

# Day Ahead Market Zonal LBMP

| Zonal Data |  | --- LBMP \$ |        |        |        |        |        |        |        |        |        | --- Marginal Cost of Losses |       |       |       |       |       |       |       |       |       | --- Marginal Cost of Congestion |       |       |        |  |  |  |  |  |  | 08/15/2004 |  |
|------------|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------------|-------|-------|--------|--|--|--|--|--|--|------------|--|
| 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     |  | 36.56       | 33.83  | 29.41  | 26.37  | 24.86  | 24.27  | 26.02  | 30.25  | 34.59  | 43.46  | 49.82                       | 51.76 | 52.47 | 53.23 | 53.19 | 54.55 | 54.61 | 55.36 | 55.06 | 51.37 | 59.10                           | 57.30 | 48.81 | 39.37  |  |  |  |  |  |  |            |  |
| 61757      |  | 2.06        | 1.83   | 1.43   | 1.27   | 1.14   | 1.12   | 1.09   | 1.21   | 1.66   | 2.09   | 2.42                        | 2.26  | 2.32  | 2.35  | 2.38  | 2.56  | 2.55  | 2.69  | 2.64  | 2.40  | 2.86                            | 3.02  | 2.63  | 2.17   |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.05 | -0.12 | -0.79 | -0.59 | 0.00  | -4.30                           | -2.24 | 0.00  | 0.00   |  |  |  |  |  |  |            |  |
| CENTRL     |  | 32.92       | 30.47  | 26.55  | 23.94  | 22.73  | 22.26  | 23.79  | 27.53  | 31.55  | 39.75  | 45.54                       | 47.70 | 48.36 | 48.72 | 48.63 | 49.88 | 49.89 | 49.79 | 49.61 | 46.79 | 50.26                           | 50.35 | 44.42 | 35.54  |  |  |  |  |  |  |            |  |
| 61754      |  | -1.58       | -1.53  | -1.43  | -1.16  | -0.99  | -0.89  | -1.14  | -1.51  | -1.38  | -1.62  | -1.86                       | -1.80 | -1.79 | -2.16 | -2.18 | -2.06 | -2.06 | -2.16 | -2.27 | -2.18 | -2.06                           | -1.90 | -1.76 | -1.66  |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.01 | -0.07 | -0.05 | 0.00  | -0.38                           | -0.21 | 0.00  | 0.00   |  |  |  |  |  |  |            |  |
| DUNWOD     |  | 37.43       | 34.53  | 29.97  | 26.83  | 25.33  | 24.68  | 26.72  | 31.45  | 36.06  | 45.34  | 52.00                       | 54.15 | 54.81 | 56.27 | 56.25 | 57.80 | 57.79 | 58.40 | 58.14 | 54.36 | 61.27                           | 59.70 | 50.80 | 40.87  |  |  |  |  |  |  |            |  |
| 61760      |  | 2.93        | 2.53   | 1.99   | 1.73   | 1.61   | 1.53   | 1.79   | 2.41   | 3.13   | 3.97   | 4.60                        | 4.65  | 4.66  | 5.39  | 5.44  | 5.82  | 5.76  | 5.91  | 5.86  | 5.39  | 6.02                            | 5.93  | 4.62  | 3.24   |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.04 | -0.09 | -0.61 | -0.45 | 0.00  | -3.31                           | -1.73 | 0.00  | -0.43  |  |  |  |  |  |  |            |  |
| GENESE     |  | 32.22       | 29.83  | 25.97  | 23.33  | 22.14  | 21.82  | 23.19  | 26.72  | 30.54  | 38.21  | 43.38                       | 45.68 | 46.36 | 46.11 | 46.05 | 47.19 | 47.19 | 47.03 | 46.91 | 44.31 | 47.33                           | 47.85 | 42.94 | 34.71  |  |  |  |  |  |  |            |  |
