

Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

Zonal Data

12/31/2019

| 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 | 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 | 18.99 | 16.73 | 15.72 | 16.06 | 17.03 | 17.20 | 19.59 | 20.08 | 20.96 | 22.15 | 24.69 | 21.58 | 20.89 | 20.63 | 20.19 | 19.51 | 16.78 | 31.66 | 17.83 | 16.20 | 16.76 | 17.79 | 20.90 | 21.19 |
| 61757 | 0.93 | 0.76 | 0.74 | 0.77 | 0.80 | 0.93 | 1.04 | 1.03 | 0.89 | 0.99 | 1.33 | 1.33 | 1.32 | 1.15 | 1.21 | 1.11 | 0.95 | 0.46 | 1.10 | 0.96 | 0.92 | 0.94 | 0.68 | 0.48 |
| | -0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -2.66 | -4.16 | -7.13 | -7.30 | -4.35 | 0.00 | -0.41 | -3.17 | -2.18 | -3.17 | -2.62 | -25.01 | -1.62 | -1.66 | -2.68 | -2.34 | -9.29 | -12.06 |
| CENTRL | 17.58 | 15.92 | 14.95 | 15.24 | 16.19 | 16.22 | 16.17 | 15.41 | 13.94 | 14.87 | 19.72 | 20.32 | 19.21 | 16.74 | 17.11 | 15.65 | 13.65 | 9.42 | 15.45 | 13.88 | 13.56 | 14.89 | 12.13 | 10.20 |
| 61754 | 0.01 | -0.04 | -0.04 | -0.06 | -0.04 | -0.05 | -0.05 | -0.05 | 0.02 | 0.06 | 0.12 | 0.05 | 0.00 | 0.04 | 0.04 | 0.02 | 0.12 | 0.06 | 0.13 | 0.09 | 0.05 | 0.07 | 0.01 | 0.00 |
| | -0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.33 | -0.56 | -0.99 | -0.95 | -0.59 | -0.01 | -0.05 | -0.40 | -0.28 | -0.40 | -0.33 | -3.18 | -0.20 | -0.21 | -0.34 | -0.30 | -1.19 | -1.55 |
| DUNWOD | 19.12 | 17.04 | 15.99 | 16.33 | 17.34 | 17.45 | 19.10 | 19.21 | 19.35 | 20.52 | 24.03 | 22.17 | 21.32 | 20.25 | 20.00 | 19.00 | 16.44 | 25.27 | 17.79 | 16.17 | 16.47 | 17.60 | 18.74 | 18.24 |
| 61760 | 1.21 | 1.07 | 1.00 | 1.04 | 1.11 | 1.19 | 1.24 | 1.24 | 1.16 | 1.27 | 1.81 | 1.91 | 1.86 | 1.60 | 1.59 | 1.42 | 1.30 | 0.62 | 1.49 | 1.36 | 1.32 | 1.36 | 0.95 | 0.68 |
| | -0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.96 | -3.06 | -5.26 | -5.39 | -3.21 | 0.00 | -0.30 | -2.34 | -1.61 | -2.34 | -1.93 | -18.47 | -1.19 | -1.22 | -1.98 | -1.73 | -6.86 | -8.91 |
| GENESE | 16.97 | 15.37 | 14.38 | 14.68 | 15.61 | 15.63 | 15.38 | 14.51 | 12.67 | 14.01 | 17.73 | 19.44 | 18.47 | 16.04 | 16.43 | 15.02 | 13.14 | 8.37 | 14.76 | 13.37 | 12.99 | 14.28 | 11.38 | 9.43 |
| 61753 | -0.58 | -0.60 | -0.60 | -0.61 | -0.62 | -0.63 | -0.76 | -0.73 | -0.53 | -0.49 | -0.59 | -0.74 | -0.72 | -0.56 | -0.57 | -0.51 | -0.31 | -0.15 | -0.34 | -0.37 | -0.43 | -0.46 | -0.42 | -0.34 |
| | -0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.25 | -0.33 | -0.27 | -0.64 | 0.69 | 0.08 | -0.04 | -0.30 | -0.20 | -0.29 | -0.24 | -2.33 | 0.01 | -0.15 | -0.25 | -0.22 | -0.87 | -1.13 |
| H Q | 16.97 | 15.80 | 14.82 | 15.13 | 16.05 | 16.07 | 15.71 | 14.65 | 12.55 | 13.59 | 18.65 | 19.90 | 18.80 | 15.99 | 16.47 | 14.94 | 12.94 | 1.86 | 13.26 | 13.27 | 13.65 | 14.20 | 10.72 | 8.54 |
| 61844 | -0.23 | -0.17 | -0.16 | -0.17 | -0.18 | -0.19 | -0.18 | -0.20 | -0.23 | -0.27 | -0.37 | -0.36 | -0.35 | -0.32 | -0.33 | -0.29 | -0.33 | -0.15 | -0.35 | -0.31 | -0.29 | -0.31 | -0.21 | -0.14 |
| | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.07 | 4.18 | 1.50 | 0.00 | -0.78 | 0.00 | 0.00 | -0.04 |
| HUD VL | 19.01 | 16.94 | 15.90 | 16.24 | 17.24 | 17.34 | 18.98 | 19.08 | 19.22 | 20.38 | 23.85 | 21.98 | 21.12 | 20.07 | 19.83 | 18.85 | 16.32 | 25.14 | 17.66 | 16.04 | 16.33 | 17.46 | 18.62 | 18.14 |
| 61758 | 1.10 | 0.97 | 0.92 | 0.94 | 1.01 | 1.08 | 1.13 | 1.13 | 1.05 | 1.15 | 1.63 | 1.73 | 1.67 | 1.43 | 1.43 | 1.29 | 1.19 | 0.57 | 1.36 | 1.24 | 1.20 | 1.22 | 0.86 | 0.62 |
| | -0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.96 | -3.05 | -5.24 | -5.37 | -3.20 | 0.00 | -0.30 | -2.33 | -1.61 | -2.33 | -1.93 | -18.39 | -1.19 | -1.22 | -1.97 | -1.72 | -6.83 | -8.87 |
| LONGIL | 19.66 | 17.91 | 16.36 | 16.72 | 17.80 | 18.53 | 21.28 | 19.96 | 22.73 | 25.38 | 35.03 | 33.81 | 34.76 | 24.92 | 24.42 | 20.76 | 17.29 | 43.52 | 103.65 | 35.64 | 18.98 | 19.99 | 19.10 | 19.85 |
| 61762 | 1.62 | 1.58 | 1.37 | 1.43 | 1.58 | 1.76 | 1.82 | 1.76 | 1.62 | 1.76 | 2.45 | 2.58 | 2.50 | 2.17 | 2.19 | 1.94 | 1.79 | 0.84 | 2.04 | 1.87 | 1.80 | 1.87 | 1.30 | 0.97 |
| | -0.54 | -0.36 | -0.01 | 0.00 | 0.00 | -0.51 | -3.57 | -3.29 | -8.17 | -9.77 | -13.56 | -10.97 | -13.11 | -6.44 | -5.43 | -3.59 | -2.30 | -36.50 | -86.49 | -20.19 | -4.01 | -3.61 | -6.87 | -10.23 |
| MHK VL | 17.92 | 16.26 | 15.26 | 15.56 | 16.52 | 16.61 | 16.68 | 15.91 | 14.27 | 15.24 | 20.20 | 20.92 | 19.85 | 17.22 | 17.61 | 16.12 | 13.95 | 9.60 | 15.77 | 14.18 | 13.84 | 15.18 | 12.41 | 10.45 |
| 61756 | 0.34 | 0.29 | 0.28 | 0.26 | 0.29 | 0.35 | 0.43 | 0.47 | 0.41 | 0.43 | 0.62 | 0.66 | 0.64 | 0.51 | 0.53 | 0.48 | 0.41 | 0.17 | 0.45 | 0.38 | 0.32 | 0.35 | 0.24 | 0.17 |
| | -0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.36 | -0.55 | -0.94 | -0.96 | -0.57 | 0.00 | -0.05 | -0.40 | -0.28 | -0.40 | -0.34 | -3.25 | -0.21 | -0.22 | -0.35 | -0.31 | -1.25 | -1.63 |
| MILLWD | 19.07 | 16.99 | 15.95 | 16.28 | 17.28 | 17.39 | 19.07 | 19.20 | 19.37 | 20.54 | 23.99 | 22.09 | 21.23 | 20.21 | 19.94 | 18.97 | 16.42 | 25.51 | 17.76 | 16.14 | 16.45 | 17.57 | 18.80 | 18.33 |
| 61759 | 1.15 | 1.02 | 0.96 | 0.99 | 1.06 | 1.13 | 1.19 | 1.19 | 1.11 | 1.21 | 1.72 | 1.83 | 1.78 | 1.52 | 1.51 | 1.36 | 1.25 | 0.60 | 1.44 | 1.32 | 1.27 | 1.30 | 0.91 | 0.65 |
| | -0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.99 | -3.11 | -5.34 | -5.47 | -3.25 | 0.00 | -0.31 | -2.38 | -1.64 | -2.37 | -1.96 | -18.73 | -1.21 | -1.24 | -2.01 | -1.76 | -6.96 | -9.03 |
| N.Y.C. | 19.23 | 17.15 | 16.10 | 16.44 | 17.45 | 17.56 | 19.21 | 19.32 | 19.46 | 20.64 | 24.20 | 22.35 | 21.51 | 20.41 | 20.15 | 19.12 | 16.55 | 25.32 | 17.90 | 16.27 | 16.58 | 17.71 | 18.82 | 18.29 |
| 61761 | 1.32 | 1.18 | 1.11 | 1.14 | 1.22 | 1.30 | 1.36 | 1.36 | 1.26 | 1.39 | 1.97 | 2.09 | 2.06 | 1.76 | 1.74 | 1.55 | 1.41 | 0.68 | 1.60 | 1.47 | 1.43 | 1.46 | 1.03 | 0.74 |
| | -0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.96 | -3.07 | -5.26 | -5.39 | -3.21 | 0.00 | -0.30 | -2.34 | -1.61 | -2.34 | -1.93 | -18.46 | -1.19 | -1.22 | -1.97 | -1.73 | -6.86 | -8.91 |
