

# Day Ahead Market Zonal LBMP

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

12/09/2019

| 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 | 22.23  | 21.26  | 18.19  | 14.28  | 13.23  | 19.08  | 22.84  | 24.72  | 25.78  | 27.40  | 23.25  | 23.34  | 22.38  | 22.40  | 22.45  | 24.36  | 27.55  | 27.06  | 29.17  | 25.56  | 23.53  | 25.70  | 22.94  | 23.04  |
| 61757  | 0.40   | 0.29   | 0.28   | 0.28   | 0.37   | 0.52   | 1.07   | 1.18   | 1.45   | 1.29   | 1.45   | 1.53   | 1.36   | 1.28   | 1.20   | 1.17   | 1.42   | 1.72   | 1.53   | 1.36   | 1.16   | 0.83   | 0.78   | 0.43   |
|        | -14.48 | -15.54 | -12.86 | -9.01  | -6.47  | -9.47  | -5.11  | -6.26  | -5.07  | -8.68  | -2.68  | -2.01  | -2.67  | -3.62  | -4.84  | -7.83  | -8.10  | -3.30  | -7.80  | -6.26  | -6.90  | -11.92 | -9.45  | -14.14 |
| CENTRL | 9.24   | 7.40   | 6.68   | 6.15   | 7.30   | 10.41  | 17.84  | 18.59  | 20.43  | 18.98  | 19.93  | 20.60  | 19.06  | 18.27  | 17.29  | 16.63  | 19.45  | 22.90  | 21.27  | 19.09  | 16.54  | 14.67  | 14.10  | 10.34  |
| 61754  | 0.16   | 0.11   | 0.10   | 0.09   | 0.13   | 0.19   | 0.57   | 0.54   | 0.56   | 0.51   | 0.55   | 0.59   | 0.46   | 0.40   | 0.38   | 0.38   | 0.45   | 0.57   | 0.52   | 0.48   | 0.39   | 0.30   | 0.25   | 0.17   |
|        | -1.73  | -1.86  | -1.54  | -1.08  | -0.77  | -1.13  | -0.61  | -0.77  | -0.61  | -1.04  | -0.25  | -0.20  | -0.25  | -0.36  | -0.50  | -0.89  | -0.97  | -0.29  | -0.91  | -0.66  | -0.69  | -1.42  | -1.13  | -1.70  |
| DUNWOD | 18.60  | 17.27  | 14.89  | 12.00  | 11.67  | 16.81  | 22.00  | 23.69  | 25.13  | 25.70  | 25.18  | 24.62  | 24.38  | 24.20  | 24.21  | 24.24  | 25.91  | 30.03  | 28.63  | 27.02  | 26.12  | 23.41  | 21.21  | 19.49  |
| 61760  | 0.66   | 0.48   | 0.44   | 0.43   | 0.55   | 0.79   | 1.60   | 1.85   | 2.21   | 2.02   | 2.26   | 2.34   | 2.15   | 2.03   | 1.90   | 1.78   | 2.05   | 2.58   | 2.34   | 2.12   | 1.81   | 1.46   | 1.42   | 0.84   |
|        | -10.58 | -11.36 | -9.40  | -6.59  | -4.73  | -6.92  | -3.73  | -4.56  | -3.65  | -6.25  | -3.81  | -2.48  | -3.88  | -4.67  | -5.89  | -7.10  | -5.84  | -5.41  | -6.45  | -6.96  | -8.85  | -9.00  | -7.07  | -10.18 |
| GENESE | 8.71   | 6.84   | 6.20   | 5.79   | 7.02   | 9.99   | 17.51  | 18.21  | 20.02  | 18.48  | 19.58  | 20.33  | 18.79  | 18.00  | 16.97  | 16.18  | 18.90  | 22.45  | 20.71  | 18.73  | 16.17  | 14.05  | 13.56  | 9.76   |
