -0.28 | 0.00  | -0.56  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00  | -0.24  | 0.00   | 0.00   | 0.00  | -1.57 | -4.17 | 0.00  |
| LONGIL | 19.75 | 21.19 | 15.88 | 15.00 | 12.61 | 17.55 | 19.95 | 33.33  | 47.27  | 39.61  | 30.68 | 25.79 | 22.73 | 36.75  | 49.05  | 21.83 | 22.09 | 38.23  | 48.28  | 57.44  | 25.15 | 21.92 | 18.59 | 15.99 |
| 61762  | 1.40  | 1.26  | 1.14  | 1.11  | 0.93  | 1.27  | 1.67  | 1.83   | 1.83   | 1.82   | 2.13  | 2.11  | 1.87  | 2.00   | 2.16   | 2.08  | 2.14  | 2.29   | 3.23   | 3.00   | 2.44  | 1.95  | 1.22  | 1.32  |
|        | -0.58 | -3.67 | -0.45 | -0.01 | -0.01 | -0.28 | 0.00  | -13.37 | -27.80 | -20.52 | -8.72 | -4.01 | -3.18 | -16.05 | -26.64 | 0.00  | 0.00  | -14.08 | -14.36 | -25.94 | 0.00  | -1.58 | -4.21 | 0.00  |
| MHK VL | 18.07 | 16.51 | 14.48 | 14.06 | 11.81 | 16.25 | 18.54 | 20.66  | 23.44  | 21.96  | 17.40 | 19.45 | 18.77 | 16.36  | 17.74  | 17.25 | 17.99 | 19.27  | 28.69  | 25.46  | 20.13 | 16.78 | 11.93 | 12.53 |
| 61756  | 0.31  | 0.26  | 0.20  | 0.19  | 0.14  | 0.20  | 0.26  | 0.28   | 0.29   | 0.25   | 0.23  | 0.27  | 0.21  | 0.18   | 0.20   | 0.16  | 0.12  | 0.11   | 0.30   | 0.34   | 0.20  | 0.11  | 0.04  | 0.00  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.05 | 0.00  | -2.25  | -5.51  | -4.44  | 2.66  | 0.50  | -0.89 | 2.51   | 2.71   | 2.67  | 2.08  | 2.69   | 2.30   | 3.37   | 2.76  | 1.72  | 1.27  | 2.15  |
| MILLWD | 18.68 | 17.07 | 15.02 | 14.59 | 12.30 | 17.20 | 19.47 | 20.03  | 18.99  | 18.62  | 21.41 | 21.23 | 19.06 | 20.18  | 21.86  | 21.32 | 21.53 | 23.77  | 33.03  | 30.66  | 24.49 | 21.45 | 18.38 | 15.64 |
| 61759  | 0.91  | 0.82  | 0.73  | 0.71  | 0.61  | 0.91  | 1.19  | 1.34   | 1.35   | 1.35   | 1.58  | 1.55  | 1.38  | 1.49   | 1.61   | 1.57  | 1.58  | 1.68   | 2.34   | 2.16   | 1.79  | 1.47  | 0.98  | 0.98  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -0.28 | 0.00  | -0.57  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00  | -0.24  | 0.00   | 0.00   | 0.00  | -1.60 | -4.25 | 0.00  |
| N.Y.C. | 18.84 | 17.22 | 15.14 | 14.71 | 12.39 | 17.32 | 19.62 | 20.22  | 19.20  | 18.84  | 21.67 | 21.50 | 19.30 | 20.44  | 22.13  | 21.59 | 21.77 | 24.00  | 33.27  | 30.87  | 24.71 | 21.65 | 18.49 | 15.81 |
| 61761  | 1.07  | 0.97  | 0.85  | 0.82  | 0.71  | 1.04  | 1.34  | 1.52   | 1.56   | 1.58   | 1.83  | 1.83  | 1.63  | 1.76   | 1.89   | 1.84  | 1.82  | 1.91   | 2.58   | 2.37   | 2.00  | 1.68  | 1.13  | 1.14  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -0.28 | 0.00  | -0.57  | 0.00   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00  | -0.24  | 0.00   | 0.00   | 0.00  | -1.58 | -4.21 | 0.00  |
| NORTH  | 16.66 | 15.24 | 13.30 | 12.96 | 10.75 | 14.64 | 16.23 | 12.67  | 7.61   | 8.94   | -8.81 | -4.39 | -2.11 | -6.91  | -6.59  | -6.66 | -7.23 | -5.46  | 6.07   | -6.12  | -6.66 | -7.27 | -7.36 | -7.40 |
