

# Day Ahead Market Zonal LBMP

| Zonal Data |       | --- LBMP \$ |       |       |       |       |       |       |        |        |        | --- Marginal Cost of Losses |        |        |        |        |        |        |        |        |        | --- Marginal Cost of Congestion |       |        |       |  |  |  |  |  |  | 11/29/2002 |  |
|------------|-------|-------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------|-------|--------|-------|--|--|--|--|--|--|------------|--|
| Name       | PTID  | 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 |  |  |  |  |  |  |            |  |
| CAPITL     | 61757 | 26.29       | 24.29 | 23.86 | 21.73 | 22.42 | 23.88 | 35.59 | 33.71  | 36.00  | 39.11  | 39.06                       | 39.44  | 38.83  | 38.47  | 38.33  | 38.54  | 41.29  | 49.79  | 46.47  | 42.77  | 40.24                           | 39.42 | 32.53  | 28.49 |  |  |  |  |  |  |            |  |
|            |       | 0.48        | 0.50  | 0.54  | 0.48  | 0.49  | 0.50  | 0.60  | 0.75   | 0.88   | 0.99   | 1.03                        | 1.09   | 1.05   | 1.04   | 1.03   | 0.97   | 1.09   | 1.86   | 1.69   | 1.45   | 1.17                            | 1.17  | 0.85   | 0.65  |  |  |  |  |  |  |            |  |
|            |       | 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   |       |  |  |  |  |  |  |            |  |
| CENTRL     | 61754 | 24.64       | 22.69 | 22.25 | 20.27 | 20.94 | 22.38 | 33.32 | 31.43  | 33.52  | 36.44  | 36.41                       | 36.65  | 36.13  | 35.70  | 35.60  | 35.97  | 38.55  | 46.48  | 43.41  | 39.53  | 37.28                           | 36.60 | 30.36  | 26.61 |  |  |  |  |  |  |            |  |
|            |       | -1.17       | -1.10 | -1.07 | -0.98 | -0.99 | -1.00 | -1.67 | -1.53  | -1.60  | -1.68  | -1.62                       | -1.70  | -1.65  | -1.73  | -1.70  | -1.60  | -1.65  | -1.45  | -1.37  | -1.79  | -1.79                           | -1.65 | -1.32  | -1.23 |  |  |  |  |  |  |            |  |
|            |       | 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   | 0.00   | 0.00   | 0.00   | 0.00                            | 0.00  | 0.00   |       |  |  |  |  |  |  |            |  |
| DUNWOD     | 61760 | 27.41       | 25.17 | 24.67 | 22.48 | 23.16 | 24.74 | 36.81 | 31.37  | 32.51  | 35.93  | 35.52                       | 36.13  | 35.60  | 35.69  | 35.50  | 35.15  | 38.28  | 47.16  | 44.86  | 41.71  | 38.27                           | 38.55 | 29.87  | 26.46 |  |  |  |  |  |  |            |  |
|            |       | 1.60        | 1.38  | 1.35  | 1.23  | 1.23  | 1.36  | 1.99  | 2.08   | 2.28   | 2.40   | 2.28                        | 2.42   | 2.34   | 2.36   | 2.35   | 2.22   | 2.33   | 3.45   | 3.22   | 3.02   | 2.62                            | 2.68  | 2.09   | 1.78  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.17  | 3.67   | 4.89   | 4.59   | 4.79                        | 4.64   | 4.52   | 4.10   | 4.15   | 4.64   | 4.25   | 4.22   | 3.14   | 2.63   | 3.42                            | 2.38  | 3.90   | 3.16  |  |  |  |  |  |  |            |  |
| GENESE     | 61753 | 23.86       | 22.04 | 21.62 | 19.75 | 20.42 | 21.77 | 32.19 | 30.18  | 32.08  | 34.98  | 35.10                       | 35.12  | 34.64  | 34.12  | 34.02  | 34.68  | 37.26  | 45.01  | 42.01  | 37.74  | 35.58                           | 35.13 | 29.38  | 25.65 |  |  |  |  |  |  |            |  |