| 61753  | 0.09   | 0.05   | 0.03   | 0.02   | 0.06   | 0.07   | 0.40   | 0.36   | 0.31   | 0.28   | 0.27   | 0.38   | 0.26   | 0.23   | 0.20   | 0.17   | 0.16   | 0.20   | 0.20   | 0.20   | 0.20   | 0.05   | 0.01   | 0.04   |
|        | -1.26  | -1.36  | -1.12  | -0.79  | -0.56  | -0.83  | -0.45  | -0.56  | -0.45  | -0.77  | -0.19  | -0.15  | -0.18  | -0.26  | -0.36  | -0.65  | -0.72  | -0.21  | -0.67  | -0.49  | -0.51  | -1.04  | -0.83  | -1.25  |
| H Q    | 7.12   | 5.27   | 4.90   | 4.85   | 6.20   | 9.52   | 15.31  | 16.64  | 18.55  | 16.79  | 18.40  | 19.05  | 17.69  | 16.89  | 15.84  | 14.81  | 17.39  | 21.25  | 19.13  | 17.29  | 14.88  | 12.49  | 12.26  | 8.23   |
| 61844  | -0.23  | -0.16  | -0.15  | -0.14  | -0.19  | -0.27  | -0.65  | -0.64  | -0.71  | -0.64  | -0.73  | -0.75  | -0.66  | -0.61  | -0.57  | -0.55  | -0.63  | -0.79  | -0.71  | -0.65  | -0.59  | -0.47  | -0.46  | -0.25  |
|        | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -0.70  | 0.70   | 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   |
| HUD VL | 18.49  | 17.18  | 14.81  | 11.94  | 11.60  | 16.70  | 21.85  | 23.49  | 24.83  | 25.36  | 23.85  | 23.74  | 23.03  | 22.78  | 22.61  | 23.12  | 25.53  | 28.05  | 27.78  | 25.35  | 23.72  | 22.81  | 20.72  | 19.18  |
| 61758  | 0.60   | 0.43   | 0.40   | 0.39   | 0.50   | 0.71   | 1.47   | 1.66   | 1.98   | 1.80   | 1.97   | 2.04   | 1.89   | 1.77   | 1.66   | 1.55   | 1.78   | 2.27   | 2.04   | 1.85   | 1.58   | 1.24   | 1.21   | 0.71   |
|        | -10.55 | -11.32 | -9.37  | -6.56  | -4.71  | -6.90  | -3.72  | -4.55  | -3.58  | -6.13  | -2.76  | -1.90  | -2.80  | -3.51  | -4.54  | -6.21  | -5.73  | -3.74  | -5.90  | -5.56  | -6.67  | -8.61  | -6.80  | -9.99  |
| LONGIL | 33.63  | 25.70  | 25.68  | 24.00  | 24.50  | 31.57  | 31.51  | 36.26  | 38.66  | 38.36  | 39.15  | 41.07  | 36.98  | 34.58  | 35.00  | 36.71  | 43.81  | 46.72  | 45.59  | 43.19  | 40.91  | 39.24  | 32.49  | 25.57  |
| 61762  | 1.03   | 0.75   | 0.69   | 0.67   | 0.86   | 1.25   | 2.47   | 2.71   | 3.14   | 2.88   | 3.06   | 3.17   | 2.90   | 2.78   | 2.61   | 2.44   | 2.90   | 3.59   | 3.25   | 2.91   | 2.47   | 2.03   | 2.06   | 1.26   |
|        | -25.25 | -19.52 | -19.95 | -18.35 | -17.25 | -21.23 | -12.38 | -16.26 | -16.26 | -18.05 | -16.97 | -18.10 | -15.74 | -14.29 | -15.98 | -18.91 | -22.89 | -21.09 | -22.50 | -22.35 | -22.97 | -24.25 | -17.72 | -15.83 |
| MHK VL | 9.43   | 7.59   | 6.85   | 6.27   | 7.38   | 10.56  | 17.84  | 18.72  | 20.59  | 19.11  | 20.07  | 20.71  | 19.31  | 18.54  | 17.53  | 16.82  | 19.72  | 23.22  | 21.60  | 19.29  | 16.69  | 14.83  | 14.29  | 10.46  |
