

# Time Weighted/Integrated Real Time LBMP - Zonal

|            |       | --- Marginal Cost of Losses |        |        |        |        |        |        |        |       |       | --- Marginal Cost of Congestion |       |       |        |        |        |        |        |        |        | 02/12/2023 |       |       |       |
|------------|-------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|---------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|------------|-------|-------|-------|
| Zonal Data |       |                             |        |        |        |        |        |        |        |       |       |                                 |       |       |        |        |        |        |        |        |        |            |       |       |       |
| 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 | 26.26                       | 29.50  | 29.19  | 33.34  | 28.52  | 30.71  | 34.55  | 34.06  | 25.00 | 22.03 | 22.30                           | 21.37 | 22.14 | 21.50  | 27.00  | 41.60  | 49.67  | 50.05  | 52.39  | 60.11  | 38.13      | 25.18 | 23.77 | 22.95 |
|            |       | 0.96                        | 0.64   | 0.55   | 0.30   | 0.59   | 0.54   | 0.45   | 0.80   | 1.01  | 1.23  | 1.21                            | 1.13  | 1.18  | 1.13   | 0.89   | 0.13   | 0.63   | 1.48   | 0.70   | 2.55   | 2.30       | 1.46  | 1.36  | 1.27  |
|            |       | -8.16                       | -17.56 | -18.86 | -27.83 | -17.39 | -20.85 | -26.45 | -20.00 | -6.74 | -0.31 | 0.00                            | 0.00  | 0.00  | -0.83  | -10.95 | -39.51 | -39.45 | -26.46 | -40.86 | -18.79 | 0.00       | 0.00  | 0.00  | 0.00  |
| CENTRL     | 61754 | 20.77                       | 15.10  | 13.79  | 8.77   | 12.96  | 11.78  | 10.72  | 15.73  | 18.25 | 20.79 | 21.27                           | 20.35 | 21.05 | 19.67  | 16.37  | 6.26   | 13.98  | 25.30  | 15.54  | 41.31  | 36.28      | 23.95 | 22.64 | 21.85 |
|            |       | 0.21                        | 0.14   | 0.12   | 0.08   | 0.17   | 0.15   | 0.13   | 0.21   | 0.26  | 0.26  | 0.18                            | 0.12  | 0.08  | 0.04   | 0.05   | 0.01   | 0.07   | 0.24   | 0.14   | 0.44   | 0.45       | 0.23  | 0.23  | 0.17  |
|            |       | -3.42                       | -3.66  | -3.89  | -3.48  | -2.27  | -2.30  | -2.93  | -2.25  | -0.75 | -0.03 | 0.00                            | 0.00  | 0.00  | -0.09  | -1.18  | -4.29  | -4.32  | -2.96  | -4.58  | -2.11  | 0.00       | 0.00  | 0.00  | 0.00  |
| DUNWOD     | 61760 | 24.23                       | 24.35  | 23.58  | 24.82  | 23.39  | 24.45  | 26.50  | 28.15  | 23.47 | 22.59 | 23.07                           | 22.15 | 22.98 | 22.06  | 24.20  | 29.46  | 37.63  | 42.25  | 39.91  | 55.00  | 38.84      | 25.76 | 24.37 | 23.52 |
|            |       | 1.47                        | 0.95   | 0.80   | 0.42   | 0.88   | 0.76   | 0.62   | 1.12   | 1.58  | 1.88  | 1.98                            | 1.92  | 2.01  | 1.94   | 1.47   | 0.18   | 0.82   | 1.91   | 0.96   | 3.29   | 3.01       | 2.04  | 1.96  | 1.83  |
|            |       | -5.62                       | -12.10 | -13.00 | -19.18 | -11.98 | -14.37 | -18.22 | -13.78 | -4.65 | -0.21 | 0.00                            | 0.00  | 0.00  | -0.57  | -7.57  | -27.32 | -27.22 | -18.23 | -28.14 | -12.93 | 0.00       | 0.00  | 0.00  | 0.00  |
