

Day Ahead Market Zonal LBMP

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

Zonal Data

12/31/2017

| 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 61757 | 109.58 | 109.21 | 112.76 | 111.20 | 110.87 | 86.43 | 94.17 | 100.52 | 110.83 | 129.29 | 140.26 | 138.27 | 138.16 | 130.61 | 134.93 | 143.39 | 149.44 | 206.52 | 191.53 | 182.09 | 157.00 | 149.60 | 147.84 | 137.64 |
| | 4.90 | 3.86 | 3.62 | 3.57 | 3.63 | 5.47 | 6.49 | 6.84 | 7.72 | 8.16 | 8.16 | 6.04 | 5.36 | 4.81 | 4.54 | 4.69 | 7.29 | 12.28 | 12.05 | 9.31 | 8.58 | 6.97 | 5.99 | 5.17 |
| | -41.02 | -54.47 | -60.91 | -60.10 | -58.85 | -7.02 | 0.00 | 0.00 | -7.73 | -22.73 | -34.92 | -61.14 | -69.69 | -69.18 | -76.99 | -82.87 | -52.15 | -46.15 | -34.22 | -59.21 | -43.80 | -57.59 | -68.81 | -67.93 |
| CENTRL 61754 | 67.21 | 56.41 | 54.57 | 53.79 | 54.52 | 73.17 | 86.01 | 91.53 | 93.65 | 98.62 | 98.91 | 76.56 | 69.86 | 63.49 | 61.25 | 64.50 | 94.01 | 150.00 | 146.09 | 117.94 | 107.23 | 89.83 | 79.62 | 71.87 |
| | -1.46 | -1.12 | -1.11 | -1.09 | -1.06 | -1.63 | -1.67 | -2.15 | -2.67 | -2.56 | -2.53 | -1.99 | -1.77 | -1.59 | -1.55 | -1.45 | -2.34 | -3.70 | -3.34 | -2.83 | -2.72 | -2.21 | -1.82 | -0.97 |
| | -5.01 | -6.65 | -7.44 | -7.34 | -7.19 | -0.86 | 0.00 | 0.00 | -0.94 | -2.78 | -4.26 | -7.47 | -8.51 | -8.45 | -9.40 | -10.12 | -6.35 | -5.62 | -4.17 | -7.21 | -5.33 | -7.01 | -8.40 | -8.30 |
| DUNWOD 61760 | 99.40 | 95.67 | 97.31 | 95.96 | 95.93 | 85.11 | 94.61 | 101.00 | 108.88 | 123.29 | 130.99 | 122.41 | 120.21 | 112.95 | 115.31 | 122.39 | 137.15 | 196.40 | 184.39 | 168.22 | 146.72 | 135.71 | 130.61 | 120.56 |
| | 5.03 | 4.02 | 3.47 | 3.42 | 3.49 | 5.92 | 6.93 | 7.31 | 7.72 | 7.87 | 7.68 | 5.55 | 4.93 | 4.47 | 4.27 | 4.52 | 8.10 | 13.77 | 13.51 | 10.33 | 9.31 | 7.57 | 6.06 | 5.17 |
| | -30.71 | -40.78 | -45.60 | -44.99 | -44.05 | -5.25 | 0.00 | 0.00 | -5.79 | -17.02 | -26.14 | -45.78 | -52.17 | -51.85 | -57.64 | -62.04 | -39.04 | -34.55 | -25.62 | -44.32 | -32.79 | -43.11 | -51.51 | -50.86 |
| GENESE 61753 | 63.67 | 52.85 | 50.88 | 50.15 | 50.88 | 70.01 | 82.77 | 87.50 | 89.13 | 93.34 | 93.63 | 71.53 | 64.94 | 58.89 | 56.62 | 59.65 | 88.57 | 142.76 | 139.45 | 111.94 | 101.70 | 84.45 | 74.34 | 67.71 |
