

# Day Ahead Market Zonal LBMP

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

03/30/2016

| 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 | 16.55 | 11.96 | 9.95  | 10.02 | 12.04 | 18.26  | 21.87 | 24.75 | 25.13 | 25.38 | 23.76 | 22.03 | 20.94 | 20.27 | 18.95 | 19.18 | 19.77 | 21.73 | 26.37  | 31.91  | 29.42  | 24.26  | 19.40  | 18.92  |
| 61757  | 0.47  | 0.51  | 0.46  | 0.61  | 0.73  | 0.35   | 1.51  | 1.75  | 1.59  | 1.65  | 1.68  | 1.56  | 1.32  | 1.34  | 1.23  | 1.01  | 1.20  | 1.08  | 0.77   | 0.82   | 0.80   | 0.72   | 0.38   | 0.16   |
|        | -8.78 | -3.53 | -2.40 | -0.06 | 0.00  | -12.32 | 0.04  | 0.05  | -3.67 | -2.53 | 0.04  | 0.11  | -1.73 | -1.10 | -0.65 | -3.95 | -1.63 | -5.18 | -14.29 | -19.04 | -16.83 | -12.95 | -13.41 | -16.03 |
| CENTRL | 8.39  | 8.41  | 7.44  | 9.47  | 11.49 | 7.44   | 23.03 | 26.49 | 23.89 | 25.30 | 25.81 | 23.87 | 21.07 | 20.92 | 19.93 | 16.62 | 19.94 | 18.46 | 13.58  | 14.98  | 14.45  | 12.70  | 7.64   | 5.05   |
| 61754  | 0.09  | 0.10  | 0.09  | 0.11  | 0.18  | 0.13   | 0.61  | 0.72  | 0.64  | 0.68  | 0.66  | 0.60  | 0.52  | 0.52  | 0.50  | 0.40  | 0.49  | 0.40  | 0.28   | 0.29   | 0.32   | 0.32   | 0.16   | 0.08   |
|        | -0.99 | -0.40 | -0.27 | -0.01 | 0.00  | -1.71  | -2.02 | -2.73 | -3.37 | -3.42 | -3.03 | -2.70 | -2.66 | -2.56 | -2.36 | -2.00 | -2.51 | -2.60 | -1.98  | -2.64  | -2.34  | -1.80  | -1.87  | -2.23  |
| DUNWOD | 15.01 | 11.61 | 9.80  | 10.51 | 12.63 | 16.50  | 22.93 | 26.00 | 25.66 | 26.23 | 25.22 | 23.43 | 21.89 | 21.30 | 20.09 | 19.53 | 20.76 | 22.01 | 24.74  | 29.53  | 27.41  | 22.85  | 17.49  | 16.37  |
| 61760  | 0.90  | 0.96  | 0.85  | 1.11  | 1.32  | 0.69   | 2.53  | 2.95  | 2.72  | 2.88  | 3.03  | 2.86  | 2.50  | 2.50  | 2.42  | 2.01  | 2.42  | 2.21  | 1.57   | 1.67   | 1.65   | 1.51   | 0.76   | 0.34   |
|        | -6.81 | -2.74 | -1.86 | -0.05 | 0.00  | -10.21 | 0.00  | 0.00  | -3.06 | -2.14 | -0.07 | 0.00  | -1.50 | -0.97 | -0.59 | -3.30 | -1.40 | -4.34 | -11.86 | -15.80 | -13.96 | -10.75 | -11.12 | -13.30 |
| GENESE | 7.96  | 8.06  | 7.14  | 9.13  | 11.14 | 7.00   | 18.07 | 19.81 | 16.94 | 17.87 | 18.32 | 17.10 | 15.15 | 15.02 | 14.49 | 12.67 | 14.55 | 13.68 | 11.85  | 12.94  | 12.47  | 11.00  | 6.32   | 4.21   |
| 61753  | -0.15 | -0.17 | -0.17 | -0.22 | -0.17 | 0.00   | 0.04  | -0.05 | -0.28 | -0.23 | -0.24 | -0.29 | -0.18 | -0.20 | -0.08 | -0.07 | 0.00  | 0.02  | -0.01  | -0.02  | -0.05  | 0.06   | 0.04   | 0.04   |
