

## Day Ahead Market Zonal LBMP

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

07/21/2014

| 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          | 27.00                  | 23.34                  | 20.47                  | 19.25                  | 19.68                  | 21.61                  | 26.41                  | 28.43                  | 31.76                  | 33.56                  | 37.62                  | 38.94                  | 39.39                  | 42.05                  | 45.18                  | 47.60                  | 48.47                  | 46.46                  | 40.64                  | 38.42                  | 37.81                  | 35.94                  | 32.25                  | 29.77                  |
| 61757           | 1.36<br>0.00           | 1.11<br>0.00           | 0.97<br>0.00           | 0.93<br>0.00           | 0.97<br>0.00           | 1.05<br>0.00           | 1.26<br>0.00           | 1.38<br>0.00           | 1.48<br>0.00           | 1.48<br>0.00           | 1.76<br>0.00           | 1.89<br>0.00           | 1.91<br>0.00           | 2.08<br>0.00           | 2.31<br>0.00           | 2.48<br>0.00           | 2.57<br>0.00           | 2.42<br>0.00           | 1.97<br>0.00           | 1.86<br>0.00           | 1.77<br>0.00           | 1.74<br>0.00           | 1.36<br>0.00           | 1.36<br>0.00           |
| CENTRL<br>61754 | 25.97<br>0.33<br>0.00  | 22.54<br>0.31<br>0.00  | 19.77<br>0.27<br>0.00  | 18.59<br>0.28<br>0.00  | 18.97<br>0.26<br>0.00  | 20.85<br>0.29<br>0.00  | 25.56<br>0.40<br>0.00  | 27.62<br>0.57<br>0.00  | 30.76<br>0.48<br>0.00  | 32.76<br>0.67<br>0.00  | 36.86<br>1.00<br>0.00  | 38.12<br>1.08<br>0.00  | 38.64<br>1.16<br>0.00  | 40.97<br>1.00<br>0.00  | 43.94<br>1.07<br>0.00  | 46.30<br>1.17<br>0.00  | 47.09<br>1.19<br>0.00  | 45.23<br>1.19<br>0.00  | 39.82<br>1.16<br>0.00  | 37.65<br>1.10<br>0.00  | 37.02<br>0.97<br>0.00  | 35.30<br>1.09<br>0.00  | 31.88<br>0.99<br>0.00  | 28.95<br>0.54<br>0.00  |
|                 | 27.85<br>2.21<br>0.00  | 24.10<br>1.87<br>0.00  | 21.10<br>1.60<br>0.00  | 19.82<br>1.50<br>0.00  | 20.24<br>1.53<br>0.00  | 22.29<br>1.73<br>0.00  | 27.29<br>2.14<br>0.00  | 29.59<br>2.54<br>0.00  | 33.09<br>2.82<br>0.00  | 34.91<br>2.82<br>0.00  | 39.12<br>3.26<br>0.00  | 40.38<br>3.34<br>0.00  | 40.78<br>3.30<br>0.00  | 43.73<br>3.76<br>0.00  | 46.95<br>4.07<br>0.00  | 49.50<br>4.38<br>0.00  | 50.35<br>4.45<br>0.00  | 48.18<br>4.14<br>0.00  | 42.07<br>3.40<br>0.00  | 39.81<br>3.25<br>0.00  | 39.29<br>3.25<br>0.00  | 37.07<br>2.87<br>0.00  | 33.27<br>2.38<br>0.00  | 30.85<br>2.44<br>0.00  |