| GENESE     | 61753 | 17.84                       | 12.81  | 11.38  | 7.61   | 12.02  | 11.15  | 9.98   | 14.95  | 17.67 | 20.26 | 20.71                           | 19.82 | 20.47 | 19.09  | 15.71  | 5.26   | 12.81  | 24.06  | 14.13  | 39.80  | 35.53      | 23.37 | 22.07 | 21.25 |
|            |       | 0.00                        | 0.00   | -0.02  | 0.01   | -0.01  | 0.03   | 0.05   | -0.03  | -0.15 | -0.27 | -0.38                           | -0.42 | -0.50 | -0.51  | -0.37  | -0.05  | -0.11  | -0.32  | -0.19  | -0.57  | -0.30      | -0.35 | -0.34 | -0.44 |
|            |       | -0.70                       | -1.51  | -1.62  | -2.39  | -1.49  | -1.79  | -2.27  | -1.72  | -0.58 | -0.03 | 0.00                            | 0.00  | 0.00  | -0.07  | -0.93  | -3.35  | -3.34  | -2.26  | -3.50  | -1.61  | 0.00       | 0.00  | 0.00  | 0.00  |
| H Q        | 61844 | 11.02                       | 5.90   | 4.76   | 1.19   | 5.88   | 6.39   | 5.80   | 9.79   | 16.80 | 19.98 | 20.61                           | 19.80 | 20.52 | 19.09  | 14.81  | 1.92   | 9.36   | 21.59  | 10.33  | 37.89  | 35.04      | 23.22 | 21.93 | 21.28 |
|            |       | -0.43                       | -0.28  | -0.24  | -0.13  | -0.27  | -0.25  | -0.20  | -0.35  | -0.45 | -0.51 | -0.48                           | -0.44 | -0.44 | -0.45  | -0.34  | -0.04  | -0.22  | -0.51  | -0.26  | -0.87  | -0.79      | -0.50 | -0.48 | -0.41 |
|            |       | 5.68                        | 5.11   | 4.78   | 3.89   | 4.38   | 2.69   | 1.66   | 3.12   | 0.00  | 0.00  | 0.00                            | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.23   | 0.00   | 0.00       | 0.00  | 0.00  | 0.00  |
| HUD VL     | 61758 | 24.05                       | 24.22  | 23.48  | 24.76  | 23.29  | 24.37  | 26.43  | 28.04  | 23.28 | 22.36 | 22.80                           | 21.88 | 22.69 | 21.78  | 23.95  | 29.30  | 37.44  | 42.04  | 39.74  | 54.65  | 38.57      | 25.54 | 24.14 | 23.30 |
|            |       | 1.30                        | 0.84   | 0.71   | 0.38   | 0.78   | 0.68   | 0.56   | 1.01   | 1.39  | 1.65  | 1.70                            | 1.64  | 1.72  | 1.67   | 1.27   | 0.16   | 0.74   | 1.75   | 0.87   | 2.99   | 2.73       | 1.83  | 1.72  | 1.62  |
|            |       | -5.61                       | -12.08 | -12.98 | -19.16 | -11.98 | -14.36 | -18.21 | -13.77 | -4.64 | -0.21 | 0.00                            | 0.00  | 0.00  | -0.57  | -7.53  | -27.18 | -27.11 | -18.18 | -28.05 | -12.89 | 0.00       | 0.00  | 0.00  | 0.00  |
| LONGIL     | 61762 | 24.54                       | 24.57  | 23.77  | 24.94  | 23.59  | 24.68  | 28.37  | 32.89  | 27.41 | 23.92 | 23.32                           | 22.37 | 23.26 | 32.52  | 27.93  | 37.33  | 37.77  | 42.62  | 40.12  | 55.27  | 39.09      | 29.12 | 33.60 | 26.44 |
|            |       | 1.77                        | 1.15   | 0.96   | 0.50   | 1.05   | 0.96   | 0.80   | 1.45   | 1.99  | 2.25  | 2.23                            | 2.13  | 2.29  | 2.27   | 1.72   | 0.22   | 0.92   | 2.25   | 1.11   | 3.54   | 3.26       | 2.42  | 2.44  | 2.27  |