|        | -0.81 | -0.32 | -0.22 | -0.01 | 0.00  | -1.41  | 2.37  | 3.18  | 2.66  | 3.10  | 3.56  | 3.18  | 2.56  | 2.62  | 2.50  | 1.48  | 2.39  | 1.79  | -0.55  | -0.91  | -0.73  | -0.35  | -0.66  | -1.44  |
| H Q    | 6.00  | 6.00  | 6.00  | 6.00  | 6.00  | 5.50   | 16.31 | 18.44 | 17.63 | 16.40 | 11.75 | 11.75 | 11.75 | 11.75 | 11.75 | 11.75 | 11.75 | 11.75 | 10.84  | 11.57  | 11.30  | 9.74   | 5.34   | 2.62   |
| 61844  | -0.25 | -0.27 | -0.24 | -0.32 | -0.40 | -0.18  | -0.86 | -0.99 | -0.85 | -0.91 | -0.93 | -0.86 | -0.75 | -0.77 | -0.72 | -0.60 | -0.71 | -0.65 | -0.47  | -0.48  | -0.49  | -0.47  | -0.24  | -0.11  |
|        | 1.05  | 1.64  | 0.84  | 3.03  | 4.91  | -0.08  | 3.23  | 3.62  | 1.39  | 3.89  | 9.44  | 7.96  | 5.39  | 5.32  | 4.61  | 1.87  | 4.48  | 3.06  | 0.00   | 0.00   | 0.00   | 0.38   | 0.03   | 0.00   |
| HUD VL | 14.81 | 11.49 | 9.72  | 10.46 | 12.56 | 16.38  | 22.87 | 25.88 | 25.48 | 26.02 | 24.98 | 23.19 | 21.65 | 21.06 | 19.84 | 19.32 | 20.52 | 21.74 | 24.49  | 29.24  | 27.14  | 22.62  | 17.33  | 16.23  |
| 61758  | 0.82  | 0.89  | 0.81  | 1.07  | 1.25  | 0.66   | 2.47  | 2.83  | 2.57  | 2.69  | 2.79  | 2.61  | 2.27  | 2.27  | 2.19  | 1.82  | 2.19  | 1.98  | 1.44   | 1.54   | 1.52   | 1.39   | 0.70   | 0.32   |
|        | -6.69 | -2.69 | -1.83 | -0.05 | 0.00  | -10.12 | 0.00  | 0.00  | -3.04 | -2.12 | -0.07 | 0.00  | -1.49 | -0.96 | -0.58 | -3.27 | -1.39 | -4.29 | -11.74 | -15.64 | -13.83 | -10.65 | -11.02 | -13.18 |
| LONGIL | 15.83 | 13.86 | 13.17 | 12.79 | 14.78 | 17.91  | 23.77 | 26.64 | 26.86 | 27.27 | 26.02 | 24.18 | 22.42 | 21.90 | 20.57 | 20.02 | 21.12 | 22.57 | 25.19  | 30.01  | 27.98  | 23.68  | 17.91  | 16.46  |
| 61762  | 1.37  | 1.55  | 1.40  | 1.80  | 2.19  | 1.07   | 3.37  | 3.59  | 3.92  | 3.92  | 3.83  | 3.60  | 3.02  | 3.09  | 2.90  | 2.49  | 2.78  | 2.77  | 2.01   | 2.16   | 2.17   | 1.90   | 0.97   | 0.42   |
|        | -7.17 | -4.39 | -4.69 | -1.65 | -1.29 | -11.25 | 0.00  | 0.00  | -3.06 | -2.14 | -0.08 | 0.00  | -1.50 | -0.98 | -0.59 | -3.31 | -1.41 | -4.34 | -11.86 | -15.80 | -14.02 | -11.19 | -11.33 | -13.30 |
| MHK VL | 8.50  | 8.50  | 7.52  | 9.56  | 11.57 | 7.59   | 20.87 | 23.60 | 21.06 | 21.93 | 21.78 | 20.35 | 18.15 | 17.99 | 17.16 | 15.00 | 17.12 | 16.21 | 13.57  | 15.01  | 14.46  | 12.76  | 7.72   | 5.14   |
| 61756  | 0.17  | 0.17  | 0.16  | 0.21  | 0.26  | 0.19   | 0.90  | 1.04  | 0.83  | 0.87  | 0.91  | 0.84  | 0.72  | 0.69  | 0.60  | 0.45  | 0.56  | 0.46  | 0.32   | 0.37   | 0.39   | 0.33   | 0.15   | 0.06   |