| | -3.82 | -3.10 | -3.04 | -2.99 | -3.00 | -4.58 | -4.91 | -6.19 | -6.96 | -7.18 | -6.80 | -5.26 | -4.67 | -4.19 | -3.95 | -3.91 | -6.30 | -9.62 | -9.01 | -7.15 | -7.01 | -5.95 | -5.11 | -3.16 |
| | -3.82 | -5.08 | -5.68 | -5.60 | -5.49 | -0.65 | 0.00 | 0.00 | -0.72 | -2.12 | -3.26 | -5.70 | -6.50 | -6.45 | -7.18 | -7.73 | -4.87 | -4.31 | -3.19 | -5.53 | -4.09 | -5.37 | -6.42 | -6.33 |
| H Q 61844 | 63.15 | 50.42 | 47.80 | 47.11 | 47.91 | 73.20 | 86.80 | 92.93 | 97.00 | 95.12 | 96.30 | 70.59 | 62.61 | 56.11 | 52.92 | 55.27 | 89.02 | 146.45 | 143.53 | 112.32 | 103.57 | 84.10 | 72.31 | 63.70 |
| | -0.51 | -0.46 | -0.43 | -0.43 | -0.48 | -0.74 | -0.88 | -0.75 | -0.77 | -0.89 | -0.88 | -0.49 | -0.51 | -0.51 | -0.48 | -0.56 | -0.99 | -1.63 | -1.74 | -1.25 | -1.05 | -0.93 | -0.73 | -0.84 |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -2.40 | 2.40 | 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 61758 | 99.14 | 95.37 | 97.06 | 95.72 | 95.70 | 85.00 | 94.52 | 100.90 | 108.66 | 123.08 | 130.83 | 122.12 | 119.88 | 112.40 | 114.89 | 121.95 | 136.73 | 196.03 | 183.94 | 167.84 | 146.42 | 135.28 | 130.14 | 120.11 |
| | 4.97 | 3.97 | 3.52 | 3.47 | 3.53 | 5.84 | 6.84 | 7.21 | 7.53 | 7.77 | 7.68 | 5.55 | 4.93 | 4.42 | 4.22 | 4.47 | 7.92 | 13.61 | 13.22 | 10.23 | 9.21 | 7.39 | 5.91 | 5.04 |
| | -30.51 | -40.52 | -45.31 | -44.71 | -43.78 | -5.22 | 0.00 | 0.00 | -5.75 | -16.91 | -25.97 | -45.49 | -51.84 | -51.36 | -57.28 | -61.65 | -38.80 | -34.34 | -25.46 | -44.05 | -32.59 | -42.85 | -51.19 | -50.53 |
| LONGIL 61762 | 103.92 | 99.64 | 99.98 | 98.89 | 98.90 | 91.11 | 99.10 | 104.51 | 112.66 | 126.69 | 148.23 | 148.57 | 142.50 | 147.80 | 150.57 | 154.54 | 159.76 | 209.73 | 203.52 | 194.86 | 167.45 | 158.26 | 149.12 | 124.04 |
| | 6.88 | 5.80 | 5.02 | 4.99 | 5.08 | 8.72 | 9.99 | 9.74 | 10.49 | 10.92 | 10.40 | 7.53 | 6.69 | 6.06 | 5.77 | 6.14 | 11.25 | 18.51 | 18.30 | 13.85 | 12.34 | 10.28 | 8.25 | 7.23 |
| | -33.38 | -42.97 | -46.73 | -46.36 | -45.42 | -8.45 | -1.43 | -1.08 | -6.79 | -17.37 | -40.65 | -69.95 | -72.70 | -85.11 | -91.40 | -92.57 | -58.50 | -43.14 | -39.95 | -67.44 | -50.49 | -62.94 | -67.83 | -52.28 |
| MHK VL 61756 | 70.31 | 58.83 | 56.95 | 56.14 | 56.85 | 76.75 | 90.05 | 96.49 | 98.92 | 104.22 | 104.79 | 81.02 | 73.75 | 67.01 | 64.68 | 67.81 | 98.80 | 157.99 | 153.68 | 123.43 | 112.74 | 94.24 | 83.85 | 75.13 |