| 61755  | -1.10 | -1.02 | -0.99 | -0.93 | -0.92 | -1.35 | -2.05 | -2.30  | -2.34  | -2.41  | -3.44 | -2.82 | -2.60 | -2.93  | -2.98  | -2.92 | -3.27 | -3.64  | -4.19  | -4.42  | -3.60 | -3.13 | -2.16 | -2.50 |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.01  | 0.00  | 3.15   | 7.69   | 5.92   | 25.21 | 21.24 | 17.18 | 22.67  | 23.86  | 23.50 | 23.91 | 23.68  | 20.42  | 30.19  | 25.77 | 22.52 | 18.35 | 19.57 |
| NPX    | 18.21 | 16.84 | 14.82 | 14.40 | 12.15 | 17.02 | 19.10 | 19.70  | 18.37  | 18.07  | 20.73 | 20.54 | 18.48 | 19.57  | 21.20  | 20.72 | 20.44 | 23.28  | 32.31  | 29.87  | 23.88 | 21.22 | 18.85 | 15.36 |
| 61845  | 0.65  | 0.59  | 0.53  | 0.52  | 0.47  | 0.69  | 0.82  | 0.88   | 0.82   | 0.80   | 0.90  | 0.86  | 0.81  | 0.88   | 0.95   | 0.97  | 1.01  | 1.14   | 1.62   | 1.38   | 1.18  | 0.97  | 0.70  | 0.69  |
|        | 0.21  | 0.00  | 0.00  | 0.00  | -0.01 | -0.33 | 0.00  | -0.70  | 0.09   | 0.00   | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.52  | -0.29  | 0.00   | 0.00   | 0.00  | -1.88 | -4.99 | 0.00  |

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| OH<br>61846   | 16.73 | 15.37 | 13.55 | 13.15 | 11.07 | 15.24 | 17.52 | 17.17 | 16.58 | 16.19 | 18.72 | 18.64 | 16.71 | 17.65 | 19.17 | 18.62 | 18.58 | 20.58 | 28.68 | 26.02  | 21.36 | 17.63 | 13.14 | 13.97 |
|               | -1.04 | -0.88 | -0.74 | -0.73 | -0.60 | -0.80 | -0.76 | -1.05 | -1.06 | -1.07 | -1.12 | -1.04 | -0.96 | -1.03 | -1.08 | -1.13 | -1.27 | -1.32 | -2.01 | -1.49  | -1.34 | -1.02 | -0.71 | -0.70 |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.05 | 0.00  | -0.09 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.10  | -0.04 | 0.00  | 0.98   | 0.00  | -0.26 | -0.70 | 0.00  |
| PJM<br>61847  | 17.94 | 16.44 | 14.49 | 14.09 | 11.85 | 16.41 | 18.73 | 18.85 | 18.03 | 17.63 | 20.34 | 20.21 | 18.12 | 19.20 | 20.85 | 20.28 | 20.15 | 22.52 | 31.25 | 29.30  | 23.25 | 19.84 | 15.93 | 15.02 |
|               | 0.18  | 0.18  | 0.20  | 0.20  | 0.17  | 0.24  | 0.45  | 0.40  | 0.39  | 0.37  | 0.51  | 0.54  | 0.45  | 0.52  | 0.60  | 0.52  | 0.50  | 0.53  | 0.56  | 0.80   | 0.55  | 0.54  | 0.33  | 0.35  |
|               | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -0.16 | 0.00  | -0.33 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.30  | -0.14 | 0.00  | 0.00   | 0.00  | -0.92 | -2.45 | 0.00  |
| WEST<br>61752 | 16.80 | 15.42 | 13.59 | 13.18 | 11.09 | 15.32 | 17.68 | 17.32 | 16.74 | 16.37 | 18.91 | 18.83 | 16.90 | 17.84 | 19.36 | 18.81 | 20.60 | 20.79 | 29.03 | 40.61  | 21.58 | 18.76 | 13.20 | 14.06 |
|               | -0.97 | -0.84 | -0.69 | -0.71 | -0.58 | -0.72 | -0.60 | -0.90 | -0.90 | -0.90 | -0.93 | -0.84 | -0.78 | -0.85 | -0.90 | -0.95 | -1.09 | -1.11 | -1.67 | -1.18  | -1.12 | -0.88 | -0.62 | -0.61 |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.05 | 0.00  | -0.09 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -1.74 | -0.05 | 0.00  | -13.30 | 0.00  | -1.26 | -0.67 | 0.00  |