| 61756  | 0.17   | 0.12   | 0.11   | 0.10   | 0.14   | 0.22   | 0.50   | 0.62   | 0.69   | 0.59   | 0.69   | 0.69   | 0.70   | 0.67   | 0.61   | 0.54   | 0.68   | 0.88   | 0.81   | 0.66   | 0.51   | 0.40   | 0.41   | 0.23   |
|        | -1.90  | -2.04  | -1.69  | -1.19  | -0.85  | -1.25  | -0.67  | -0.82  | -0.63  | -1.08  | -0.26  | -0.21  | -0.26  | -0.37  | -0.51  | -0.92  | -1.01  | -0.30  | -0.94  | -0.69  | -0.72  | -1.47  | -1.17  | -1.76  |
| MILLWD | 18.73  | 17.44  | 15.02  | 12.09  | 11.72  | 16.87  | 22.02  | 23.86  | 25.36  | 25.88  | 24.73  | 24.37  | 23.90  | 23.68  | 23.61  | 23.94  | 26.10  | 29.45  | 28.54  | 26.46  | 25.17  | 23.46  | 21.23  | 19.64  |
| 61759  | 0.65   | 0.49   | 0.44   | 0.43   | 0.54   | 0.75   | 1.57   | 1.95   | 2.37   | 2.07   | 2.27   | 2.34   | 2.16   | 2.01   | 1.89   | 1.77   | 2.13   | 2.78   | 2.36   | 2.13   | 1.81   | 1.45   | 1.39   | 0.79   |
|        | -10.73 | -11.52 | -9.54  | -6.68  | -4.79  | -7.02  | -3.79  | -4.62  | -3.72  | -6.37  | -3.34  | -2.23  | -3.39  | -4.16  | -5.31  | -6.82  | -5.95  | -4.64  | -6.33  | -6.39  | -7.89  | -9.05  | -7.13  | -10.38 |
| N.Y.C. | 18.66  | 17.32  | 14.93  | 12.04  | 11.71  | 16.86  | 22.12  | 23.81  | 25.24  | 25.84  | 25.32  | 25.00  | 24.81  | 24.58  | 24.39  | 24.58  | 26.10  | 30.17  | 28.75  | 27.11  | 26.22  | 23.52  | 21.32  | 19.56  |
| 61761  | 0.73   | 0.53   | 0.48   | 0.47   | 0.59   | 0.85   | 1.72   | 1.97   | 2.33   | 2.16   | 2.39   | 2.50   | 2.27   | 2.17   | 2.02   | 1.89   | 2.20   | 2.71   | 2.46   | 2.21   | 1.90   | 1.57   | 1.54   | 0.91   |
|        | -10.58 | -11.36 | -9.40  | -6.59  | -4.73  | -6.92  | -3.73  | -4.56  | -3.65  | -6.25  | -3.81  | -2.70  | -4.19  | -4.90  | -5.96  | -7.33  | -5.88  | -5.42  | -6.44  | -6.97  | -8.85  | -9.00  | -7.06  | -10.18 |
| NORTH  | 7.03   | 5.21   | 4.85   | 4.80   | 6.12   | 8.72   | 15.68  | 16.33  | 18.23  | 16.47  | 18.07  | 18.66  | 17.47  | 16.68  | 15.64  | 14.58  | 17.19  | 20.98  | 18.87  | 17.04  | 14.57  | 12.23  | 12.01  | 8.13   |
| 61755  | -0.32  | -0.22  | -0.20  | -0.18  | -0.27  | -0.37  | -0.98  | -0.95  | -1.04  | -0.96  | -1.05  | -1.15  | -0.88  | -0.82  | -0.77  | -0.78  | -0.83  | -1.06  | -0.97  | -0.90  | -0.90  | -0.73  | -0.71  | -0.34  |
|        | 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    | 22.26  | 19.30  | 18.65  | 19.19  | 20.20  | 23.09  | 25.60  | 29.80  | 31.60  | 30.80  | 30.40  | 30.00  | 30.00  | 27.20  | 27.58  | 27.59  | 33.70  | 35.10  | 34.39  | 30.04  | 28.21  | 24.40  | 22.63  | 21.23  |
