

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

01/18/2020

| 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 | 28.98  | 58.12  | 84.57  | 57.24  | 38.63  | 18.66 | 18.24 | 21.71  | 27.38  | 41.52  | 46.50 | 35.27  | 33.44  | 41.73  | 34.66  | 30.61  | 31.03  | 39.80  | 30.98  | 29.30  | 29.89  | 44.45  | 58.97  | 229.75  |
| 61757  | 1.50   | 0.50   | -0.56  | 0.89   | -0.23  | 1.05  | 0.88  | 1.36   | 1.74   | 2.77   | 3.21  | 2.39   | 2.20   | 2.75   | 1.76   | 1.82   | 2.06   | 2.63   | 2.08   | 1.92   | 1.87   | 0.27   | -0.21  | -1.63   |
|        | -5.48  | -50.09 | -94.05 | -42.24 | -42.78 | -0.65 | -3.86 | 0.00   | -0.31  | 0.39   | 0.77  | 0.30   | 0.15   | 0.33   | -8.06  | -3.37  | 0.30   | 0.43   | 0.16   | -1.14  | -1.76  | -40.52 | -62.55 | -259.52 |
| CENTRL | 22.86  | 13.89  | 2.82   | 19.45  | 1.44   | 17.06 | 13.33 | 20.31  | 25.07  | 37.59  | 40.99 | 31.99  | 30.77  | 37.99  | 25.45  | 25.38  | 27.98  | 35.82  | 28.44  | 26.10  | 26.20  | 8.79   | 4.55   | 4.65    |
| 61754  | 0.17   | 0.05   | -0.11  | 0.04   | -0.03  | 0.02  | -0.01 | -0.03  | -0.01  | 0.06   | 0.13  | 0.05   | -0.02  | 0.03   | -0.08  | -0.08  | -0.05  | -0.01  | 0.02   | 0.02   | 0.06   | 0.01   | -0.01  | -0.11   |
|        | -0.69  | -6.31  | -11.85 | -5.31  | -5.38  | -0.08 | 0.15  | 0.00   | 0.25   | 1.60   | 3.21  | 1.24   | 0.60   | 1.35   | -0.69  | -0.04  | 1.24   | 1.78   | 0.64   | 0.17   | 0.12   | -5.12  | -7.92  | -32.89  |
| DUNWOD | 27.88  | 45.06  | 59.85  | 46.29  | 27.37  | 18.76 | 17.38 | 22.17  | 27.85  | 42.45  | 47.43 | 36.00  | 34.25  | 42.72  | 33.19  | 30.31  | 31.58  | 40.49  | 31.65  | 29.59  | 30.03  | 33.88  | 42.47  | 161.16  |
| 61760  | 1.84   | 0.57   | -0.61  | 1.00   | -0.29  | 1.32  | 1.12  | 1.82   | 2.34   | 3.82   | 4.37  | 3.21   | 3.05   | 3.83   | 2.46   | 2.46   | 2.69   | 3.45   | 2.79   | 2.54   | 2.53   | 0.35   | -0.28  | -2.12   |
|        | -4.04  | -36.96 | -69.38 | -31.17 | -31.57 | -0.48 | -2.76 | 0.00   | -0.19  | 0.51   | 1.00  | 0.39   | 0.19   | 0.43   | -5.89  | -2.43  | 0.40   | 0.56   | 0.20   | -0.80  | -1.24  | -29.86 | -46.12 | -191.41 |
| GENESE | 21.86  | 11.98  | -0.03  | 17.54  | 0.16   | 16.39 | 13.03 | 19.55  | 24.25  | 36.95  | 41.10 | 31.41  | 29.96  | 37.32  | 24.43  | 24.50  | 27.68  | 35.60  | 27.76  | 25.25  | 25.33  | 7.29   | 2.55   | -3.36   |
| 61753  | -0.64  | -0.21  | 0.14   | -0.50  | 0.09   | -0.63 | -0.57 | -0.80  | -0.99  | -1.50  | -1.60 | -1.23  | -1.17  | -1.42  | -1.03  | -1.08  | -1.10  | -1.30  | -1.05  | -0.99  | -0.96  | -0.14  | 0.09   | 0.61    |