| | 1.47 | 1.07 | 1.01 | 1.00 | 1.02 | 1.92 | 2.37 | 2.81 | 2.58 | 2.95 | 3.20 | 2.21 | 1.83 | 1.64 | 1.55 | 1.51 | 2.61 | 4.44 | 4.35 | 2.84 | 2.93 | 2.38 | 2.12 | 2.00 |
| | -5.18 | -6.88 | -7.70 | -7.59 | -7.44 | -0.89 | 0.00 | 0.00 | -0.98 | -2.87 | -4.41 | -7.73 | -8.81 | -8.74 | -9.73 | -10.47 | -6.18 | -5.47 | -4.06 | -7.02 | -5.19 | -6.83 | -8.70 | -8.58 |
| MILLWD 61759 | 99.87 | 96.20 | 97.91 | 96.55 | 96.53 | 85.37 | 94.78 | 101.08 | 109.22 | 123.73 | 131.52 | 123.11 | 120.93 | 113.48 | 115.99 | 123.18 | 137.88 | 197.48 | 185.07 | 169.11 | 147.45 | 136.38 | 131.30 | 121.21 |
| | 5.22 | 4.17 | 3.66 | 3.61 | 3.68 | 6.13 | 7.10 | 7.40 | 8.01 | 8.16 | 7.97 | 5.83 | 5.18 | 4.70 | 4.43 | 4.74 | 8.46 | 14.52 | 13.95 | 10.79 | 9.73 | 7.82 | 6.28 | 5.35 |
| | -30.99 | -41.15 | -46.01 | -45.40 | -44.46 | -5.30 | 0.00 | 0.00 | -5.84 | -17.17 | -26.38 | -46.19 | -52.64 | -52.16 | -58.16 | -62.61 | -39.41 | -34.88 | -25.86 | -44.74 | -33.10 | -43.52 | -51.98 | -51.32 |
| N.Y.C. 61761 | 100.00 | 96.11 | 97.68 | 96.37 | 96.31 | 85.86 | 95.49 | 101.84 | 116.42 | 124.10 | 131.79 | 123.02 | 120.90 | 114.80 | 115.90 | 122.96 | 138.00 | 197.62 | 185.58 | 169.29 | 147.71 | 139.66 | 131.32 | 121.19 |
| | 5.60 | 4.42 | 3.81 | 3.80 | 3.82 | 6.66 | 7.80 | 8.15 | 8.49 | 8.66 | 8.45 | 6.11 | 5.56 | 4.98 | 4.81 | 5.03 | 8.91 | 14.95 | 14.67 | 11.36 | 10.26 | 8.34 | 6.72 | 5.74 |
| | -30.73 | -40.81 | -45.63 | -45.03 | -44.09 | -5.26 | -0.01 | -0.01 | -12.56 | -17.05 | -26.17 | -45.82 | -52.23 | -53.20 | -57.70 | -62.10 | -39.08 | -34.59 | -25.65 | -44.37 | -32.83 | -46.29 | -51.57 | -50.91 |
| NORTH 61755 | 63.92 | 50.82 | 48.14 | 47.45 | 48.20 | 73.79 | 87.51 | 93.87 | 95.37 | 98.40 | 97.18 | 71.23 | 63.05 | 56.46 | 53.18 | 55.50 | 89.38 | 147.05 | 143.67 | 112.78 | 103.99 | 84.44 | 72.67 | 63.96 |
| | 0.26 | -0.05 | -0.10 | -0.09 | -0.19 | -0.15 | -0.18 | 0.19 | 0.00 | 0.00 | 0.00 | 0.14 | -0.06 | -0.17 | -0.21 | -0.33 | -0.63 | -1.03 | -1.59 | -0.79 | -0.62 | -0.59 | -0.36 | -0.58 |
| | 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 61845 | 127.60 | 119.60 | 115.48 | 115.50 | 117.40 | 122.79 | 124.89 | 135.00 | 154.70 | 169.60 | 167.00 | 153.88 | 137.15 | 128.20 | 126.60 | 133.30 | 164.24 | 200.52 | 191.90 | 182.60 | 160.00 | 142.43 | 139.34 | 129.42 |