|            |       | -5.63                       | -12.13 | -13.02 | -19.22 | -12.01 | -14.40 | -19.91 | -18.18 | -8.18 | -1.17 | 0.00                            | 0.00  | 0.00  | -10.71 | -11.05 | -35.16 | -27.27 | -18.26 | -28.18 | -12.96 | 0.00       | -2.98 | -8.76 | -2.49 |
| MHK VL     | 61756 | 15.92                       | 11.40  | 10.19  | 7.11   | 11.06  | 11.15  | 10.10  | 12.51  | 18.67 | 21.14 | 21.71                           | 20.81 | 21.53 | 20.15  | 17.01  | 7.44   | 15.07  | 26.24  | 16.32  | 42.49  | 37.12      | 24.58 | 23.19 | 22.40 |
|            |       | 0.47                        | 0.31   | 0.27   | 0.15   | 0.31   | 0.27   | 0.23   | 0.41   | 0.53  | 0.61  | 0.62                            | 0.58  | 0.57  | 0.50   | 0.39   | 0.06   | 0.29   | 0.80   | 0.41   | 1.38   | 1.29       | 0.86  | 0.77  | 0.71  |
|            |       | 1.69                        | 0.20   | -0.13  | -1.74  | -0.21  | -1.55  | -2.22  | 1.16   | -0.89 | -0.04 | 0.00                            | 0.00  | 0.00  | -0.11  | -1.47  | -5.42  | -5.19  | -3.33  | -5.10  | -2.35  | 0.00       | 0.00  | 0.00  | 0.00  |
| MILLWD     | 61759 | 24.24                       | 24.44  | 23.69  | 25.00  | 23.49  | 24.59  | 26.68  | 28.28  | 23.49 | 22.56 | 23.02                           | 22.10 | 22.91 | 21.99  | 24.23  | 29.74  | 37.90  | 42.40  | 40.18  | 55.05  | 38.77      | 25.70 | 24.30 | 23.46 |
|            |       | 1.42                        | 0.92   | 0.77   | 0.41   | 0.84   | 0.74   | 0.61   | 1.10   | 1.55  | 1.85  | 1.93                            | 1.86  | 1.95  | 1.88   | 1.42   | 0.18   | 0.81   | 1.88   | 0.94   | 3.22   | 2.94       | 1.98  | 1.88  | 1.77  |
|            |       | -5.68                       | -12.22 | -13.13 | -19.38 | -12.11 | -14.52 | -18.41 | -13.92 | -4.70 | -0.21 | 0.00                            | 0.00  | 0.00  | -0.58  | -7.65  | -27.60 | -27.50 | -18.41 | -28.42 | -13.06 | 0.00       | 0.00  | 0.00  | 0.00  |
| N.Y.C.     | 61761 | 24.32                       | 24.41  | 23.64  | 24.86  | 23.44  | 24.50  | 26.54  | 28.22  | 23.57 | 22.71 | 23.21                           | 22.28 | 23.11 | 22.19  | 24.30  | 29.52  | 37.69  | 42.31  | 40.00  | 55.10  | 38.95      | 25.86 | 24.47 | 23.62 |
|            |       | 1.55                        | 0.99   | 0.84   | 0.44   | 0.90   | 0.79   | 0.64   | 1.16   | 1.67  | 2.00  | 2.12                            | 2.05  | 2.15  | 2.08   | 1.56   | 0.20   | 0.85   | 1.95   | 1.01   | 3.38   | 3.12       | 2.14  | 2.06  | 1.93  |
|            |       | -5.63                       | -12.12 | -13.02 | -19.21 | -12.00 | -14.39 | -18.25 | -13.79 | -4.65 | -0.21 | 0.00                            | 0.00  | 0.00  | -0.57  | -7.58  | -27.36 | -27.26 | -18.25 | -28.17 | -12.95 | 0.00       | 0.00  | 0.00  | 0.00  |
| NORTH      | 61755 | -12.38                      | -14.79 | -14.56 | -14.54 | -12.28 | -5.50  | -1.21  | -4.14  | 16.73 | 20.01 | 20.76                           | 20.04 | 20.80 | 19.35  | 15.03  | 1.95   | 9.51   | 21.92  | 10.72  | 38.50  | 35.66      | 23.62 | 22.28 | 21.68 |
|            |       | -0.61                       | -0.36  | -0.27  | -0.16  | -0.38  | -0.35  | -0.30  | -0.42  | -0.51 | -0.49 | -0.33                           | -0.20 | -0.16 | -0.18  | -0.13  | -0.01  | -0.08  | -0.19  | -0.09  | -0.27  | -0.17      | -0.10 | -0.14 | -0.01 |