| 61753      |  | -2.28       | -2.17  | -2.01  | -1.77  | -1.58  | -1.33  | -1.74  | -2.32  | -2.39  | -3.16  | -4.02                       | -3.82 | -3.79 | -4.77 | -4.76 | -4.75 | -4.76 | -4.92 | -4.97 | -4.66 | -4.99                           | -4.42 | -3.24 | -2.49  |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.01 | -0.07 | -0.05 | 0.00  | -0.38                           | -0.23 | 0.00  | 0.00   |  |  |  |  |  |  |            |  |
| H Q        |  | 34.09       | 31.68  | 27.87  | 25.00  | 23.63  | 23.06  | 26.63  | 29.99  | 32.50  | 40.79  | 46.74                       | 48.81 | 49.45 | 50.12 | 50.00 | 50.95 | 50.95 | 50.95 | 50.95 | 48.24 | 50.95                           | 50.95 | 45.44 | 36.79  |  |  |  |  |  |  |            |  |
| 61844      |  | -0.41       | -0.32  | -0.11  | -0.10  | -0.09  | -0.09  | -0.07  | -0.03  | -0.43  | -0.58  | -0.66                       | -0.69 | -0.70 | -0.76 | -0.81 | -0.99 | -0.99 | -0.93 | -0.88 | -0.73 | -0.99                           | -1.09 | -0.74 | -0.41  |  |  |  |  |  |  |            |  |
|            |  | 0.00        | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | -1.77  | -0.98  | 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     |  | 36.81       | 33.97  | 29.50  | 26.43  | 24.94  | 24.31  | 26.37  | 31.12  | 35.70  | 44.86  | 51.49                       | 53.67 | 54.31 | 55.83 | 55.81 | 57.34 | 57.36 | 57.88 | 57.63 | 53.88 | 60.72                           | 59.07 | 50.20 | 39.79  |  |  |  |  |  |  |            |  |
| 61758      |  | 2.31        | 1.97   | 1.52   | 1.33   | 1.22   | 1.16   | 1.44   | 2.08   | 2.77   | 3.49   | 4.09                        | 4.17  | 4.16  | 4.95  | 5.00  | 5.36  | 5.33  | 5.40  | 5.35  | 4.91  | 5.51                            | 5.32  | 4.02  | 2.59   |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.04 | -0.09 | -0.60 | -0.45 | 0.00  | -3.27                           | -1.71 | 0.00  | 0.00   |  |  |  |  |  |  |            |  |
| LONGIL     |  | 54.89       | 52.15  | 50.77  | 50.02  | 49.53  | 48.25  | 50.38  | 54.03  | 55.65  | 56.94  | 58.42                       | 58.98 | 61.49 | 62.25 | 62.51 | 62.96 | 64.12 | 64.56 | 62.45 | 61.94 | 63.96                           | 63.72 | 58.98 | 58.30  |  |  |  |  |  |  |            |  |
| 61762      |  | 3.58        | 3.14   | 2.54   | 2.27   | 2.11   | 2.03   | 2.29   | 2.93   | 3.70   | 4.68   | 5.24                        | 5.18  | 5.20  | 5.98  | 6.04  | 6.42  | 6.39  | 6.56  | 6.49  | 5.94  | 6.62                            | 6.65  | 5.15  | 3.85   |  |  |  |  |  |  |            |  |
|            |  | -16.81      | -17.01 | -20.25 | -22.65 | -23.70 | -23.07 | -23.16 | -22.06 | -19.02 | -10.89 | -5.78                       | -4.30 | -6.14 | -5.39 | -5.66 | -4.60 | -5.79 | -6.12 | -4.13 | -7.03 | -5.40                           | -5.03 | -7.65 | -17.25 |  |  |  |  |  |  |            |  |