|        | -1.03 | -0.41 | -0.28 | -0.01 | 0.00  | -1.81  | 0.42  | 0.48  | -0.35 | 0.15  | 1.25  | 1.07  | 0.46  | 0.54  | 0.51  | -0.32 | 0.38  | -0.28 | -1.94  | -2.58  | -2.28  | -1.85  | -1.97  | -2.35  |
| MILLWD | 15.03 | 11.61 | 9.80  | 10.51 | 12.62 | 16.52  | 22.93 | 26.00 | 25.63 | 26.17 | 25.18 | 23.35 | 21.81 | 21.22 | 20.00 | 19.48 | 20.70 | 21.96 | 24.76  | 29.56  | 27.44  | 22.85  | 17.51  | 16.41  |
| 61759  | 0.88  | 0.94  | 0.84  | 1.11  | 1.31  | 0.68   | 2.53  | 2.95  | 2.68  | 2.82  | 2.98  | 2.78  | 2.41  | 2.41  | 2.34  | 1.95  | 2.35  | 2.15  | 1.55   | 1.65   | 1.63   | 1.48   | 0.75   | 0.34   |
|        | -6.85 | -2.75 | -1.87 | -0.05 | 0.00  | -10.25 | 0.00  | 0.00  | -3.07 | -2.15 | -0.07 | 0.00  | -1.50 | -0.97 | -0.59 | -3.31 | -1.41 | -4.35 | -11.90 | -15.86 | -14.02 | -10.78 | -11.16 | -13.34 |
| N.Y.C. | 15.07 | 11.67 | 9.86  | 10.59 | 12.72 | 16.54  | 23.05 | 26.18 | 25.82 | 26.42 | 25.45 | 25.01 | 22.09 | 21.50 | 20.26 | 19.68 | 20.95 | 24.00 | 25.00  | 29.63  | 27.52  | 22.97  | 17.55  | 16.40  |
| 61761  | 0.96  | 1.02  | 0.91  | 1.19  | 1.41  | 0.73   | 2.65  | 3.13  | 2.88  | 3.07  | 3.25  | 3.04  | 2.70  | 2.69  | 2.59  | 2.16  | 2.61  | 2.38  | 1.69   | 1.78   | 1.77   | 1.63   | 0.81   | 0.37   |
|        | -6.81 | -2.74 | -1.87 | -0.05 | 0.00  | -10.21 | 0.00  | 0.00  | -3.06 | -2.14 | -0.07 | -1.39 | -1.50 | -0.97 | -0.59 | -3.30 | -1.40 | -6.16 | -12.00 | -15.80 | -13.96 | -10.75 | -11.13 | -13.30 |
| NORTH  | 6.94  | 7.53  | 6.75  | 8.92  | 10.76 | 5.36   | 16.55 | 18.57 | 17.57 | 16.58 | 12.46 | 12.29 | 12.08 | 12.07 | 11.99 | 11.75 | 12.02 | 11.83 | 10.63  | 11.41  | 11.12  | 9.56   | 5.23   | 2.54   |
| 61755  | -0.36 | -0.39 | -0.33 | -0.43 | -0.54 | -0.23  | -1.02 | -1.22 | -1.05 | -1.12 | -1.17 | -1.13 | -0.97 | -0.98 | -0.94 | -0.78 | -0.90 | -0.88 | -0.68  | -0.64  | -0.67  | -0.69  | -0.35  | -0.19  |
|        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 2.83  | 3.25  | 1.25  | 3.50  | 8.49  | 7.16  | 4.84  | 4.78  | 4.14  | 1.69  | 4.03  | 2.75  | 0.00   | 0.00   | 0.00   | 0.34   | 0.03   | 0.00   |
| NPX    | 15.71 | 11.70 | 9.81  | 10.18 | 12.23 | 17.34  | 22.05 | 25.05 | 25.06 | 25.48 | 24.26 | 22.47 | 21.18 | 20.56 | 19.31 | 19.17 | 20.05 | 21.66 | 25.37  | 30.50  | 28.21  | 23.35  | 18.31  | 17.55  |