| NORTH | 17.44 | 15.95 | 14.97 | 15.28 | 16.23 | 16.27 | 15.93 | 14.92 | 12.86 | 13.75 | 18.90 | 20.19 | 19.11 | 16.23 | 16.72 | 15.16 | 12.97 | 6.08 | 14.91 | 13.31 | 12.90 | 14.16 | 10.67 | 8.48 |
| 61755 | -0.06 | -0.02 | -0.02 | -0.01 | 0.00 | 0.01 | 0.04 | 0.02 | -0.07 | -0.10 | -0.11 | -0.07 | -0.04 | -0.08 | -0.08 | -0.07 | -0.23 | -0.11 | -0.20 | -0.27 | -0.26 | -0.35 | -0.26 | -0.16 |
| | 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 | 18.78 | 16.91 | 15.89 | 16.49 | 17.22 | 17.31 | 19.28 | 19.79 | 20.09 | 21.19 | 24.72 | 23.16 | 21.44 | 20.40 | 20.91 | 19.20 | 19.59 | 24.05 | 17.79 | 16.99 | 18.55 | 18.06 | 20.19 | 20.44 |
| 61845 | 1.10 | 0.94 | 0.90 | 0.93 | 0.99 | 1.05 | 1.10 | 1.08 | 0.96 | 1.04 | 1.46 | 1.55 | 1.50 | 1.30 | 1.32 | 1.20 | 1.07 | 0.50 | 1.20 | 1.10 | 1.07 | 1.10 | 0.80 | 0.58 |
| | -0.18 | 0.00 | 0.00 | -0.26 | 0.00 | 0.00 | -2.29 | -3.82 | -6.19 | -6.29 | -4.25 | -1.35 | -0.79 | -2.79 | -2.79 | -2.78 | -5.32 | -17.37 | -1.47 | -2.32 | -4.31 | -2.43 | -8.47 | -11.21 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OH | 16.21 | 14.78 | 13.85 | 14.12 | 15.04 | 15.03 | 14.77 | 13.82 | 12.11 | 13.52 | 17.34 | 18.51 | 17.55 | 15.37 | 15.70 | 14.37 | 12.59 | 8.72 | 13.94 | 12.81 | 12.47 | 13.72 | 11.14 | 9.65 |
| 61846 | -1.24 | -1.19 | -1.14 | -1.17 | -1.19 | -1.23 | -1.44 | -1.45 | -1.15 | -1.12 | -1.41 | -1.69 | -1.65 | -1.32 | -1.36 | -1.24 | -0.92 | -0.46 | -1.05 | -0.97 | -1.02 | -1.08 | -0.90 | -0.71 |
| | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.32 | -0.36 | -0.33 | -0.78 | 0.27 | 0.06 | -0.05 | -0.38 | -0.26 | -0.38 | -0.31 | -2.99 | 0.12 | -0.20 | -0.32 | -0.28 | -1.11 | -1.71 |
| PJM | 17.62 | 16.08 | 15.11 | 15.40 | 16.38 | 16.46 | 17.29 | 17.02 | 16.97 | 17.57 | 23.30 | 20.83 | 19.74 | 18.16 | 18.16 | 16.99 | 14.86 | 13.55 | 17.41 | 14.75 | 15.53 | 15.95 | 15.35 | 14.29 |
| 61847 | 0.16 | 0.11 | 0.12 | 0.11 | 0.15 | 0.19 | 0.19 | 0.17 | 0.23 | 0.31 | 0.52 | 0.46 | 0.40 | 0.41 | 0.37 | 0.32 | 0.40 | 0.19 | 0.45 | 0.41 | 0.37 | 0.37 | 0.20 | 0.13 |
| | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.21 | -1.95 | -3.80 | -3.40 | -3.76 | -0.12 | -0.19 | -1.44 | -0.99 | -1.44 | -1.25 | -7.18 | -1.85 | -0.75 | -1.99 | -1.07 | -4.22 | -5.52 |
| WEST | 16.65 | 15.03 | 14.08 | 14.35 | 15.28 | 15.30 | 15.07 | 14.87 | 16.84 | 14.43 | 28.37 | 19.71 | 17.98 | 15.71 | 16.05 | 14.68 | 12.87 | 8.89 | 19.24 | 13.12 | 12.77 | 14.03 | 11.36 | 9.54 |
| 61752 | -0.92 | -0.94 | -0.91 | -0.94 | -0.94 | -0.96 | -1.14 | -1.14 | -0.86 | -0.79 | -0.94 | -1.21 | -1.22 | -0.98 | -1.01 | -0.94 | -0.65 | -0.31 | -0.69 | -0.66 | -0.73 | -0.77 | -0.69 | -0.56 |
| | -0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.32 | -1.11 | -4.76 | -1.37 | -10.29 | -0.66 | -0.05 | -0.39 | -0.26 | -0.38 | -0.32 | -3.02 | -4.83 | -0.20 | -0.32 | -0.28 | -1.12 | -1.46 |