|            |       | 28.91                       | 25.73  | 24.07  | 19.59  | 22.43  | 14.48  | 8.57   | 16.99  | 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 | 25.09                       | 26.82  | 26.30  | 29.03  | 25.85  | 27.50  | 30.45  | 30.95  | 24.02 | 22.11 | 22.46                           | 21.57 | 22.36 | 21.60  | 25.47  | 35.56  | 43.56  | 45.54  | 45.75  | 57.13  | 38.11      | 25.17 | 23.82 | 23.05 |
|            |       | 1.06                        | 0.69   | 0.59   | 0.31   | 0.63   | 0.57   | 0.46   | 0.81   | 1.08  | 1.35  | 1.37                            | 1.32  | 1.39  | 1.36   | 1.04   | 0.13   | 0.63   | 1.42   | 0.70   | 2.52   | 2.28       | 1.45  | 1.40  | 1.36  |
|            |       | -6.89                       | -14.83 | -15.93 | -23.50 | -14.68 | -17.61 | -22.33 | -16.88 | -5.69 | -0.26 | 0.00                            | 0.00  | 0.00  | -0.70  | -9.28  | -33.47 | -33.34 | -22.01 | -34.23 | -15.85 | 0.00       | 0.00  | 0.00  | 0.00  |

|               |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |        |        |        |        |       |        |       |       |        |
|---------------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|--------|-------|-------|--------|
| OH<br>61846   | 12.11 | 9.09  | 7.48  | 7.34   | 11.31 | 11.26 | 10.22  | 16.23 | 17.26 | 19.71 | 21.08 | 19.28 | 19.88 | 18.54 | 15.46 | 5.91   | 22.17  | 23.61  | 14.32  | 38.53 | 46.71  | 22.49 | 21.27 | 33.51  |
|               | -0.46 | -0.28 | -0.26 | -0.11  | -0.27 | -0.20 | -0.14  | -0.44 | -0.67 | -0.82 | -0.92 | -0.97 | -1.08 | -1.09 | -0.82 | -0.11  | -0.42  | -1.20  | -0.68  | -2.16 | -1.57  | -1.23 | -1.15 | -1.23  |
|               | 4.57  | 1.93  | 2.04  | -2.23  | -1.05 | -2.14 | -2.71  | -3.41 | -0.69 | -0.03 | -0.91 | 0.00  | 0.00  | -0.08 | -1.13 | -4.06  | -13.00 | -2.71  | -4.18  | -1.92 | -12.44 | 0.00  | 0.00  | -13.05 |
| PJM<br>61847  | 19.37 | 17.52 | 16.38 | 16.12  | 17.55 | 17.88 | 18.35  | 21.57 | 20.54 | 21.36 | 21.82 | 20.91 | 21.68 | 20.52 | 19.98 | 17.63  | 25.39  | 33.08  | 26.95  | 47.09 | 36.84  | 24.34 | 23.06 | 22.25  |
|               | 0.63  | 0.42  | 0.35  | 0.19   | 0.39  | 0.34  | 0.27   | 0.45  | 0.64  | 0.74  | 0.73  | 0.67  | 0.70  | 0.65  | 0.50  | 0.05   | 0.25   | 0.55   | 0.29   | 0.93  | 1.01   | 0.62  | 0.65  | 0.56   |
|               | -1.61 | -5.81 | -6.25 | -10.72 | -6.63 | -8.21 | -10.42 | -7.86 | -2.66 | -0.12 | 0.00  | 0.00  | 0.00  | -0.33 | -4.33 | -15.62 | -15.56 | -10.42 | -15.85 | -7.39 | 0.00   | 0.00  | 0.00  | 0.00   |
| WEST<br>61752 | 11.47 | 8.75  | 7.09  | 7.29   | 11.52 | 11.59 | 10.57  | 15.26 | 17.73 | 20.21 | 20.68 | 19.74 | 20.37 | 18.97 | 15.86 | 6.27   | 13.73  | 24.34  | 14.95  | 39.62 | 35.16  | 23.07 | 21.82 | 21.00  |
|               | -0.12 | -0.04 | -0.05 | -0.02  | -0.08 | -0.04 | -0.01  | -0.15 | -0.27 | -0.32 | -0.41 | -0.50 | -0.60 | -0.65 | -0.50 | -0.07  | -0.21  | -0.69  | -0.38  | -1.23 | -0.68  | -0.65 | -0.60 | -0.69  |
|               | 5.55  | 2.50  | 2.64  | -2.09  | -1.06 | -2.31 | -2.93  | -2.15 | -0.75 | -0.03 | 0.00  | 0.00  | 0.00  | -0.09 | -1.21 | -4.37  | -4.36  | -2.92  | -4.52  | -2.08 | 0.00   | 0.00  | 0.00  | 0.00   |