|        | -0.51  | -4.66  | -8.75  | -3.93  | -3.98  | -0.06 | -0.10 | 0.00   | 0.09   | 0.69   | 1.37  | 0.54   | 0.26   | 0.57   | -0.62  | -0.16  | 0.50   | 0.71   | 0.25   | 0.01   | -0.04  | -3.77  | -5.82  | -24.16  |
| H Q    | 21.45  | 7.37   | -8.17  | 13.85  | -3.83  | 16.64 | 13.51 | 25.70  | 24.93  | 38.42  | 0.00  | 32.58  | 30.85  | 38.62  | 24.42  | 25.01  | 28.84  | 37.07  | 28.58  | 25.79  | 25.72  | 3.58   | -3.29  | -27.59  |
| 61844  | -0.54  | -0.16  | 0.20   | -0.26  | 0.08   | -0.32 | -0.25 | -0.29  | -0.40  | -0.72  | -0.88 | -0.60  | -0.54  | -0.69  | -0.42  | -0.41  | -0.43  | -0.54  | -0.48  | -0.45  | -0.54  | -0.08  | 0.07   | 0.54    |
|        | 0.00   | 0.00   | -0.55  | 0.00   | 0.00   | 0.00  | -0.26 | -5.65  | 0.00   | 0.00   | 43.18 | 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 | 27.76  | 44.90  | 59.63  | 46.16  | 27.28  | 18.71 | 17.32 | 22.05  | 27.70  | 42.21  | 47.14 | 35.80  | 34.04  | 42.48  | 33.01  | 30.16  | 31.45  | 40.37  | 31.51  | 29.45  | 29.89  | 33.74  | 42.31  | 160.54  |
| 61758  | 1.73   | 0.54   | -0.60  | 0.97   | -0.28  | 1.27  | 1.06  | 1.70   | 2.19   | 3.57   | 4.07  | 3.01   | 2.84   | 3.59   | 2.29   | 2.32   | 2.57   | 3.32   | 2.65   | 2.41   | 2.39   | 0.33   | -0.27  | -1.99   |
|        | -4.03  | -36.83 | -69.16 | -31.08 | -31.47 | -0.48 | -2.75 | 0.00   | -0.18  | 0.51   | 1.00  | 0.39   | 0.19   | 0.43   | -5.87  | -2.42  | 0.39   | 0.56   | 0.20   | -0.79  | -1.24  | -29.75 | -45.94 | -190.66 |
| LONGIL | 28.39  | 45.24  | 59.65  | 46.60  | 27.29  | 19.15 | 17.67 | 22.63  | 28.47  | 43.52  | 48.83 | 37.09  | 35.50  | 82.34  | 74.62  | 31.19  | 32.57  | 41.71  | 32.60  | 39.53  | 39.86  | 36.96  | 42.36  | 160.36  |
| 61762  | 2.35   | 0.75   | -0.80  | 1.32   | -0.37  | 1.71  | 1.41  | 2.28   | 2.95   | 4.89   | 5.76  | 4.30   | 4.07   | 5.15   | 3.29   | 3.32   | 3.69   | 4.66   | 3.73   | 3.48   | 3.47   | 0.48   | -0.39  | -2.91   |
|        | -4.04  | -36.96 | -69.38 | -31.17 | -31.57 | -0.48 | -2.76 | 0.00   | -0.19  | 0.51   | 1.00  | 0.39   | -0.03  | -37.87 | -46.48 | -2.45  | 0.40   | 0.55   | 0.20   | -9.81  | -10.13 | -32.81 | -46.12 | -191.40 |
| MHK VL | 23.59  | 15.07  | 4.45   | 20.76  | 2.15   | 17.68 | 14.35 | 21.17  | 26.32  | 40.23  | 44.82 | 34.07  | 32.29  | 40.21  | 26.64  | 26.60  | 29.85  | 38.33  | 29.88  | 27.21  | 27.22  | 9.43   | 5.24   | 7.36    |