| 61845  | 0.60  | 0.65  | 0.59  | 0.78  | 0.93  | 0.46   | 1.73  | 2.00  | 1.83  | 1.93  | 2.06  | 1.89  | 1.64  | 1.66  | 1.59  | 1.34  | 1.58  | 1.44  | 1.05   | 1.12   | 1.10   | 0.97   | 0.50   | 0.23   |
|        | -7.81 | -3.14 | -2.14 | -0.05 | 0.00  | -11.29 | 0.08  | 0.00  | -3.36 | -2.35 | -0.08 | 0.00  | -1.64 | -1.06 | -0.64 | -3.62 | -1.53 | -4.76 | -13.00 | -17.33 | -15.32 | -11.79 | -12.20 | -14.59 |

|               |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| OH<br>61846   | 0.59  | 0.52  | 0.48  | 0.43  | 0.47  | 0.62  | 4.50   | 4.50   | 3.70   | 3.44   | 3.11   | 2.74   | 2.74   | 2.74   | 2.74   | 2.74   | 2.74   | 3.04   | 3.78   | 4.39   | 4.28   | 3.66   | 2.72   | 1.68   |
|               | -0.18 | -0.20 | -0.16 | -0.22 | -0.20 | -0.02 | 0.12   | 0.09   | 0.14   | 0.23   | 0.22   | 0.15   | 0.20   | 0.27   | 0.22   | 0.20   | 0.22   | 0.19   | 0.05   | 0.04   | 0.05   | 0.22   | 0.17   | 0.09   |
|               | 6.53  | 7.20  | 6.44  | 8.70  | 10.63 | 4.95  | 16.02  | 18.64  | 16.32  | 18.00  | 19.23  | 17.98  | 15.35  | 15.36  | 14.56  | 11.68  | 14.42  | 12.61  | 7.58   | 7.70   | 7.56   | 7.15   | 3.06   | 1.14   |
| PJM<br>61847  | 12.32 | 10.28 | 8.81  | 10.05 | 12.11 | 13.08 | 26.14  | 30.57  | 29.08  | 30.35  | 30.01  | 27.64  | 25.15  | 24.75  | 23.39  | 22.14  | 23.80  | 23.67  | 25.31  | 29.60  | 27.77  | 24.01  | 17.66  | 13.82  |
|               | 0.51  | 0.55  | 0.50  | 0.66  | 0.80  | 0.46  | 1.73   | 2.00   | 1.83   | 1.95   | 2.03   | 1.87   | 1.66   | 1.70   | 1.62   | 1.35   | 1.61   | 1.45   | 1.02   | 1.07   | 1.07   | 1.04   | 0.54   | 0.26   |
|               | -4.51 | -1.81 | -1.23 | -0.03 | 0.00  | -7.03 | -4.01  | -5.52  | -7.38  | -7.19  | -5.85  | -5.19  | -5.60  | -5.22  | -4.69  | -6.57  | -5.25  | -6.75  | -12.97 | -16.48 | -14.90 | -12.39 | -11.51 | -10.84 |
| WEST<br>61752 | 8.29  | 8.25  | 7.31  | 9.26  | 11.26 | 7.47  | 37.53  | 46.00  | 42.00  | 45.17  | 46.26  | 42.11  | 37.11  | 37.00  | 35.00  | 33.11  | 35.00  | 32.29  | 35.00  | 40.00  | 38.00  | 35.00  | 25.00  | 13.02  |
|               | -0.08 | -0.09 | -0.07 | -0.10 | -0.05 | 0.07  | 0.53   | 0.60   | 0.62   | 0.74   | 0.77   | 0.66   | 0.64   | 0.75   | 0.67   | 0.55   | 0.64   | 0.57   | 0.31   | 0.31   | 0.32   | 0.50   | 0.34   | 0.16   |
|               | -1.06 | -0.43 | -0.29 | -0.01 | 0.00  | -1.81 | -16.60 | -22.35 | -21.51 | -23.22 | -23.37 | -20.88 | -18.58 | -18.41 | -17.26 | -18.34 | -17.42 | -16.26 | -23.38 | -27.64 | -25.89 | -23.92 | -19.05 | -10.12 |