|                 | 25.69<br>0.05<br>0.00  | 22.30<br>0.07<br>0.00  | 19.54<br>0.04<br>0.00  | 18.37<br>0.06<br>0.00  | 18.72<br>0.02<br>0.00  | 20.54<br>-0.02<br>0.00 | 25.16<br>0.00<br>0.00  | 26.99<br>-0.05<br>0.00 | 29.85<br>-0.42<br>0.00 | 31.96<br>-0.13<br>0.00 | 36.01<br>0.14<br>0.00  | 37.27<br>0.22<br>0.00  | 38.00<br>0.52<br>0.00  | 40.05<br>0.08<br>0.00  | 42.91<br>0.04<br>0.00  | 45.12<br>0.00<br>0.00  | 46.09<br>0.18<br>0.00  | 44.30<br>0.27<br>0.00  | 39.13<br>0.47<br>0.00  | 37.00<br>0.44<br>0.00  | 36.37<br>0.32<br>0.00  | 34.85<br>0.65<br>0.00  | 31.76<br>0.86<br>0.00  | 28.72<br>0.31<br>0.00  |
| H Q<br>61844    | 24.95<br>-0.69<br>0.00 | 21.65<br>-0.58<br>0.00 | 18.99<br>-0.51<br>0.00 | 17.84<br>-0.48<br>0.00 | 18.22<br>-0.49<br>0.00 | 20.03<br>-0.53<br>0.00 | 24.48<br>-0.68<br>0.00 | 26.24<br>-0.81<br>0.00 | 29.46<br>-0.82<br>0.00 | 31.25<br>-0.83<br>0.00 | 34.75<br>-1.11<br>0.00 | 35.90<br>-1.15<br>0.00 | 36.28<br>-1.20<br>0.00 | 38.69<br>-1.28<br>0.00 | 41.46<br>-1.41<br>0.00 | 43.54<br>-1.58<br>0.00 | 44.29<br>-1.61<br>0.00 | 42.50<br>-1.54<br>0.00 | 37.43<br>-1.24<br>0.00 | 35.39<br>-1.17<br>0.00 | 34.93<br>-1.12<br>0.00 | 33.11<br>-1.10<br>0.00 | 30.00<br>-0.90<br>0.00 | 27.64<br>-0.77<br>0.00 |
|                 | 27.77<br>2.13<br>0.00  | 24.03<br>1.80<br>0.00  | 21.06<br>1.56<br>0.00  | 19.76<br>1.45<br>0.00  | 20.18<br>1.48<br>0.00  | 22.19<br>1.62<br>0.00  | 27.19<br>2.04<br>0.00  | 29.51<br>2.46<br>0.00  | 32.97<br>2.69<br>0.00  | 34.72<br>2.63<br>0.00  | 39.02<br>3.16<br>0.00  | 40.24<br>3.19<br>0.00  | 40.70<br>3.22<br>0.00  | 43.69<br>3.72<br>0.00  | 46.95<br>4.07<br>0.00  | 49.59<br>4.47<br>0.00  | 50.45<br>4.55<br>0.00  | 48.22<br>4.19<br>0.00  | 42.15<br>3.48<br>0.00  | 39.85<br>3.29<br>0.00  | 39.29<br>3.25<br>0.00  | 37.07<br>2.87<br>0.00  | 33.31<br>2.41<br>0.00  | 30.74<br>2.33<br>0.00  |
|                 | 28.41<br>2.77<br>0.00  | 24.61<br>2.38<br>0.00  | 21.60<br>2.11<br>0.00  | 20.33<br>2.01<br>0.00  | 20.73<br>2.02<br>0.00  | 22.87<br>2.30<br>0.00  | 27.60<br>2.44<br>0.00  | 30.13<br>3.08<br>0.00  | 34.00<br>3.72<br>0.00  | 36.20<br>4.08<br>-0.04 | 40.09<br>4.23<br>0.00  | 41.83<br>4.78<br>0.00  | 44.11<br>4.76<br>-1.87 | 45.69<br>5.32<br>-0.40 | 50.95<br>5.70<br>-2.37 | 55.00<br>6.09<br>-3.79 | 56.00<br>6.15<br>-3.94 | 55.40<br>5.81<br>-5.55 | 45.44<br>4.83<br>-1.95 | 43.05<br>4.53<br>-1.96 | 42.09<br>4.47<br>-1.58 | 38.98<br>4.07<br>-0.71 | 36.80<br>3.49<br>-2.42 | 31.68<br>3.27<br>0.00  |