| 61756  | 0.81   | 0.27   | -0.33  | 0.51   | -0.14  | 0.62  | 0.51  | 0.82   | 1.05   | 1.68   | 1.90  | 1.33   | 1.11   | 1.38   | 0.79   | 0.84   | 1.01   | 1.35   | 1.04   | 0.91   | 0.83   | 0.11   | -0.08  | -0.74   |
|        | -0.78  | -7.26  | -13.71 | -6.15  | -6.21  | -0.09 | -0.34 | 0.00   | 0.05   | 0.59   | 1.15  | 0.44   | 0.21   | 0.48   | -1.01  | -0.34  | 0.44   | 0.63   | 0.22   | -0.05  | -0.13  | -5.66  | -8.69  | -36.24  |
| MILLWD | 27.91  | 45.60  | 60.87  | 46.75  | 27.84  | 18.76 | 17.41 | 22.14  | 27.83  | 42.42  | 47.37 | 35.95  | 34.20  | 42.65  | 33.24  | 30.32  | 31.56  | 40.49  | 31.63  | 29.57  | 30.02  | 34.31  | 43.14  | 163.93  |
| 61759  | 1.82   | 0.56   | -0.61  | 1.01   | -0.29  | 1.32  | 1.11  | 1.79   | 2.31   | 3.78   | 4.30  | 3.16   | 2.99   | 3.76   | 2.42   | 2.43   | 2.68   | 3.45   | 2.77   | 2.52   | 2.50   | 0.35   | -0.28  | -2.08   |
|        | -4.10  | -37.51 | -70.40 | -31.63 | -32.04 | -0.48 | -2.81 | 0.00   | -0.19  | 0.50   | 0.99  | 0.39   | 0.19   | 0.43   | -5.98  | -2.46  | 0.39   | 0.56   | 0.20   | -0.81  | -1.27  | -30.30 | -46.79 | -194.14 |
| N.Y.C. | 40.52  | 45.10  | 59.80  | 46.36  | 27.34  | 18.89 | 17.48 | 76.17  | 106.93 | 109.42 | 54.28 | 46.10  | 44.58  | 89.37  | 38.44  | 30.51  | 31.78  | 49.59  | 40.57  | 32.66  | 30.22  | 33.90  | 50.07  | 176.57  |
| 61761  | 2.03   | 0.61   | -0.64  | 1.08   | -0.31  | 1.45  | 1.22  | 2.01   | 2.55   | 4.17   | 4.72  | 3.48   | 3.31   | 4.17   | 2.68   | 2.66   | 2.89   | 3.67   | 3.00   | 2.75   | 2.71   | 0.38   | -0.31  | -2.29   |
|        | -16.49 | -36.95 | -69.36 | -31.17 | -31.57 | -0.48 | -2.76 | -53.81 | -79.05 | -66.12 | -5.49 | -9.45  | -9.88  | -45.89 | -10.92 | -2.43  | 0.39   | -8.31  | -8.51  | -3.67  | -1.25  | -29.85 | -53.74 | -206.99 |
| NORTH  | 21.53  | 7.43   | -8.81  | 13.98  | -3.87  | 16.83 | 13.43 | 20.46  | 25.42  | 39.02  | 43.83 | 33.03  | 31.13  | 38.92  | 24.58  | 25.29  | 29.10  | 37.35  | 28.89  | 26.13  | 25.88  | 3.60   | -3.31  | -27.72  |
| 61755  | -0.46  | -0.10  | 0.11   | -0.13  | 0.04   | -0.13 | -0.07 | 0.11   | 0.09   | -0.12  | -0.24 | -0.15  | -0.26  | -0.40  | -0.26  | -0.13  | -0.17  | -0.26  | -0.17  | -0.12  | -0.38  | -0.07  | 0.06   | 0.41    |
|        | 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    | 29.32  | 50.84  | 72.02  | 51.72  | 32.91  | 18.64 | 19.87 | 35.35  | 38.52  | 51.20  | 56.91 | 47.56  | 47.58  | 59.31  | 54.85  | 60.94  | 51.17  | 71.17  | 78.50  | 75.63  | 61.80  | 57.40  | 51.75  | 194.26  |