| MHK VL     |  | 34.69       | 32.16  | 28.08  | 25.19  | 23.80  | 23.24  | 25.03  | 28.80  | 32.79  | 41.43  | 47.50                       | 49.65 | 50.33 | 50.86 | 50.76 | 51.94 | 51.94 | 51.90 | 51.81 | 48.92 | 52.24                           | 52.30 | 46.50 | 37.43  |  |  |  |  |  |  |            |  |
| 61756      |  | 0.19        | 0.16   | 0.10   | 0.09   | 0.08   | 0.09   | 0.10   | -0.24  | -0.14  | 0.06   | 0.10                        | 0.15  | 0.18  | -0.02 | -0.05 | 0.00  | 0.00  | 0.00  | -0.03 | -0.05 | 0.21                            | 0.21  | 0.32  | 0.23   |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.02 | -0.01 | 0.00  | -0.09                           | -0.05 | 0.00  | 0.00   |  |  |  |  |  |  |            |  |
| MILLWD     |  | 36.95       | 34.08  | 29.57  | 26.49  | 25.00  | 24.36  | 26.39  | 31.06  | 35.61  | 44.74  | 51.36                       | 53.48 | 54.13 | 55.58 | 55.56 | 57.06 | 57.09 | 57.64 | 57.43 | 53.69 | 60.50                           | 58.94 | 50.17 | 40.26  |  |  |  |  |  |  |            |  |
| 61759      |  | 2.45        | 2.08   | 1.59   | 1.39   | 1.28   | 1.21   | 1.46   | 2.02   | 2.68   | 3.37   | 3.96                        | 3.98  | 3.98  | 4.70  | 4.75  | 5.08  | 5.06  | 5.16  | 5.15  | 4.72  | 5.29                            | 5.20  | 3.99  | 2.72   |  |  |  |  |  |  |            |  |
|            |  | 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  | -0.04 | -0.09 | -0.60 | -0.45 | 0.00  | -3.27                           | -1.70 | 0.00  | -0.34  |  |  |  |  |  |  |            |  |
| N.Y.C.     |  | 37.89       | 34.95  | 30.31  | 27.16  | 25.62  | 24.98  | 27.02  | 31.78  | 36.45  | 45.87  | 52.57                       | 54.66 | 55.31 | 59.02 | 58.99 | 60.29 | 60.52 | 60.69 | 60.08 | 56.33 | 61.92                           | 60.94 | 54.75 | 55.77  |  |  |  |  |  |  |            |  |
| 61761      |  | 3.39        | 2.95   | 2.33   | 2.06   | 1.90   | 1.83   | 2.09   | 2.74   | 3.52   | 4.50   | 5.17                        | 5.16  | 5.15  | 5.91  | 5.97  | 6.28  | 6.23  | 6.50  | 6.52  | 5.94  | 6.66                            | 6.62  | 5.25  | 3.73   |  |  |  |  |  |  |            |  |
|            |  | 0.00        | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                        | 0.00  | -0.01 | -2.23 | -2.21 | -2.07 | -2.35 | -2.31 | -1.73 | -1.42 | -3.32                           | -2.28 | -3.32 | -14.84 |  |  |  |  |  |  |            |  |
| NORTH      |  | 33.62       | 31.30  | 27.59  | 24.74  | 23.35  | 22.77  | 24.61  | 28.69  | 32.11  | 40.23  | 46.14                       | 48.19 | 48.82 | 49.44 | 49.32 | 50.26 | 50.26 | 50.30 | 50.25 | 47.57 | 50.42                           | 50.36 | 44.89 | 36.33  |  |  |  |  |  |  |            |  |