| MHK VL<br>61756 | 26.28<br>0.64<br>0.00  | 22.77<br>0.53<br>0.00  | 19.91<br>0.41<br>0.00  | 18.70<br>0.39<br>0.00  | 19.10<br>0.39<br>0.00  | 21.04<br>0.47<br>0.00  | 25.81<br>0.65<br>0.00  | 27.89<br>0.84<br>0.00  | 31.27<br>1.00<br>0.00  | 33.18<br>1.09<br>0.00  | 37.19<br>1.33<br>0.00  | 38.42<br>1.37<br>0.00  | 38.87<br>1.39<br>0.00  | 41.37<br>1.40<br>0.00  | 44.37<br>1.50<br>0.00  | 46.66<br>1.54<br>0.00  | 47.51<br>1.61<br>0.00  | 45.58<br>1.54<br>0.00  | 40.02<br>1.35<br>0.00  | 37.84<br>1.28<br>0.00  | 37.34<br>1.30<br>0.00  | 35.53<br>1.33<br>0.00  | 31.88<br>0.99<br>0.00  | 29.29<br>0.88<br>0.00  |
|                 | 27.82<br>2.18<br>0.00  | 24.08<br>1.84<br>0.00  | 21.08<br>1.58<br>0.00  | 19.80<br>1.48<br>0.00  | 20.22<br>1.51<br>0.00  | 22.25<br>1.69<br>0.00  | 27.27<br>2.11<br>0.00  | 29.56<br>2.52<br>0.00  | 33.09<br>2.82<br>0.00  | 34.88<br>2.79<br>0.00  | 39.12<br>3.26<br>0.00  | 40.38<br>3.34<br>0.00  | 40.81<br>3.33<br>0.00  | 43.77<br>3.80<br>0.00  | 47.07<br>4.20<br>0.00  | 49.64<br>4.51<br>0.00  | 50.54<br>4.63<br>0.00  | 48.36<br>4.32<br>0.00  | 42.18<br>3.52<br>0.00  | 39.89<br>3.33<br>0.00  | 39.36<br>3.31<br>0.00  | 37.11<br>2.91<br>0.00  | 33.27<br>2.38<br>0.00  | 30.80<br>2.39<br>0.00  |
|                 | 28.05<br>2.41<br>0.00  | 24.28<br>2.04<br>0.00  | 21.25<br>1.76<br>0.00  | 19.97<br>1.65<br>0.00  | 20.37<br>1.66<br>0.00  | 22.42<br>1.85<br>0.00  | 27.52<br>2.36<br>0.00  | 29.81<br>2.76<br>0.00  | 33.33<br>3.06<br>0.00  | 35.14<br>3.05<br>0.00  | 39.38<br>3.52<br>0.00  | 40.64<br>3.59<br>0.00  | 40.93<br>3.45<br>0.00  | 43.85<br>3.88<br>0.00  | 47.07<br>4.20<br>0.00  | 49.55<br>4.42<br>0.00  | 50.45<br>4.55<br>0.00  | 48.31<br>4.27<br>0.00  | 42.26<br>3.60<br>0.00  | 39.96<br>3.40<br>0.00  | 39.51<br>3.46<br>0.00  | 37.38<br>3.18<br>0.00  | 33.58<br>2.69<br>0.00  | 31.14<br>2.73<br>0.00  |
| NORTH<br>61755  | 24.74<br>-0.90<br>0.00 | 21.50<br>-0.73<br>0.00 | 18.83<br>-0.66<br>0.00 | 17.69<br>-0.62<br>0.00 | 18.09<br>-0.62<br>0.00 | 19.89<br>-0.68<br>0.00 | 24.28<br>-0.88<br>0.00 | 25.97<br>-1.08<br>0.00 | 29.24<br>-1.03<br>0.00 | 31.06<br>-1.03<br>0.00 | 34.60<br>-1.26<br>0.00 | 35.75<br>-1.30<br>0.00 | 36.02<br>-1.46<br>0.00 | 38.41<br>-1.56<br>0.00 | 41.15<br>-1.72<br>0.00 | 43.05<br>-2.07<br>0.00 | 43.79<br>-2.11<br>0.00 | 42.06<br>-1.98<br>0.00 | 37.16<br>-1.51<br>0.00 | 35.13<br>-1.43<br>0.00 | 34.75<br>-1.30<br>0.00 | 32.90<br>-1.30<br>0.00 | 29.72<br>-1.17<br>0.00 | 27.44<br>-0.97<br>0.00 |