|            |       | -1.95       | -1.75 | -1.70 | -1.50 | -1.51 | -1.61 | -2.80 | -2.78  | -3.04  | -3.14  | -2.93                       | -3.23  | -3.14  | -3.31  | -3.28  | -2.89  | -2.94  | -2.92  | -2.77  | -3.58  | -3.49                           | -3.12 | -2.30  | -2.19 |  |  |  |  |  |  |            |  |
|            |       | 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   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                            | 0.00  | 0.00   |       |  |  |  |  |  |  |            |  |
| H Q        | 61844 | 25.99       | 23.96 | 23.44 | 21.36 | 22.04 | 23.50 | 31.37 | 37.23  | 35.44  | 38.46  | 38.33                       | 38.66  | 38.08  | 37.77  | 37.64  | 37.91  | 40.56  | 47.74  | 44.65  | 41.49  | 39.38                           | 38.40 | 35.74  | 24.14 |  |  |  |  |  |  |            |  |
|            |       | 0.18        | 0.17  | 0.12  | 0.11  | 0.11  | 0.12  | 0.42  | 0.33   | 0.32   | 0.34   | 0.30                        | 0.31   | 0.30   | 0.34   | 0.34   | 0.34   | 0.36   | -0.19  | -0.13  | 0.17   | 0.31                            | 0.15  | 0.13   | 0.17  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 4.04  | -3.94  | 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  | -3.93  | 3.87  |  |  |  |  |  |  |            |  |
| HUD VL     | 61758 | 27.21       | 24.99 | 24.49 | 22.32 | 22.99 | 24.55 | 36.65 | 33.90  | 35.96  | 39.03  | 38.74                       | 39.25  | 38.61  | 38.46  | 38.29  | 38.26  | 41.07  | 49.80  | 46.72  | 43.39  | 40.57                           | 40.02 | 32.59  | 28.65 |  |  |  |  |  |  |            |  |
|            |       | 1.40        | 1.20  | 1.17  | 1.07  | 1.06  | 1.17  | 1.70  | 1.81   | 2.00   | 2.00   | 1.85                        | 2.00   | 1.90   | 2.00   | 1.98   | 1.79   | 1.88   | 2.87   | 2.69   | 2.69   | 2.31                            | 2.34  | 1.84   | 1.56  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.04  | 0.87   | 1.16   | 1.09   | 1.14                        | 1.10   | 1.07   | 0.97   | 0.99   | 1.10   | 1.01   | 1.00   | 0.75   | 0.62   | 0.81                            | 0.57  | 0.93   | 0.75  |  |  |  |  |  |  |            |  |
| LONGIL     | 61762 | 28.07       | 25.75 | 25.17 | 22.93 | 23.66 | 25.36 | 41.58 | 42.36  | 46.64  | 49.36  | 49.50                       | 49.74  | 48.93  | 47.83  | 47.71  | 48.45  | 50.83  | 64.84  | 74.53  | 74.60  | 55.33                           | 49.05 | 41.74  | 39.80 |  |  |  |  |  |  |            |  |
|            |       | 2.26        | 1.96  | 1.85  | 1.68  | 1.73  | 1.98  | 2.84  | 2.67   | 2.66   | 2.91   | 2.79                        | 2.97   | 2.96   | 2.96   | 2.89   | 2.47   | 2.92   | 4.52   | 4.19   | 3.86   | 3.43                            | 3.51  | 2.84   | 2.48  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -3.75 | -6.73  | -8.86  | -8.33  | -8.68                       | -8.42  | -8.19  | -7.44  | -7.52  | -8.41  | -7.71  | -12.39 | -25.56 | -29.42 | -12.83                          | -7.29 | -7.22  | -9.48 |  |  |  |  |  |  |            |  |
| MHK VL     | 61756 | 25.89       | 23.84 | 23.35 | 21.27 | 21.96 | 23.44 | 35.15 | 33.10  | 35.29  | 38.34  | 38.25                       | 38.55  | 37.95  | 37.58  | 37.45  | 37.74  | 40.51  | 48.45  | 45.33  | 41.74  | 39.41                           | 38.52 | 31.86  | 27.97 |  |  |  |  |  |  |            |  |