| 61755      |  | -0.88       | -0.70  | -0.39  | -0.36  | -0.37  | -0.38  | -0.32  | -0.35  | -0.82  | -1.14  | -1.26                       | -1.31 | -1.33 | -1.44 | -1.49 | -1.68 | -1.68 | -1.58 | -1.58 | -1.40 | -1.52                           | -1.68 | -1.29 | -0.87  |  |  |  |  |  |  |            |  |
|            |  | 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        |  | 36.67       | 33.89  | 29.46  | 26.41  | 24.91  | 24.28  | 25.46  | 31.62  | 35.07  | 44.06  | 50.53                       | 52.62 | 53.26 | 54.39 | 54.37 | 55.78 | 55.79 | 56.40 | 56.10 | 52.40 | 59.72                           | 57.99 | 49.32 | 39.51  |  |  |  |  |  |  |            |  |
| 61845      |  | 2.17        | 1.89   | 1.48   | 1.31   | 1.19   | 1.13   | 1.27   | 1.60   | 2.14   | 2.69   | 3.13                        | 3.12  | 3.11  | 3.51  | 3.56  | 3.79  | 3.74  | 3.79  | 3.73  | 3.43  | 3.84                            | 3.90  | 3.14  | 2.31   |  |  |  |  |  |  |            |  |
|            |  | 0.00        | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.74   | -0.98  | 0.00   | 0.00   | 0.00                        | 0.00  | 0.00  | 0.00  | 0.00  | -0.05 | -0.11 | -0.73 | -0.54 | 0.00  | -3.94                           | -2.05 | 0.00  | 0.00   |  |  |  |  |  |  |            |  |

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OH<br>61846   | 27.16 | 26.85 | 22.99 | 20.99 | 20.54 | 20.37 | 20.70 | 25.52 | 28.22 | 35.00 | 39.77 | 41.78 | 42.43 | 42.43 | 42.43 | 43.42 | 43.42 | 43.16 | 43.11 | 40.89 | 43.07 | 43.54 | 39.12 | 31.73 |
|               | -4.83 | -4.61 | -4.14 | -3.56 | -3.18 | -2.78 | -3.49 | -4.50 | -4.71 | -6.37 | -7.63 | -7.72 | -7.72 | -8.45 | -8.38 | -8.52 | -8.52 | -8.72 | -8.71 | -8.08 | -8.83 | -8.48 | -7.06 | -5.47 |
|               | 2.51  | 0.54  | 0.85  | 0.55  | 0.00  | 0.00  | 0.74  | -0.98 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.01  | 0.00  | 0.04  | 0.02  | 0.00  | 0.00  |
| PJM<br>61847  | 30.22 | 28.00 | 23.98 | 21.74 | 20.85 | 20.60 | 21.17 | 27.00 | 30.72 | 38.56 | 43.94 | 46.13 | 46.89 | 46.96 | 46.90 | 48.83 | 48.90 | 48.19 | 47.18 | 44.51 | 49.10 | 49.25 | 41.42 | 32.85 |
|               | -4.28 | -4.00 | -4.00 | -3.36 | -2.87 | -2.55 | -3.02 | -3.02 | -2.21 | -2.81 | -3.46 | -3.37 | -3.26 | -3.92 | -3.91 | -3.12 | -3.06 | -3.79 | -4.72 | -4.46 | -3.38 | -3.07 | -4.76 | -4.35 |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.74  | -0.98 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -0.02 | -0.10 | -0.07 | 0.00  | -0.54 | -0.28 | 0.00  | 0.00  |
| WEST<br>61752 | 29.85 | 27.56 | 23.90 | 21.62 | 20.65 | 20.49 | 21.57 | 24.86 | 28.78 | 35.69 | 40.56 | 42.68 | 43.32 | 43.32 | 43.30 | 44.48 | 44.51 | 44.13 | 43.90 | 41.57 | 44.28 | 44.64 | 39.58 | 32.01 |
|               | -4.65 | -4.44 | -4.08 | -3.48 | -3.07 | -2.66 | -3.36 | -4.18 | -4.15 | -5.68 | -6.84 | -6.82 | -6.83 | -7.56 | -7.51 | -7.46 | -7.44 | -7.77 | -7.94 | -7.40 | -7.76 | -7.42 | -6.60 | -5.19 |
|               | 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  | -0.01 | -0.02 | -0.01 | 0.00  | -0.10 | -0.02 | 0.00  | 0.00  |