| 61845  | 0.53   | 0.39   | 0.36   | 0.35   | 0.45   | 0.65   | 1.30   | 1.47   | 1.75   | 1.60   | 1.74   | 1.80   | 1.65   | 1.58   | 1.48   | 1.38   | 1.60   | 1.98   | 1.79   | 1.62   | 1.39   | 1.09   | 1.08   | 0.63   |
|        | -14.38 | -13.48 | -13.25 | -13.85 | -13.35 | -13.35 | -7.63  | -11.05 | -10.58 | -11.76 | -9.54  | -8.39  | -10.00 | -8.12  | -9.69  | -10.85 | -14.07 | -11.08 | -12.76 | -10.49 | -11.35 | -10.36 | -8.83  | -12.13 |

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OH<br>61846   | 9.03  | 7.21  | 6.51  | 6.00  | 7.15  | 10.83 | 16.00 | 18.06 | 19.83 | 18.44 | 19.38 | 20.02 | 18.39 | 17.64 | 16.67 | 16.04 | 18.70 | 22.01 | 20.41 | 18.43 | 15.97 | 14.09 | 13.55 | 10.00 |
|               | 0.03  | 0.02  | 0.00  | -0.01 | 0.03  | -0.05 | 0.13  | 0.05  | -0.02 | 0.02  | 0.02  | 0.02  | -0.20 | -0.21 | -0.21 | -0.17 | -0.25 | -0.31 | -0.30 | -0.14 | -0.15 | -0.22 | -0.24 | -0.09 |
|               | -1.65 | -1.77 | -1.46 | -1.03 | -0.74 | -1.78 | 0.80  | -0.73 | -0.58 | -0.99 | -0.24 | -0.19 | -0.24 | -0.34 | -0.47 | -0.85 | -0.93 | -0.27 | -0.87 | -0.63 | -0.66 | -1.35 | -1.07 | -1.62 |
| PJM<br>61847  | 14.20 | 12.66 | 11.04 | 9.25  | 9.60  | 14.45 | 19.20 | 21.14 | 22.64 | 22.28 | 22.79 | 22.66 | 21.89 | 21.46 | 21.04 | 20.61 | 22.52 | 26.77 | 24.87 | 23.37 | 21.96 | 19.05 | 17.62 | 14.96 |
|               | 0.37  | 0.27  | 0.24  | 0.23  | 0.31  | 0.41  | 0.95  | 1.05  | 1.19  | 1.12  | 1.24  | 1.29  | 1.06  | 1.00  | 0.92  | 0.89  | 1.01  | 1.26  | 1.11  | 1.08  | 0.90  | 0.69  | 0.66  | 0.41  |
|               | -6.48 | -6.96 | -5.76 | -4.03 | -2.89 | -4.94 | -1.58 | -2.80 | -2.18 | -3.73 | -2.43 | -1.56 | -2.48 | -2.96 | -3.71 | -4.36 | -3.48 | -3.48 | -3.92 | -4.36 | -5.60 | -5.40 | -4.24 | -6.08 |
| WEST<br>61752 | 9.16  | 7.30  | 6.59  | 6.08  | 7.28  | 10.32 | 17.89 | 18.58 | 20.44 | 19.00 | 19.99 | 20.67 | 18.95 | 18.16 | 17.13 | 16.45 | 19.20 | 22.62 | 20.94 | 18.91 | 16.32 | 14.35 | 13.80 | 10.16 |
|               | 0.18  | 0.12  | 0.10  | 0.08  | 0.16  | 0.16  | 0.65  | 0.57  | 0.60  | 0.57  | 0.63  | 0.67  | 0.37  | 0.32  | 0.25  | 0.24  | 0.25  | 0.31  | 0.24  | 0.34  | 0.20  | 0.05  | 0.01  | 0.07  |
|               | -1.63 | -1.75 | -1.45 | -1.01 | -0.73 | -1.07 | -0.57 | -0.73 | -0.58 | -0.99 | -0.24 | -0.19 | -0.24 | -0.34 | -0.47 | -0.84 | -0.93 | -0.27 | -0.86 | -0.63 | -0.66 | -1.35 | -1.07 | -1.62 |