| 61845  | 1.58   | 0.50   | -0.55  | 0.90   | -0.26  | 1.12  | 0.95  | 1.49   | 1.89   | 3.02   | 3.44  | 2.54   | 2.40   | 3.02   | 1.95   | 1.98   | 2.17   | 2.75   | 2.22   | 2.07   | 2.05   | 0.29   | -0.24  | -1.80   |
|        | -5.74  | -42.82 | -81.49 | -36.71 | -37.08 | -0.56 | -5.43 | -13.51 | -11.30 | -9.04  | -9.40 | -11.83 | -13.79 | -16.97 | -28.06 | -33.54 | -19.72 | -30.81 | -47.22 | -47.32 | -33.48 | -53.44 | -55.36 | -224.19 |

|               |       |        |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |         |
|---------------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| O H<br>61846  | 20.88 | 12.97  | 2.80   | 18.04  | 1.45   | 15.60 | 5.63  | 18.54 | 20.00 | 18.38 | 6.08  | 16.91 | 22.02 | 21.26 | 19.79 | 19.06 | 13.12 | 14.94 | 19.55 | 20.61 | 20.42 | 8.09   | 4.36   | 6.60    |
|               | -1.65 | -0.55  | 0.48   | -1.12  | 0.25   | -1.44 | -1.25 | -1.76 | -2.24 | -3.47 | -3.84 | -3.00 | -2.86 | -3.44 | -2.41 | -2.51 | -2.73 | -3.49 | -2.64 | -2.33 | -2.28 | -0.32  | 0.25   | 1.68    |
|               | -0.54 | -5.99  | -11.24 | -5.05  | -5.12  | -0.07 | 6.62  | 0.05  | 3.09  | 17.28 | 34.14 | 13.26 | 6.52  | 14.61 | 2.64  | 3.86  | 13.43 | 19.17 | 6.87  | 3.31  | 3.56  | -4.75  | -7.48  | -33.05  |
| PJM<br>61847  | 24.79 | 30.33  | 34.17  | 33.35  | 15.46  | 17.37 | 13.08 | 26.26 | 24.70 | 33.55 | 32.47 | 28.86 | 29.45 | 34.61 | 27.51 | 25.70 | 24.61 | 30.92 | 26.95 | 25.94 | 26.15 | 22.06  | 24.97  | 89.24   |
|               | 0.31  | 0.07   | -0.13  | 0.06   | -0.04  | 0.12  | 0.10  | 0.28  | 0.35  | 0.74  | 0.92  | 0.54  | 0.44  | 0.65  | 0.30  | 0.27  | 0.26  | 0.34  | 0.41  | 0.40  | 0.44  | 0.06   | -0.04  | -0.36   |
|               | -2.49 | -22.74 | -43.23 | -19.17 | -19.42 | -0.29 | 0.52  | -5.63 | 0.98  | 6.33  | 12.51 | 4.86  | 2.39  | 5.35  | -2.36 | 0.00  | 4.92  | 7.03  | 2.52  | 0.71  | 0.55  | -18.34 | -28.37 | -117.74 |
| WEST<br>61752 | 21.51 | 13.20  | 2.73   | 18.38  | 1.44   | 15.91 | 6.83  | 18.92 | 20.95 | 21.59 | 11.75 | 19.43 | 23.53 | 24.03 | 20.73 | 20.09 | 15.48 | 18.25 | 21.03 | 21.59 | 21.44 | 8.23   | 4.40   | 4.53    |
|               | -1.15 | -0.39  | 0.27   | -0.84  | 0.17   | -1.12 | -1.02 | -1.38 | -1.72 | -2.64 | -2.86 | -2.30 | -2.24 | -2.67 | -1.97 | -2.06 | -2.20 | -2.80 | -2.09 | -1.83 | -1.78 | -0.26  | 0.20   | 1.28    |
|               | -0.66 | -6.06  | -11.38 | -5.12  | -5.18  | -0.07 | 5.66  | 0.04  | 2.66  | 14.91 | 29.45 | 11.44 | 5.62  | 12.61 | 2.14  | 3.27  | 11.60 | 16.56 | 5.93  | 2.83  | 3.04  | -4.83  | -7.57  | -31.38  |