|            |       | 0.08        | 0.05  | 0.03  | 0.02  | 0.03  | 0.06  | 0.16  | 0.14   | 0.17   | 0.22   | 0.22                        | 0.20   | 0.17   | 0.15   | 0.15   | 0.17   | 0.31   | 0.52   | 0.55   | 0.42   | 0.34                            | 0.27  | 0.18   | 0.13  |  |  |  |  |  |  |            |  |
|            |       | 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   |       |  |  |  |  |  |  |            |  |
| MILLWD     | 61759 | 27.12       | 24.91 | 24.41 | 22.25 | 22.92 | 24.48 | 36.48 | 31.87  | 33.30  | 36.57  | 36.21                       | 36.78  | 36.23  | 36.26  | 36.05  | 35.79  | 38.83  | 47.58  | 45.06  | 41.87  | 38.65                           | 38.66 | 30.46  | 26.92 |  |  |  |  |  |  |            |  |
|            |       | 1.31        | 1.12  | 1.09  | 1.00  | 0.99  | 1.10  | 1.62  | 1.70   | 1.90   | 1.95   | 1.83                        | 1.96   | 1.89   | 1.95   | 1.91   | 1.75   | 1.87   | 2.86   | 2.67   | 2.55   | 2.19                            | 2.22  | 1.75   | 1.48  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.13  | 2.79   | 3.72   | 3.50   | 3.65                        | 3.53   | 3.44   | 3.12   | 3.16   | 3.53   | 3.24   | 3.21   | 2.39   | 2.00   | 2.61                            | 1.81  | 2.97   | 2.40  |  |  |  |  |  |  |            |  |
| N.Y.C.     | 61761 | 27.77       | 25.50 | 24.99 | 22.78 | 23.47 | 25.05 | 38.00 | 46.27  | 52.23  | 54.50  | 54.88                       | 54.90  | 53.88  | 52.36  | 52.33  | 53.90  | 55.59  | 64.43  | 57.88  | 52.60  | 52.28                           | 48.42 | 45.66  | 39.28 |  |  |  |  |  |  |            |  |
|            |       | 1.96        | 1.71  | 1.67  | 1.53  | 1.54  | 1.67  | 2.51  | 2.56   | 2.78   | 2.92   | 2.81                        | 2.94   | 2.86   | 2.90   | 2.87   | 2.74   | 2.92   | 4.13   | 3.88   | 3.57   | 3.17                            | 3.18  | 2.55   | 2.18  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.50 | -10.75 | -14.33 | -13.46 | -14.04                      | -13.61 | -13.24 | -12.03 | -12.16 | -13.59 | -12.47 | -12.37 | -9.22  | -7.71  | -10.04                          | -6.99 | -11.43 | -9.26 |  |  |  |  |  |  |            |  |
| NORTH      | 61755 | 26.07       | 24.03 | 23.45 | 21.37 | 22.05 | 23.52 | 35.63 | 33.45  | 35.59  | 38.65  | 38.45                       | 38.77  | 38.20  | 37.91  | 37.77  | 38.05  | 40.85  | 47.80  | 44.73  | 41.65  | 39.56                           | 38.42 | 31.84  | 28.09 |  |  |  |  |  |  |            |  |
|            |       | 0.26        | 0.24  | 0.13  | 0.12  | 0.12  | 0.14  | 0.64  | 0.49   | 0.47   | 0.53   | 0.42                        | 0.42   | 0.42   | 0.48   | 0.47   | 0.48   | 0.65   | -0.13  | -0.05  | 0.33   | 0.49                            | 0.17  | 0.16   | 0.25  |  |  |  |  |  |  |            |  |
|            |       | 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 | 26.69       | 24.65 | 24.18 | 22.04 | 22.72 | 24.22 | 32.03 | 38.09  | 36.45  | 39.53  | 39.40                       | 39.81  | 39.18  | 38.85  | 38.72  | 38.88  | 41.61  | 50.18  | 46.84  | 43.22  | 40.67                           | 39.89 | 36.88  | 25.00 |  |  |  |  |  |  |            |  |