| | 4.78 | 3.86 | 3.52 | 3.47 | 3.53 | 5.62 | 6.58 | 6.93 | 7.34 | 7.58 | 7.48 | 5.40 | 4.86 | 4.36 | 4.11 | 4.30 | 7.11 | 11.70 | 11.63 | 8.97 | 8.17 | 6.55 | 5.55 | 4.90 |
| | -59.16 | -64.86 | -63.72 | -64.49 | -65.48 | -43.23 | -30.63 | -34.38 | -51.99 | -63.62 | -62.34 | -77.40 | -69.18 | -67.21 | -69.09 | -73.17 | -67.12 | -40.75 | -35.01 | -60.06 | -47.22 | -50.85 | -60.76 | -59.98 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| OH 61846 | 63.50 | 53.59 | 51.84 | 51.15 | 51.82 | 68.54 | 80.58 | 83.75 | 87.20 | 86.77 | 89.44 | 70.00 | 64.48 | 58.81 | 56.94 | 60.00 | 86.07 | 136.44 | 132.89 | 108.22 | 98.23 | 82.11 | 72.90 | 68.16 |
| | -5.35 | -4.17 | -4.10 | -3.99 | -4.02 | -6.29 | -7.10 | -9.93 | -11.54 | -12.11 | -12.15 | -8.82 | -7.45 | -6.57 | -6.19 | -6.31 | -10.53 | -17.47 | -16.70 | -12.83 | -11.93 | -10.21 | -8.84 | -4.97 |
| | -5.19 | -6.89 | -7.70 | -7.60 | -7.44 | -0.89 | 0.00 | 0.00 | -3.37 | -0.48 | -4.42 | -7.73 | -8.81 | -8.75 | -9.74 | -10.48 | -6.59 | -5.84 | -4.33 | -7.49 | -5.54 | -7.28 | -8.70 | -8.59 |
| PJM 61847 | 75.57 | 62.80 | 62.10 | 61.66 | 64.75 | 75.41 | 89.43 | 95.18 | 104.40 | 101.45 | 104.27 | 92.59 | 84.69 | 79.00 | 76.14 | 81.98 | 103.34 | 151.21 | 151.02 | 132.73 | 123.36 | 109.27 | 96.52 | 84.43 |
| | 1.15 | 0.96 | 0.67 | 0.67 | 0.73 | 1.48 | 1.75 | 1.49 | 1.15 | 0.88 | 0.77 | 0.57 | 0.63 | 0.62 | 0.59 | 0.72 | 1.53 | 2.67 | 2.75 | 2.15 | 1.78 | 1.28 | 0.80 | 1.42 |
| | -10.76 | -10.96 | -13.19 | -13.45 | -15.63 | 0.01 | 0.00 | 0.00 | -7.88 | -2.17 | -6.32 | -20.94 | -20.95 | -21.75 | -22.15 | -25.43 | -11.80 | -0.46 | -3.01 | -17.01 | -16.97 | -22.96 | -22.68 | -18.47 |
| WEST 61752 | 64.38 | 54.14 | 52.26 | 51.57 | 52.26 | 69.76 | 82.07 | 84.97 | 85.92 | 90.34 | 90.54 | 70.77 | 65.02 | 59.37 | 57.42 | 60.54 | 87.26 | 139.03 | 135.48 | 110.20 | 100.00 | 83.19 | 73.59 | 68.99 |
| | -4.26 | -3.36 | -3.38 | -3.28 | -3.29 | -5.03 | -5.61 | -8.71 | -10.39 | -10.82 | -10.88 | -7.75 | -6.57 | -5.66 | -5.34 | -5.36 | -9.09 | -14.66 | -13.95 | -10.56 | -9.94 | -8.85 | -7.81 | -3.81 |
| | -4.99 | -6.62 | -7.40 | -7.31 | -7.15 | -0.85 | 0.00 | 0.00 | -0.94 | -2.76 | -4.24 | -7.43 | -8.47 | -8.41 | -9.36 | -10.07 | -6.34 | -5.61 | -4.16 | -7.20 | -5.32 | -7.00 | -8.36 | -8.26 |