|                 | 27.26<br>1.62<br>0.00  | 23.59<br>1.36<br>0.00  | 20.69<br>1.19<br>0.00  | 19.43<br>1.12<br>0.00  | 19.85<br>1.14<br>0.00  | 21.84<br>1.28<br>0.00  | 26.72<br>1.56<br>0.00  | 28.86<br>1.81<br>0.00  | 32.30<br>2.03<br>0.00  | 34.14<br>2.06<br>0.00  | 38.23<br>2.37<br>0.00  | 39.49<br>2.44<br>0.00  | 39.91<br>2.43<br>0.00  | 42.73<br>2.76<br>0.00  | 45.83<br>2.96<br>0.00  | 48.33<br>3.20<br>0.00  | 49.16<br>3.26<br>0.00  | 47.07<br>3.04<br>0.00  | 41.18<br>2.51<br>0.00  | 38.93<br>2.37<br>0.00  | 38.39<br>2.34<br>0.00  | 36.32<br>2.12<br>0.00  | 32.62<br>1.73<br>0.00  | 30.14<br>1.73<br>0.00  |

|               |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                       |                        |
|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|
| O H<br>61846  | 25.02<br>-0.62<br>0.00 | 21.81<br>-0.42<br>0.00 | 19.24<br>-0.25<br>0.00 | 18.15<br>-0.17<br>0.00 | 18.50<br>-0.21<br>0.00 | 20.22<br>-0.35<br>0.00 | 24.63<br>-0.53<br>0.00 | 26.51<br>-0.54<br>0.00 | 29.00<br>-1.27<br>0.00 | 31.09<br>-0.99<br>0.00 | 35.29<br>-0.58<br>0.00 | 36.38<br>-0.67<br>0.00 | 36.99<br>-0.49<br>0.00 | 38.69<br>-1.28<br>0.00 | 41.24<br>-1.63<br>0.00 | 43.36<br>-1.76<br>0.00 | 44.25<br>-1.65<br>0.00 | 42.59<br>-1.45<br>0.00 | 37.93<br>-0.74<br>0.00 | 36.05<br>-0.51<br>0.00 | 35.22<br>-0.83<br>0.00 | 34.07<br>-0.14<br>0.00 | 31.42<br>0.52<br>0.00 | 28.07<br>-0.34<br>0.00 |
| PJM<br>61847  | 26.64<br>1.00<br>0.00  | 23.10<br>0.87<br>0.00  | 20.28<br>0.78<br>0.00  | 19.07<br>0.75<br>0.00  | 19.47<br>0.77<br>0.00  | 21.39<br>0.82<br>0.00  | 26.16<br>1.01<br>0.00  | 28.35<br>1.30<br>0.00  | 31.48<br>1.21<br>0.00  | 33.40<br>1.32<br>0.00  | 37.62<br>1.76<br>0.00  | 38.79<br>1.74<br>0.00  | 39.20<br>1.72<br>0.00  | 41.77<br>1.80<br>0.00  | 44.71<br>1.84<br>0.00  | 47.20<br>2.08<br>0.00  | 48.06<br>2.16<br>0.00  | 45.97<br>1.94<br>0.00  | 40.36<br>1.70<br>0.00  | 38.31<br>1.75<br>0.00  | 37.67<br>1.62<br>0.00  | 35.84<br>1.64<br>0.00  | 32.44<br>1.54<br>0.00 | 29.60<br>1.19<br>0.00  |
| WEST<br>61752 | 25.51<br>-0.13<br>0.00 | 22.23<br>0.00<br>0.00  | 19.61<br>0.12<br>0.00  | 18.50<br>0.18<br>0.00  | 18.87<br>0.17<br>0.00  | 20.63<br>0.06<br>0.00  | 25.16<br>0.00<br>0.00  | 27.05<br>0.00<br>0.00  | 29.61<br>-0.67<br>0.00 | 31.80<br>-0.29<br>0.00 | 36.22<br>0.36<br>0.00  | 37.46<br>0.41<br>0.00  | 38.12<br>0.64<br>0.00  | 39.85<br>-0.12<br>0.00 | 42.44<br>-0.43<br>0.00 | 44.63<br>-0.50<br>0.00 | 45.44<br>-0.46<br>0.00 | 43.78<br>-0.26<br>0.00 | 38.97<br>0.31<br>0.00  | 37.00<br>0.44<br>0.00  | 36.12<br>0.07<br>0.00  | 34.99<br>0.79<br>0.00  | 32.29<br>1.39<br>0.00 | 28.69<br>0.28<br>0.00  |