|            |       | 0.88        | 0.86  | 0.86  | 0.79  | 0.79  | 0.84  | 1.08  | 1.19   | 1.33   | 1.41   | 1.37                        | 1.46   | 1.40   | 1.42   | 1.42   | 1.31   | 1.41   | 2.25   | 2.06   | 1.90   | 1.60                            | 1.64  | 1.27   | 1.03  |  |  |  |  |  |  |            |  |
|            |       | 0.00        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 4.04  | -3.94  | 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  | -3.93  | 3.87  |  |  |  |  |  |  |            |  |

|               |                               |                               |                               |                               |                               |                               |                               |                                |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                                |                               |
|---------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|
| H<br>61846    | 23.28<br><i>-2.53</i><br>0.00 | 21.22<br><i>-2.57</i><br>0.00 | 20.85<br><i>-2.47</i><br>0.00 | 19.00<br><i>-2.25</i><br>0.00 | 19.65<br><i>-2.28</i><br>0.00 | 21.07<br><i>-2.31</i><br>0.00 | 26.72<br><i>-4.23</i><br>4.04 | 32.45<br><i>-4.45</i><br>-3.94 | 30.03<br><i>-5.09</i><br>0.00 | 32.71<br><i>-5.41</i><br>0.00 | 32.97<br><i>-5.06</i><br>0.00 | 32.98<br><i>-5.37</i><br>0.00 | 32.60<br><i>-5.18</i><br>0.00 | 32.04<br><i>-5.39</i><br>0.00 | 32.04<br><i>-5.26</i><br>0.00 | 32.69<br><i>-4.88</i><br>0.00 | 34.89<br><i>-5.31</i><br>0.00 | 42.51<br><i>-5.42</i><br>0.00 | 39.72<br><i>-5.06</i><br>0.00 | 35.04<br><i>-6.28</i><br>0.00 | 33.05<br><i>-6.02</i><br>0.00 | 33.05<br><i>-5.20</i><br>0.00 | 32.00<br><i>-3.61</i><br>-3.93 | 20.55<br><i>-3.42</i><br>3.87 |
| PJM<br>61847  | 20.00<br><i>-2.79</i><br>3.02 | 21.32<br><i>-2.47</i><br>0.00 | 20.89<br><i>-2.43</i><br>0.00 | 19.02<br><i>-2.23</i><br>0.00 | 19.69<br><i>-2.24</i><br>0.00 | 21.32<br><i>-2.06</i><br>0.00 | 27.00<br><i>-3.95</i><br>4.04 | 33.31<br><i>-3.59</i><br>-3.94 | 31.22<br><i>-3.90</i><br>0.00 | 34.00<br><i>-4.12</i><br>0.00 | 34.00<br><i>-4.03</i><br>0.00 | 34.00<br><i>-4.26</i><br>0.09 | 34.00<br><i>-3.78</i><br>0.00 | 33.50<br><i>-3.93</i><br>0.00 | 33.46<br><i>-3.84</i><br>0.00 | 34.00<br><i>-3.57</i><br>0.00 | 36.06<br><i>-4.14</i><br>0.00 | 44.86<br><i>-3.07</i><br>0.00 | 41.96<br><i>-2.82</i><br>0.00 | 36.00<br><i>-5.00</i><br>0.32 | 34.00<br><i>-4.88</i><br>0.19 | 34.00<br><i>-4.25</i><br>0.00 | 25.00<br><i>-3.29</i><br>3.39  | 20.00<br><i>-3.26</i><br>4.58 |
| WEST<br>61752 | 23.39<br><i>-2.42</i><br>0.00 | 21.37<br><i>-2.42</i><br>0.00 | 20.98<br><i>-2.34</i><br>0.00 | 19.10<br><i>-2.15</i><br>0.00 | 19.77<br><i>-2.16</i><br>0.00 | 21.24<br><i>-2.14</i><br>0.00 | 30.98<br><i>-4.01</i><br>0.00 | 28.79<br><i>-4.17</i><br>0.00  | 30.36<br><i>-4.76</i><br>0.00 | 33.16<br><i>-4.96</i><br>0.00 | 33.43<br><i>-4.60</i><br>0.00 | 33.45<br><i>-4.90</i><br>0.00 | 33.14<br><i>-4.64</i><br>0.00 | 32.51<br><i>-4.92</i><br>0.00 | 32.51<br><i>-4.79</i><br>0.00 | 33.22<br><i>-4.35</i><br>0.00 | 35.49<br><i>-4.71</i><br>0.00 | 43.49<br><i>-4.44</i><br>0.00 | 40.64<br><i>-4.14</i><br>0.00 | 35.43<br><i>-5.89</i><br>0.00 | 33.38<br><i>-5.69</i><br>0.00 | 33.36<br><i>-4.89</i><br>0.00 | 28.25<br><i>-3.43</i><br>0.00  | 24.55<br><i>-3.29</i><br>0.00 |